



COMPONENTI PNEUMATICI

pneumatic equipment

- I componenti prodotti dalla AZ Pneumatica sono il risultato di ventidue anni di esperienza nel settore della distribuzione e controllo dell'aria compressa. I sistemi utilizzati nella produzione di serie garantiscono alta affidabilità e prestazioni in grado di soddisfare tutte le esigenze applicative.

Le più avanzate tecnologie di produzione assicurano alla AZ Pneumatica elevati standard qualitativi e consentono di adattare con grande flessibilità tutti i prodotti alle più svariate applicazioni, con l'obiettivo di offrire il prodotto giusto per ogni esigenza.

- *The equipment and components which AZ Pneumatica manufactures are the result of twenty-two years experience in the field of compressed air distribution and control. The design and production techniques which are employed for the complete range of valves guarantee high reliability and performance that will satisfy all applications. Thanks to investment in the latest production techniques AZ Pneumatica can guarantee a high standard of quality and a flexible approach to adapt the product range to customer requirements.*

- AZ Pneumatica s.r.l. è azienda associata a
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ASSOCIAZIONE ITALIANA DEI COSTRUTTORI ED OPERATORI
DEL SETTORE OLEIDRAULICO E PNEUMATICO



	pagina <i>page</i>
• INFO	
Informazioni tecniche <i>Technical information</i>	4
• CAPITOLO I - chapter 1	
Microvalvole, valvole a cassetto <i>Microvalves, spool valves</i>	14
• CAPITOLO II - chapter 2	
Valvole ausiliarie e accessori <i>Ancillary valves and accessories</i>	199
• CAPITOLO III - chapter 3	
Elementi integrati <i>Integrated elements</i>	225
• CAPITOLO IV - chapter 4	
Cilindri e accessori <i>Cylinders and accessories</i>	263
• CAPITOLO V - chapter 5	
Gruppi trattamento aria <i>Air preparation units</i>	371
• INDEX	
Indici generali <i>Product reference directories</i>	478



SISTEMI DI MISURA

	sistema tecnico	→ moltiplicare per	sistema internazionale	← moltiplicare per	sistema anglosassone
lunghezza	metro [m]	1	metro [m]	0.0254	pollice [in]
	metro [m]	1	metro [m]	0.3048	piede [ft]
area	metro quadrato [m ²]	1	metro quadrato [m ²]	0.00064516	pollice quadrato [in ²]
	metro quadrato [m ²]	1	metro quadrato [m ²]	0.09290304	piede quadrato [ft ²]
volume	metro cubo [m ³]	1	metro cubo [m ³]	16.387064 · 10 ⁻⁶	pollice cubo [in ³]
	metro cubo [m ³]	1	metro cubo [m ³]	0.028316846	piede cubo [ft ³]
massa	kilogrammo [kg]	1	kilogrammo [kg]	0.45359237	libbra [lb]
forza, peso	kilogrammo [kg]	9.80665	Newton [N]	4.448221615	libbra [lb]
lavoro, energia	kilogrammetro [kg·m]	9.80665	Joule [J]	1.355817948	lb·ft
potenza	cavallo vapore [CV]	735.5	Watt [W]	745.7	horse power [HP]
	sistema tecnico	← dividere per	sistema internazionale	→ dividere per	sistema anglosassone

MULTIPLI E SOTTOMULTIPLI

nome	simbolo	valore
esa	E	10 ¹⁸
peta	P	10 ¹⁵
tera	T	10 ¹²
giga	G	10 ⁹
mega	M	10 ⁶
kilo	k	10 ³
etto	h	10 ²
deca	da	10 ¹
deci	d	10 ⁻¹
centi	c	10 ⁻²
milli	m	10 ⁻³
micro	μ	10 ⁻⁶
nano	n	10 ⁻⁹
pico	p	10 ⁻¹²
femto	f	10 ⁻¹⁵
atto	a	10 ⁻¹⁸

SCALE DI TEMPERATURA

°C = gradi Celsius o gradi centigradi

°F = gradi Fahrenheit

°K = gradi Kelvin (unità del sistema internazionale)

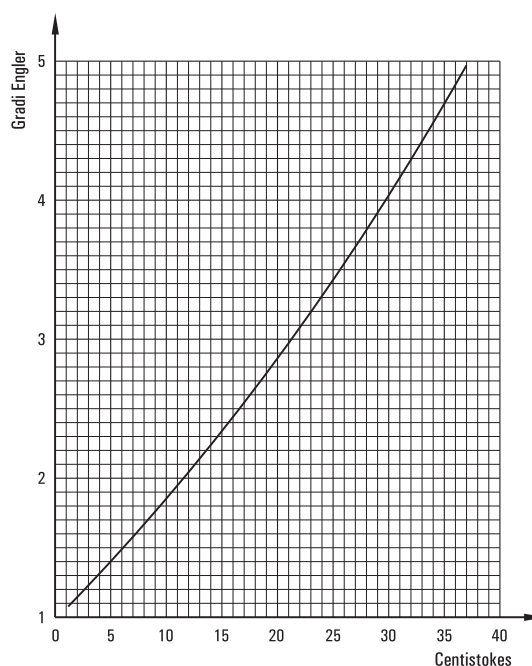
equivalenze

$$°F = (1.8 \cdot °C) + 32$$

$$°C = (°F - 32) \cdot 0.55$$

$$°K = °C + 273.15$$

VISCOSITÀ



UNITÀ DI PRESSIONE

Esempio di utilizzo della tabella: volendo convertire 25 bar in kPa, il coefficiente necessario si trova all'incrocio tra la riga "bar" e la colonna "kPa". Moltiplicare dunque 25 bar per 100 e il risultato è 2500 kPa.

da \ a	Pa	kPa	MPa	bar	mbar	kg/cm ²	mm Hg	psi
Pa	1	0.001	10 ⁻⁶	10 ⁻⁵	0.01	10.1972·10 ⁻⁶	0.00750062	0.000145038
kPa	1000	1	0.001	0.01	10	0.0101972	7.50062	0.145038
MPa	10 ⁶	1000	1	10	10000	10.1972	7500.62	145.038
bar	10 ⁵	100	0.1	1	1000	1.01972	750.062	14.5038
mbar	100	0.1	0.0001	0.001	1	0.00101972	0.750062	0.0145038
kg/cm ²	98066.5	98.0665	0.0980665	0.980665	980.665	1	735.559	14.2233
mm Hg	133.322	0.133322	133.322·10 ⁻⁶	133.322·10 ⁻⁵	1.33322	0.00135951	1	0.0193368
psi	6894.76	6.89476	0.00689476	0.0689476	68.9476	0.070307	51.7149	1

UNITÀ DI PORTATA

Esempio di utilizzo della tabella: volendo convertire 410 l/s in l/h, il coefficiente necessario si trova all'incrocio tra la riga "l/s" e la colonna "l/h". Moltiplicare dunque 410 l/s per 0.2777·10⁻³ (che equivale a 0.0002777) e il risultato è 0.113857 l/h.

da \ a	m ³ /s	l/s	cm ³ /s	m ³ /h	m ³ /min	l/h	l/min
m ³ /s	1	1000	10 ⁶	0.2777·10 ⁻³	16.666·10 ⁻³	0.2777	16.666
l/s	0.001	1	1000	0.2777·10 ⁻⁶	16.666·10 ⁻⁶	0.2777·10 ⁻³	16.666·10 ⁻³
cm ³ /s	10 ⁻⁶	0.001	1	0.2777·10 ⁻⁹	16.666·10 ⁻⁹	0.2777·10 ⁻⁶	16.666·10 ⁻⁶
m ³ /h	3600	3.6·10 ⁶	3.6·10 ⁹	1	60	1000	60000
m ³ /min	60	60000	60·10 ⁶	16.666·10 ⁻³	1	16.666	1000
l/h	3.6	3600	3.6·10 ⁶	0.001	0.06	1	60
l/min	0.06	60	60000	16.666·10 ⁻⁶	0.001	16.666·10 ⁻³	1

GRADI DI PROTEZIONE ELETTRICA

Il codice "IP" che compare tra i dati tecnici dei componenti elettrici ed elettronici indica il grado e il tipo di protezione elettrica secondo la tabella seguente. Il primo numero del codice "IP" indica il grado di protezione contro il contatto e la penetrazione di corpi estranei solidi. Il secondo numero indica il grado di protezione contro la penetrazione dell'acqua.

		Descrizione	Protezione contro l'acqua								
			0	1	2	3	4	5	6	7	8
			Nessuna protezione	Protezione contro gocce d'acqua con direzione perpendicolare	Protezione contro gocce d'acqua con inclinazione massima di 15°	Protezione contro gocce d'acqua con inclinazione massima di 60°	Protezione contro spruzzi d'acqua da qualsiasi direzione	Protezione contro getti intensi d'acqua da qualsiasi direzione	Protezione contro ondate d'acqua	Protezione contro l'immersione temporanea	Protezione contro l'immersione permanente
Protezione delle persone e delle attrezzature contro i corpi estranei	0	Nessuna protezione	IP 00								
	1	Protezione contro i corpi estranei solidi più grandi di 50 mm	IP 10	IP 11	IP 12						
	2	Protezione contro i corpi estranei solidi più grandi di 12 mm	IP 20	IP 21	IP 22	IP 23					
	3	Protezione contro i corpi estranei solidi più grandi di 2.5 mm	IP 30	IP 31	IP 32	IP 33					
	4	Protezione contro i corpi estranei solidi più grandi di 1 mm	IP 40	IP 41	IP 42	IP 43	IP 44				
	5	Protezione contro la polvere	IP 50	IP 51	IP 52	IP 53	IP 54	IP 55	IP 56	IP 57	
	6	Protezione totale contro la polvere	IP 60	IP 61	IP 62	IP 63	IP 64	IP 65	IP 66	IP 67	IP 68



Locali secchi:
materiale ammesso per ogni caratteristica IP



Locali umidi:
materiale ammesso a partire da IP 11



Locali bagnati:
materiale ammesso a partire da IP 23



FORZA SVILUPPATA DA UN CILINDRO

In relazione all'alesaggio e alla pressione di lavoro, un cilindro pneumatico sviluppa una forza che può essere utilizzata per compiere un lavoro. La forza sviluppata nella fase di spinta è superiore a quella sviluppata nella fase di trazione, poiché nel primo caso agisce l'intera superficie del pistone, mentre nel secondo agisce la superficie del pistone meno quella dello stelo. Nel caso di un cilindro con stelo passante, le due forze sono identiche e hanno valore pari a quello della forza sviluppata in trazione da un cilindro normale di pari alesaggio.

La formula per calcolare la forza nella fase di spinta è la seguente:

$$F_s = \frac{\pi \cdot D^2}{4} \cdot p \cdot \eta$$

ove:

F_s è la forza sviluppata dal cilindro in spinta espressa in daN;

D è l'alesaggio del cilindro espresso in centimetri;

p è la pressione espressa in bar;

η è il coefficiente di rendimento (posto uguale a 0.9).

La formula per calcolare la forza nella fase di trazione è la seguente:

$$F_T = \frac{(D^2 - d^2) \cdot \pi}{4} \cdot p \cdot \eta$$

ove:

F_T è la forza sviluppata dal cilindro in trazione espressa in daN;

D è l'alesaggio del cilindro espresso in centimetri;

d è il diametro dello stelo espresso in centimetri;

p è la pressione espressa in bar;

η è il coefficiente di rendimento (posto uguale a 0.9).

alesaggio cilindro [mm]	diametro stelo [mm]	moto	area utile [cm ²]	forza in spinta e trazione in daN in funzione della pressione di esercizio in bar, a 20°C, con rendimento 0.9									
				1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar
12	6	spinta	1.13	1.017	2.035	3.053	4.071	5.089	6.107	7.124	8.142	9.160	10.178
		trazione	1.00	0.763	1.526	2.290	3.053	3.816	4.580	5.343	6.107	6.870	7.633
16	6	spinta	2.01	1.809	3.619	5.428	7.238	9.047	10.857	12.666	14.476	16.285	18.095
		trazione	1.73	1.555	3.110	4.665	6.220	7.775	9.330	10.885	12.440	13.995	15.550
20	8	spinta	3.14	2.827	5.654	8.482	11.309	14.136	16.964	19.791	22.618	25.446	28.273
		trazione	2.64	2.374	4.749	7.124	9.499	11.874	14.249	16.624	18.999	21.374	23.749
25	12	spinta	4.91	4.417	8.835	13.253	17.670	22.088	26.506	30.924	35.341	39.759	44.177
		trazione	3.78	3.399	6.799	10.199	13.599	16.999	20.399	23.799	27.199	30.598	33.998
32	12	spinta	8.04	7.238	14.476	21.714	28.952	36.190	43.428	50.666	57.904	65.142	72.380
		trazione	6.91	6.220	12.440	18.660	24.880	31.100	37.321	43.541	49.761	55.981	62.201
40	16	spinta	12.56	11.309	22.618	33.928	45.237	56.547	67.856	79.165	90.475	101.78	113.09
		trazione	10.55	9.499	18.999	28.499	37.999	47.499	56.999	66.499	75.999	85.499	94.998
50	20	spinta	19.63	17.670	35.341	53.012	70.683	88.354	106.02	123.69	141.36	159.03	176.70
		trazione	16.49	14.843	29.687	44.530	59.374	74.217	89.061	103.90	118.74	133.59	148.43
63	20	spinta	31.16	28.054	56.108	84.163	112.21	140.27	168.32	196.38	224.43	252.49	280.54
		trazione	28.02	25.227	50.454	75.681	100.90	126.13	151.36	176.58	201.81	227.04	252.27
80	25	spinta	50.24	45.237	90.475	135.71	180.95	226.18	271.42	316.66	361.90	407.13	452.37
		trazione	45.36	40.819	81.639	122.45	163.27	204.09	244.91	285.73	326.55	367.37	408.19
100	25	spinta	78.54	70.683	141.36	212.05	282.73	353.41	424.10	494.78	565.47	636.15	706.83
		trazione	70.50	66.266	132.53	198.79	265.06	331.33	397.59	463.86	530.12	596.39	662.66
125	32	spinta	122.66	110.44	220.88	331.33	441.77	552.21	662.66	773.10	883.54	993.99	1104.4
		trazione	114.67	103.20	206.41	309.61	412.82	516.02	619.23	722.43	825.64	928.84	1032.0
160	40	spinta	201.06	180.95	361.90	542.85	723.80	904.75	1085.7	1266.6	1447.6	1628.5	1809.5
		trazione	188.49	169.64	339.28	508.92	678.56	848.20	1017.8	1187.4	1357.1	1526.7	1696.4
200	40	spinta	314.15	282.73	565.47	848.20	1130.9	1413.6	1696.4	1979.1	2261.8	2544.6	2827.3
		trazione	301.59	271.42	542.85	814.27	1085.7	1357.1	1628.5	1899.9	2171.4	2442.8	2714.2

RESISTENZA DI UN CILINDRO AL CARICO DI PUNTA

Un cilindro avente una corsa la cui lunghezza supera di dieci volte il diametro dello stelo, ad esempio nel caso di un cilindro avente alesaggio 50 e corsa 500 (diametro stelo 20), quando viene sollecitato da una forza di compressione agente sull'estremità dello stelo (tale forza è detta "carico di punta") è sottoposto a una sollecitazione composta di presso-flessione che potrebbe provocare la rottura dello stelo. È dunque necessario verificare se il cilindro può applicare la forza richiesta in condizioni di sicurezza, in relazione alle sue dimensioni e alla modalità di installazione.

La resistenza del cilindro al carico di punta si calcola con la formula seguente, in relazione al diametro dello stelo e alla corsa del cilindro:

$$F = \frac{\pi^2 \cdot E \cdot M}{Q \cdot S^2}$$

ove:

E è il modulo di elasticità dell'acciaio, pari a 21000 kg/mm², ossia 205939 N/mm²;

M è il momento di inerzia dello stelo (espresso in mm⁴), uguale a $M = \frac{\pi \cdot d^4}{64}$ (ove **d** è il diametro dello stelo espresso in millimetri);

S è la corsa del cilindro, espressa in millimetri;

Q è il coefficiente di sicurezza, posto uguale a 5;

F è la resistenza al carico di punta, ossia la massima forza sviluppabile dal cilindro in condizioni di sicurezza (il valore è espresso in N).

Sostituendo i valori nella formula ed eseguendo i calcoli, si può semplificare in questo modo:

$$F = \frac{160.85 \cdot \pi^3 \cdot d^4}{S^2}$$

Variando la modalità di installazione del cilindro, la sua resistenza al carico di punta, e dunque la forza massima che può esercitare in condizioni di sicurezza, varia a seconda di coefficienti prestabiliti, secondo lo schema seguente:

a) cilindro fissato con un ancoraggio rigido (piedini) e stelo agente direttamente (senza ancoraggio) su un pezzo mobile lungo un piano: coefficiente = 0.55

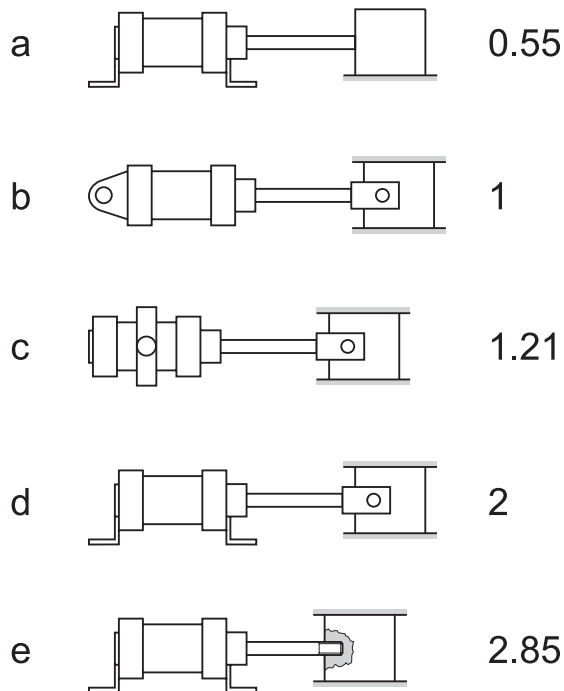
b) cilindro fissato con una cerniera posteriore snodata e stelo ancorato a un pezzo mobile e guidato: coefficiente = 1

c) cilindro fissato con una cerniera intermedia snodata e stelo ancorato a un pezzo mobile e guidato: coefficiente = 1.21

d) cilindro fissato con un ancoraggio rigido (piedini) e stelo ancorato a un pezzo mobile e guidato: coefficiente = 2

e) cilindro fissato con un ancoraggio rigido (piedini) e stelo avvitato e bloccato in un pezzo mobile e guidato: coefficiente = 2.85

È pertanto necessario moltiplicare il valore **F** per detti coefficienti. Ad esempio, un cilindro di corsa 1000 avente diametro dello stelo 40 mm può esercitare in condizioni di sicurezza una forza massima di 12767 N se lo si fissa con una cerniera posteriore snodata e si ancora lo stelo a un pezzo mobile e guidato (figura **b**; coefficiente = 1); se invece lo si fissa con i piedini ma lo stelo agisce senza ancoraggio su un pezzo che si muove su un piano senza una guida (figura **a**), il valore ottenuto dalla formula va moltiplicato per 0.55, ottenendo dunque una forza massima di 7021 N.



È possibile ricavare la formula inversa, da utilizzarsi per il calcolo della corsa massima in relazione al diametro dello stelo e alla forza richiesta. Il valore della forza **F** da inserire nella formula si ottiene dividendo il valore della forza richiesta per il coefficiente corrispondente alla modalità di installazione. Ad esempio, se si richiede una forza di 1000 N a un cilindro avente diametro dello stelo 12 mm e installato secondo la figura c, nella formula occorre inserire una forza di $1000/1.21 = 826.44$ N. Eseguendo i calcoli si ottiene che in questa situazione il cilindro per resistere a un carico di 1000 N può avere una corsa massima di 353 mm. Se fosse montato ad esempio secondo lo schema b, detto cilindro per esercitare la stessa forza non potrebbe avere una corsa più lunga di 321 mm.

$$S = \pi d^2 \sqrt{\frac{160.85 \cdot \pi}{F}}$$

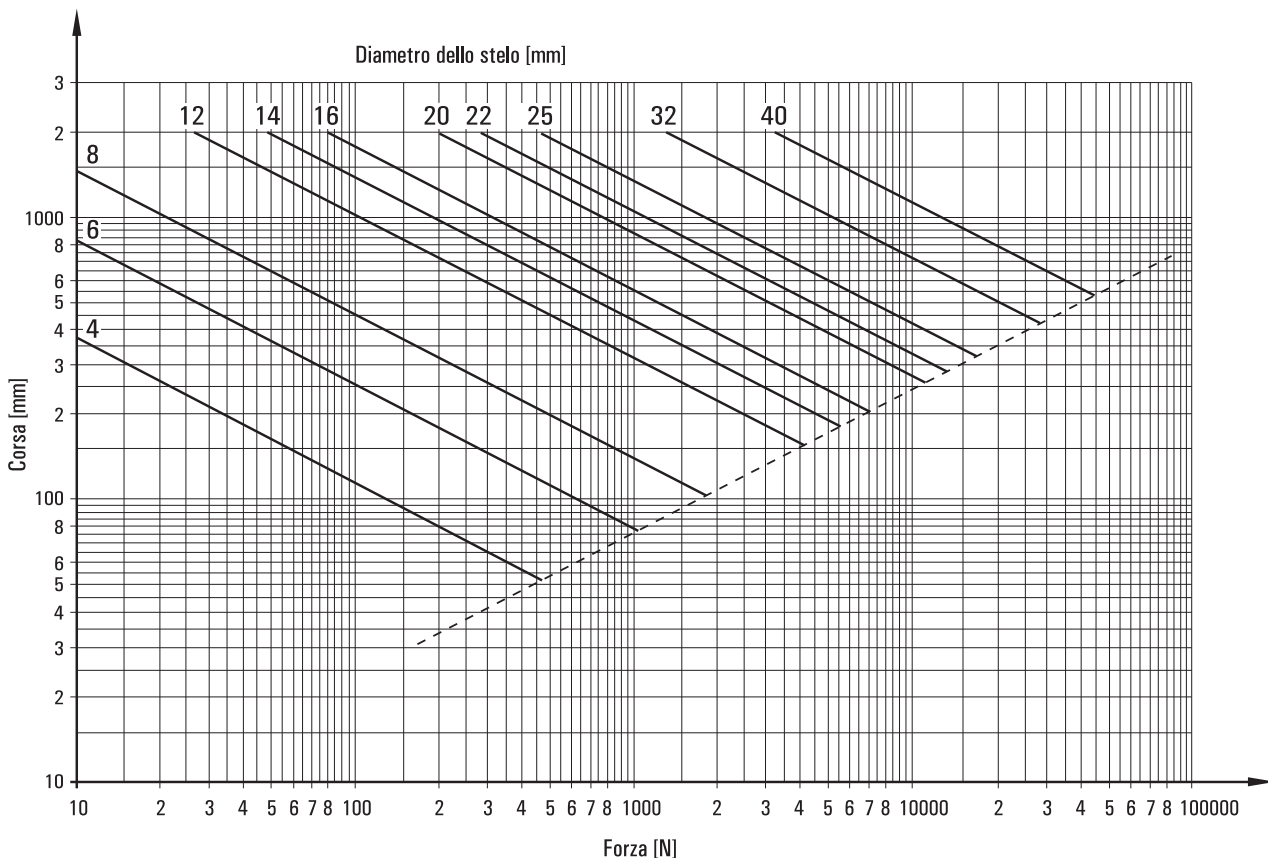
La formula per ricavare il diametro dello stelo (e per conseguenza l'alesaggio del cilindro) in relazione alla forza da applicare e alla corsa utile è invece la seguente:

$$d = \sqrt[4]{\frac{S^2 \cdot F}{160.85 \cdot \pi^3}}$$

Il valore della forza **F** da inserire nella formula si ottiene dividendo il valore della forza richiesta per il coefficiente corrispondente alla modalità di installazione. Ad esempio, se si richiede una forza di 1000 N a un cilindro installato secondo la figura a, nella formula occorre inserire una forza di $1000/0.55 = 1818$ N.

I calcoli che abbiamo effettuato con queste formule possono essere eseguiti graficamente. Il grafico seguente è stato realizzato per un cilindro montato secondo lo schema b.

Esempio di lettura: dato un cilindro avente diametro dello stelo 25 mm e corsa 1000 calcolare la resistenza al carico di punta. Si traccia a partire dalla colonna di sinistra (corsa), in corrispondenza al valore 1000, una linea orizzontale fino ad incontrare la linea obliqua corrispondente al diametro dello stelo 25 mm. Da questo punto di intersezione si traccia una linea verticale, che taglia l'asse delle forze nelle vicinanze del valore 2000 N. Infatti, la formula dà il valore di 1948 N.





CONSUMO D'ARIA DI UN CILINDRO

Nel suo movimento il cilindro consuma una quantità d'aria **Q** direttamente proporzionale alla pressione di lavoro, alla corsa e al quadrato dell'alesaggio. La formula seguente fornisce il valore del consumo d'aria (in normal-litri) nella fase di spinta, durante la quale agisce l'intera superficie del pistone.

$$Q = \frac{\pi}{4} d^2 \cdot S \cdot (p+1) \cdot 10^{-6}$$

d è l'alesaggio del cilindro espresso in millimetri;

S è la corsa del cilindro (espressa in millimetri) per la quale si intende calcolare il consumo d'aria;

p è la pressione di lavoro (espressa in bar).

Durante fase di trazione, la superficie agente è la superficie del pistone meno l'area occupata dallo stelo. La formula per il calcolo del consumo d'aria durante la fase di trazione è la seguente:

$$Q = \frac{\pi}{4} (D+d)(D-d) \cdot S \cdot (p+1) \cdot 10^{-6}$$

D è l'alesaggio del cilindro espresso in millimetri;

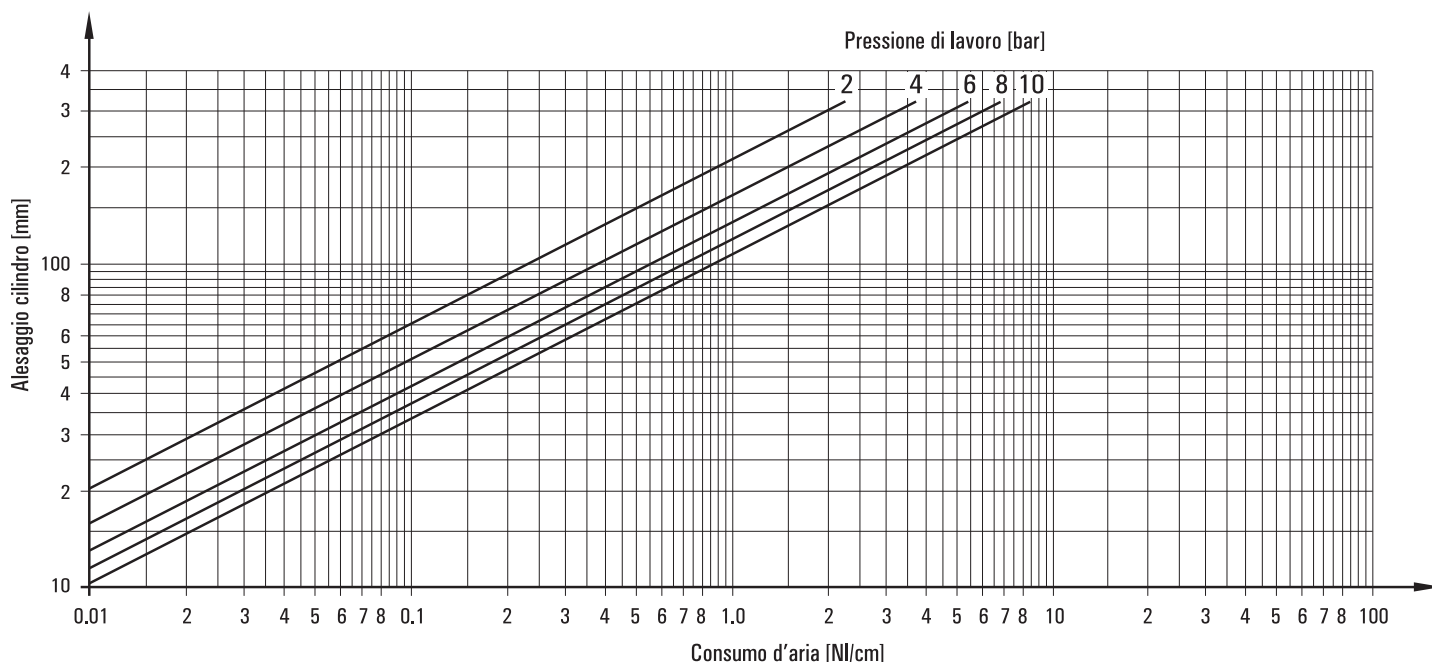
d è il diametro dello stelo espresso in millimetri;

S è la corsa del cilindro (espressa in millimetri) per la quale si intende calcolare il consumo d'aria;

p è la pressione di lavoro (espressa in bar).

È possibile calcolare il consumo d'aria anche mediante il grafico riportato in questa pagina o con la tabella riportata nella pagina seguente. Il grafico si riferisce alla fase di spinta ed esprime il valore in litri per centimetro di corsa (ciò equivale a porre nella formula la variabile **S** uguale a 10 mm).

Esempio di lettura: dato un cilindro avente alesaggio 100 mm operante a una pressione di 6 bar, calcolare il consumo d'aria per una corsa di 400 mm. Si traccia a partire dalla colonna di sinistra (alesaggio), in corrispondenza al valore 100, una linea orizzontale fino ad incontrare la linea obliqua corrispondente alla pressione 6 bar. Da questo punto di intersezione si traccia una linea verticale, che taglia l'asse dei consumi nelle vicinanze del valore 0.55 NI/cm. Moltiplicando questo valore per 40, si ottiene un consumo totale di 22 normal-litri. Eseguendo i calcoli con la formula si ottiene infatti un consumo totale di 21.99 normal-litri.

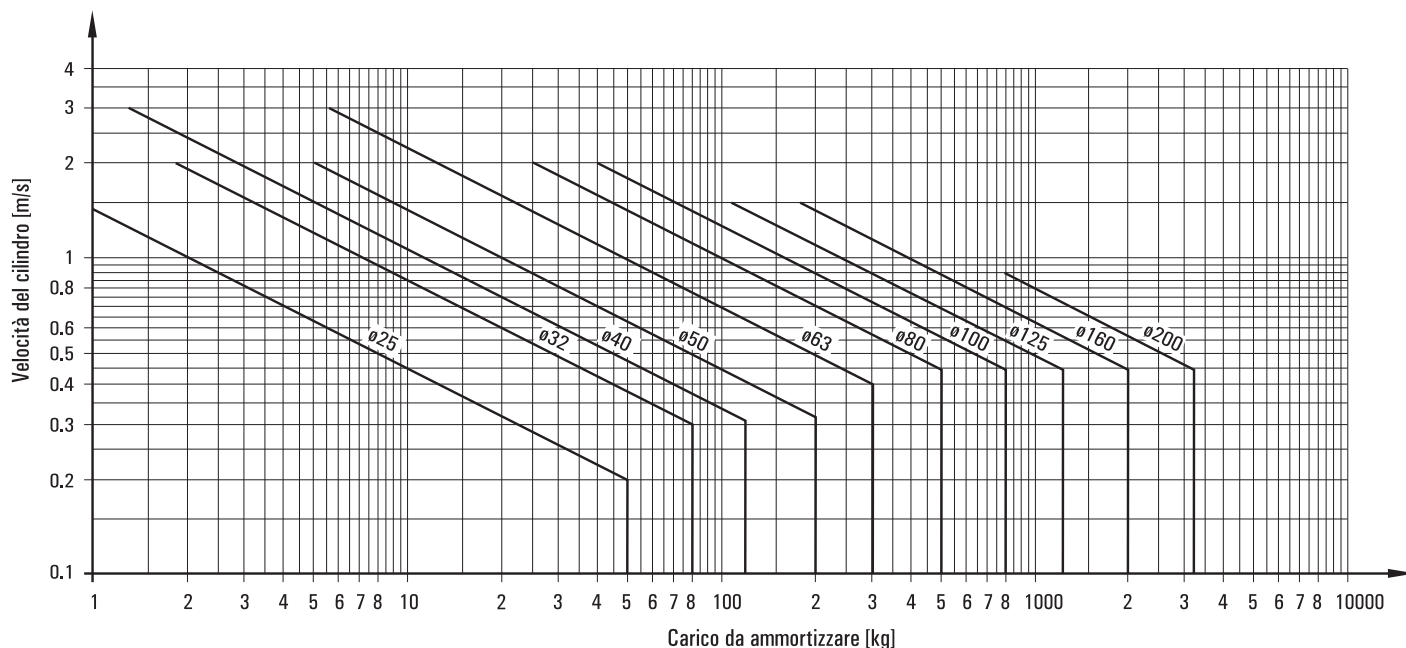




alesaggio cilindro [mm]	diametro stelo [mm]	moto	area utile [cm ²]	consumo d'aria in spinta e in trazione in NI/cm di corsa, in funzione della pressione di esercizio (bar), a 20°C									
				1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar
12	6	spinta	1.13	0.0023	0.0034	0.0045	0.0057	0.0068	0.0079	0.0090	0.0102	0.0113	0.0124
		trazione	1.00	0.0016	0.0025	0.0033	0.0042	0.0050	0.0059	0.0067	0.0076	0.0084	0.0093
16	6	spinta	2.01	0.0040	0.0060	0.0080	0.0100	0.0121	0.0141	0.0161	0.0181	0.0202	0.0221
		trazione	1.73	0.0034	0.0051	0.0069	0.0086	0.0103	0.0121	0.0138	0.0155	0.0173	0.0190
20	8	spinta	3.14	0.0063	0.0094	0.0126	0.0157	0.0188	0.0220	0.0251	0.0283	0.0314	0.0346
		trazione	2.64	0.0053	0.0079	0.0105	0.0132	0.0158	0.0185	0.0211	0.0237	0.0264	0.0290
25	12	spinta	4.91	0.0098	0.0147	0.0196	0.0245	0.0295	0.0344	0.0393	0.0442	0.0491	0.0540
		trazione	3.78	0.0076	0.0113	0.0151	0.0189	0.0227	0.0264	0.0302	0.0339	0.0378	0.0415
32	12	spinta	8.04	0.0160	0.0241	0.0321	0.0402	0.0482	0.0562	0.0643	0.0723	0.0804	0.0884
		trazione	6.91	0.0138	0.0207	0.0276	0.0345	0.0414	0.0483	0.0552	0.0622	0.0691	0.0760
40	16	spinta	12.56	0.0251	0.0376	0.0502	0.0628	0.0753	0.0879	0.1005	0.1130	0.1256	0.1382
		trazione	10.55	0.0211	0.0316	0.0422	0.0527	0.0633	0.0738	0.0844	0.0949	0.1055	0.1161
50	20	spinta	19.63	0.0392	0.0589	0.0785	0.0981	0.1178	0.1374	0.1570	0.1767	0.1963	0.2159
		trazione	16.49	0.0329	0.0494	0.0659	0.0824	0.0989	0.1154	0.1319	0.1484	0.1649	0.1814
63	20	spinta	31.16	0.0623	0.0935	0.1246	0.1558	0.1870	0.2182	0.2493	0.2805	0.3117	0.3428
		trazione	28.02	0.0560	0.0840	0.1121	0.1401	0.1681	0.1962	0.2242	0.2522	0.2803	0.3083
80	25	spinta	50.24	0.1005	0.1507	0.2010	0.2513	0.3015	0.3518	0.4021	0.4523	0.5026	0.5529
		trazione	45.36	0.0907	0.1360	0.1814	0.2267	0.2721	0.3174	0.3628	0.4081	0.4535	0.4989
100	25	spinta	78.54	0.1570	0.2356	0.3141	0.3926	0.4712	0.5497	0.6282	0.7068	0.7853	0.8639
		trazione	70.50	0.1472	0.2208	0.2945	0.3681	0.4417	0.5154	0.5890	0.6626	0.7362	0.8099
125	32	spinta	122.66	0.2454	0.3681	0.4908	0.6135	0.7362	0.8590	0.9817	1.1044	1.2271	1.3498
		trazione	114.67	0.2293	0.3440	0.4586	0.5733	0.6880	0.8027	0.9173	1.0320	1.1467	1.2613
160	40	spinta	201.06	0.4021	0.6031	0.8042	1.0052	1.2063	1.4073	1.6084	1.8095	2.0105	2.2116
		trazione	188.49	0.3769	0.5654	0.7539	0.9424	1.1309	1.3194	1.5079	1.6964	1.8848	2.0733
200	40	spinta	314.15	0.6282	0.9424	1.2565	1.5707	1.8848	2.1990	2.5131	2.8273	3.1415	3.4556
		trazione	301.59	0.6031	0.9047	1.2063	1.5079	1.8095	2.1110	2.4126	2.7142	3.0158	3.3174

CARICO AMMORTIZZABILE

Affinché il cilindro raggiunga la posizione di fine corsa senza causare urti dannosi occorre ammortizzare l'energia cinetica della massa in movimento. Il valore massimo del carico ammortizzabile dipende dalla velocità di traslazione e dalle dimensioni del cilindro. Una stima di questi valori è facilmente ricavabile dal grafico seguente.



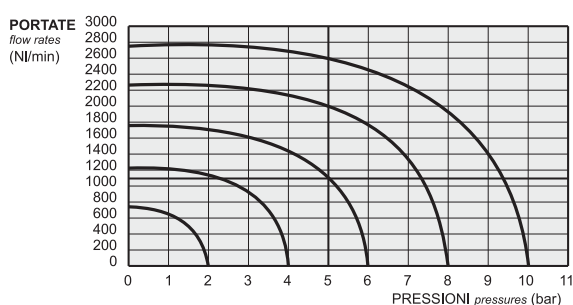
PORTATA DI UNA VALVOLA

La portata di una valvola, ossia la quantità di fluido che la attraversa nell'unità di tempo, si esprime in normal-litri al minuto [NI/min].

La portata dipende dalla caduta di pressione che si ha al passaggio del fluido attraverso la valvola. Per caduta di pressione Δp si intende la differenza tra la pressione esistente all'ingresso della valvola e la pressione in uscita. La portata aumenta al crescere del Δp fino a un livello massimo, raggiunto il quale rimane costante a parità di pressione in ingresso e non dipende più dal Δp . Si dice allora che la valvola lavora a "scarico libero" o in "regime sonico".

Si può dunque così definire la portata nominale di una valvola: è la portata misurata con pressione di entrata di 6 bar, temperatura ambiente di 20°C e caduta di pressione Δp di 1 bar.

Nel catalogo possiamo indicare il valore della portata nominale o esprimere con un grafico simile al seguente l'andamento della portata di un elemento pneumatico.



Esempio di lettura: volendo calcolare la portata di una valvola a 6 bar di pressione in ingresso e caduta di pressione 1 bar, tracciare una linea verticale a partire dal punto corrispondente a 5 bar di pressione (che equivale a sottrarre dal valore della pressione di ingresso quello della caduta di pressione) fino ad intersecare la curva uscente dal punto corrispondente alla pressione di ingresso 6 bar. Dall'intersezione tra la curva e la linea verticale tracciare una linea orizzontale che, intersecando l'asse delle portate, fornisce il valore richiesto.

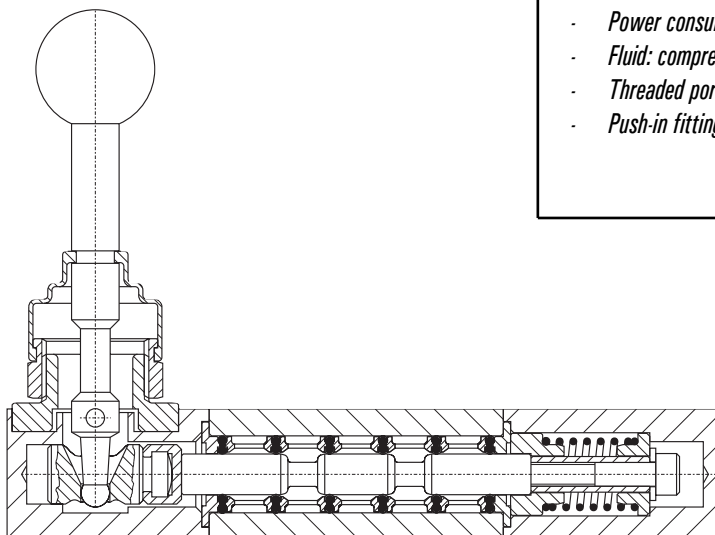
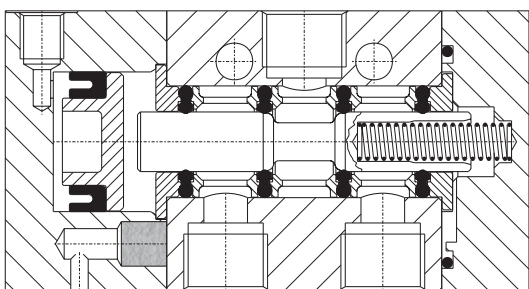
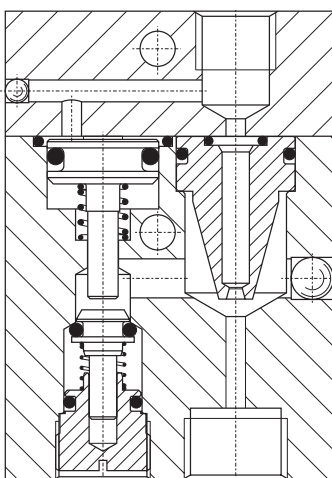
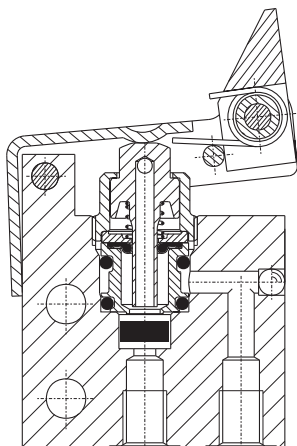
Un altro metodo per esprimere la portata della valvola è l'utilizzo del valore K_V , che si può calcolare a partire dalla portata nominale con la seguente

formula:
$$K_V = \frac{Q_N}{1100}$$

ove Q_N è la portata nominale espressa in NI/min.

Nel Nord America è in uso il "coefficiente di flusso" C_V , che si calcola con la seguente formula:
$$C_V = \frac{Q_N}{984}$$

Q_N [NI/min]	K_V	C_V	Q_N [NI/min]	K_V	C_V	Q_N [NI/min]	K_V	C_V
100	0.091	0.102	600	0.545	0.610	1300	1.182	1.321
120	0.109	0.122	650	0.591	0.660	1400	1.273	1.422
150	0.136	0.152	700	0.636	0.711	1500	1.364	1.524
180	0.163	0.183	750	0.682	0.762	1600	1.454	1.626
200	0.182	0.203	800	0.727	0.813	1700	1.545	1.727
250	0.227	0.254	850	0.773	0.864	1800	1.636	1.829
300	0.273	0.305	900	0.818	0.915	1900	1.727	1.931
350	0.318	0.356	950	0.864	0.965	2000	1.818	2.032
400	0.364	0.406	1000	0.909	1.016	2500	2.278	2.541
450	0.409	0.457	1100	1.000	1.118	3000	2.727	3.048
550	0.500	0.559	1200	1.091	1.219	4000	3.636	4.065



- Valvole standard in linea o su base (G1/8", G1/4", G1/2")
- Valvole a norma ISO 5599/1 taglia 1 e 2, VDMA e Namur
- Elementi integrati con funzione di controllo e regolazione (G1/8" e G1/4")
- Prodotti speciali, sviluppati con il cliente per soddisfare ogni esigenza applicativa

Note tecniche

- Materiali utilizzati: alluminio 11S, acciaio INOX, ottone OT58, gomma NBR
- Trattamenti superficiali: anodizzazione o nichelatura
- Sistemi di funzionamento: otturatore o spola bilanciata
- Vita in condizioni standard: 20 milioni di cicli
- Portate nominali: da 30 a 4500 NI/min
- Funzioni pneumatiche: 2/2; 3/2 NC-NA; 5/2; 5/3 CC-CA-CP
- Azionamenti: meccanico, manuale, pneumatico, elettrico, elettropneumatico
- Assorbimenti elettrici: 3W / 5VA con bobine lato 22 mm, 30 mm o 15 mm
- Fluido: aria compressa con o senza lubrificazione - vuoto
- Attacchi filettati: M5, G1/8", G1/4", G3/8", G1/2"
- Raccordi automatici: per tubo ø4, ø6, ø8

- *In-line or manifold mounted pneumatic valves (G1/8", G1/4", G1/2")*
- *ISO 5599/1 size 1 and 2, VDMA and Namur specifications*
- *Integrated elements with control and regulation functions (G1/8" and G1/4")*
- *Special valves and custom built products are available on request*

Technical notes

- *Materials: aluminium 11S, stainless steel, brass OT58; seals in NBR*
- *Surface treatment: anodize and nickel plating*
- *Operating system: balanced spool or poppet*
- *Life expectation in standard conditions: 20 millions cycles*
- *Nominal flow rates: 30 to 4500 NI/min*
- *Pneumatic functions: 2/2, 3/2 NC-NO; 5/2; 5/3 closed, open or pressurized centre position*
- *Actuation: mechanical, manual, pneumatic, solenoid*
- *Power consumption: 3W / 5VA with 22 mm, 30 mm or 15 mm coils*
- *Fluid: compressed air with or without lubrication - vacuum*
- *Threaded ports: M5, G1/8", G1/4", G3/8", G1/2"*
- *Push-in fittings: for ø4, ø6, ø8 tube*



	pagina page
• Microvalvole <i>Microvalves</i>	16
• Valvole ad azionamento meccanico <i>Mechanically actuated valves</i>	34
• Valvole ad azionamento manuale <i>Manually actuated valves</i>	42
• Attuatori da pannello <i>Actuators for panel mounting</i>	64
• Valvole a pedale <i>Pedal valves</i>	66
• Valvole 16 mm ad azionamento meccanico e manuale <i>Mechanically and manually actuated valves - 16 mm</i>	70
• Valvole ad azionamento pneumatico (G1/8", G1/4") <i>Pneumatically piloted valves (G1/8", G1/4")</i>	75
• Elettropiloti su base <i>Solenoid valves on manifold</i>	90
• Elettropiloti su basi modulari <i>Solenoid valves on multiple sub-bases</i>	93
• Bobine e connettori <i>Coils and connectors</i>	98
• Valvole ad azionamento elettropneumatico (G1/8", G1/4") <i>Solenoid actuated valves (G1/8", G1/4")</i>	103
• Sottobasi per valvole a spola <i>Manifolds for spool valves</i>	122
• Valvole ed elettrovalvole G1/2" <i>G1/2" valves and electrovalves</i>	129
• Valvole VDMA 18 mm ad azionamento pneumatico <i>Pneumatically piloted valves - VDMA 18 mm</i>	139
• Valvole VDMA 18 mm ad azionamento elettropneumatico <i>Solenoid actuated valves - VDMA 18 mm</i>	143
• Sottobasi per valvole VDMA 18 mm <i>Manifolds for 18 mm VDMA valves</i>	149
• Valvole 18 mm ad azionamento pneumatico <i>Pneumatically piloted valves - 18 mm</i>	154
• Valvole 18 mm ad azionamento elettropneumatico <i>Solenoid actuated valves - 18 mm</i>	160
• Sottobasi per valvole 18 mm <i>Manifolds for 18 mm spool valves</i>	168
• Valvole Namur <i>Namur valves</i>	174
• Valvole ISO 5599/1 taglia 1 <i>ISO 5599/1 valves - size 1</i>	179



	pagina <i>page</i>
• Sottobasi per valvole ISO 1 <i>Sub-bases and manifolds for ISO 1 valves</i>	186
• Valvole ISO 5599/1 taglia 2 <i>ISO 5599/1 valves - size 2</i>	192
• Sottobasi per valvole ISO 2 <i>Sub-bases and manifolds for ISO 2 valves</i>	196

microvalvole

microvalves



- Microvalvole a otturatore NC e NA
NC and NO poppet microvalves
- Installazione in qualsiasi posizione
Installation in any position
- Attacchi filettati M5 o raccordi automatici per tubo $\varnothing 4$
M5 threaded ports or push-in fittings for $\varnothing 4$ tube
- Bassa forza di azionamento
Low actuating force
- Versione con adattatore (foro $\varnothing 22$) per montaggio a pannello
Version with adaptor for panel mounting (with $\varnothing 22$ hole)
- Esecuzioni speciali a richiesta
Special versions on request



Materiali

Corpo: alluminio 11S

Molla: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Spring: stainless steel

Seals: NBR

Internal parts: brass OT58

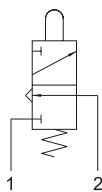
Diametro nominale <i>Nominal orifice</i>	2.5 mm
Portata nominale a 6 bar <i>Nominal flow rate at 6 bar</i>	100 NI/min
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Forza di azionamento <i>Actuating force</i>	6 N
Fluido <i>Fluid</i>	Aria filtrata 50 μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>



304 MA

3/2 NC raccordi automatici per tubo $\varnothing 4$ (sotto), pulsante

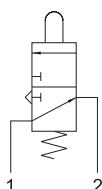
3/2 NC push-in fittings for $\varnothing 4$ tube (ports on the bottom), tappet



314 MA

3/2 NA raccordi automatici per tubo $\varnothing 4$ (sotto), pulsante

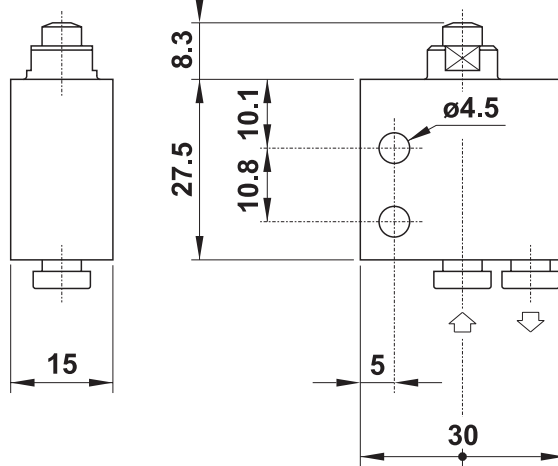
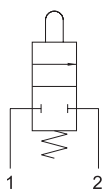
3/2 NO push-in fittings for $\varnothing 4$ tube (ports on the bottom), tappet



204 MA

2/2 NC raccordi automatici per tubo $\varnothing 4$ (sotto), pulsante

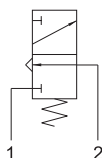
2/2 NC push-in fittings for $\varnothing 4$ tube (ports on the bottom), tappet



304 MB

3/2 NC raccordi automatici per tubo $\varnothing 4$ (sotto), interfaccia per attuatore da pannello

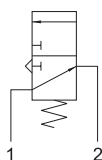
3/2 NC push-in fittings for $\varnothing 4$ tube (ports on the bottom), actuator adaptor for panel mounting



314 MB

3/2 NA raccordi automatici per tubo $\varnothing 4$ (sotto), interfaccia per attuatore da pannello

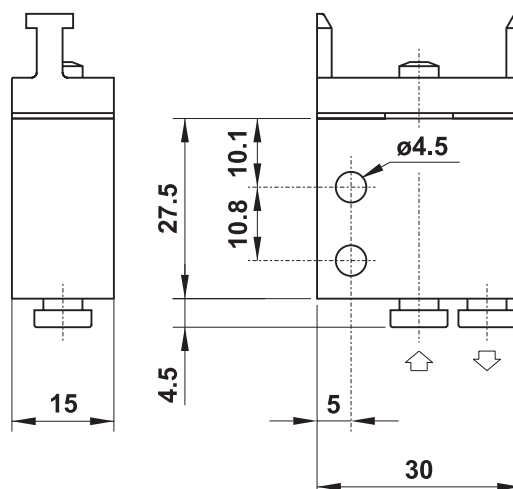
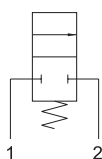
3/2 NO push-in fittings for $\varnothing 4$ tube (ports on the bottom), actuator adaptor for panel mounting



204 MB

2/2 NC raccordi automatici per tubo $\varnothing 4$ (sotto), interfaccia per attuatore da pannello

2/2 NC push-in fittings for $\varnothing 4$ tube (ports on the bottom), actuator adaptor for panel mounting



microvalvole

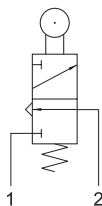
microvalves



304 MR

3/2 NC raccordi automatici per tubo $\varnothing 4$ (sotto),
leva rullo

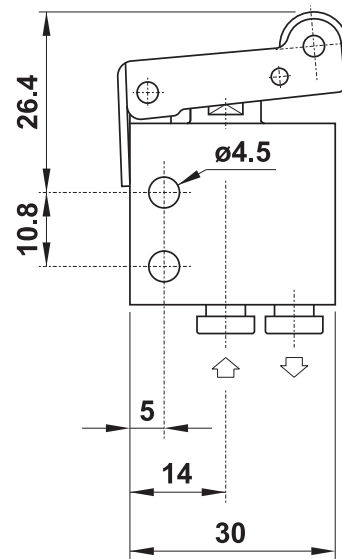
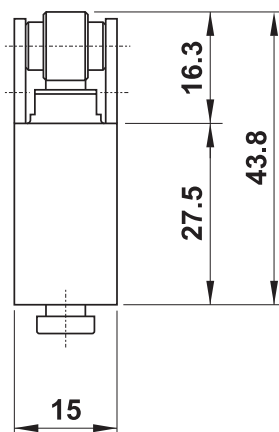
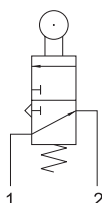
3/2 NC push-in fittings for $\varnothing 4$ tube (ports on the bottom),
roller lever



314 MR

3/2 NA raccordi automatici per tubo $\varnothing 4$ (sotto),
leva rullo

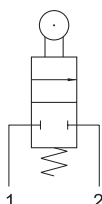
3/2 NO push-in fittings for $\varnothing 4$ tube (ports on the bottom),
roller lever



204 MR

2/2 NC raccordi automatici per tubo $\varnothing 4$ (sotto),
leva rullo

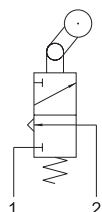
2/2 NC push-in fittings for $\varnothing 4$ tube (ports on the bottom),
roller lever



304 MS

3/2 NC raccordi automatici per tubo $\varnothing 4$ (sotto),
leva unidirezionale

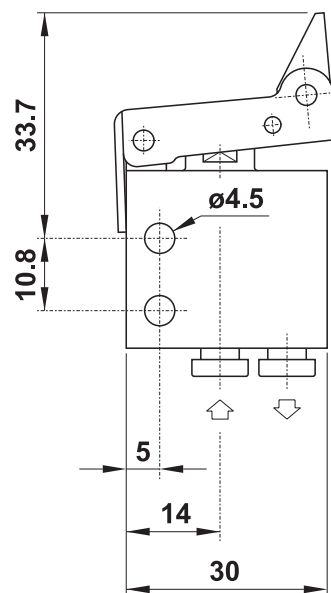
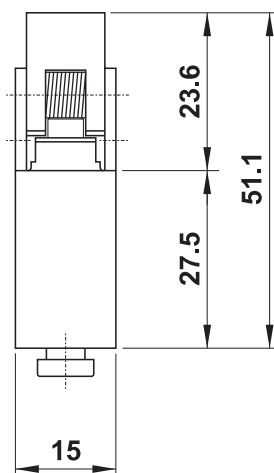
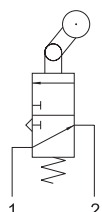
3/2 NC push-in fittings for $\varnothing 4$ tube (ports on the bottom),
uni-directional lever



314 MS

3/2 NA raccordi automatici per tubo $\varnothing 4$ (sotto),
leva unidirezionale

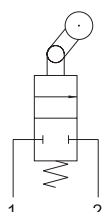
3/2 NO push-in fittings for $\varnothing 4$ tube (ports on the bottom),
uni-directional lever



204 MS

2/2 NC raccordi automatici per tubo $\varnothing 4$ (sotto),
leva unidirezionale

2/2 NC push-in fittings for $\varnothing 4$ tube (ports on the bottom),
uni-directional lever

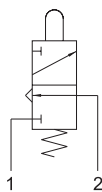




304 MV

3/2 NC raccordi automatici per tubo $\varnothing 4$ (sotto),
pulsante passa parete

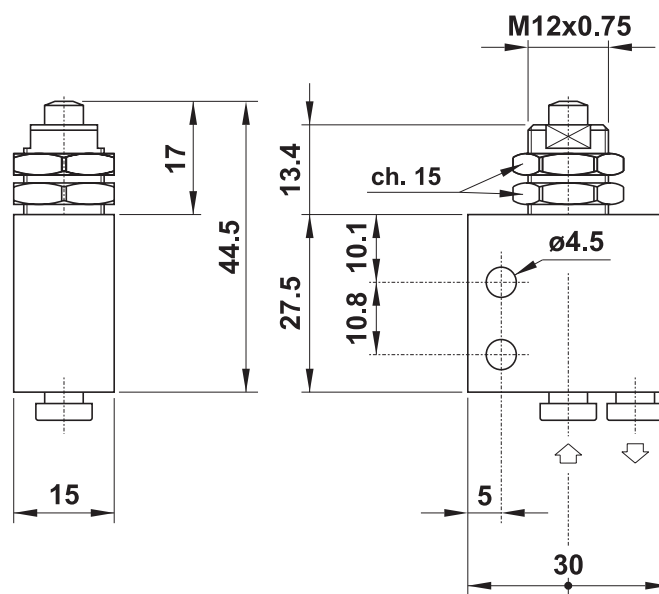
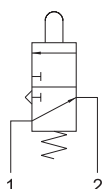
3/2 NC push-in fittings for $\varnothing 4$ tube (ports on the bottom),
panel mount tappet



314 MV

3/2 NA raccordi automatici per tubo $\varnothing 4$ (sotto),
pulsante passa parete

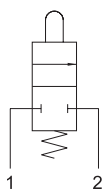
3/2 NO push-in fittings for $\varnothing 4$ tube (ports on the bottom),
panel mount tappet



204 MV

2/2 NC raccordi automatici per tubo $\varnothing 4$ (sotto),
pulsante passa parete

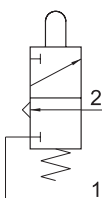
2/2 NC push-in fittings for $\varnothing 4$ tube (ports on the bottom),
panel mount tappet



304 MA UL

3/2 NC raccordi automatici per tubo $\varnothing 4$ (laterali),
pulsante

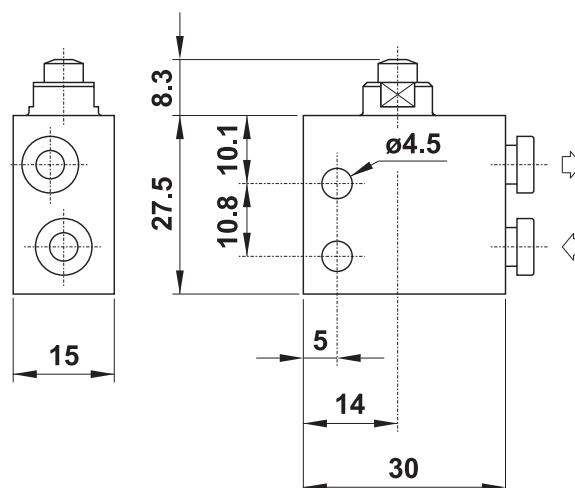
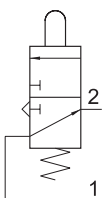
3/2 NC push-in fittings for $\varnothing 4$ tube (ports on the side),
tappet



314 MA UL

3/2 NA raccordi automatici per tubo $\varnothing 4$ (laterali),
pulsante

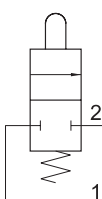
3/2 NO push-in fittings for $\varnothing 4$ tube (ports on the side),
tappet



204 MA UL

2/2 NC raccordi automatici per tubo $\varnothing 4$ (laterali),
pulsante

2/2 NC push-in fittings for $\varnothing 4$ tube (ports on the side),
tappet

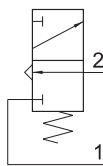




304 MB UL

3/2 NC raccordi automatici per tubo $\varnothing 4$ (laterali),
interfaccia per attuatore da pannello

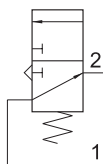
3/2 NC push-in fittings for $\varnothing 4$ tube (ports on the side),
actuator adaptor for panel mounting



314 MB UL

3/2 NA raccordi automatici per tubo $\varnothing 4$ (laterali),
interfaccia per attuatore da pannello

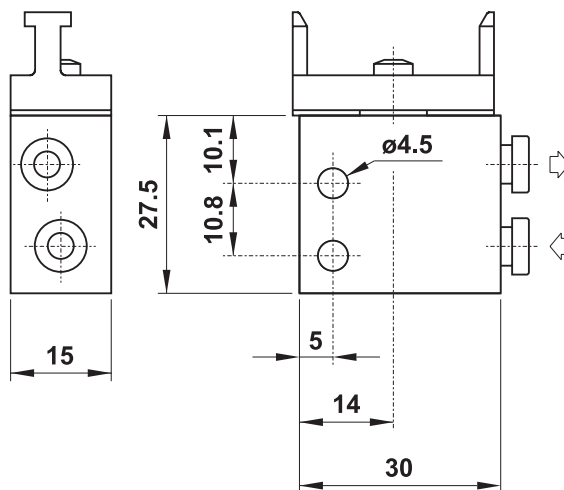
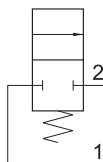
3/2 NO push-in fittings for $\varnothing 4$ tube (ports on the side),
actuator adaptor for panel mounting



204 MB UL

2/2 NC raccordi automatici per tubo $\varnothing 4$ (laterali),
interfaccia per attuatore da pannello

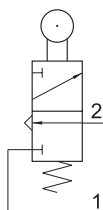
2/2 NC push-in fittings for $\varnothing 4$ tube (ports on the side),
actuator adaptor for panel mounting



304 MR UL

3/2 NC raccordi automatici per tubo $\varnothing 4$ (laterali),
leva rullo

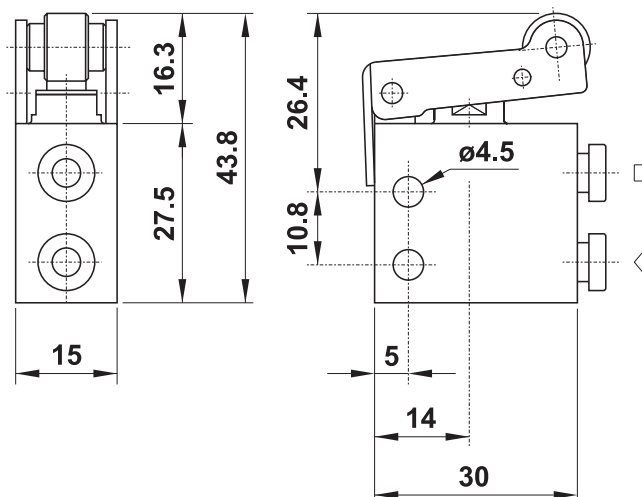
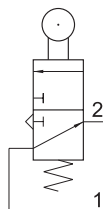
3/2 NC push-in fittings for $\varnothing 4$ tube (ports on the side),
roller lever



314 MR UL

3/2 NA raccordi automatici per tubo $\varnothing 4$ (laterali),
leva rullo

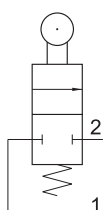
3/2 NO push-in fittings for $\varnothing 4$ tube (ports on the side),
roller lever



204 MR UL

2/2 NC raccordi automatici per tubo $\varnothing 4$ (laterali),
leva rullo

2/2 NC push-in fittings for $\varnothing 4$ tube (ports on the side),
roller lever



microvalvole

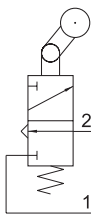
microvalves



304 MS UL

3/2 NC raccordi automatici per tubo $\varnothing 4$ (laterali),
leva unidirezionale

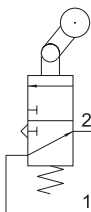
3/2 NC push-in fittings for $\varnothing 4$ tube (ports on the side),
uni-directional lever



314 MS UL

3/2 NA raccordi automatici per tubo $\varnothing 4$ (laterali),
leva unidirezionale

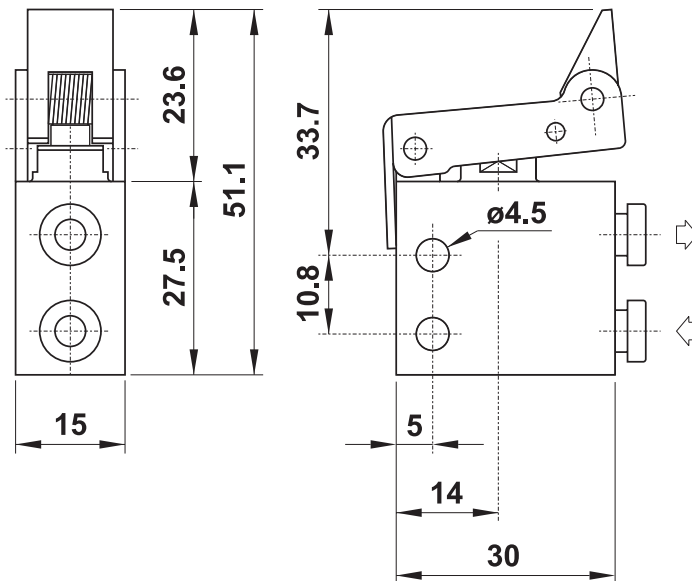
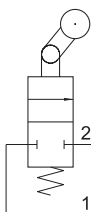
3/2 NO push-in fittings for $\varnothing 4$ tube (ports on the side),
uni-directional lever



204 MS UL

2/2 NC raccordi automatici per tubo $\varnothing 4$ (laterali),
leva unidirezionale

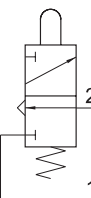
2/2 NC push-in fittings for $\varnothing 4$ tube (ports on the side),
uni-directional lever



304 MV UL

3/2 NC raccordi automatici per tubo $\varnothing 4$ (laterali),
pulsante passa parete

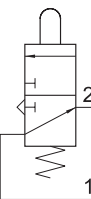
3/2 NC push-in fittings for $\varnothing 4$ tube (ports on the side),
panel mount tappet



314 MV UL

3/2 NA raccordi automatici per tubo $\varnothing 4$ (laterali),
pulsante passa parete

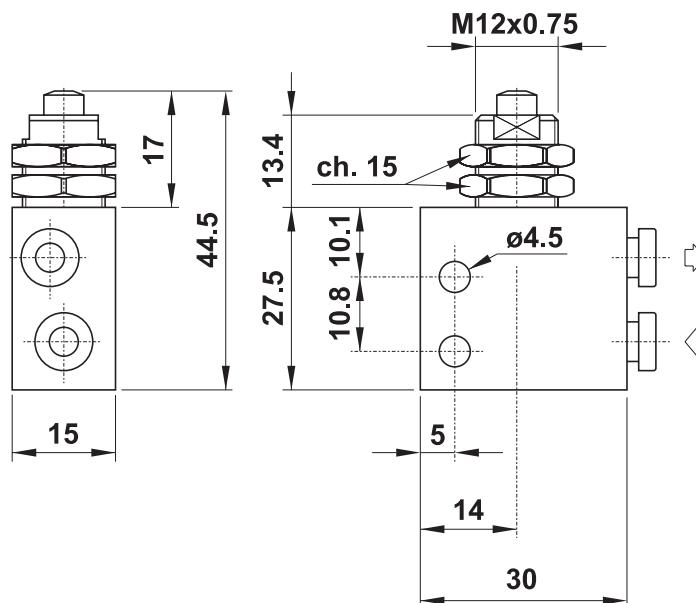
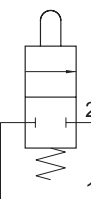
3/2 NO push-in fittings for $\varnothing 4$ tube (ports on the side),
panel mount tappet



204 MV UL

2/2 NC raccordi automatici per tubo $\varnothing 4$ (laterali),
pulsante passa parete

2/2 NC push-in fittings for $\varnothing 4$ tube (ports on the side),
panel mount tappet

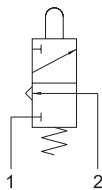




305 MA

3/2 NC attacchi filettati M5 (sotto),
pulsante

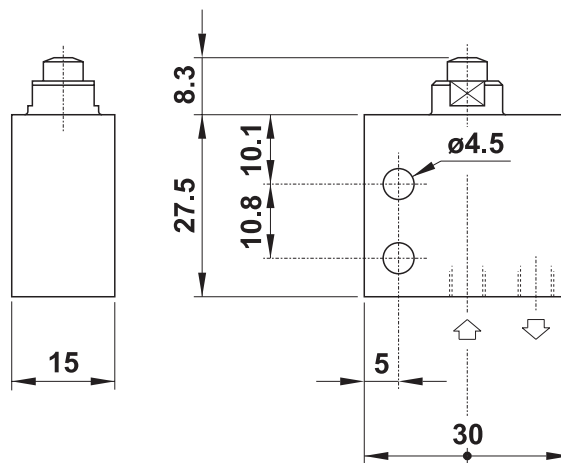
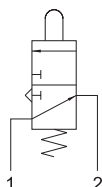
3/2 NC M5 threaded ports (on the bottom),
tappet



315 MA

3/2 NA attacchi filettati M5 (sotto),
pulsante

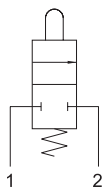
3/2 NO M5 threaded ports (on the bottom),
tappet



205 MA

2/2 NC attacchi filettati M5 (sotto),
pulsante

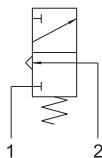
2/2 NC M5 threaded ports (on the bottom),
tappet



305 MB

3/2 NC attacchi filettati M5 (sotto),
interfaccia per attuatore da pannello

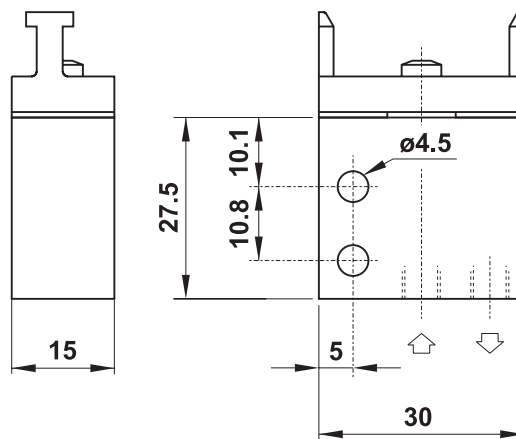
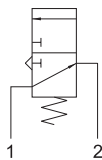
3/2 NC M5 threaded ports (on the bottom),
actuator adaptor for panel mounting



315 MB

3/2 NA attacchi filettati M5 (sotto),
interfaccia per attuatore da pannello

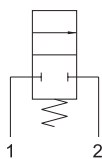
3/2 NO M5 threaded ports (on the bottom),
actuator adaptor for panel mounting



205 MB

2/2 NC attacchi filettati M5 (sotto),
interfaccia per attuatore da pannello

2/2 NC M5 threaded ports (on the bottom),
actuator adaptor for panel mounting

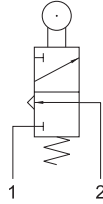




305 MR

3/2 NC attacchi filettati M5 (sotto),
leva rullo

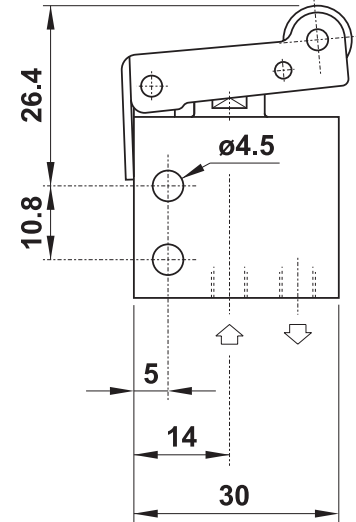
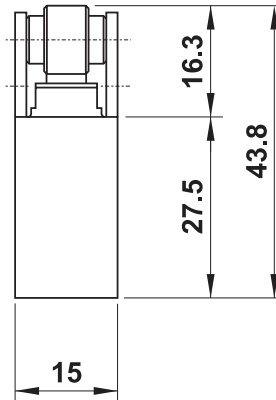
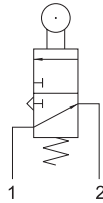
3/2 NC M5 threaded ports (on the bottom),
roller lever



315 MR

3/2 NA attacchi filettati M5 (sotto),
leva rullo

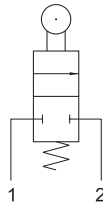
3/2 NO M5 threaded ports (on the bottom),
roller lever



205 MR

2/2 NC attacchi filettati M5 (sotto),
leva rullo

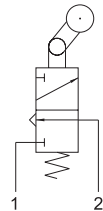
2/2 NC M5 threaded ports (on the bottom),
roller lever



305 MS

3/2 NC attacchi filettati M5 (sotto),
leva unidirezionale

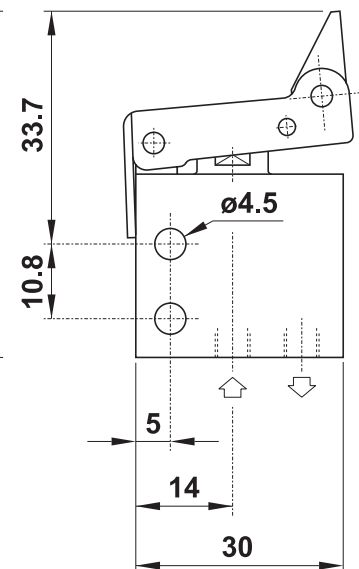
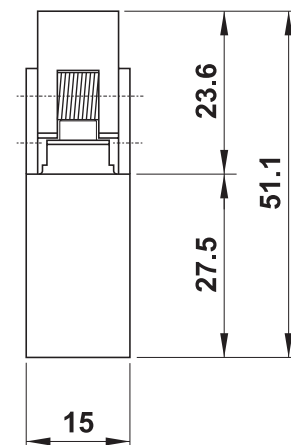
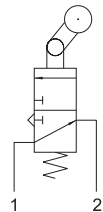
3/2 NC M5 threaded ports (on the bottom),
uni-directional lever



315 MS

3/2 NA attacchi filettati M5 (sotto),
leva unidirezionale

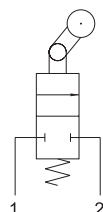
3/2 NO M5 threaded ports (on the bottom),
uni-directional lever



205 MS

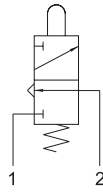
2/2 NC attacchi filettati M5 (sotto),
leva unidirezionale

2/2 NC M5 threaded ports (on the bottom),
uni-directional lever



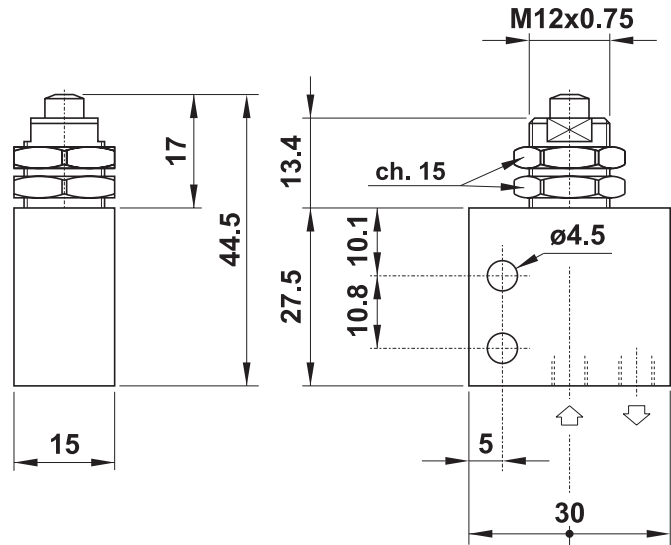
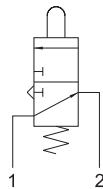
305 MV

3/2 NC attacchi filettati M5 (sotto),
pulsante passa parete
3/2 NC M5 threaded ports (on the bottom),
panel mount tappet



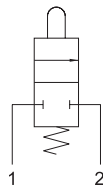
315 MV

3/2 NA attacchi filettati M5 (sotto),
pulsante passa parete
3/2 NO M5 threaded ports (on the bottom),
panel mount tappet



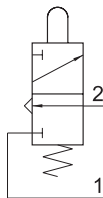
205 MV

2/2 NC attacchi filettati M5 (sotto),
pulsante passa parete
2/2 NC M5 threaded ports (on the bottom),
panel mount tappet



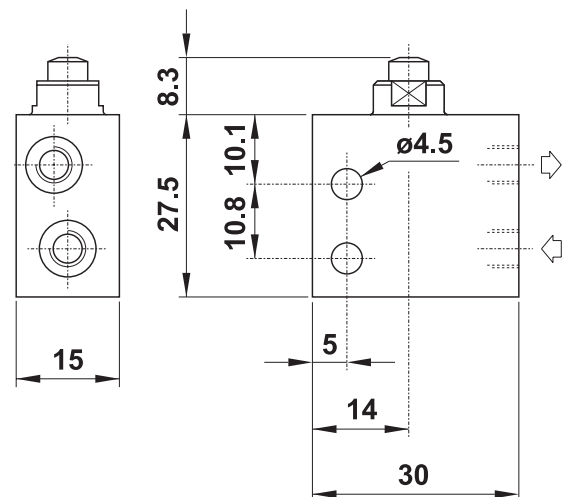
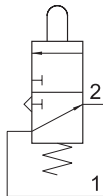
305 MA UL

3/2 NC attacchi filettati M5 (lateral),
pulsante
3/2 NC M5 threaded ports (on the side),
tappet



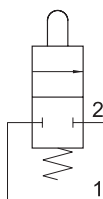
315 MA UL

3/2 NA attacchi filettati M5 (lateral),
pulsante
3/2 NO M5 threaded ports (on the side),
tappet



205 MA UL

2/2 NC attacchi filettati M5 (lateral),
pulsante
2/2 NC M5 threaded ports (on the side),
tappet

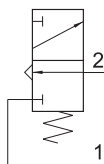




305 MB UL

3/2 NC attacchi filettati M5 (laterali),
interfaccia per attuatore da pannello

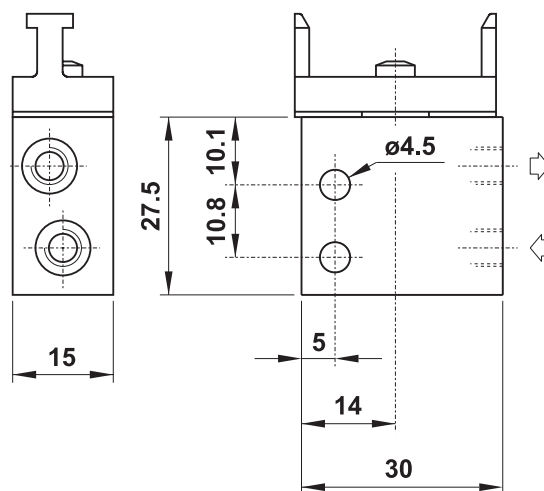
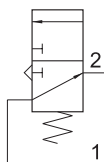
3/2 NC M5 threaded ports (on the side),
actuator adaptor for panel mounting



315 MB UL

3/2 NA attacchi filettati M5 (laterali),
interfaccia per attuatore da pannello

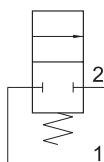
3/2 NO M5 threaded ports (on the side),
actuator adaptor for panel mounting



205 MB UL

2/2 NC attacchi filettati M5 (laterali),
interfaccia per attuatore da pannello

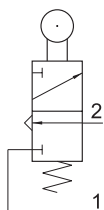
2/2 NC M5 threaded ports (on the side),
actuator adaptor for panel mounting



305 MR UL

3/2 NC attacchi filettati M5 (laterali),
leva rullo

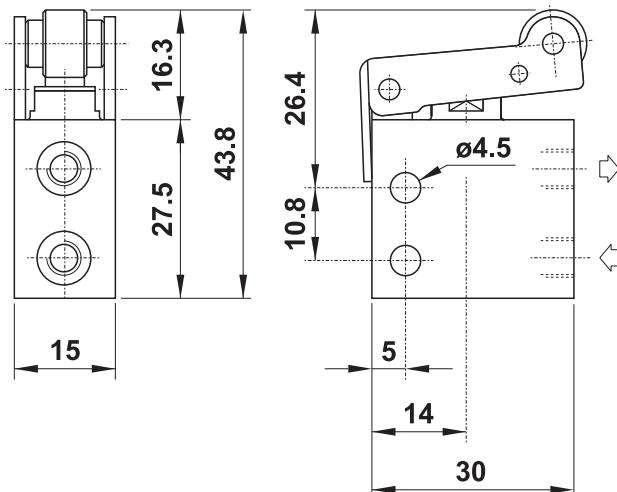
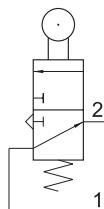
3/2 NC M5 threaded ports (on the side),
roller lever



315 MR UL

3/2 NA attacchi filettati M5 (laterali),
leva rullo

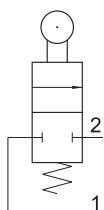
3/2 NO M5 threaded ports (on the side),
roller lever



205 MR UL

2/2 NC attacchi filettati M5 (laterali),
leva rullo

2/2 NC M5 threaded ports (on the side),
roller lever



microvalvole

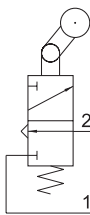
microvalves



305 MS UL

3/2 NC attacchi filettati M5 (laterali),
leva unidirezionale

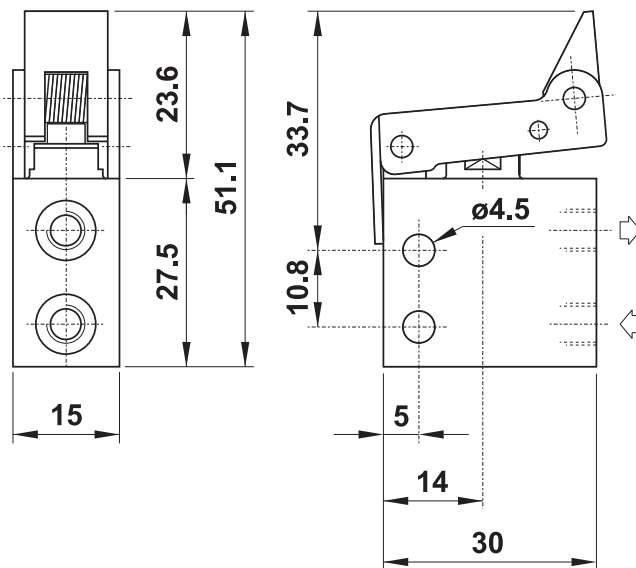
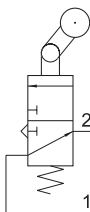
3/2 NC M5 threaded ports (on the side),
uni-directional lever



315 MS UL

3/2 NA attacchi filettati M5 (laterali),
leva unidirezionale

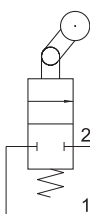
3/2 NO M5 threaded ports (on the side),
uni-directional lever



205 MS UL

2/2 NC attacchi filettati M5 (laterali),
leva unidirezionale

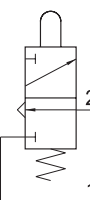
2/2 NC M5 threaded ports (on the side),
uni-directional lever



305 MV UL

3/2 NC attacchi filettati M5 (laterali),
pulsante passa parete

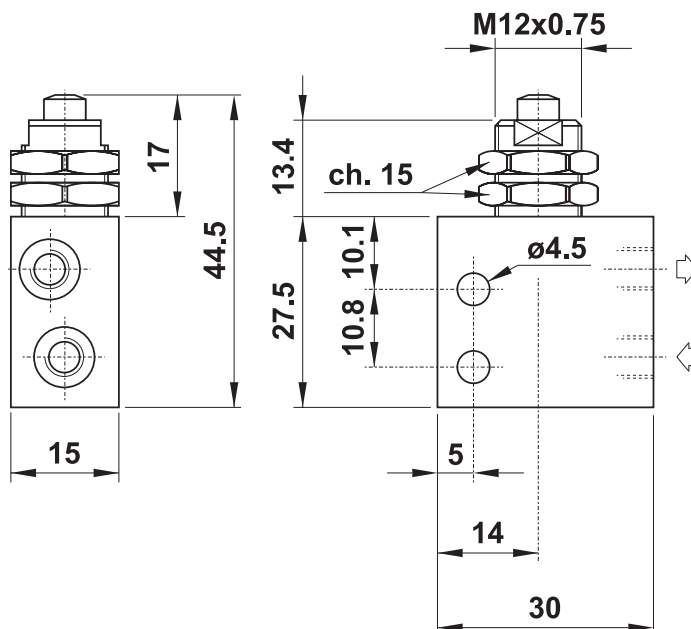
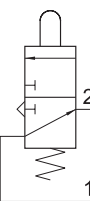
3/2 NC M5 threaded ports (on the side),
panel mount tappet



315 MV UL

3/2 NA attacchi filettati M5 (laterali),
pulsante passa parete

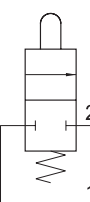
3/2 NO M5 threaded ports (on the side),
panel mount tappet



205 MV UL

2/2 NC attacchi filettati M5 (laterali),
pulsante passa parete

2/2 NC M5 threaded ports (on the side),
panel mount tappet



microvalvole

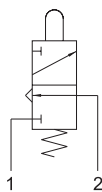
microvalves



304 MGx

3/2 NC raccordi automatici per tubo $\varnothing 4$ (sotto),
tasto (4 colori - vedi schema)

3/2 NC push-in fittings for $\varnothing 4$ tube (ports on the bottom),
push button (4 colours - see explanation)



Nella sigla del prodotto sostituire la lettera "x" con l'indicazione del colore del tasto.

In the part number replace the letter "x" with the colour reference of the push button.

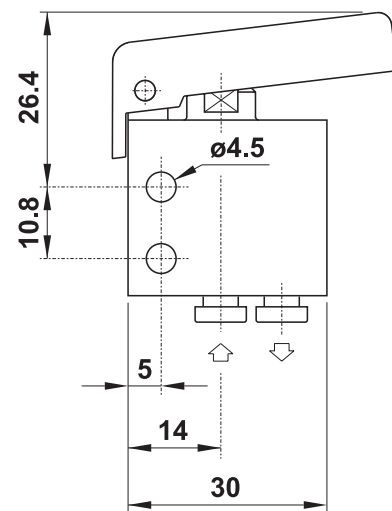
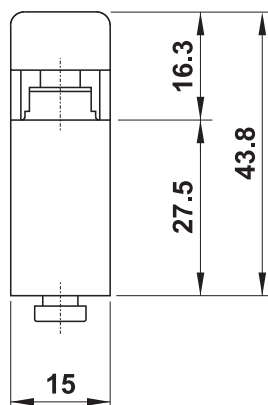
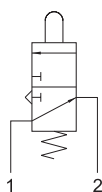
ROSSO - red	R
GIALLO - yellow	G
VERDE - green	V
NERO - black	N



314 MGx

3/2 NA raccordi automatici per tubo $\varnothing 4$ (sotto),
tasto (4 colori - vedi schema)

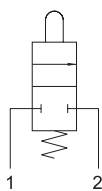
3/2 NO push-in fittings for $\varnothing 4$ tube (ports on the bottom),
push button (4 colours - see explanation)



204 MGx

2/2 NC raccordi automatici per tubo $\varnothing 4$ (sotto),
tasto (4 colori - vedi schema)

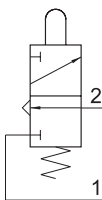
2/2 NC push-in fittings for $\varnothing 4$ tube (ports on the bottom),
push button (4 colours - see explanation)



304 MGx UL

3/2 NC raccordi automatici per tubo $\varnothing 4$ (lateralì),
tasto (4 colori - vedi schema)

3/2 NC push-in fittings for $\varnothing 4$ tube (ports on the side),
push button (4 colours - see explanation)



Nella sigla del prodotto sostituire la lettera "x" con l'indicazione del colore del tasto.

In the part number replace the letter "x" with the colour reference of the push button.

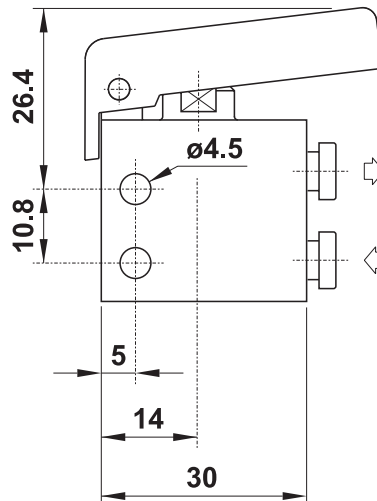
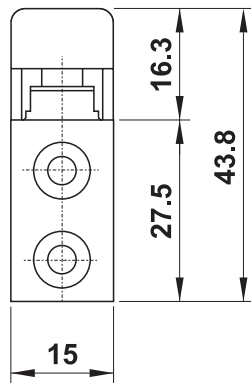
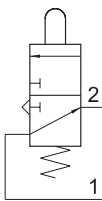
ROSSO - red	R
GIALLO - yellow	G
VERDE - green	V
NERO - black	N



314 MGx UL

3/2 NA raccordi automatici per tubo $\varnothing 4$ (lateralì),
tasto (4 colori - vedi schema)

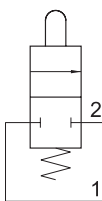
3/2 NO push-in fittings for $\varnothing 4$ tube (ports on the side),
push button (4 colours - see explanation)



204 MGx UL

2/2 NC raccordi automatici per tubo $\varnothing 4$ (lateralì),
tasto (4 colori - vedi schema)

2/2 NC push-in fittings for $\varnothing 4$ tube (ports on the side),
push button (4 colours - see explanation)



microvalvole

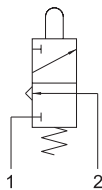
microvalves



305 MGx

3/2 NC attacchi filettati M5 (sotto),
tasto (4 colori - vedi schema)

3/2 NC M5 threaded ports (on the bottom),
push button (4 colours - see explanation)



Nella sigla del prodotto sostituire la lettera "x" con l'indicazione del colore del tasto.
In the part number replace the letter "x" with the colour reference of the push button.

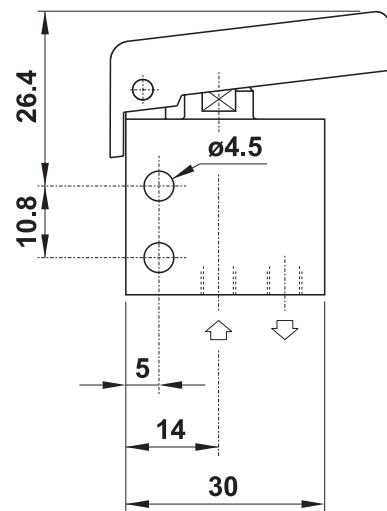
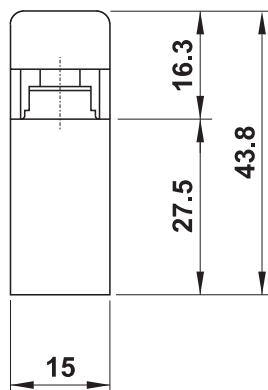
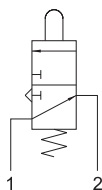
ROSSO - red	R
GIALLO - yellow	G
VERDE - green	V
NERO - black	N



315 MGx

3/2 NA attacchi filettati M5 (sotto),
tasto (4 colori - vedi schema)

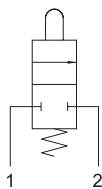
3/2 NO M5 threaded ports (on the bottom),
push button (4 colours - see explanation)



205 MGx

2/2 NC attacchi filettati M5 (sotto),
tasto (4 colori - vedi schema)

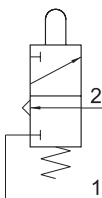
2/2 NC M5 threaded ports (on the bottom),
push button (4 colours - see explanation)



305 MGx UL

3/2 NC attacchi filettati M5 (laterali),
tasto (4 colori - vedi schema)

3/2 NC M5 threaded ports (on the side),
push button (4 colours - see explanation)



Nella sigla del prodotto sostituire la lettera "x" con l'indicazione del colore del tasto.
In the part number replace the letter "x" with the colour reference of the push button.

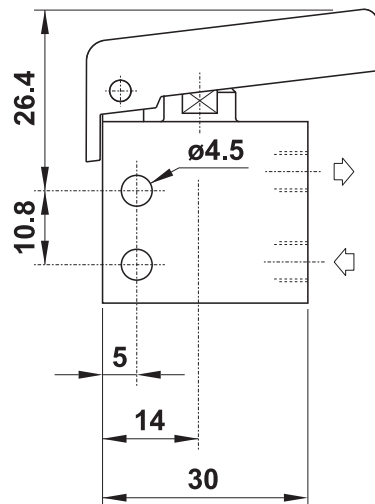
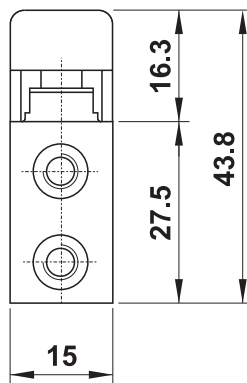
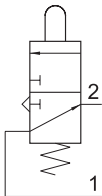
ROSSO - red	R
GIALLO - yellow	G
VERDE - green	V
NERO - black	N



315 MGx UL

3/2 NA attacchi filettati M5 (laterali),
tasto (4 colori - vedi schema)

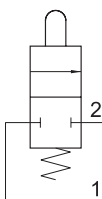
3/2 NO M5 threaded ports (on the side),
push button (4 colours - see explanation)



205 MGx UL

2/2 NC attacchi filettati M5 (laterali),
tasto (4 colori - vedi schema)

2/2 NC M5 threaded ports (on the side),
push button (4 colours - see explanation)

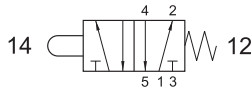


microvalvole

microvalves



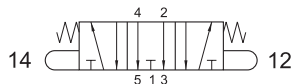
504 MB



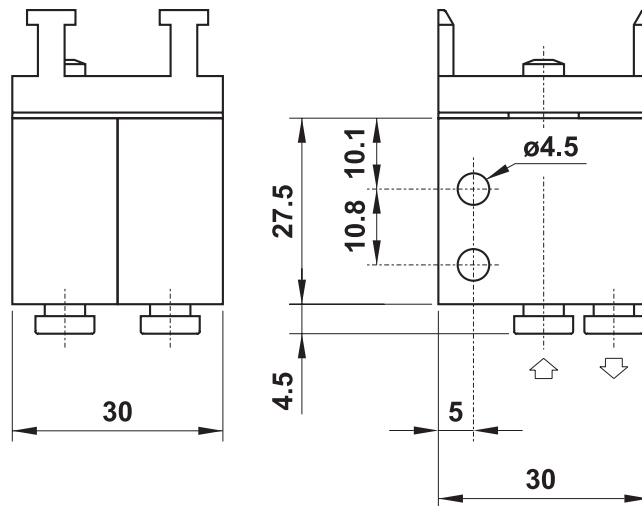
- 5/2 raccordi automatici per tubo $\varnothing 4$ (sotto), interfaccia per attuatore da pannello
- 5/2 *push-in fittings for $\varnothing 4$ tube (ports on the bottom), actuator adaptor for panel mounting*



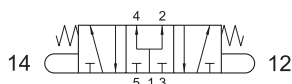
2.304 MB



- 5/3 centri aperti
- raccordi automatici per tubo $\varnothing 4$ (sotto), interfaccia per attuatore da pannello
- 5/3 *open centres*
- push-in fittings for $\varnothing 4$ tube (ports on the bottom), actuator adaptor for panel mounting*

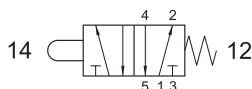


2.314 MB



- 5/3 centri in pressione
- raccordi automatici per tubo $\varnothing 4$ (sotto), interfaccia per attuatore da pannello
- 5/3 *pressurized centres*
- push-in fittings for $\varnothing 4$ tube (ports on the bottom), actuator adaptor for panel mounting*

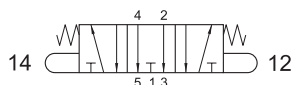
505 MB



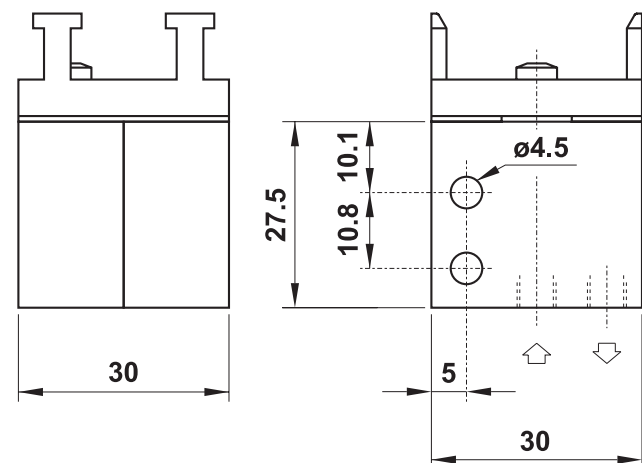
- 5/2 attacchi filettati M5 (sotto), interfaccia per attuatore da pannello
- 5/2 *M5 threaded ports (on the bottom), actuator adaptor for panel mounting*



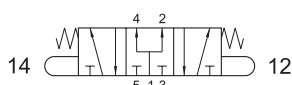
2.305 MB



- 5/3 centri aperti
- attacchi filettati M5 (sotto), interfaccia per attuatore da pannello
- 5/3 *open centres*
- M5 threaded ports (on the bottom), actuator adaptor for panel mounting*



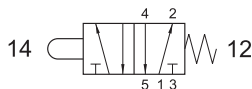
2.315 MB



- 5/3 centri in pressione
- attacchi filettati M5 (sotto), interfaccia per attuatore da pannello
- 5/3 *pressurized centres*
- M5 threaded ports (on the bottom), actuator adaptor for panel mounting*



504 MB UL

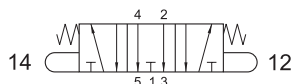


5/2 raccordi automatici per tubo $\varnothing 4$ (laterali),
interfaccia per attuatore da pannello

5/2 *push-in fittings for $\varnothing 4$ tube (ports on the side),
actuator adaptor for panel mounting*



2.304 MB UL

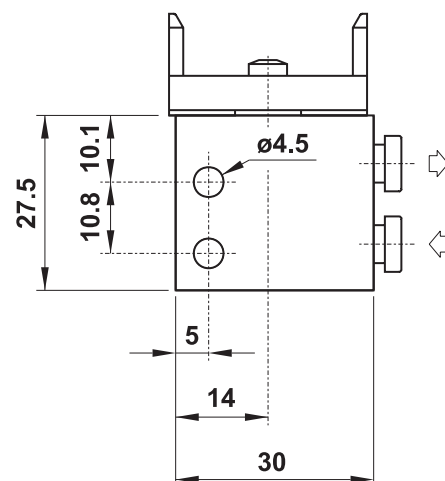
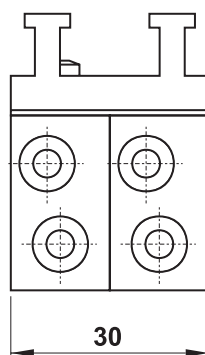


5/3 centri aperti

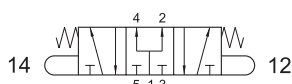
raccordi automatici per tubo $\varnothing 4$ (laterali),
interfaccia per attuatore da pannello

5/3 *open centres*

*push-in fittings for $\varnothing 4$ tube (ports on the side),
actuator adaptor for panel mounting*



2.314 MB UL



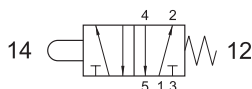
5/3 centri in pressione

raccordi automatici per tubo $\varnothing 4$ (laterali),
interfaccia per attuatore da pannello

5/3 *pressurized centres*

*push-in fittings for $\varnothing 4$ tube (ports on the side),
actuator adaptor for panel mounting*

505 MB UL

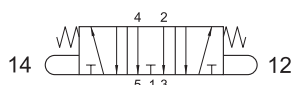


5/2 attacchi filettati M5 (laterali),
interfaccia per attuatore da pannello

5/2 *M5 threaded ports (on the side),
actuator adaptor for panel mounting*



2.305 MB UL

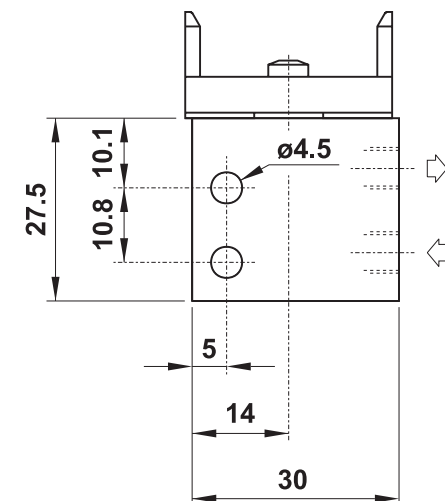
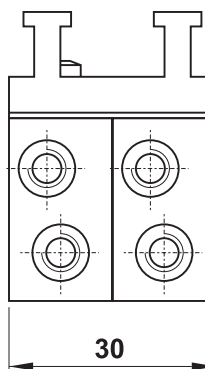


5/3 centri aperti

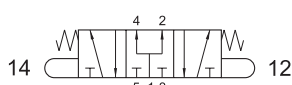
attacchi filettati M5 (laterali),
interfaccia per attuatore da pannello

5/3 *open centres*

*M5 threaded ports (on the side),
actuator adaptor for panel mounting*



2.315 MB UL



5/3 centri in pressione

attacchi filettati M5 (laterali),
interfaccia per attuatore da pannello

5/3 *pressurized centres*

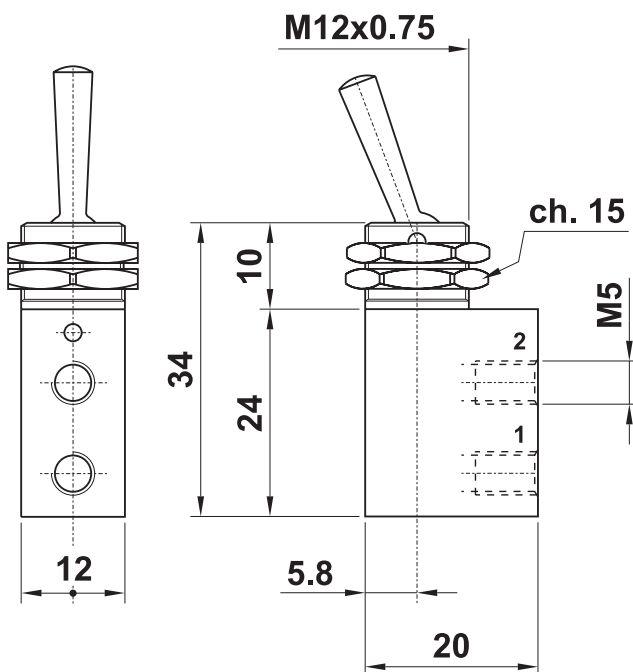
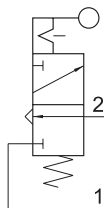
*M5 threaded ports (on the side),
actuator adaptor for panel mounting*

305 LL

3/2 NC attacchi filettati M5,
leva in testa bistabile

materiale corpo: ottone nichelato

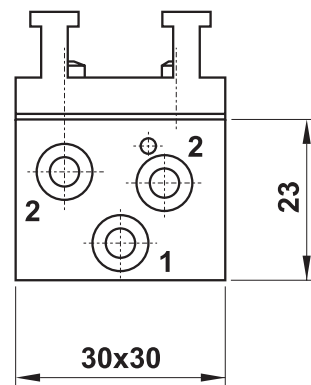
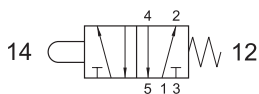
3/2 NC M5 threaded ports,
bi-stable lever
body material: nickel plated brass



504 MB CU

5/2 corpo unico
raccordi automatici per tubo $\varnothing 4$ (laterali),
interfaccia per attuatore da pannello

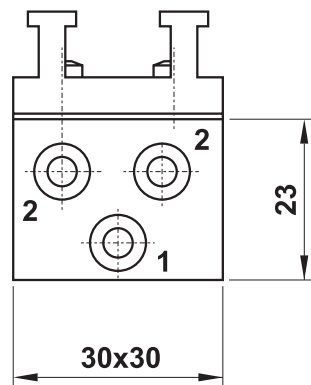
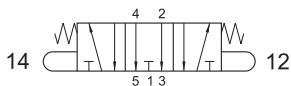
5/2 single valve body
push-in fittings for $\varnothing 4$ tube (ports on the side),
actuator adaptor for panel mounting



2.304 MB CU

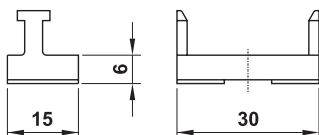
5/3 centri aperti, corpo unico
raccordi automatici per tubo $\varnothing 4$ (laterali),
interfaccia per attuatore da pannello

5/3 open centres, single valve body
push-in fittings for $\varnothing 4$ tube (ports on the side),
actuator adaptor for panel mounting



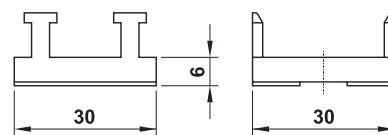
08.017.2

interfaccia singola per attuatore a
pannello completa di viti
single adaptor for panel mounting actuator,
complete with fixing screws



08.015.2

interfaccia doppia per attuatore a
pannello completa di viti
double adaptor for panel mounting actuator,
complete with fixing screws



attuatori da pannello

actuators for panel mounting



pulsante protetto protected push button

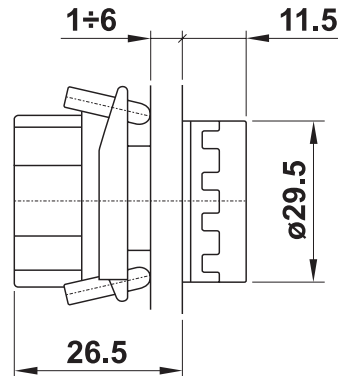
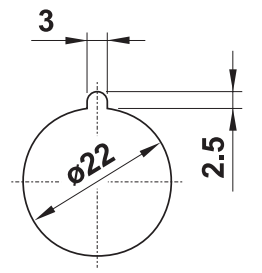
codice code	colori standard standard colours
RM 010	ROSSO, NERO e BIANCO (forniti assieme nel kit) red, black and white (supplied in kit)

- I seguenti colori sono disponibili ordinandoli in aggiunta al kit standard
The following colours are available as an alternative and must be ordered separately

codice code	colore colour
P 22804 V	VERDE [green]
P 22804 G	GIALLO [yellow]
P 22804 A	AZZURRO [light blue]
P 22804 B	BIANCO [white]

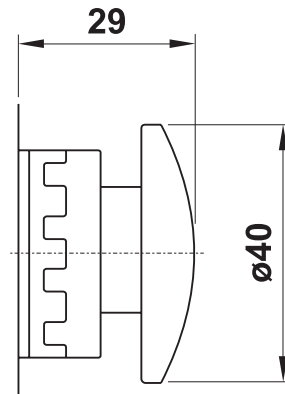
Foro per montaggio a pannello
con asola antirotazione

Panel mounting hole with antirotation
feature



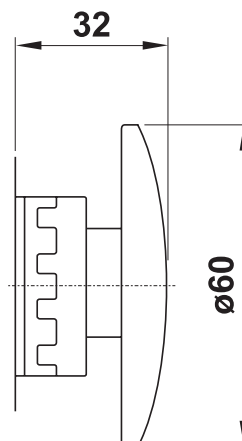
fungo ø40 ø40 mushroom

codice code	descrizione description	colore colour
RM 050 R	monostabile assiale [axial mono-stable]	ROSSO [red]
RM 050 N	monostabile assiale [axial mono-stable]	NERO [black]
RM 055 R	oscillante [multi-directional]	ROSSO [red]
RM 055 N	oscillante [multi-directional]	NERO [black]
RM 065 R	sblocco a rotazione [turn to unlock]	ROSSO [red]



fungo ø60 ø60 palm

codice code	descrizione description	colore colour
RM 056 R	oscillante [multi-directional]	ROSSO [red]
RM 066 R	sblocco a rotazione [turn to unlock]	ROSSO [red]



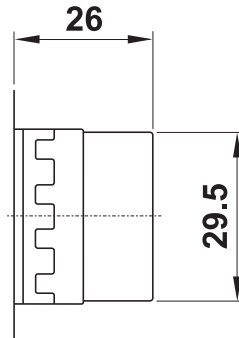
attuatori da pannello

actuators for panel mounting



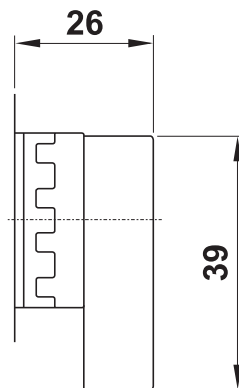
selettore leva corta short lever selector

codice code	colore colour	funzione function
RM 300 N	NERO black	0 1
RM 350 N	NERO black	0 ← 1
RM 313 N	NERO black	2 0 1
RM 383 N	NERO black	2 → 0 ← 1



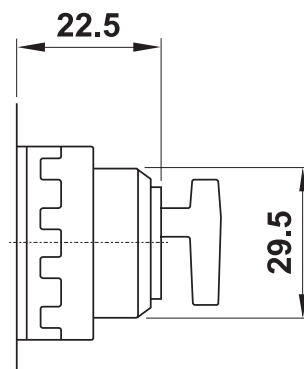
selettore leva lunga long lever selector

codice code	colore colour	funzione function
RM 400 N	NERO black	0 1
RM 450 N	NERO black	0 ← 1
RM 413 N	NERO black	2 0 1
RM 483 N	NERO black	2 → 0 ← 1



selettore a chiave bistabile bi-stable key selector

codice code
RM 200 N

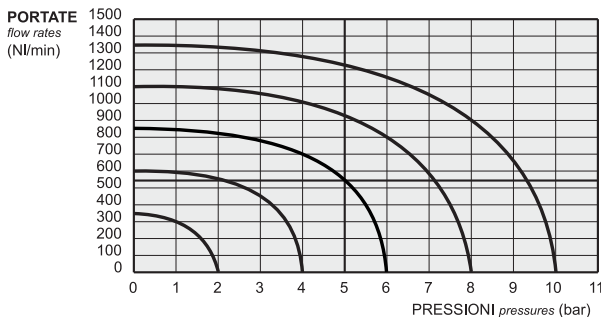


valvole ad azionamento meccanico

mechanically actuated valves



- Valvole a spola 3/2-5/2 con attacchi filettati G1/8"
3/2-5/2 spool valves with G1/8" threaded ports
- Installazione in qualsiasi posizione
Installation in any position
- Ampia gamma di azionamenti a comando diretto o servovalimentato
Comprehensive range of actuations, direct or servo-piloted
- Esecuzioni speciali a richiesta
Special versions on request



Materiali

Corpo: alluminio 11S
 Molle: INOX
 Guarnizioni: NBR
 Spola: alluminio nichelato
 Parti interne: ottone OT58

Materials

Body: aluminium 11S
 Springs: stainless steel
 Seals: NBR
 Spool: nickel plated aluminium
 Internal parts: brass OT58

Diametro nominale <i>Nominal orifice</i>	5 mm	
Temperatura di esercizio <i>Temperature range</i>	max +60°C	
Pressione di esercizio <i>Working pressure</i>	az. diretto [direct actuation]	az. servopilotato [servo-piloted actuation]
	max 10 bar max 1 MPa	2.5 ... 10 bar 0.25 ... 1 MPa
Forza di azionamento (ove non altrimenti indicato) <i>Actuating force (where not otherwise stated)</i>	az. diretto [direct actuation]	az. servopilotato [servo-piloted actuation]
	~ 40 N	~ 4 N
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>	

valvole ad azionamento meccanico

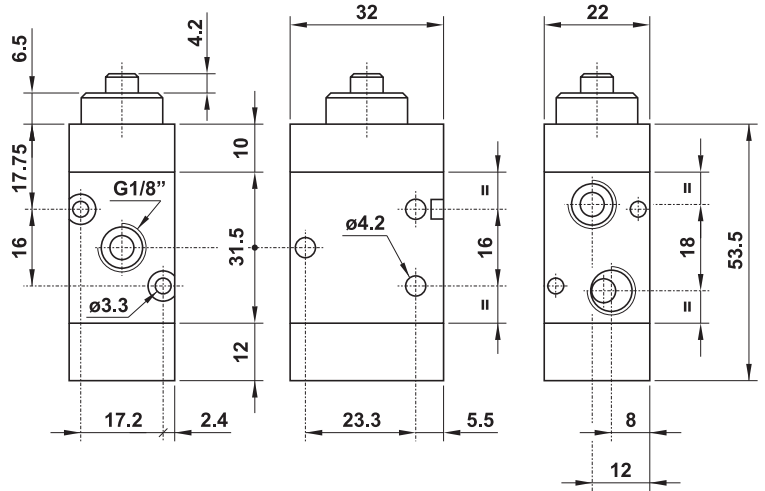
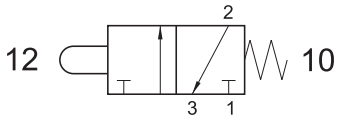
mechanically actuated valves



321 MP

3/2 1/8" puntale - ritorno a molla

3/2 1/8" tappet - spring return



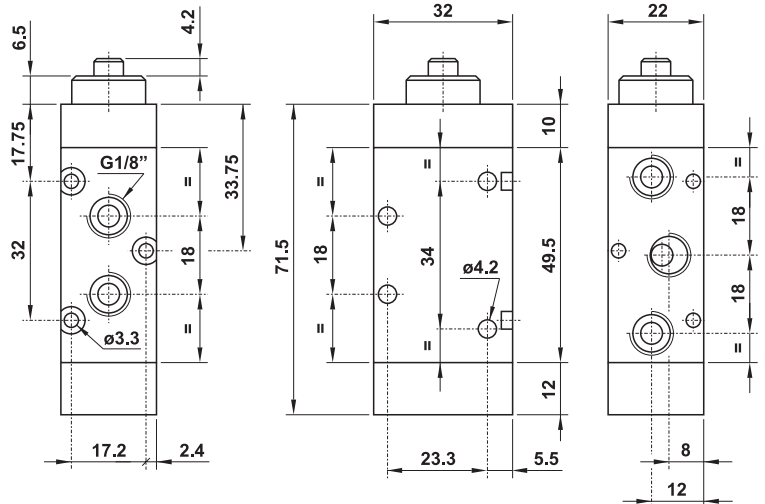
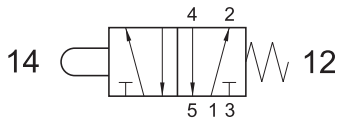
Forza di azionamento: 32.36 N

Actuating force: 32.36 N

521 MP

5/2 1/8" puntale - ritorno a molla

5/2 1/8" tappet - spring return



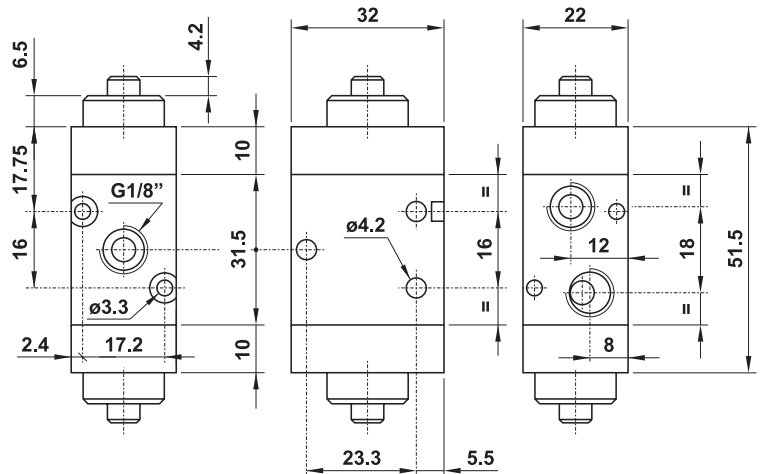
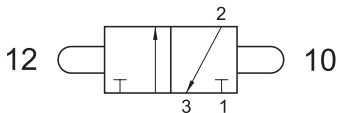
Forza di azionamento: 32.36 N

Actuating force: 32.36 N

321 2P

3/2 1/8" doppio puntale

3/2 1/8" double tappet



valvole ad azionamento meccanico

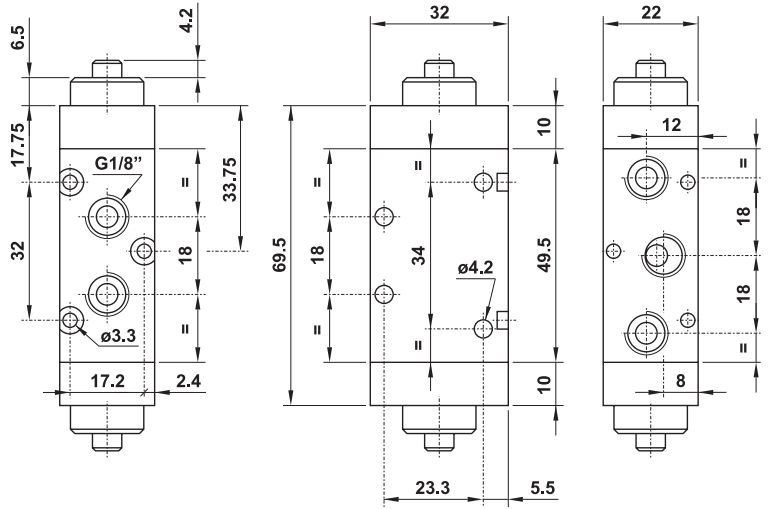
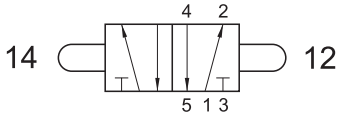
mechanically actuated valves



521 2P

5/2 1/8" doppio puntale

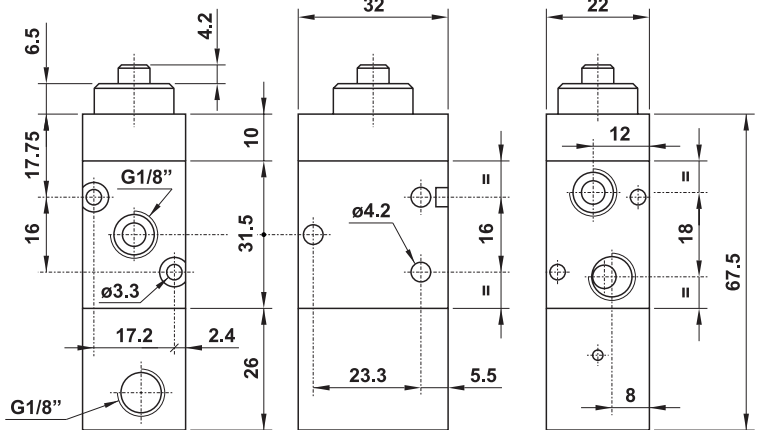
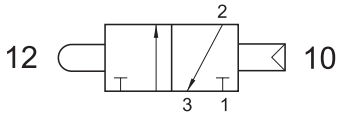
5/2 1/8" double tappet



321 CP

3/2 1/8" puntale - ritorno a comando pneumatico

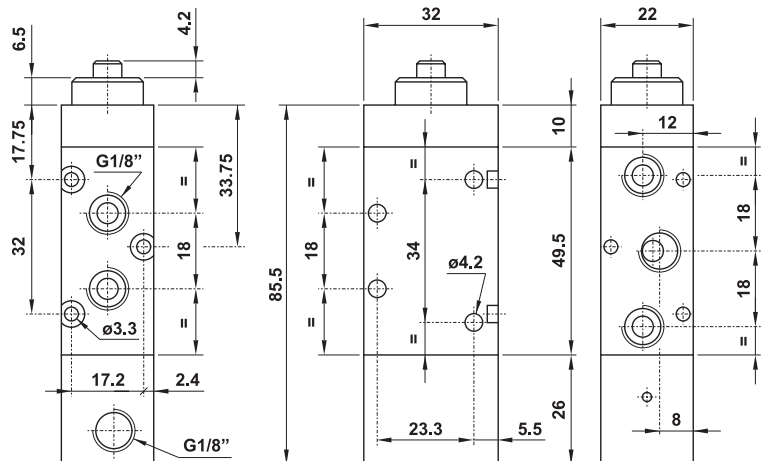
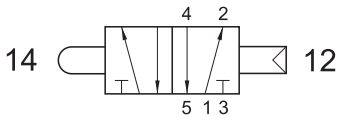
3/2 1/8" tappet - separate pneumatically piloted return



521 CP

5/2 1/8" puntale - ritorno a comando pneumatico

5/2 1/8" tappet - separate pneumatically piloted return



valvole ad azionamento meccanico

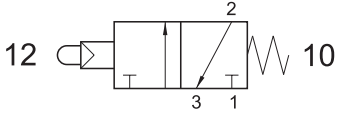
mechanically actuated valves



321 MPS

3/2 1/8" NC pulsante servopilotato - ritorno a molla

3/2 1/8" NC servo-piloted tappet - spring return



Forza di azionamento in funzione della pressione di alimentazione

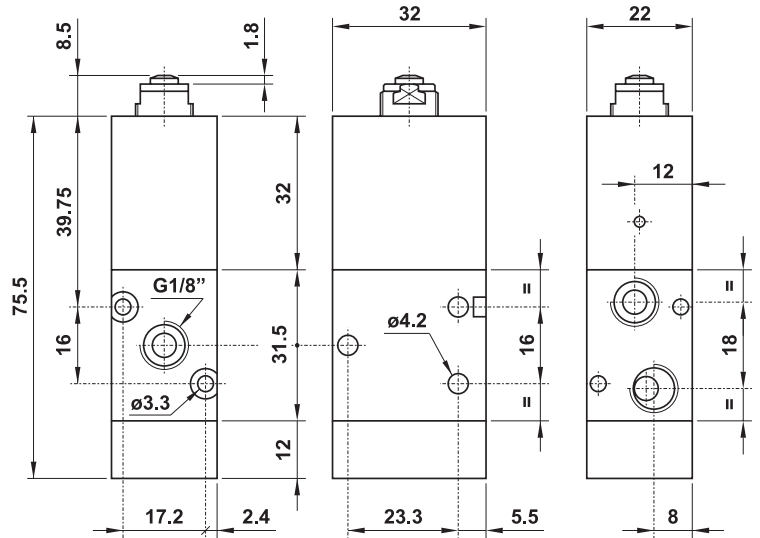
Actuating force related to inlet pressure

P_1 : 2 bar

P_1 : 10 bar

F: 4.5 N

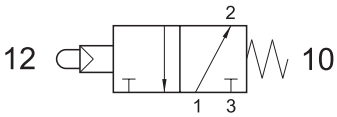
F: 14.2 N



321 MPSA

3/2 1/8" NA pulsante servopilotato - ritorno a molla

3/2 1/8" NO servo-piloted tappet - spring return



Forza di azionamento in funzione della pressione di alimentazione

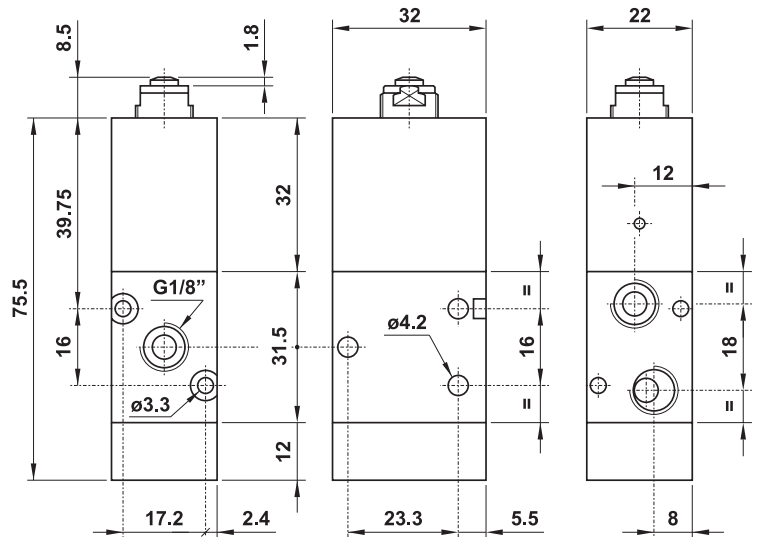
Actuating force related to inlet pressure

P_1 : 2 bar

P_1 : 10 bar

F: 4.5 N

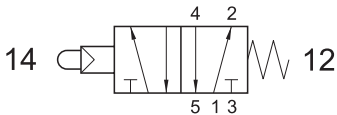
F: 14.2 N



521 MPS

5/2 1/8" pulsante servopilotato - ritorno a molla

5/2 1/8" servo-piloted tappet - spring return



Forza di azionamento in funzione della pressione di alimentazione

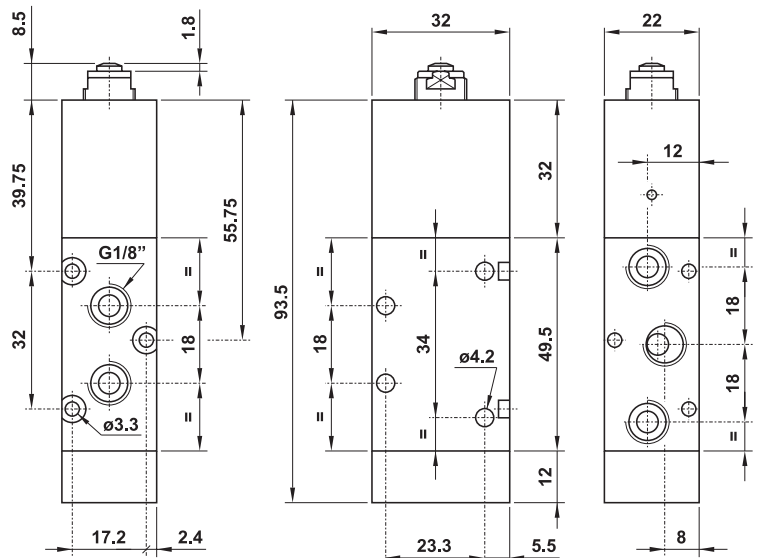
Actuating force related to inlet pressure

P_1 : 2 bar

P_1 : 10 bar

F: 4.5 N

F: 14.2 N



valvole ad azionamento meccanico

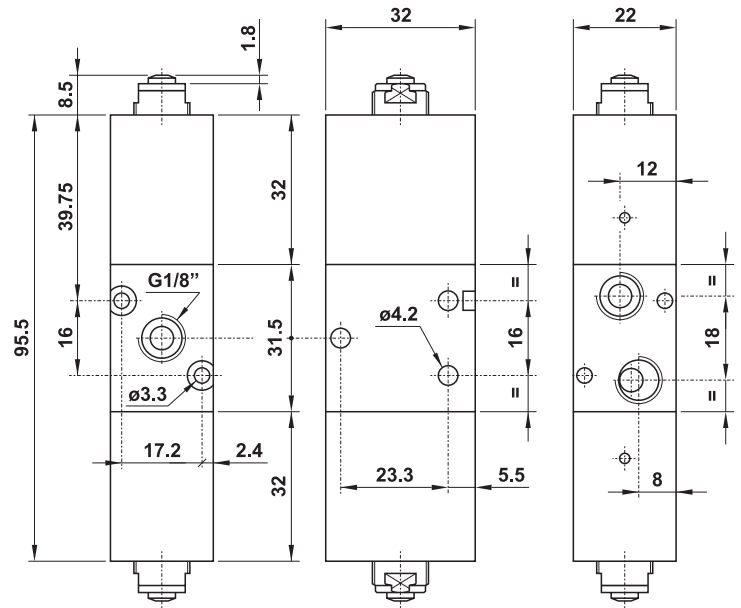
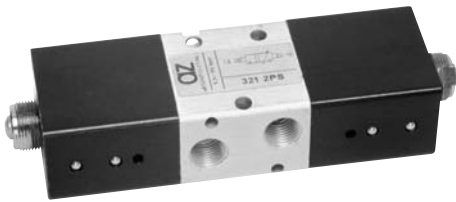
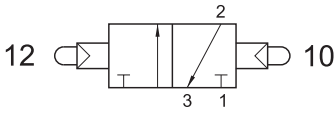
mechanically actuated valves



321 2PS

3/2 1/8" doppio pulsante servopilotato

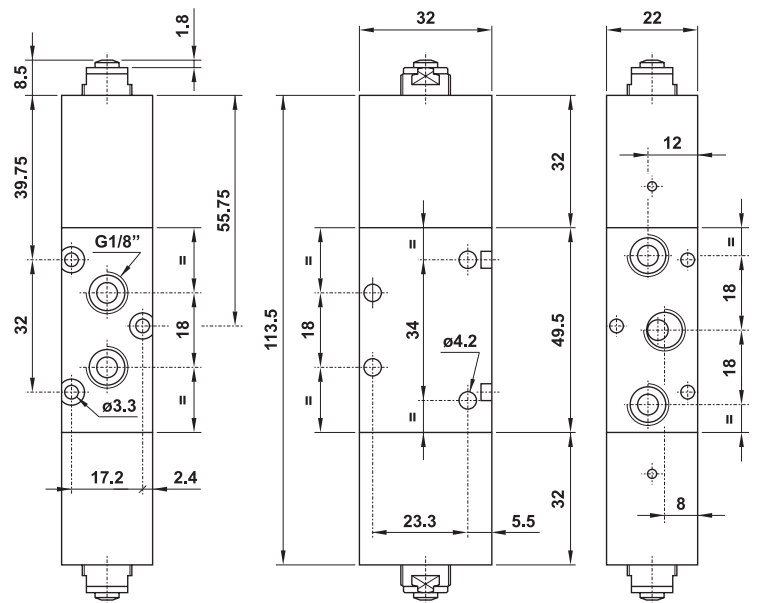
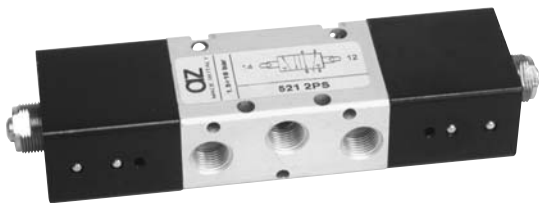
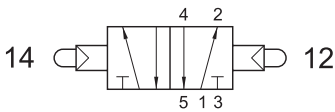
3/2 1/8" double servo-piloted tappet



521 2PS

5/2 1/8" doppio pulsante servopilotato

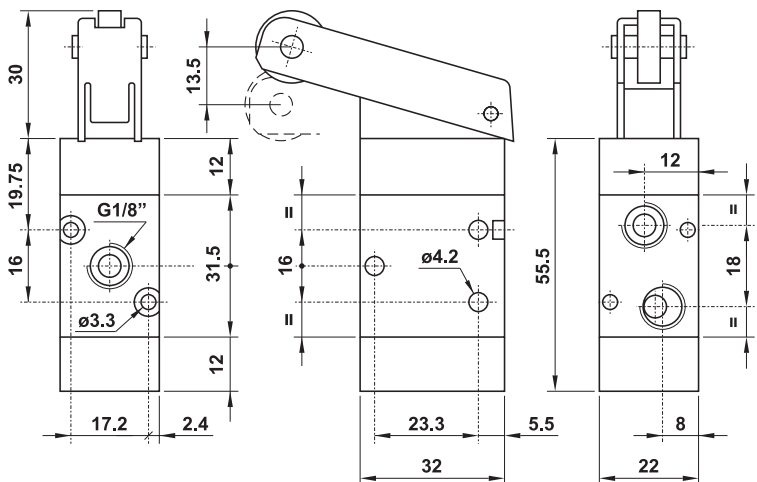
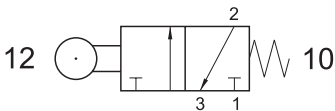
5/2 1/8" double servo-piloted tappet



321 MR

3/2 1/8" leva rullo - ritorno a molla

3/2 1/8" roller lever - spring return



Forza di azionamento: 9.81 N

Actuating force: 9.81 N

valvole ad azionamento meccanico

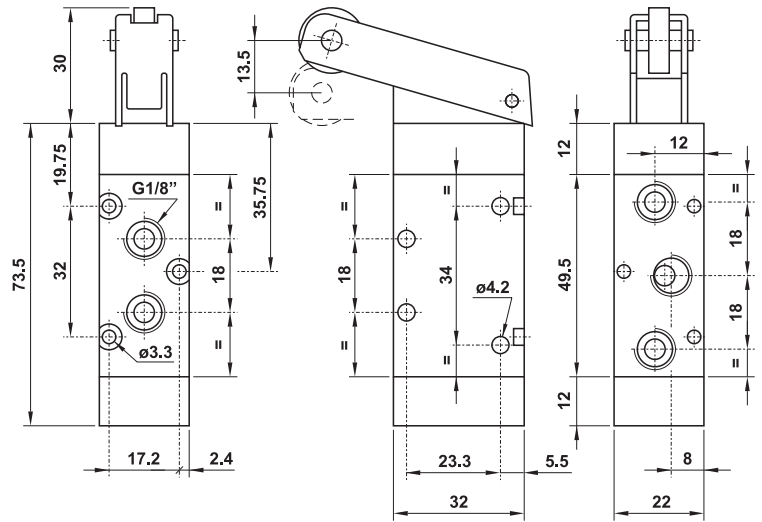
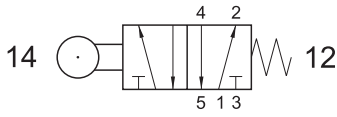
mechanically actuated valves



521 MR

5/2 1/8" leva rullo - ritorno a molla

5/2 1/8" roller lever - spring return



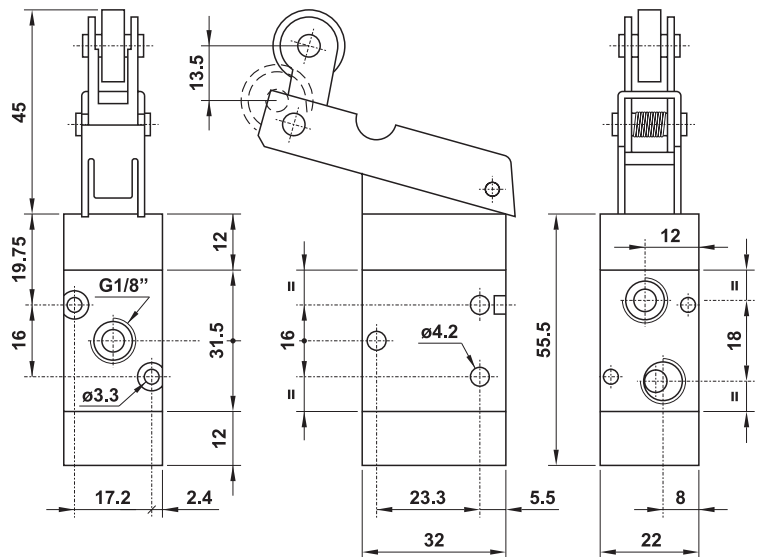
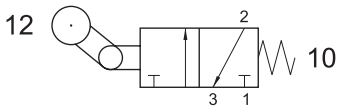
Forza di azionamento: 9.81 N

Actuating force: 9.81 N

321 MRU

3/2 1/8" leva unidirezionale - ritorno a molla

3/2 1/8" uni-directional lever - spring return



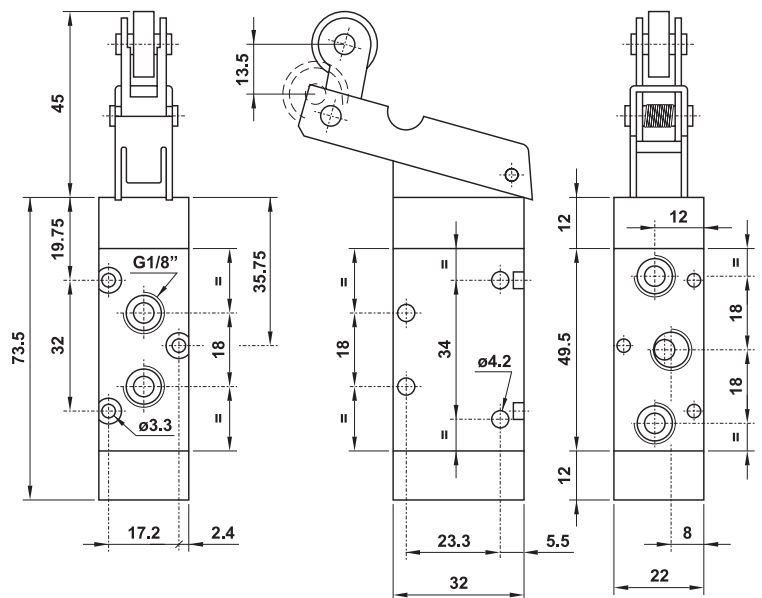
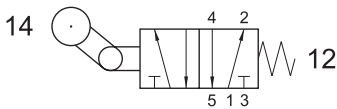
Forza di azionamento: 9.81 N

Actuating force: 9.81 N

521 MRU

5/2 1/8" leva unidirezionale - ritorno a molla

5/2 1/8" uni-directional lever - spring return



Forza di azionamento: 9.81 N

Actuating force: 9.81 N

valvole ad azionamento meccanico

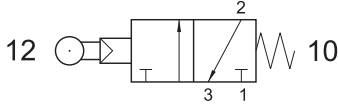
mechanically actuated valves



321 MRS

3/2 1/8" NC leva rullo servopilotata - ritorno a molla

3/2 1/8" NC servo-piloted roller lever - spring return



Forza di azionamento in funzione della pressione di alimentazione

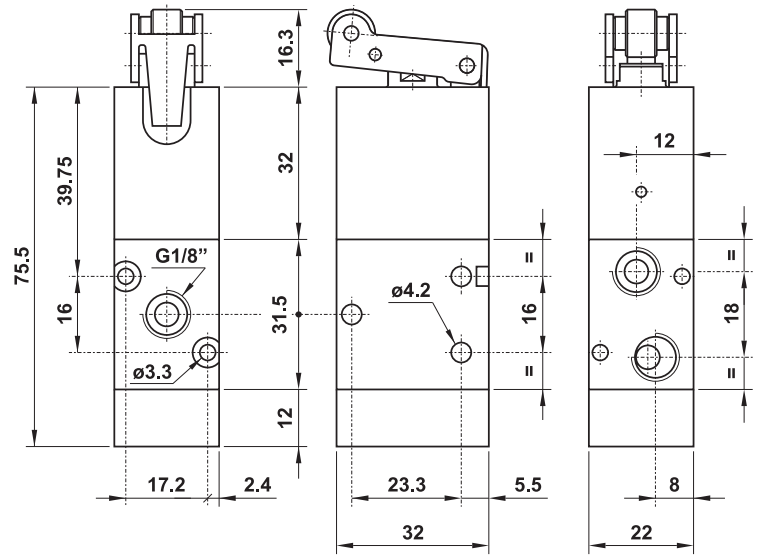
Actuating force related to inlet pressure

P_1 : 2 bar

P_1 : 10 bar

F: 3.6 N

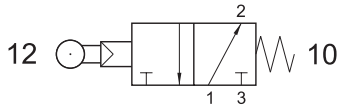
F: 11.4 N



321 MRSA

3/2 1/8" NA leva rullo servopilotata - ritorno a molla

3/2 1/8" NO servo-piloted roller lever - spring return



Forza di azionamento in funzione della pressione di alimentazione

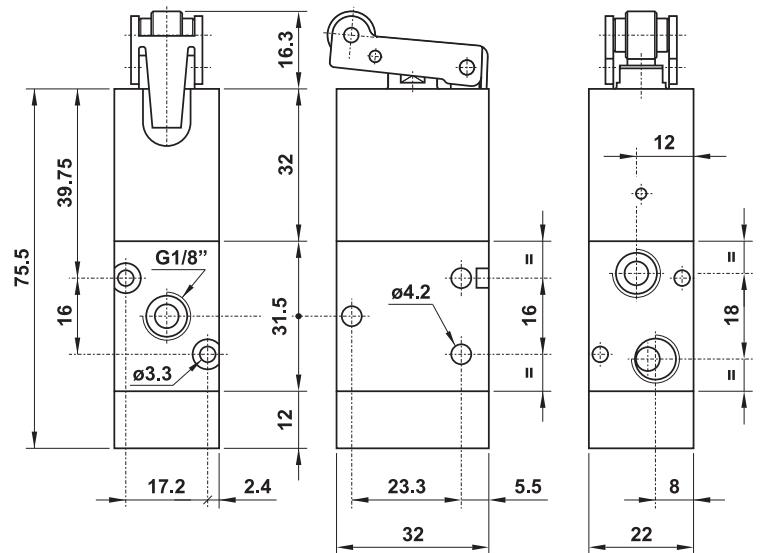
Actuating force related to inlet pressure

P_1 : 2 bar

P_1 : 10 bar

F: 3.6 N

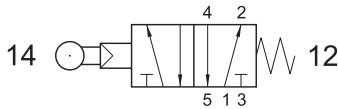
F: 11.4 N



521 MRS

5/2 1/8" leva rullo servopilotata - ritorno a molla

5/2 1/8" servo-piloted roller lever - spring return



Forza di azionamento in funzione della pressione di alimentazione

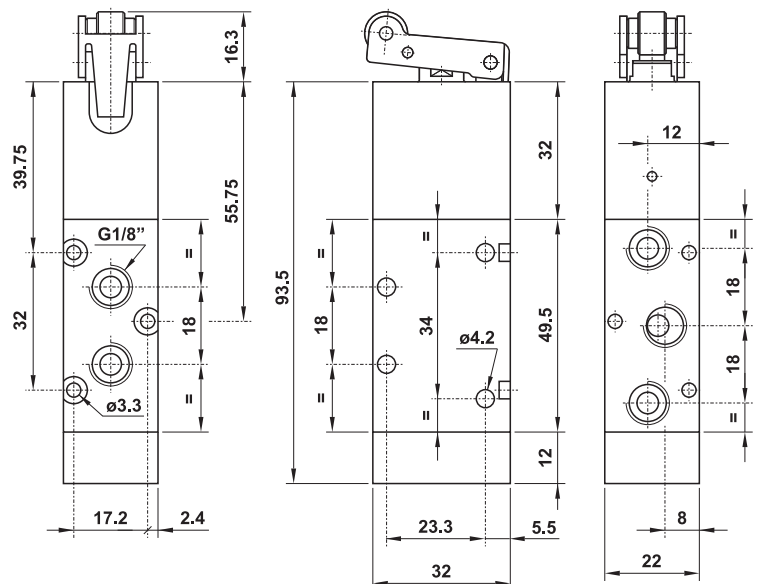
Actuating force related to inlet pressure

P_1 : 2 bar

P_1 : 10 bar

F: 3.6 N

F: 11.4 N



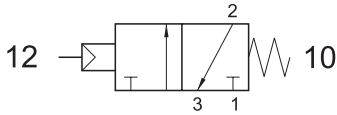
valvole ad azionamento meccanico

mechanically actuated valves



321 MN

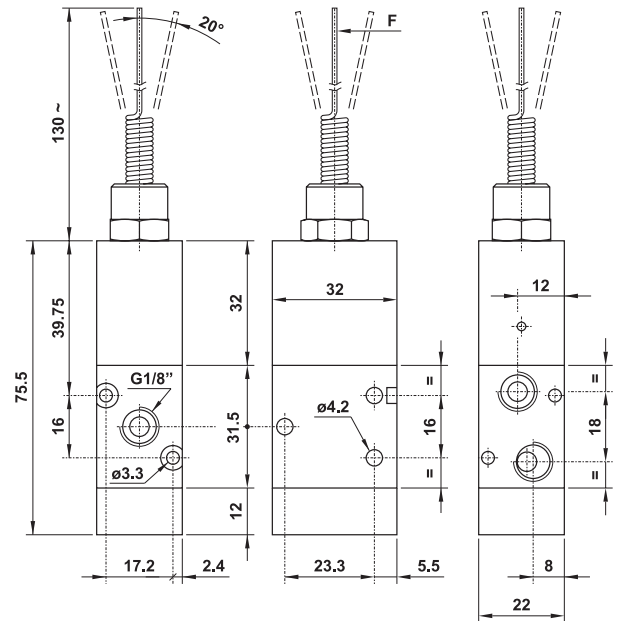
3/2 1/8" NC antenna servopilotata - ritorno a molla
3/2 1/8" NC servo-piloted whisker - spring return



Forza di azionamento in funzione della pressione di alimentazione

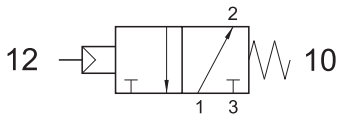
Actuating force related to inlet pressure

P_1 : 2 bar P_1 : 10 bar
 F : 0.3 N F : 0.8 N



321 MNA

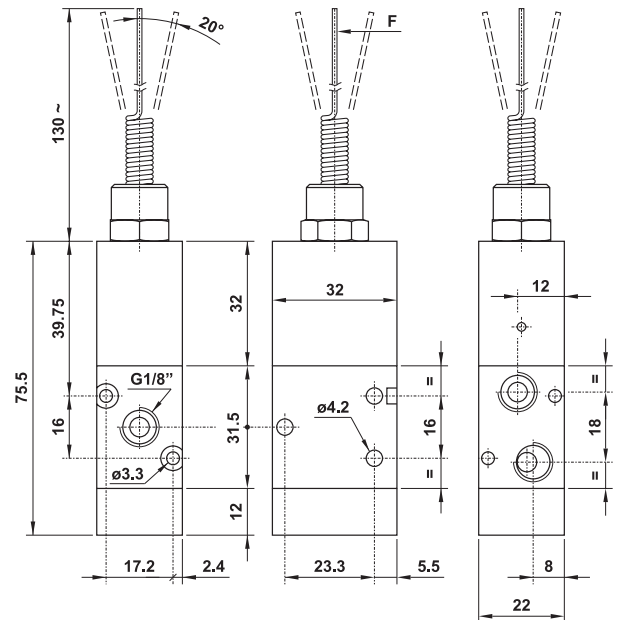
3/2 1/8" NA antenna servopilotata - ritorno a molla
3/2 1/8" NO servo-piloted whisker - spring return



Forza di azionamento in funzione della pressione di alimentazione

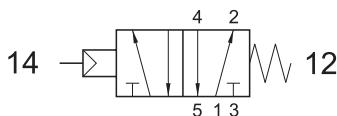
Actuating force related to inlet pressure

P_1 : 2 bar P_1 : 10 bar
 F : 0.3 N F : 0.8 N



521 MN

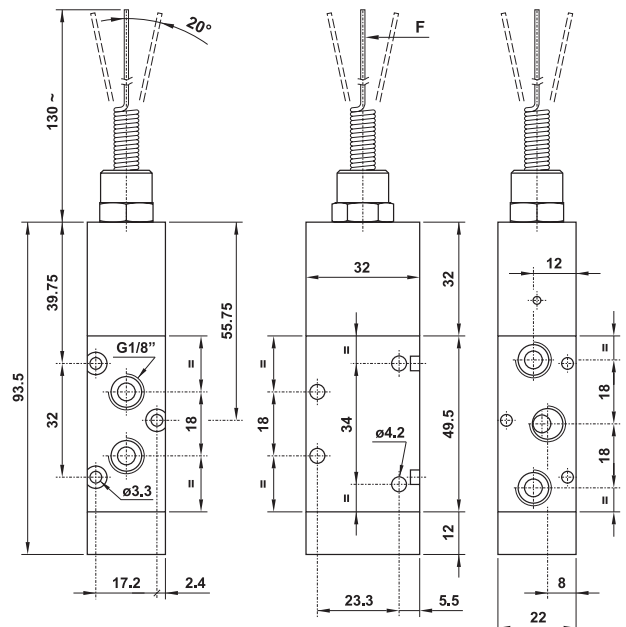
5/2 1/8" antenna servopilotata - ritorno a molla
5/2 1/8" servo-piloted whisker - spring return



Forza di azionamento in funzione della pressione di alimentazione

Actuating force related to inlet pressure

P_1 : 2 bar P_1 : 10 bar
 F : 0.3 N F : 0.8 N



valvole ad azionamento manuale

manually actuated valves



- Valvole a spola 3/2-5/2-5/3 con attacchi filettati G1/8"-G1/4"
3/2-5/2-5/3 spool valves with G1/8"-G1/4" threaded ports
- Installazione in qualsiasi posizione
Installation in any position
- Ampia gamma di azionamenti
Comprehensive range of actuations
- Valvole a leva e taretto: filetto per montaggio a pannello M18x1.5
Push/pull and lever valves: thread for panel mounting M18x1.5
- Versione per attuatore da pannello (foro ø22)
Version for actuator for panel mounting (with ø22 hole)
- Esecuzioni speciali a richiesta
Special versions on request



Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: alluminio nichelato

Parti interne: ottone OT58

Materials

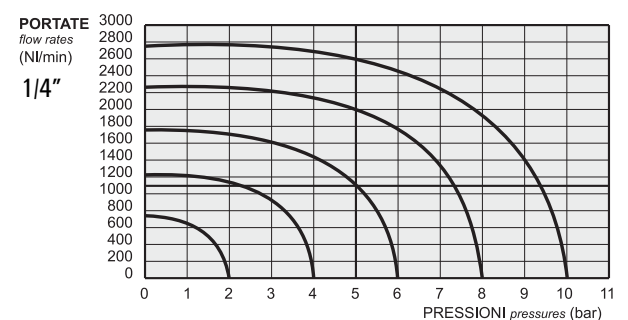
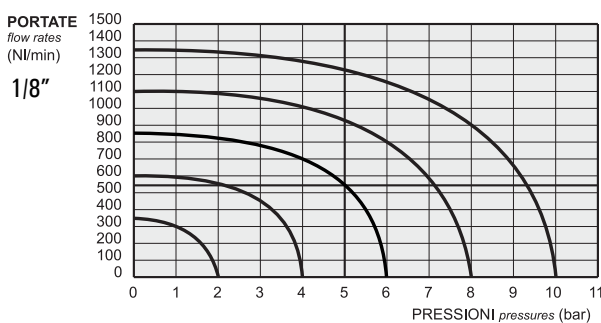
Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spool: nickel plated aluminium

Internal parts: brass OT58



Diametro nominale <i>Nominal orifice</i>		1/8": 5 mm 1/4": 7.5 mm			
Temperatura di esercizio <i>Temperature range</i>		max +60°C			
Pressione di esercizio <i>Working pressure</i>		azionam. diretto <i>direct actuation</i>		az. servopilotato <i>servo-piloted actuation</i>	
		max 10 bar max 1 MPa		2.5 ... 10 bar 0.25 ... 1 MPa	
Forza di azionamento <i>Actuating force</i>	1/8" monost. [1/8" monost.]	1/4" monost. [1/4" monost.]	1/8" bistabile [1/8" bi-stable]	1/4" bistabile [1/4" bi-stable]	
	15 N		20 N		10 N
Fluido <i>Fluid</i>		Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>			

valvole ad azionamento manuale

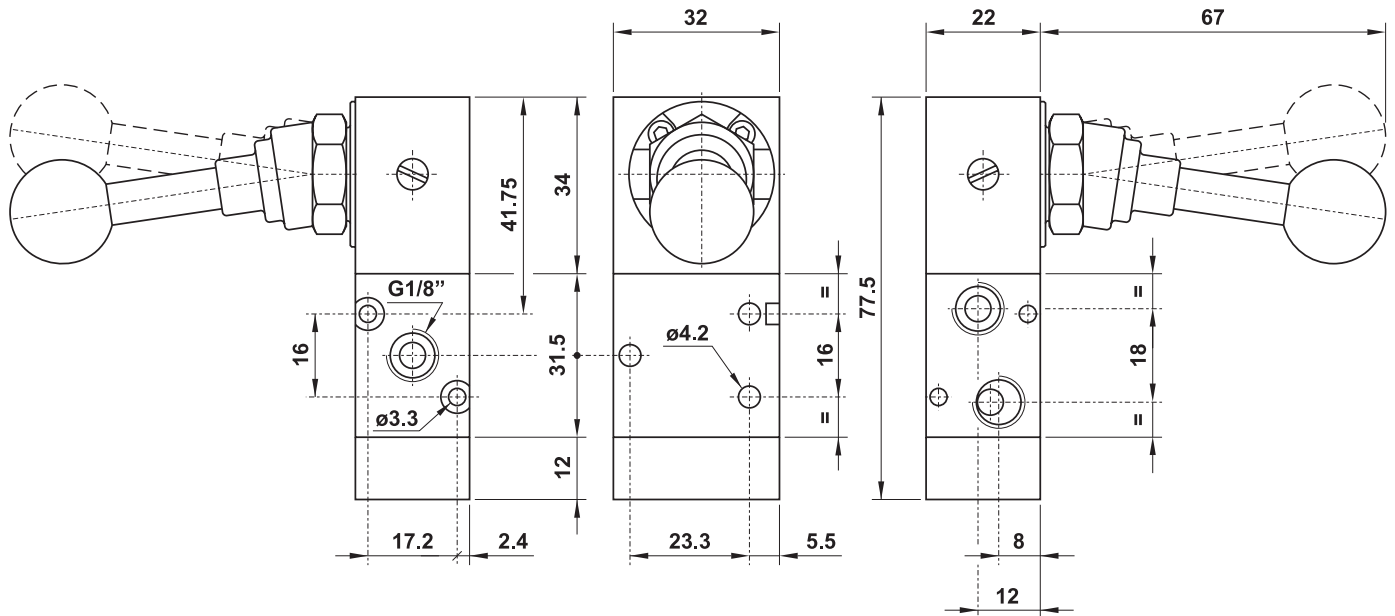
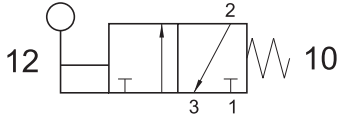
manually actuated valves



321 ML90

3/2 1/8" leva 90° - ritorno a molla

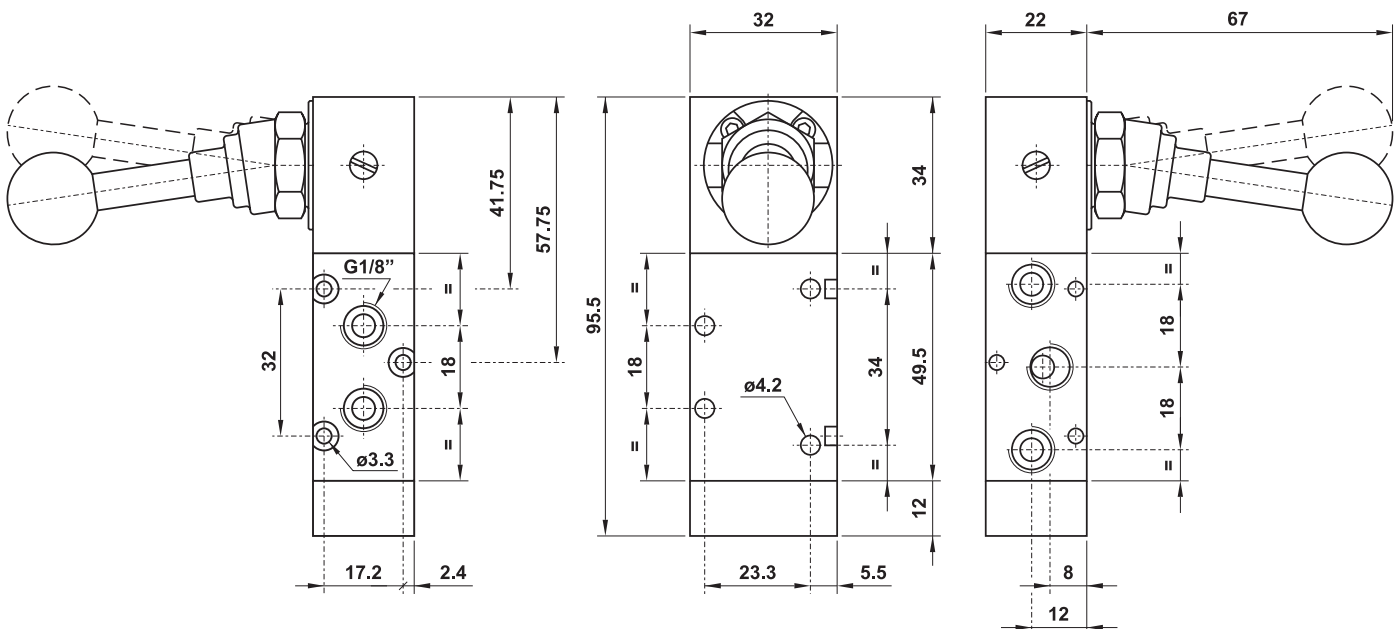
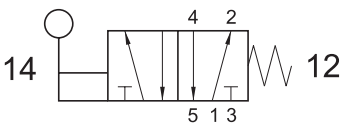
3/2 1/8" 90° lever - spring return



521 ML90

5/2 1/8" leva 90° - ritorno a molla

5/2 1/8" 90° lever - spring return



valvole ad azionamento manuale

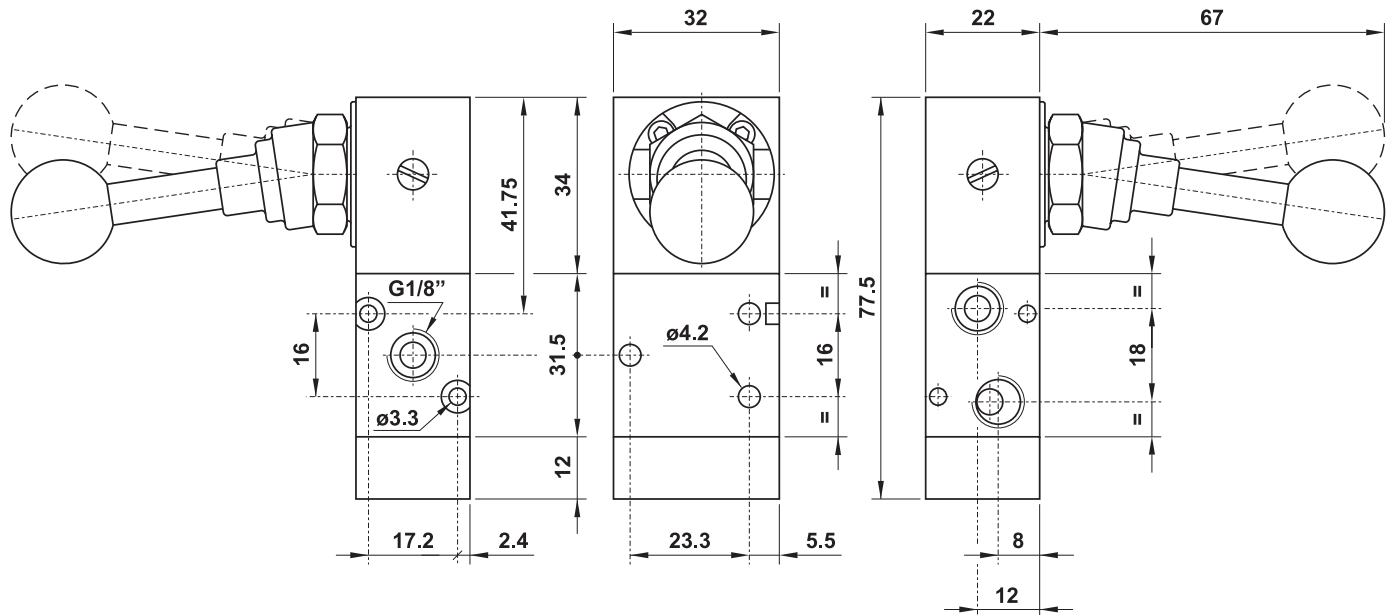
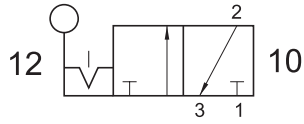
manually actuated valves



321 LL90

3/2 1/8" leva 90° bistabile

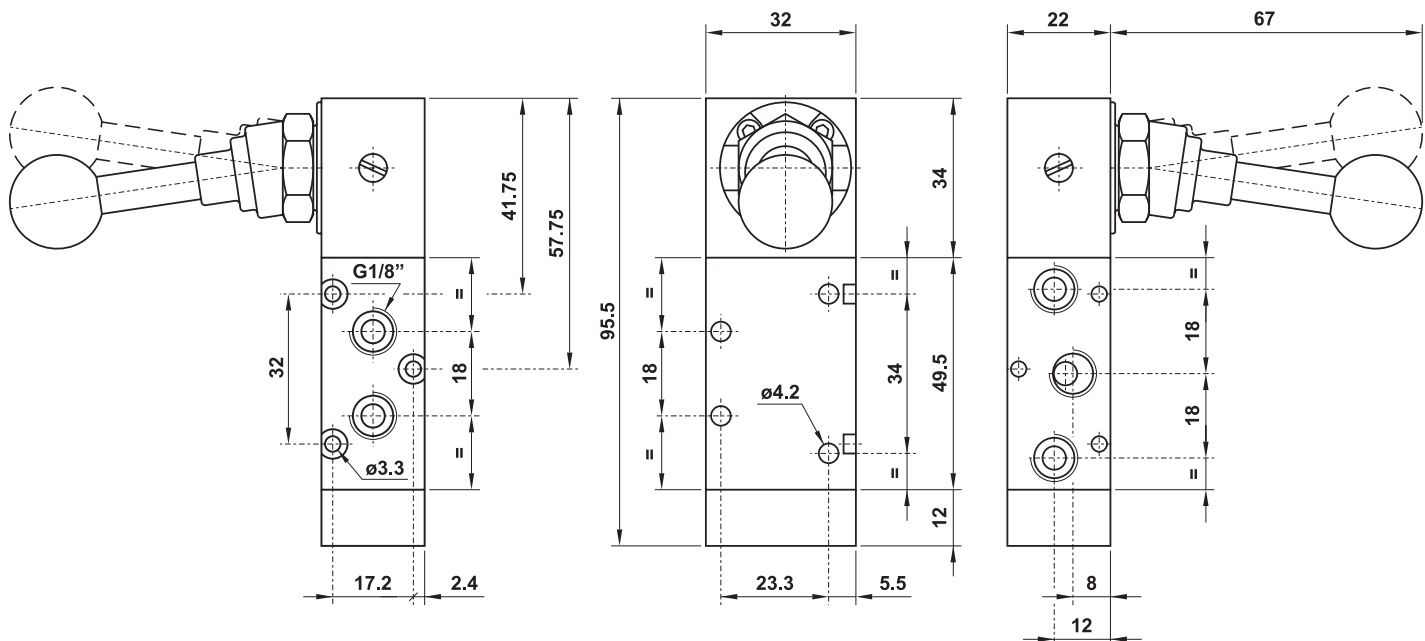
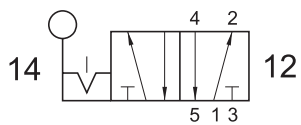
3/2 1/8" 90° bi-stable lever



521 LL90

5/2 1/8" leva 90° bistabile

5/2 1/8" 90° bi-stable lever



valvole ad azionamento manuale

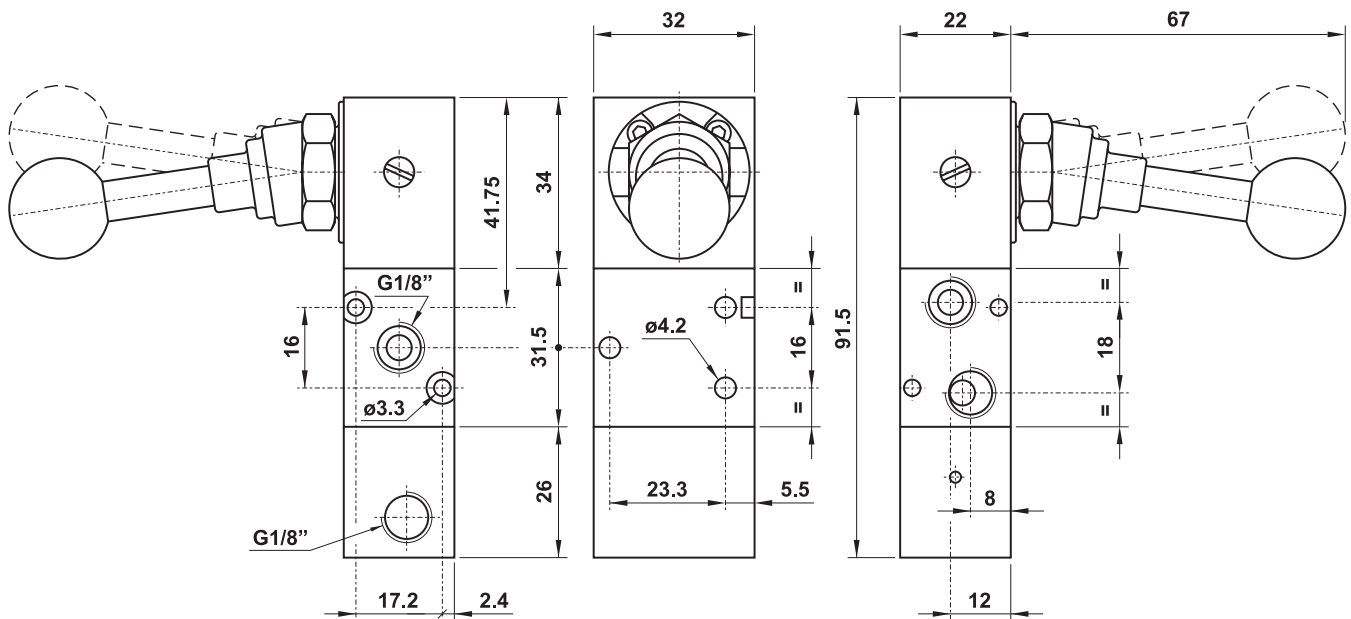
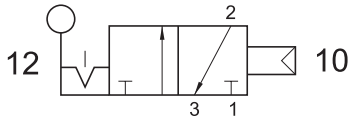
manually actuated valves



321 CL90

3/2 1/8" leva 90° - ritorno a comando pneumatico

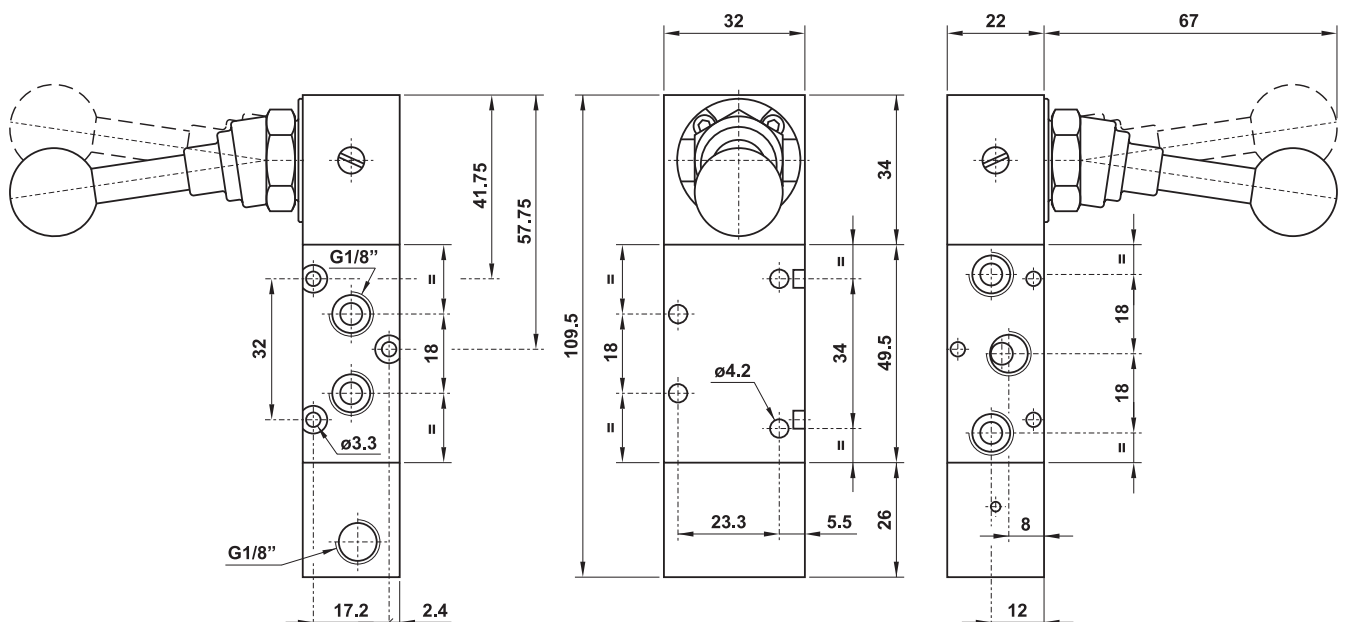
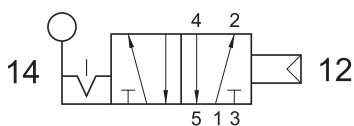
3/2 1/8" 90° lever - separate pneumatically piloted return



521 CL90

5/2 1/8" leva 90° - ritorno a comando pneumatico

5/2 1/8" 90° lever - separate pneumatically piloted return

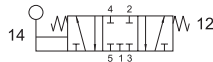


valvole ad azionamento manuale

manually actuated valves



5213C ML90 centri chiusi
closed centres



5213A ML90 centri aperti
open centres

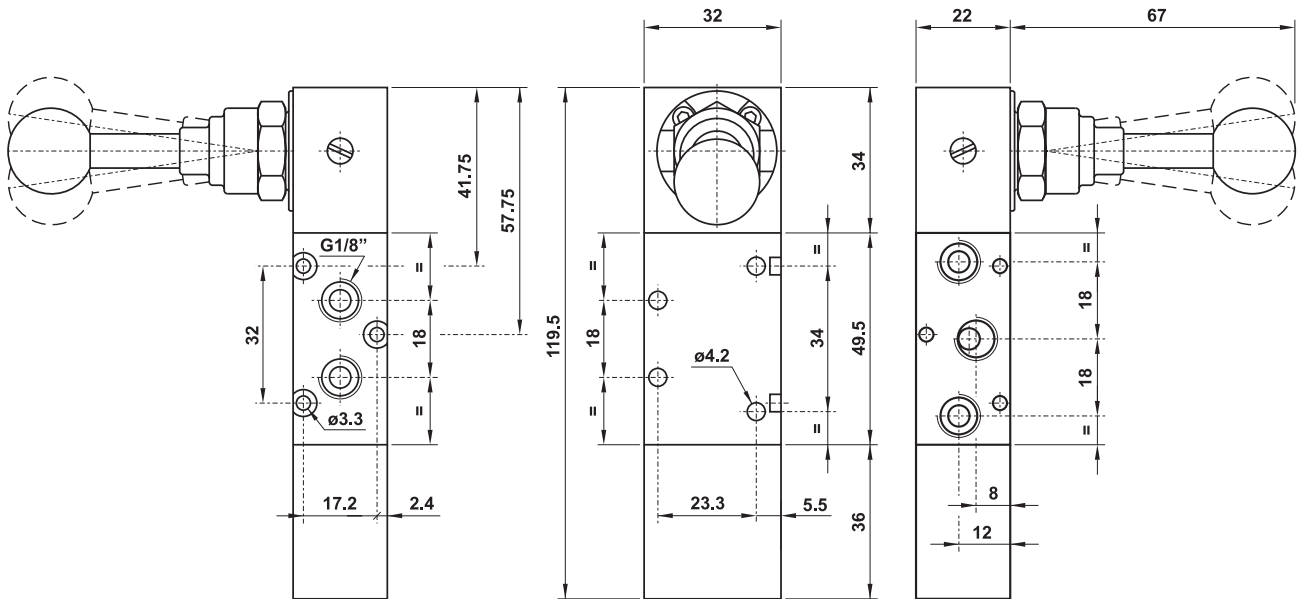


5213P ML90 centri in pressione
pressurized centres

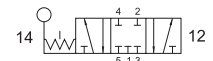


5/3 1/8" leva 90° - ritorno al centro

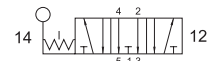
5/3 1/8" 90° lever - spring return to centre



5213C LL90 centri chiusi
closed centres



5213A LL90 centri aperti
open centres

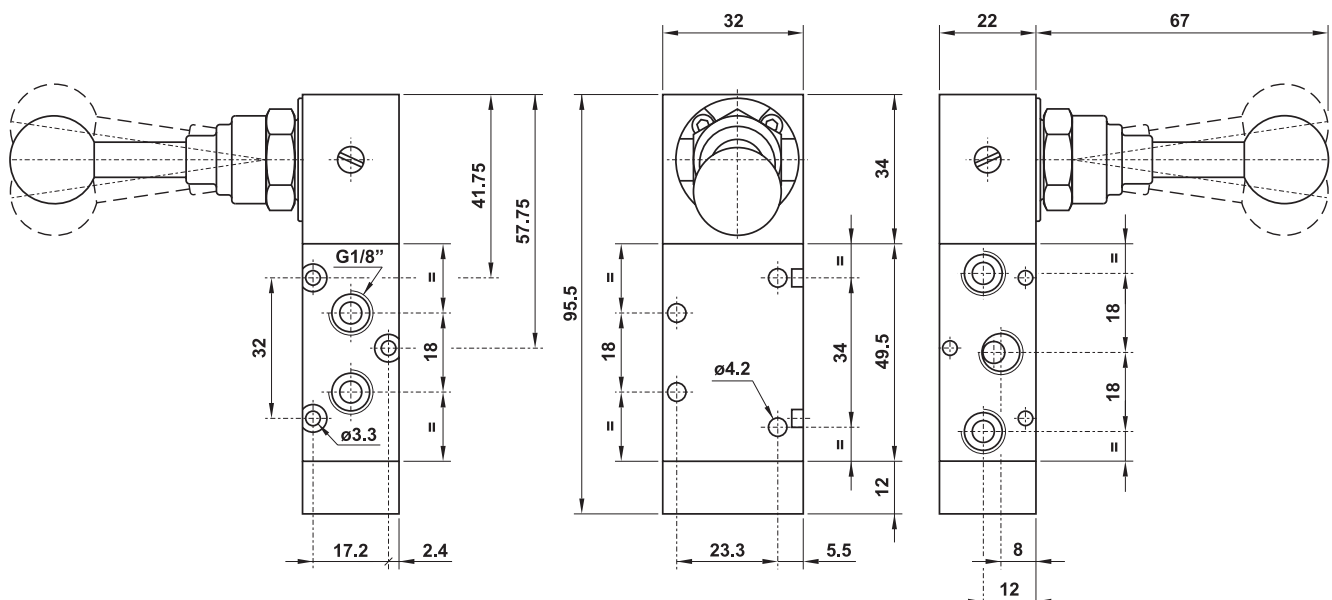


5213P LL90 centri in pressione
pressurized centres



5/3 1/8" leva 90° - tre posizioni stabili

5/3 1/8" 90° lever - three detented positions



valvole ad azionamento manuale

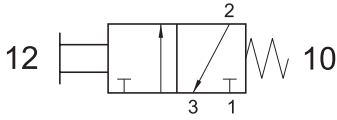
manually actuated valves



321 MT

3/2 1/8" tiretto - ritorno a molla

3/2 1/8" push/pull with spring return

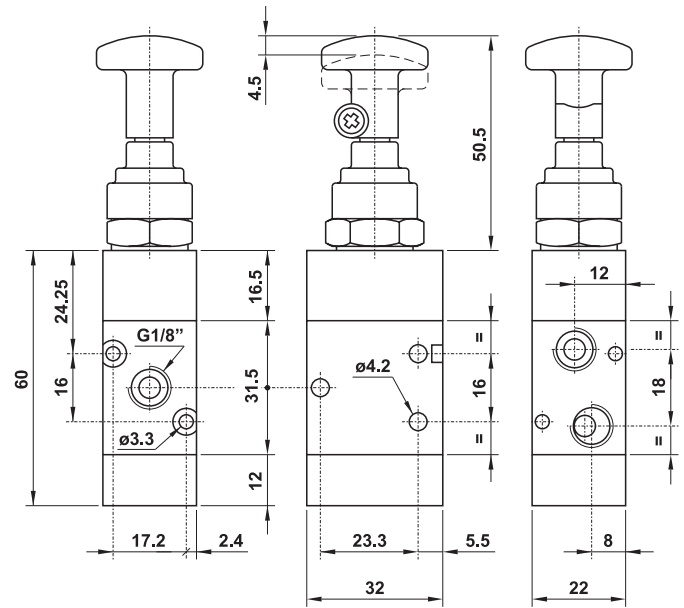


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

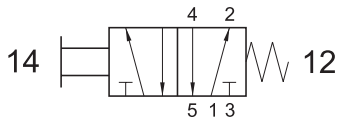
On request RED push button



521 MT

5/2 1/8" tiretto - ritorno a molla

5/2 1/8" push/pull with spring return

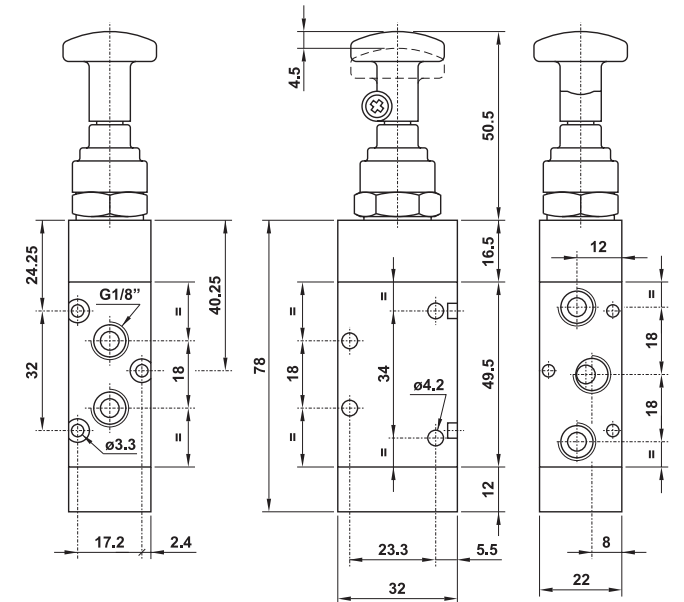


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

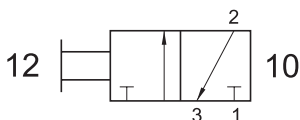
On request RED push button



321 TT

3/2 1/8" tiretto bistabile

3/2 1/8" detented push/pull

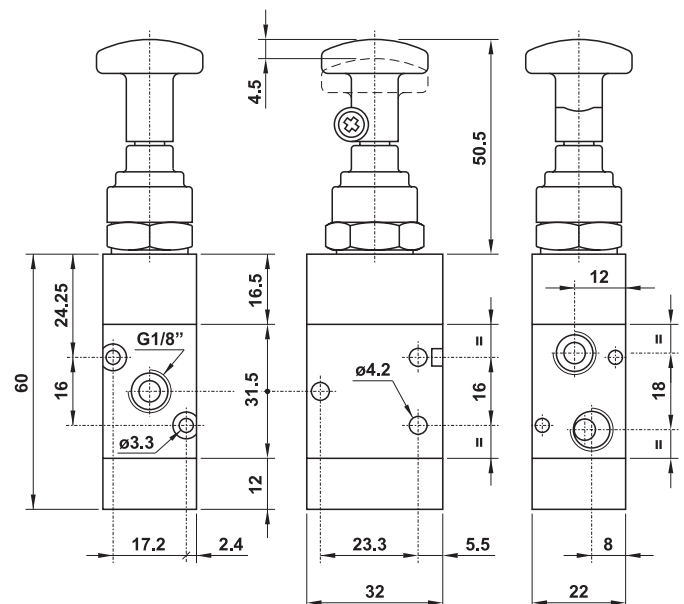


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

On request RED push button



valvole ad azionamento manuale

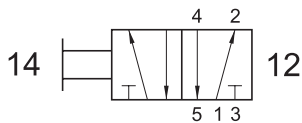
manually actuated valves



521 TT

5/2 1/8" tiretto bistabile

5/2 1/8" detented push/pull

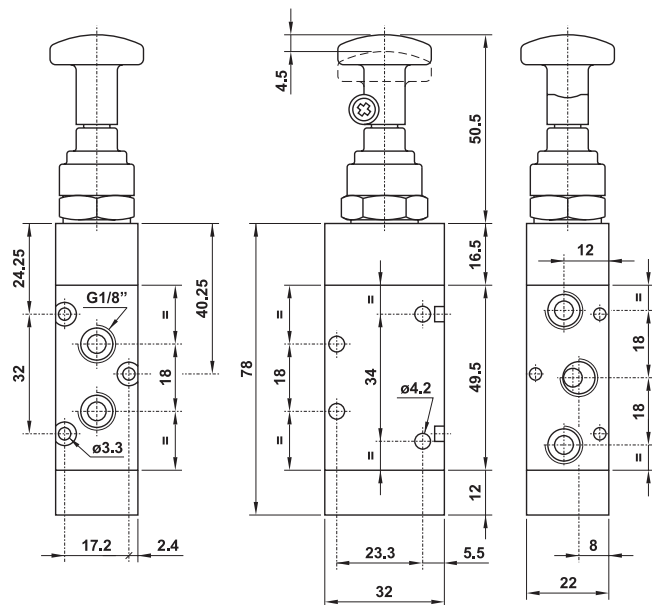


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

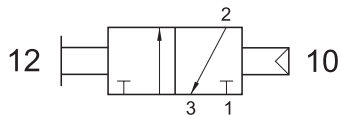
On request RED push button



321 CT

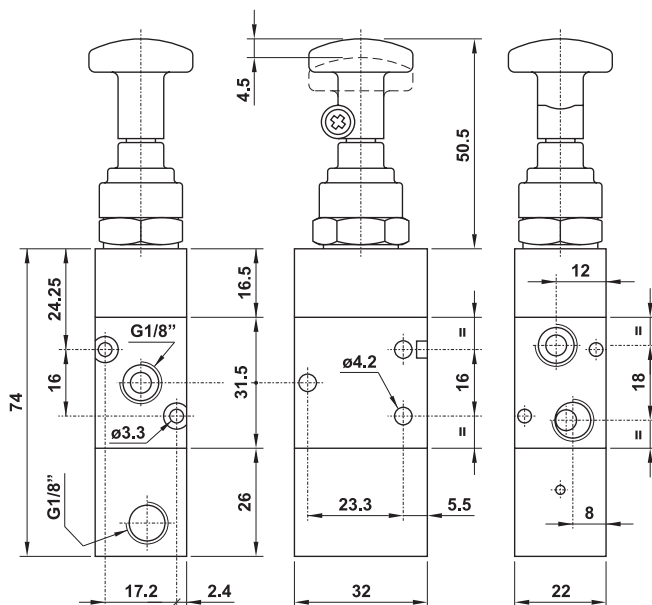
3/2 1/8" tiretto sganciato - ritorno a comando pneumatico

3/2 1/8" push/pull with separate pneumatically piloted return



Dopo aver premuto il tiretto, il ritorno si effettua soltanto a comando pneumatico.

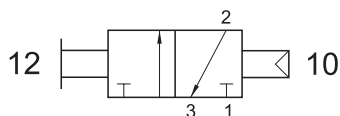
The return can be done only with pneumatic pilote signal.



321 CTT

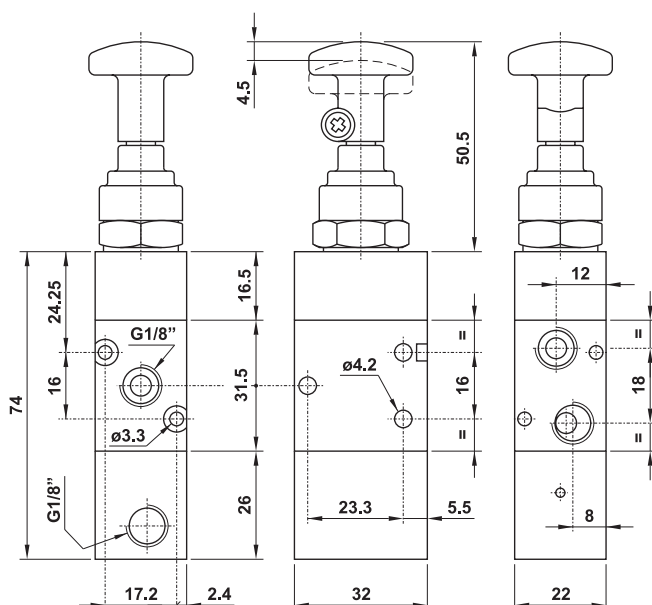
3/2 1/8" tiretto agganciato - ritorno a comando pneumatico

3/2 1/8" detented push/pull with separate pneumatically piloted return



Dopo aver premuto il tiretto, il ritorno può essere effettuato inviando un segnale pneumatico o tirando il tiretto.

The return can be done with pneumatic pilote signal or by pulling the knob.



valvole ad azionamento manuale

manually actuated valves



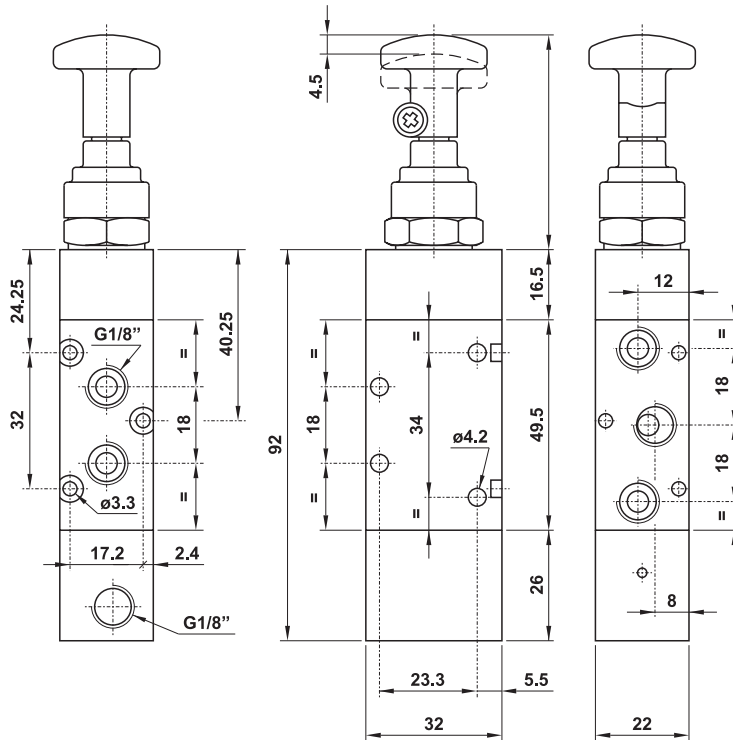
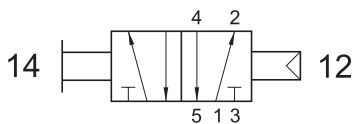
521 CT

5/2 1/8" tiretto sganciato - ritorno a comando pneumatico

5/2 1/8" push/pull with separate pneumatically piloted return

Dopo aver premuto il tiretto, il ritorno si effettua soltanto a comando pneumatico.

The return can be done only with pneumatic piloted signal.



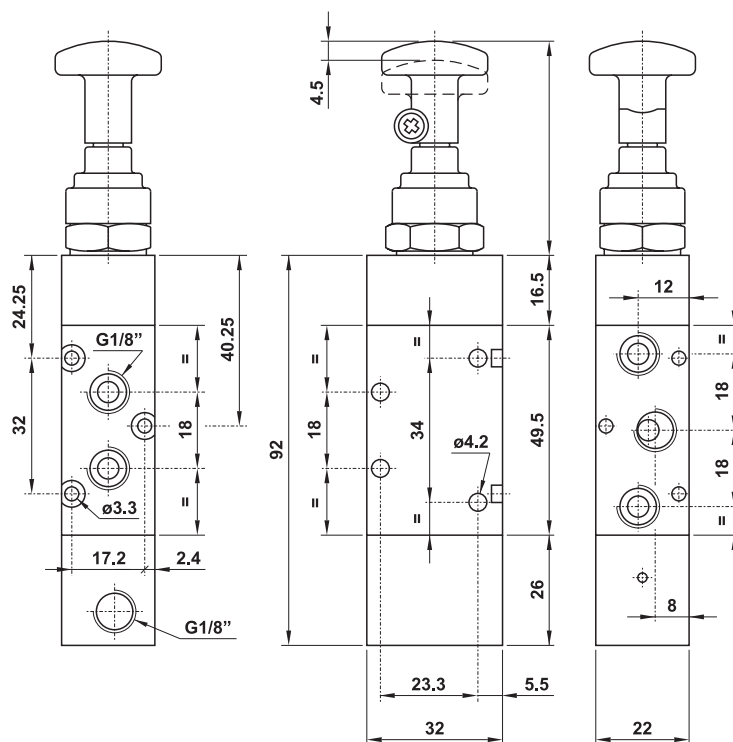
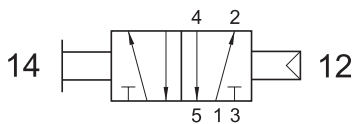
521 CTT

5/2 1/8" tiretto agganciato - ritorno a comando pneumatico

5/2 1/8" detented push/pull with separate pneumatically piloted return

Dopo aver premuto il tiretto, il ritorno può essere effettuato inviando un segnale pneumatico o tirando il tiretto.

The return can be done with pneumatic piloted signal or by pulling the knob.



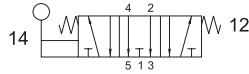
valvole ad azionamento manuale

manually actuated valves

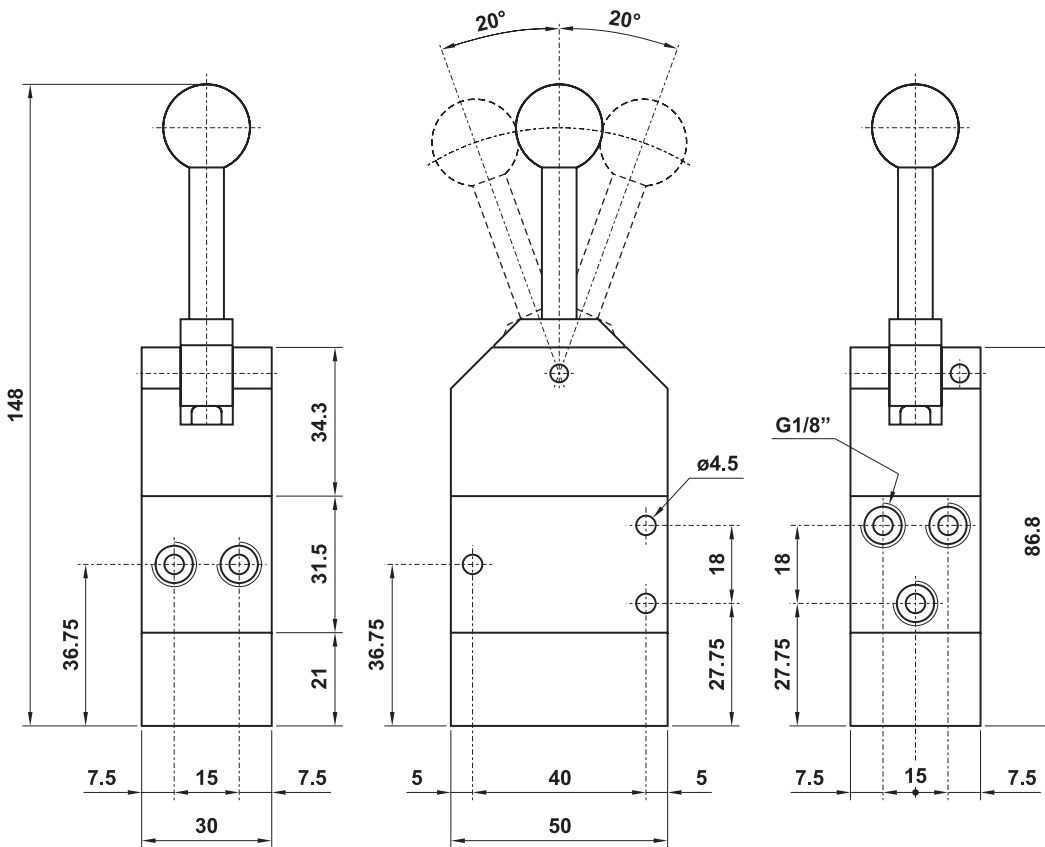


5213A ML

centri aperti
open centres



5/3 1/8" leva in testa - ritorno al centro
5/3 1/8" top lever - spring return to centre

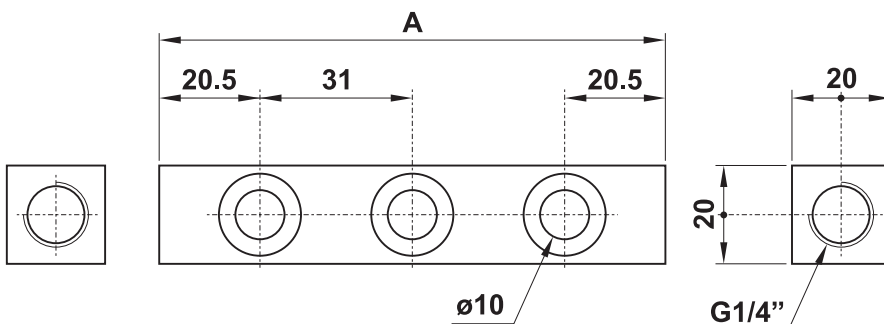


- Collettori per valvole 5213A ML
Collectors for valves 5213A ML

- Alimentazione unica
Only one air supply port



modello model	nr. posizioni no. stations	A
00.136.3	2	72
00.137.3	3	103
00.138.3	4	134
00.139.3	5	165



Ogni pezzo è venduto in kit con le viti e le guarnizioni necessarie al suo assemblaggio.
It is sold in kit with all necessary screws and sealings for installation.

valvole ad azionamento manuale

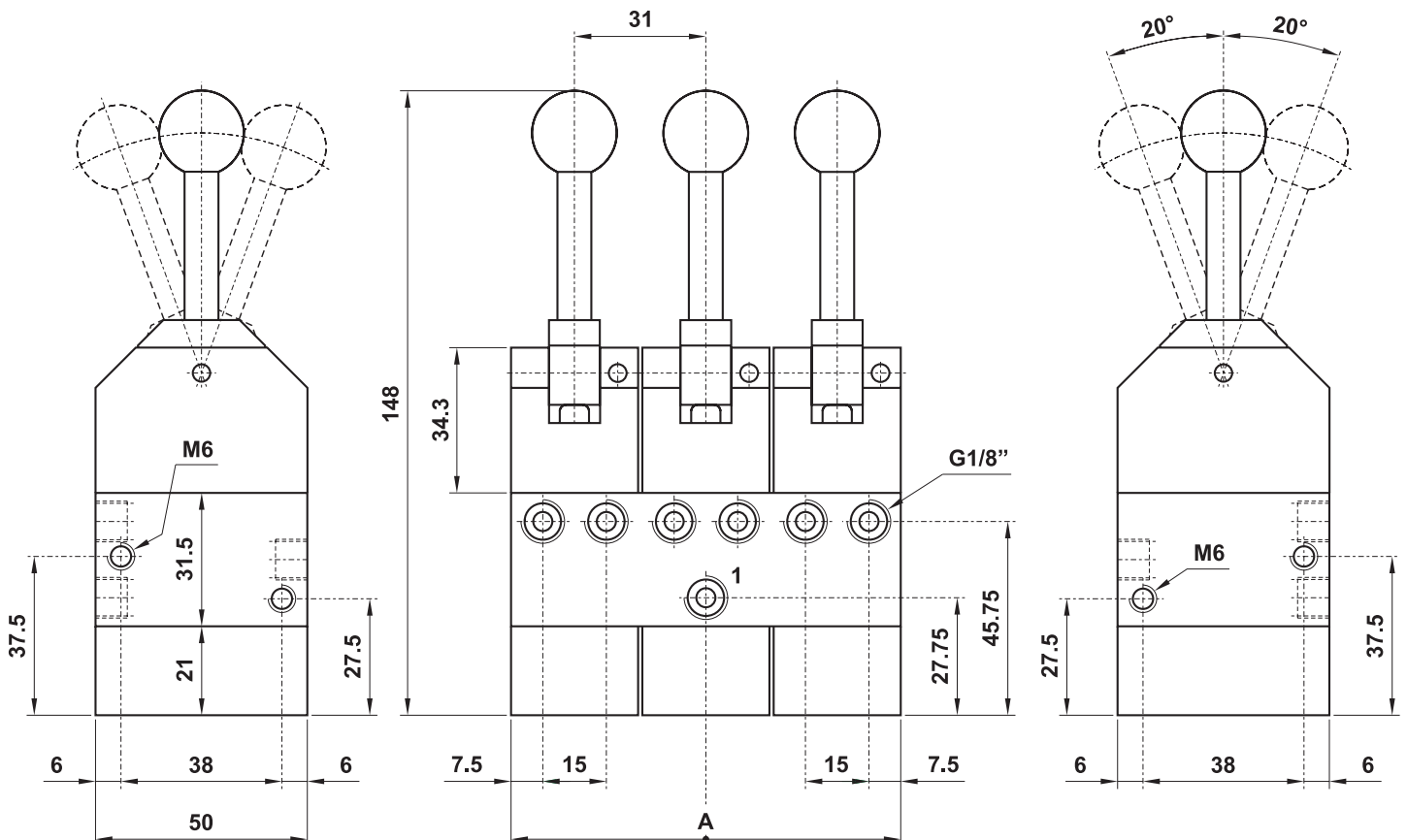
manually actuated valves



- Blocchi di valvole 5/3 centri aperti, leva in testa, ritorno al centro
Blocks of valves 5/3 open centres, top lever, spring return to centre
- Alimentazione unica
Only one air supply port



modello <i>model</i>	nr. posizioni <i>no. stations</i>	A
00.163.4	2	61
00.160.4	3	92
00.164.4	4	123



valvole ad azionamento manuale

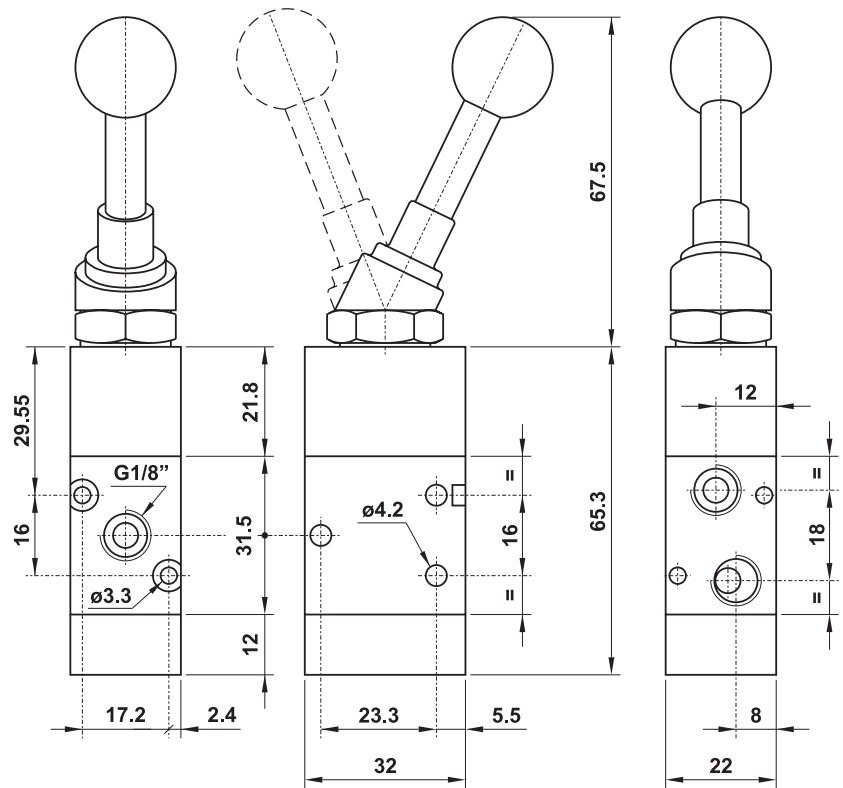
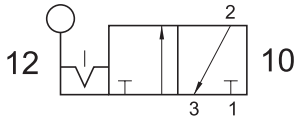
manually actuated valves



321 LL

3/2 1/8" leva in testa bistabile

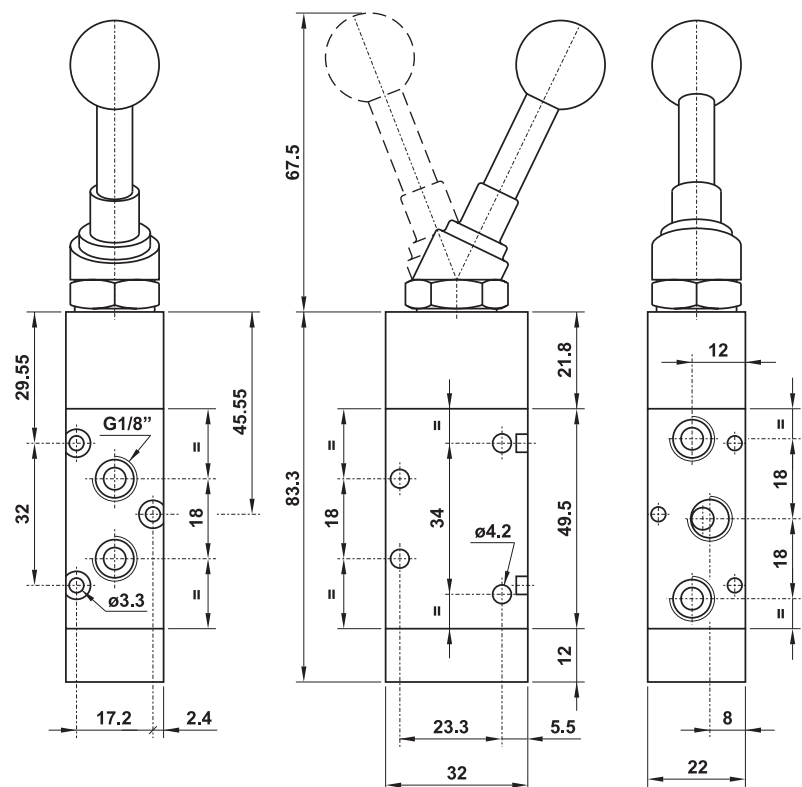
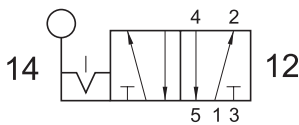
3/2 1/8" bi-stable top lever



521 LL

5/2 1/8" leva in testa bistabile

5/2 1/8" bi-stable top lever



valvole ad azionamento manuale

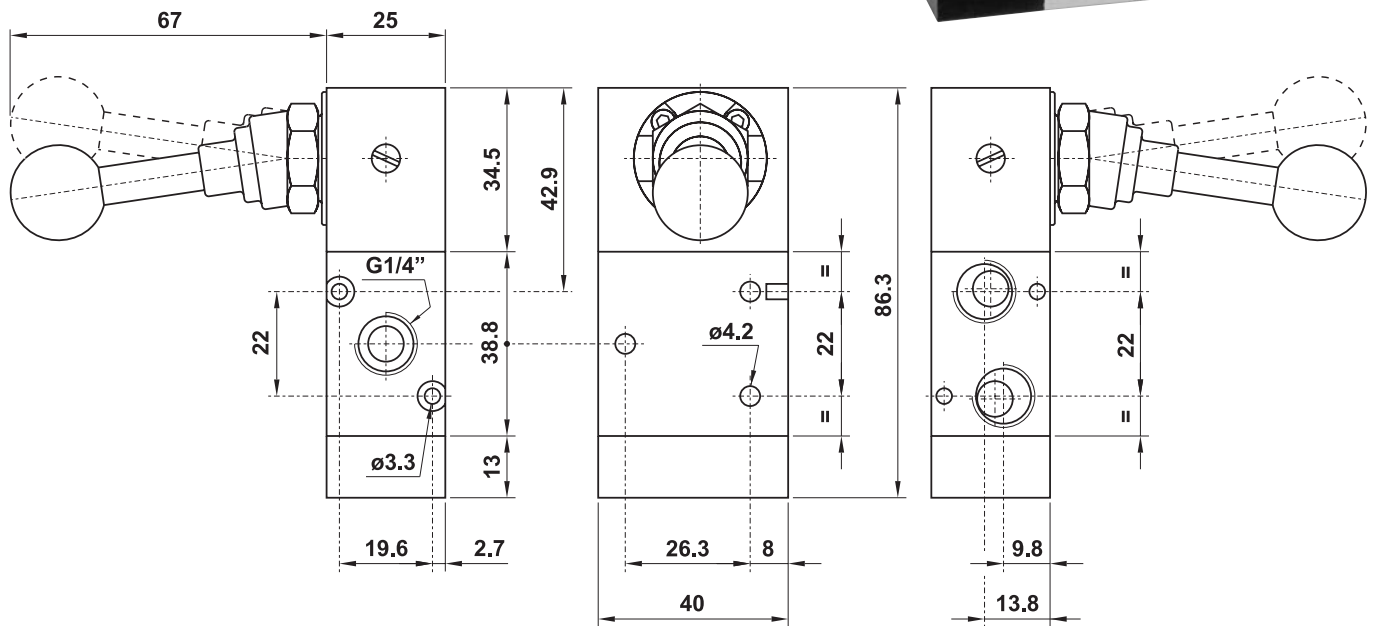
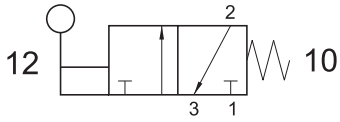
manually actuated valves



322 ML90

3/2 1/4" leva 90° - ritorno a molla

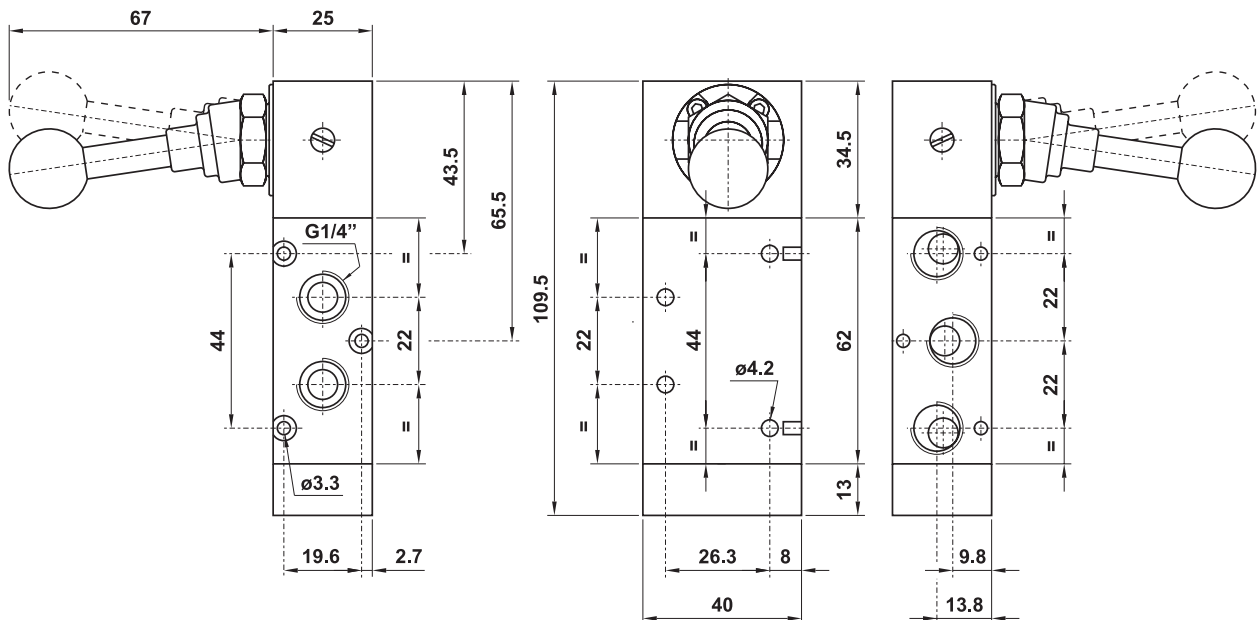
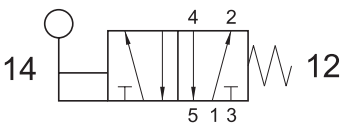
3/2 1/4" 90° lever - spring return



522 ML90

5/2 1/4" leva 90° - ritorno a molla

5/2 1/4" 90° lever - spring return



valvole ad azionamento manuale

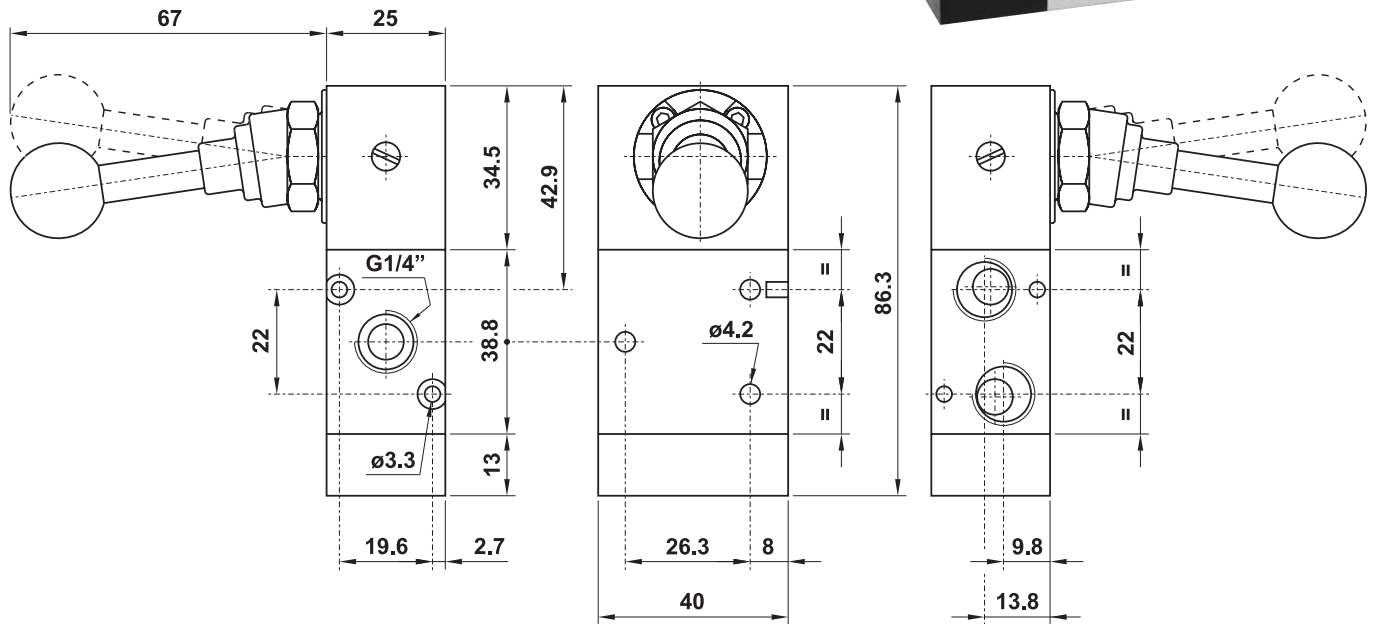
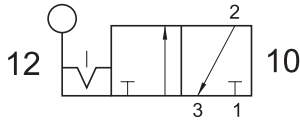
manually actuated valves



322 LL90

3/2 1/4" leva 90° bistabile

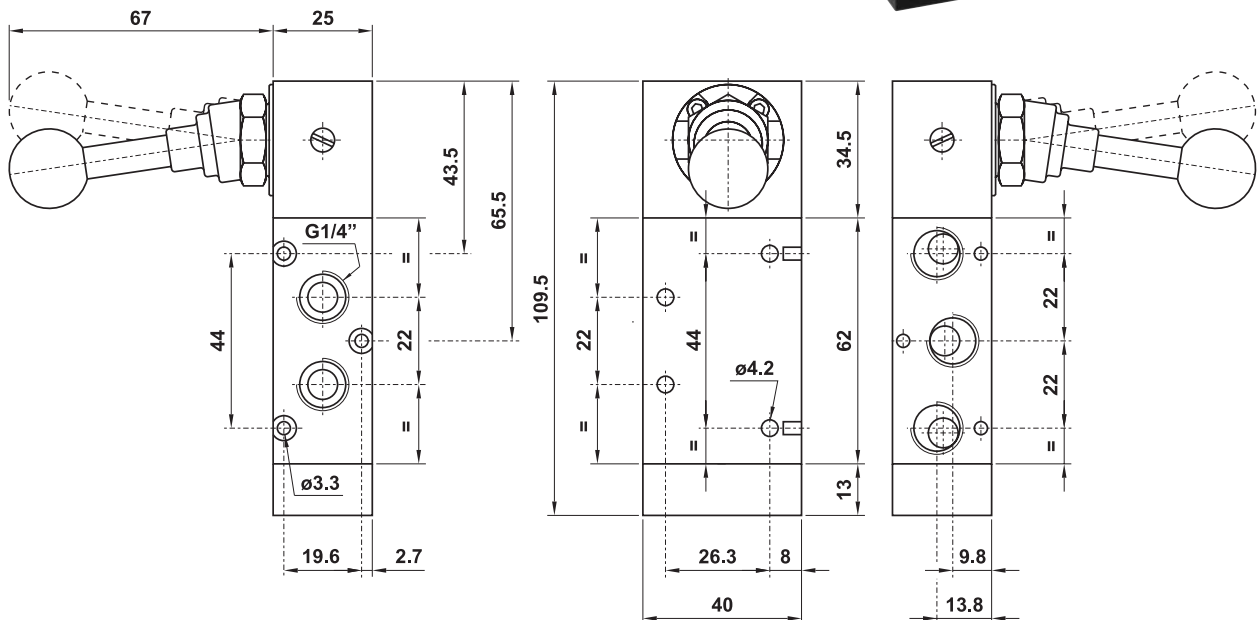
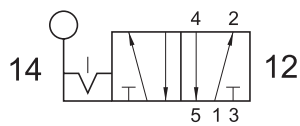
3/2 1/4" 90° bi-stable lever



522 LL90

5/2 1/4" leva 90° bistabile

5/2 1/4" 90° bi-stable lever



valvole ad azionamento manuale

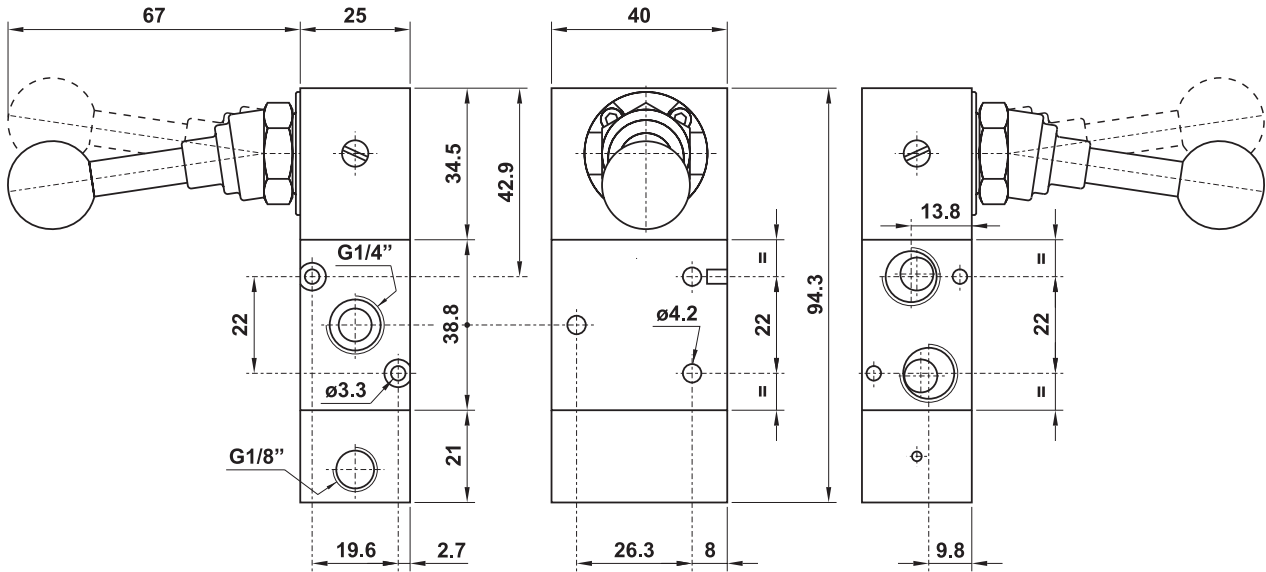
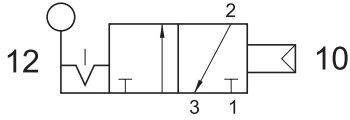
manually actuated valves



322 CL90

3/2 1/4" leva 90° - ritorno a comando pneumatico

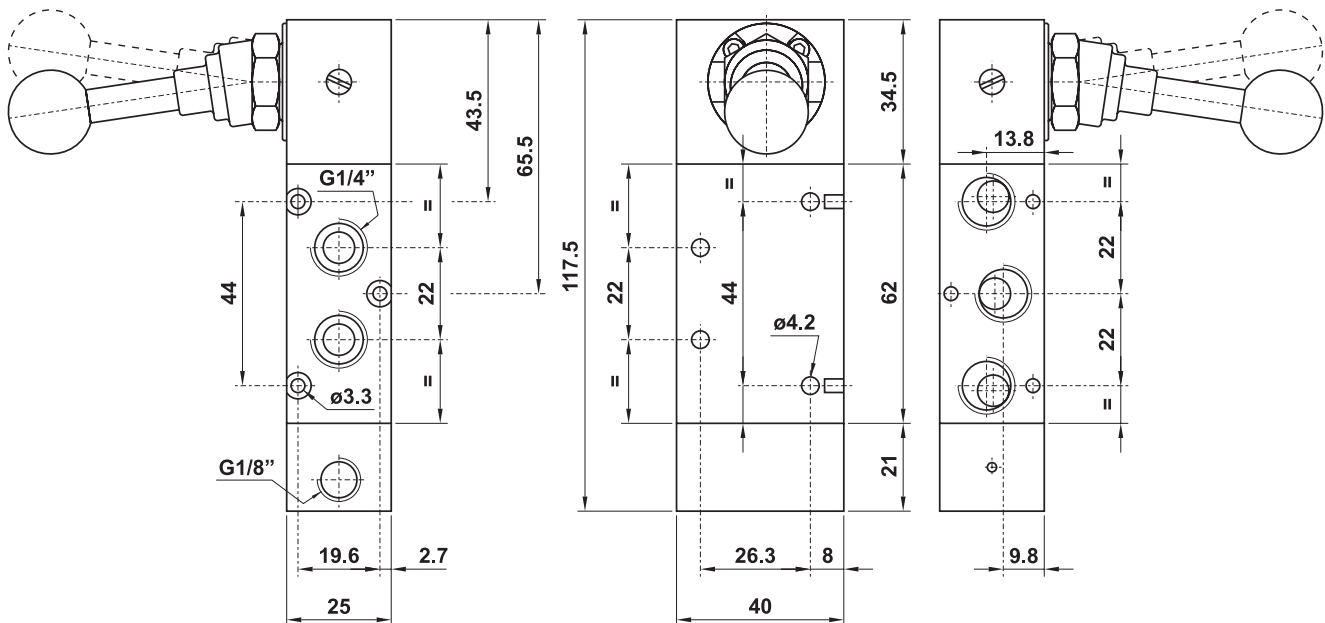
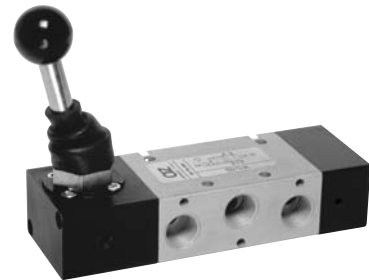
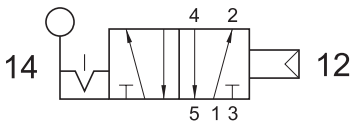
3/2 1/4" 90° lever - separate pneumatically piloted return



522 CL90

5/2 1/4" leva 90° - ritorno a comando pneumatico

5/2 1/4" 90° lever - separate pneumatically piloted return



valvole ad azionamento manuale

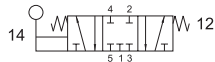
manually actuated valves



5223C ML90 centri chiusi
closed centres

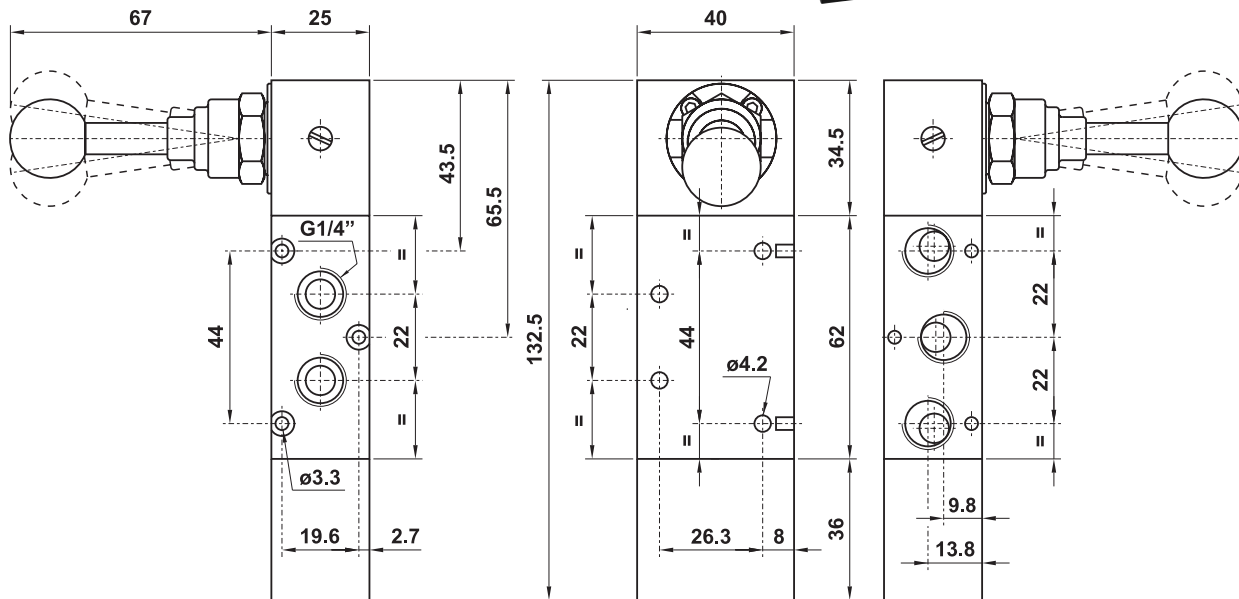
5223A ML90 centri aperti
open centres

5223P ML90 centri in pressione
pressurized centres



5/3 1/4" leva 90° - ritorno al centro

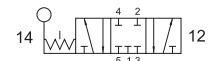
5/3 1/4" 90° lever - spring return to centre



5223C LL90 centri chiusi
closed centres

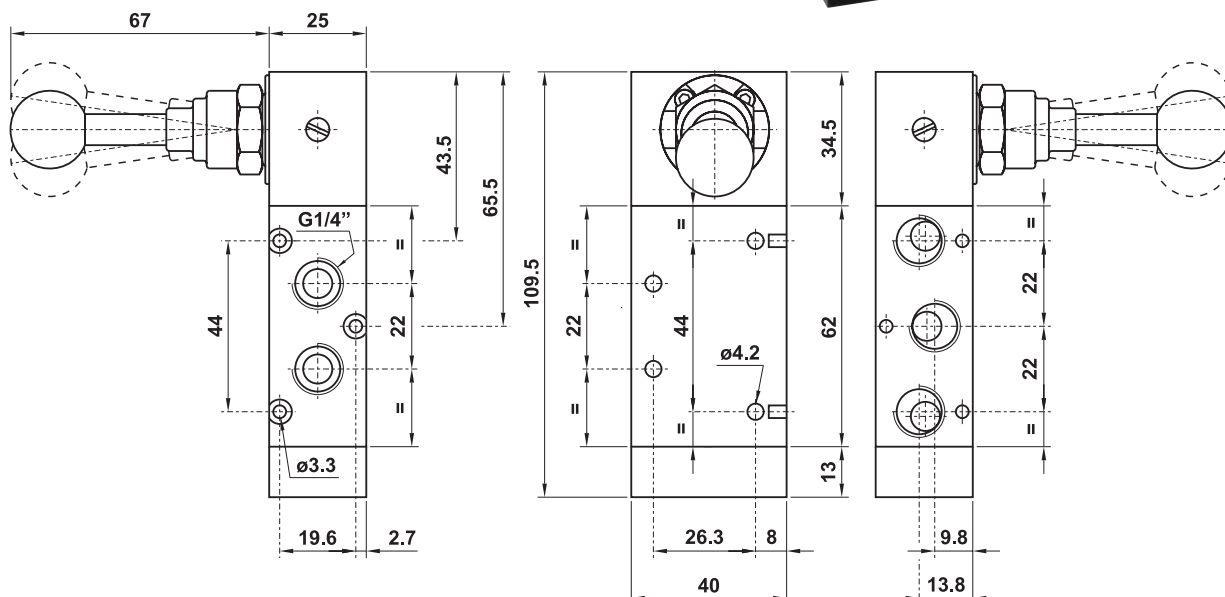
5223A LL90 centri aperti
open centres

5223P LL90 centri in pressione
pressurized centres



5/3 1/4" leva 90° - tre posizioni stabili

5/3 1/4" 90° lever - three detented positions



valvole ad azionamento manuale

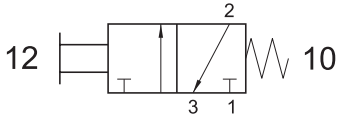
manually actuated valves



322 MT

3/2 1/4" tiretto - ritorno a molla

3/2 1/4" push/pull with spring return

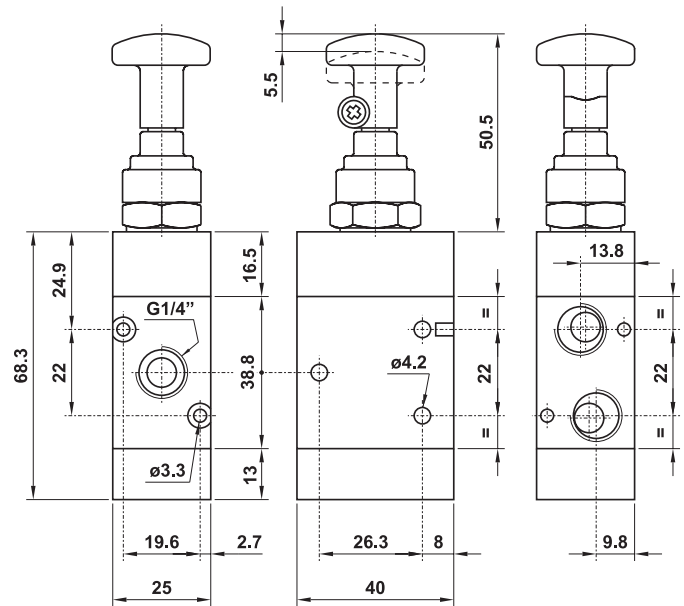


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

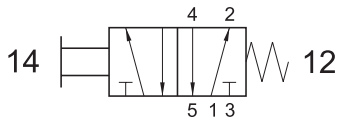
On request RED push button



522 MT

5/2 1/4" tiretto - ritorno a molla

5/2 1/4" push/pull with spring return

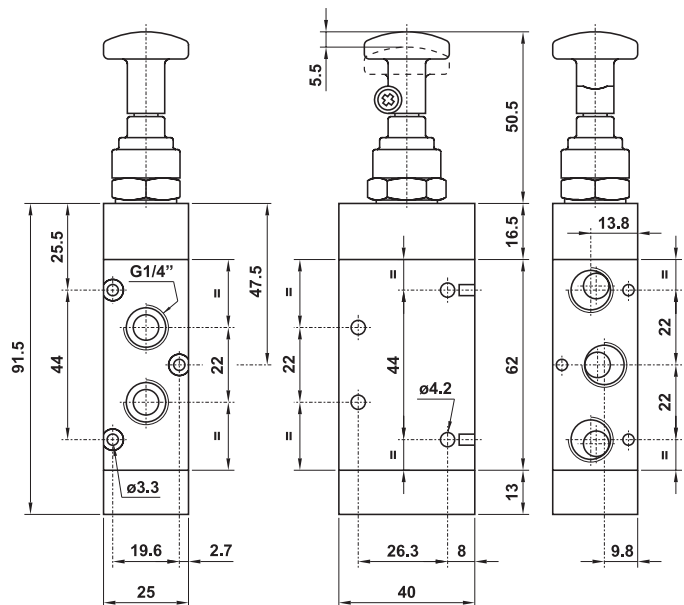


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

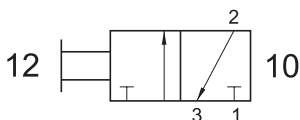
On request RED push button



322 TT

3/2 1/4" tiretto - bistabile

3/2 1/4" detented push/pull

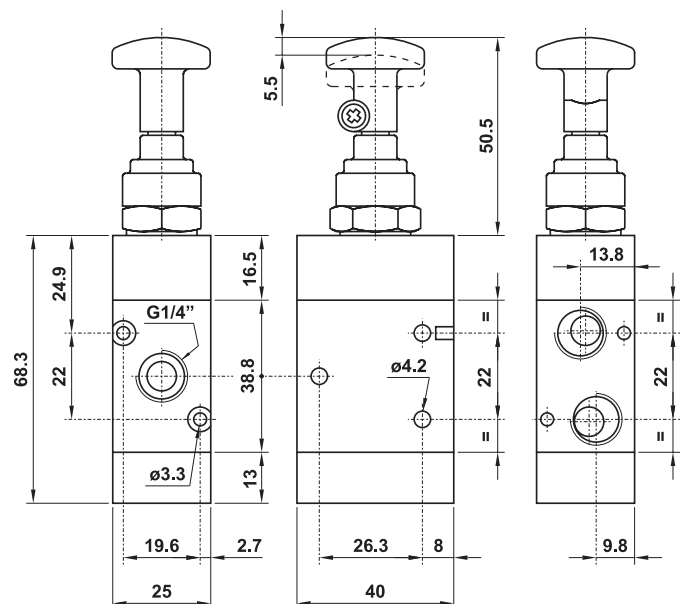


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

On request RED push button



valvole ad azionamento manuale

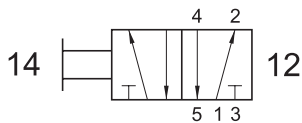
manually actuated valves



522 TT

5/2 1/4" tiretto - bistabile

5/2 1/4" detented push/pull

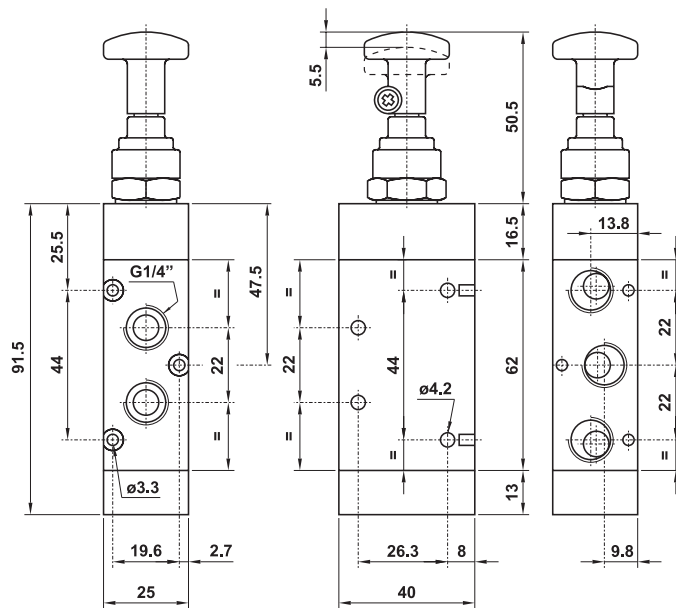


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

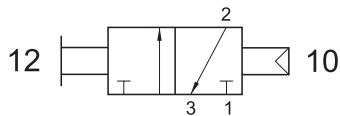
On request RED push button



322 CT

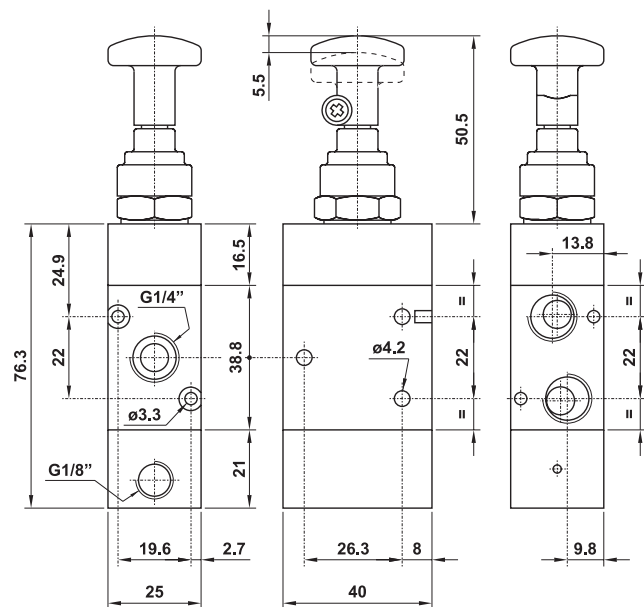
3/2 1/4" tiretto sganciato - ritorno a comando pneumatico

3/2 1/4" push/pull with separate pneumatically piloted return



Dopo aver premuto il tiretto, il ritorno si effettua soltanto a comando pneumatico.

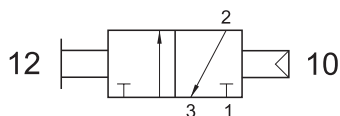
The return can be done only with pneumatic pilote signal.



322 CTT

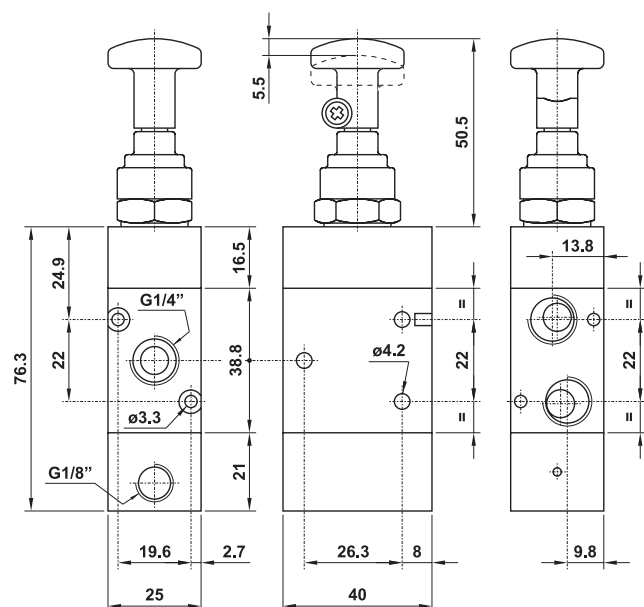
3/2 1/4" tiretto agganciato - ritorno a comando pneumatico

3/2 1/4" detented push/pull with separate pneumatically piloted return



Dopo aver premuto il tiretto, il ritorno può essere effettuato inviando un segnale pneumatico o tirando il tiretto.

The return can be done with pneumatic pilote signal or by pulling the knob.



valvole ad azionamento manuale

manually actuated valves



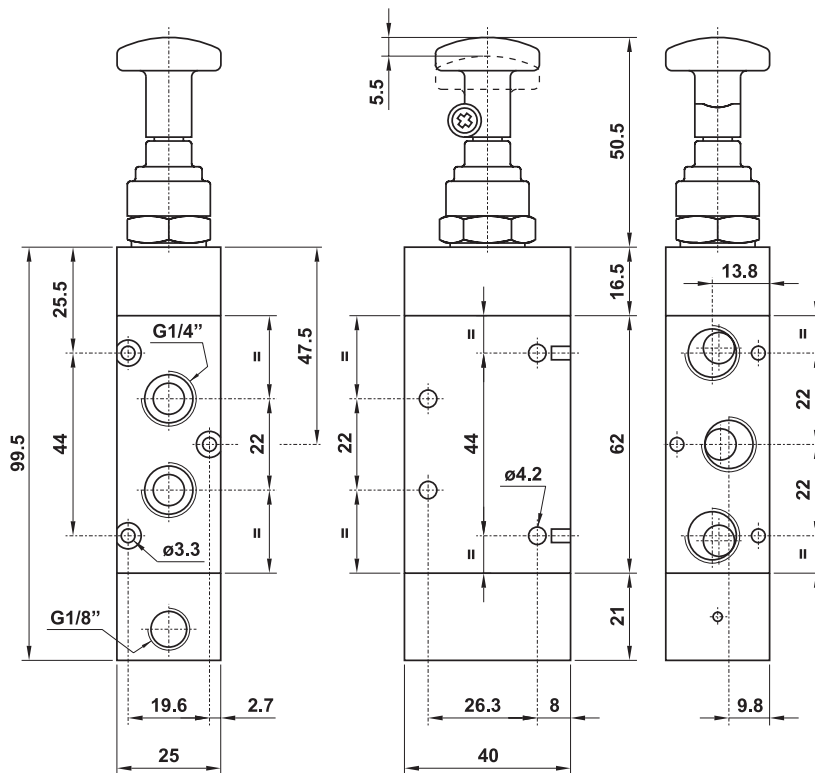
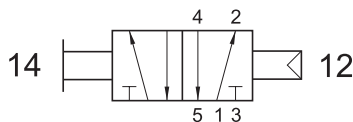
522 CT

5/2 1/4" tiretto sganciato - ritorno a comando pneumatico

5/2 1/4" push/pull with separate pneumatically piloted return

Dopo aver premuto il tiretto, il ritorno si effettua soltanto a comando pneumatico.

The return can be done only with pneumatic pilot signal.



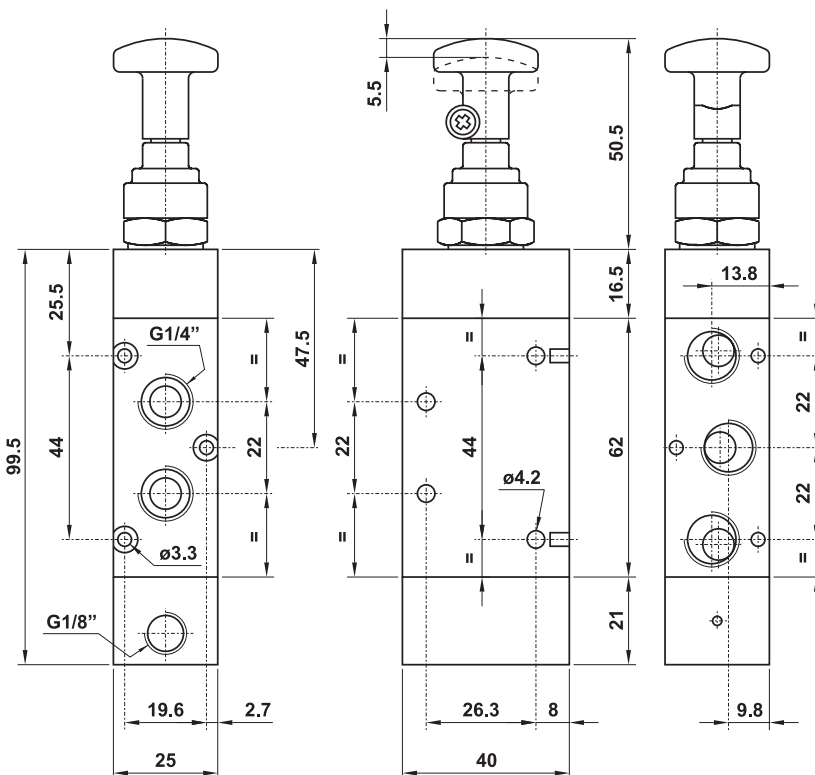
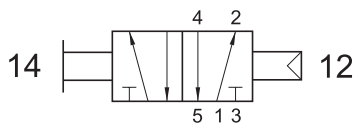
522 CTT

5/2 1/4" tiretto agganciato - ritorno a comando pneumatico

5/2 1/4" detented push/pull with separate pneumatically piloted return

Dopo aver premuto il tiretto, il ritorno può essere effettuato inviando un segnale pneumatico o tirando il tiretto.

The return can be done with pneumatic pilot signal or by pulling the knob.



valvole ad azionamento manuale

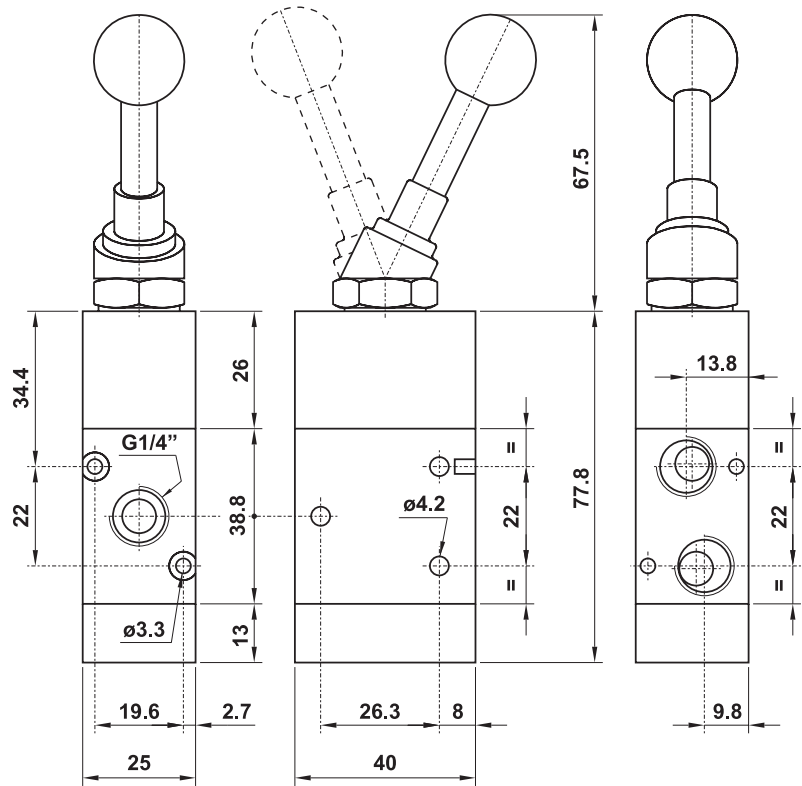
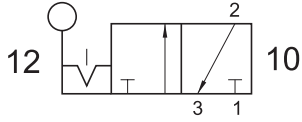
manually actuated valves



322 LL

3/2 1/4" leva in testa - bistabile

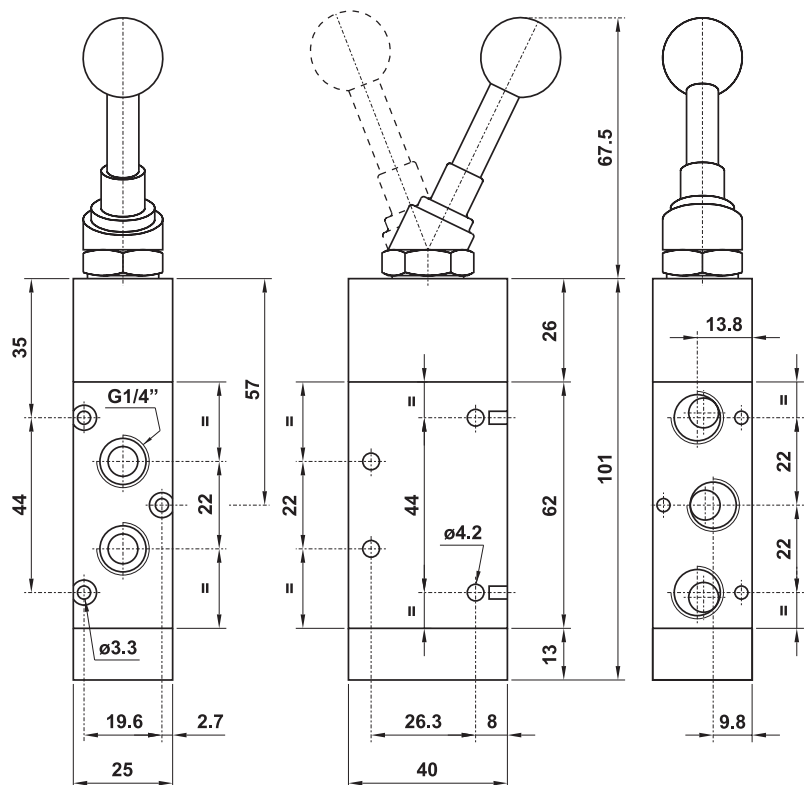
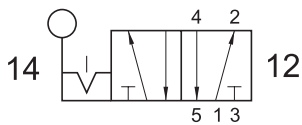
3/2 1/4" bi-stable top lever



522 LL

5/2 1/4" leva in testa - bistabile

5/2 1/4" bi-stable top lever



valvole ad azionamento manuale

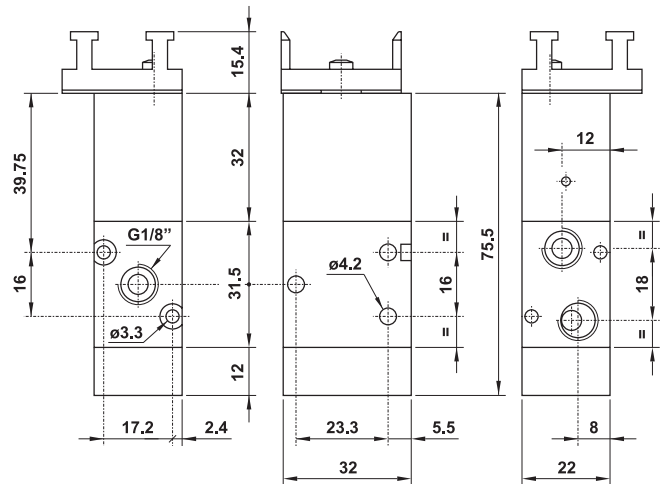
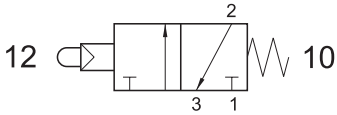
manually actuated valves



321 MB

3/2 1/8" NC pulsante servopilotato con interfaccia per attuatore a pannello - ritorno a molla

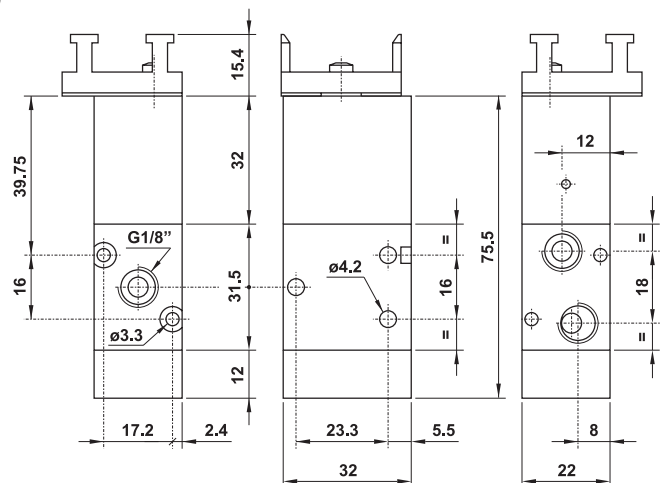
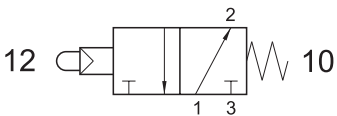
3/2 1/8" NC servo-piloted tappet with actuator adaptor for panel mounting - spring return



321 MBA

3/2 1/8" NA pulsante servopilotato con interfaccia per attuatore a pannello - ritorno a molla

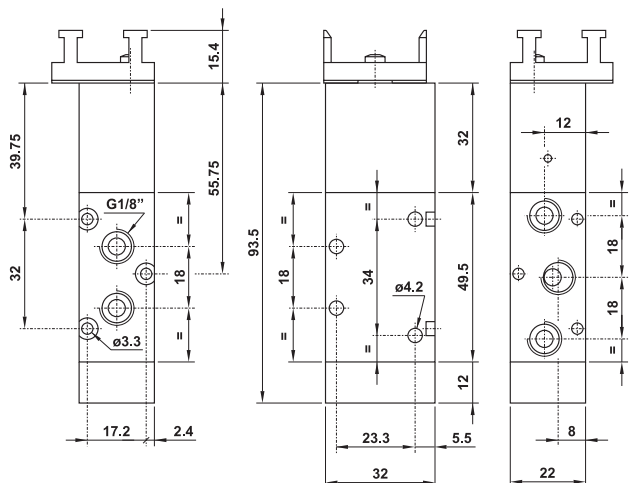
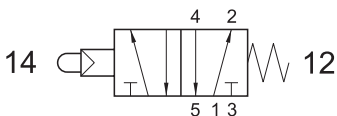
3/2 1/8" NO servo-piloted tappet with actuator adaptor for panel mounting - spring return



521 MB

5/2 1/8" pulsante servopilotato con interfaccia per attuatore a pannello - ritorno a molla

5/2 1/8" servo-piloted tappet with actuator adaptor for panel mounting - spring return



valvole ad azionamento manuale

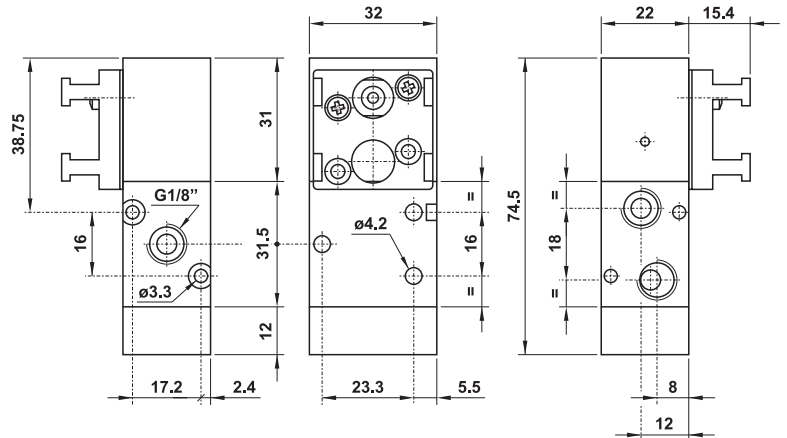
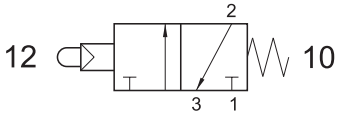
manually actuated valves



321 MB90

3/2 1/8" NC pulsante servopilotato 90° con interfaccia per attuatore a pannello - ritorno a molla

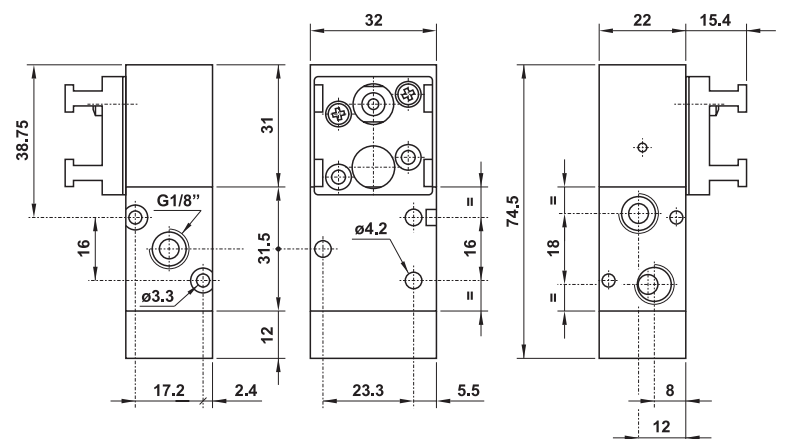
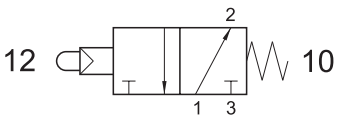
3/2 1/8" NC servo-piloted tappet with 90° actuator adaptor for panel mounting - spring return



321 MBA90

3/2 1/8" NA pulsante servopilotato 90° con interfaccia per attuatore a pannello - ritorno a molla

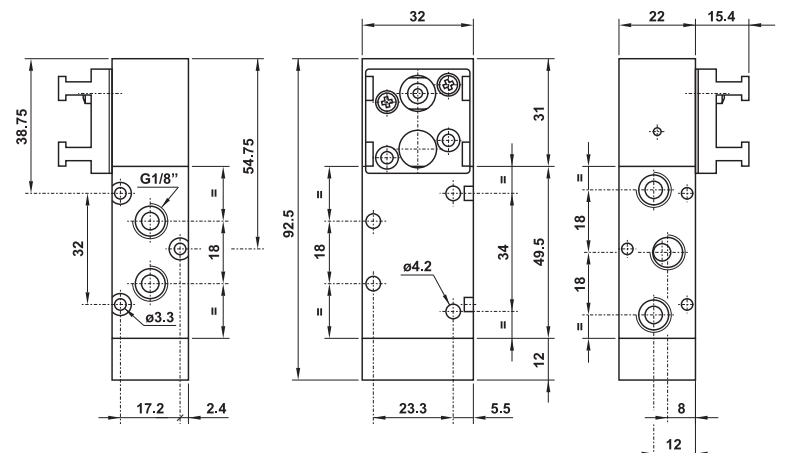
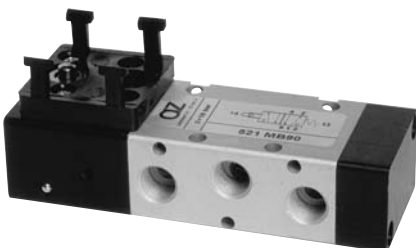
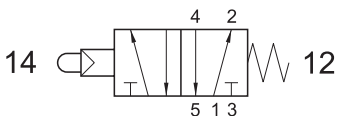
3/2 1/8" NO servo-piloted tappet with 90° actuator adaptor for panel mounting - spring return



521 MB90

5/2 1/8" pulsante servopilotato con interfaccia per attuatore a pannello - ritorno a molla

5/2 1/8" servo-piloted tappet with 90° actuator adaptor for panel mounting - spring return



valvole ad azionamento manuale

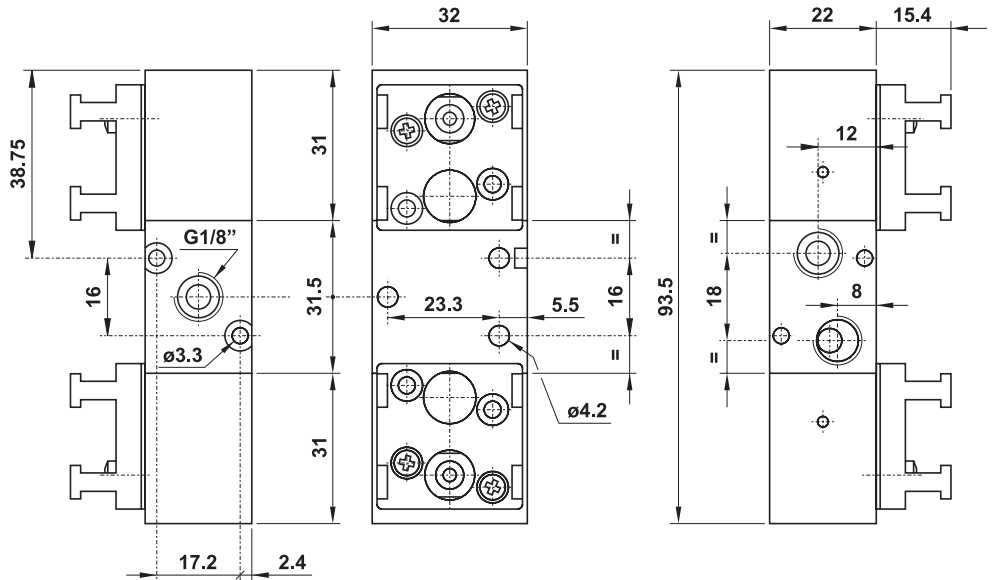
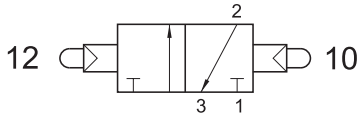
manually actuated valves



321 BB90

3/2 1/8" doppio pulsante servopilotato 90° con interfaccia per attuatore a pannello

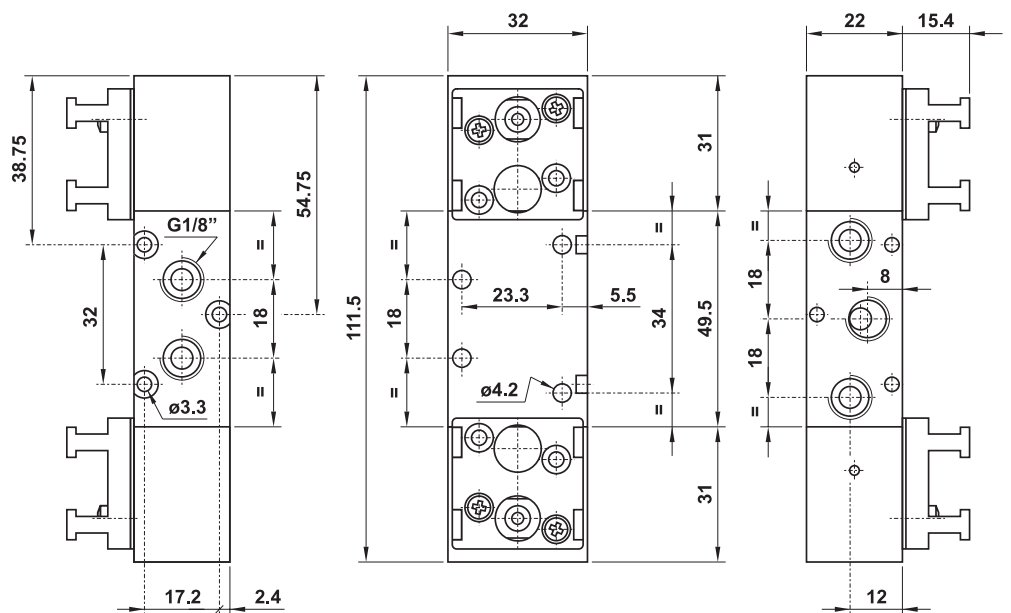
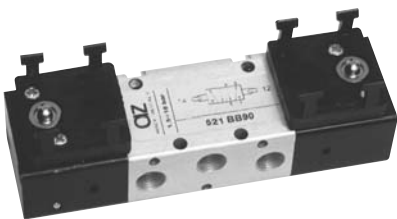
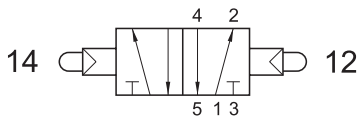
3/2 1/8" double servo-piloted tappet with 90° actuator adaptor for panel mounting



521 BB90

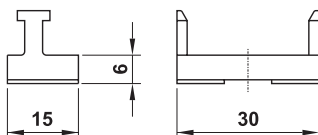
5/2 1/8" doppio pulsante servopilotato 90° con interfaccia per attuatore a pannello

5/2 1/8" double servo-piloted tappet with 90° actuator adaptor for panel mounting



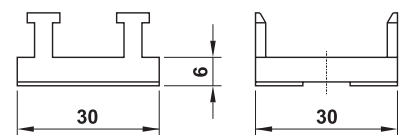
08.017.2

interfaccia singola per attuatore a pannello completa di viti
single adaptor for panel mounting actuator, complete with fixing screws



08.015.2

interfaccia doppia per attuatore a pannello completa di viti
double adaptor for panel mounting actuator, complete with fixing screws



attuatori da pannello

actuators for panel mounting



pulsante protetto protected push button

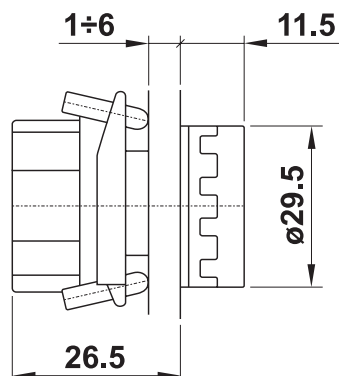
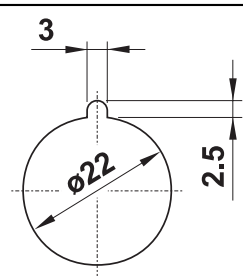
codice code	colori standard standard colours
RM 010	ROSSO, NERO e BIANCO (forniti assieme nel kit) red, black and white (supplied in kit)

- I seguenti colori sono disponibili ordinandoli in aggiunta al kit standard
The following colours are available as an alternative and must be ordered separately

codice code	colore colour
P 22804 V	VERDE [green]
P 22804 G	GIALLO [yellow]
P 22804 A	AZZURRO [light blue]
P 22804 B	BIANCO [white]

Foro per montaggio a pannello
con asola antirotazione

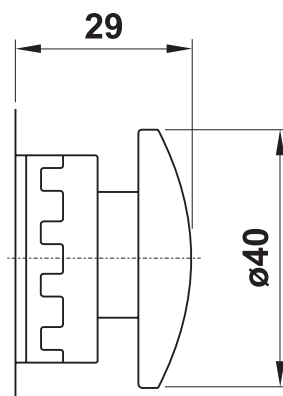
Panel mounting hole with antirotation
feature



fungo ø40

ø40 mushroom

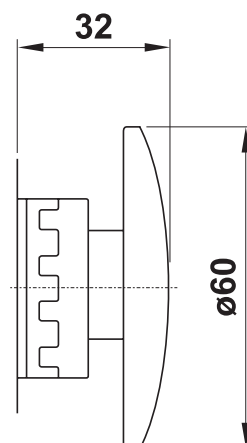
codice code	descrizione description	colore colour
RM 050 R	monostabile assiale [axial mono-stable]	ROSSO [red]
RM 050 N	monostabile assiale [axial mono-stable]	NERO [black]
RM 055 R	oscillante [multi-directional]	ROSSO [red]
RM 055 N	oscillante [multi-directional]	NERO [black]
RM 065 R	sblocco a rotazione [turn to unlock]	ROSSO [red]



fungo ø60

ø60 palm

codice code	descrizione description	colore colour
RM 056 R	oscillante [multi-directional]	ROSSO [red]
RM 066 R	sblocco a rotazione [turn to unlock]	ROSSO [red]



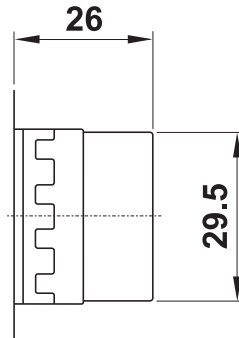
attuatori da pannello

actuators for panel mounting



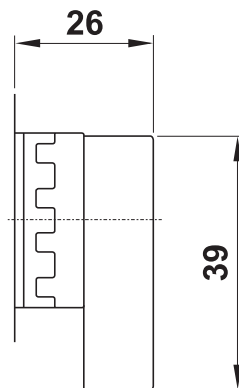
selettore leva corta short lever selector

codice code	colore colour	funzione function
RM 300 N	NERO black	0 1
RM 350 N	NERO black	0 ← 1
RM 313 N	NERO black	2 0 1
RM 383 N	NERO black	2 → 0 ← 1



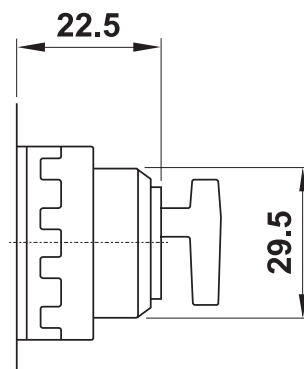
selettore leva lunga long lever selector

codice code	colore colour	funzione function
RM 400 N	NERO black	0 1
RM 450 N	NERO black	0 ← 1
RM 413 N	NERO black	2 0 1
RM 483 N	NERO black	2 → 0 ← 1



selettore a chiave bistabile bi-stable key selector

codice code
RM 200 N

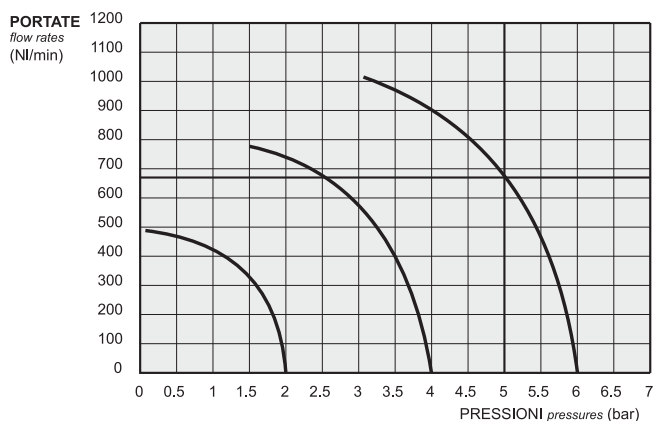


valvole a pedale

pedal valves



- Valvola a spola 5/2 - utilizzo come 3/2 o 2/2 tappando le altre connessioni
5/2 spool valve - it can be used as 3/2 or 2/2 by plugging the unused ports
- Attacchi filettati G1/4" sul corpo (raggruppati posteriormente)
G1/4" threaded ports
- Con o senza protezione (colore: giallo)
With or without yellow protection cover
- Monostabile e bistabile
Mono-stable and bi-stable
- Versione con microvalvola a 3 vie
Version with three way microvalve



Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: alluminio nichelato

Parti interne: ottone OT58

Protezione: materiale plastico antiurto

Materials

Body: aluminium 11S

Spring: stainless steel

Seals: NBR

Spool: nickel plated aluminium

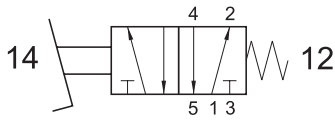
Internal parts: brass OT58

Protection cover: shock resistant plastic material

Diametro nominale <i>Nominal orifice</i>	7.5 mm
Attacchi <i>Ports</i>	G1/4"
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

valvole a pedale

pedal valves



MONOSTABILE (mono-stable)

con protezione
with protection cover

senza protezione
without protection cover

PED 502 M

PEDS 502 M

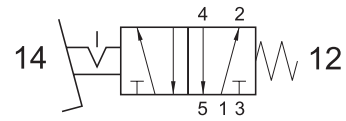
PED 502 S

CON FERMO DI SICUREZZA

Per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

WITH SAFETY FEATURE

To avoid accidental operation the pedal must be fully depressed.



BISTABILE (bi-stable)

con protezione
with protection cover

senza protezione
without protection cover

PED 502 B

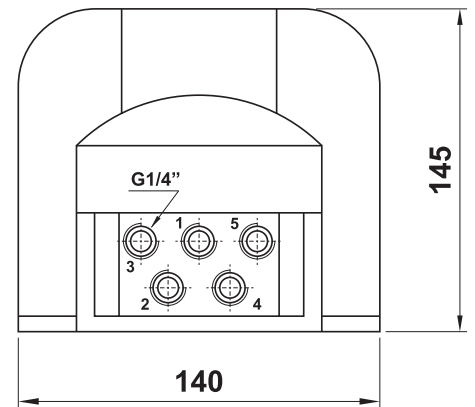
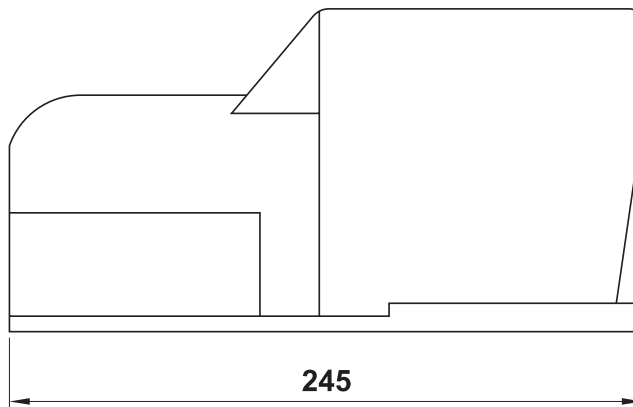
PEDS 502 B



PED 502 M

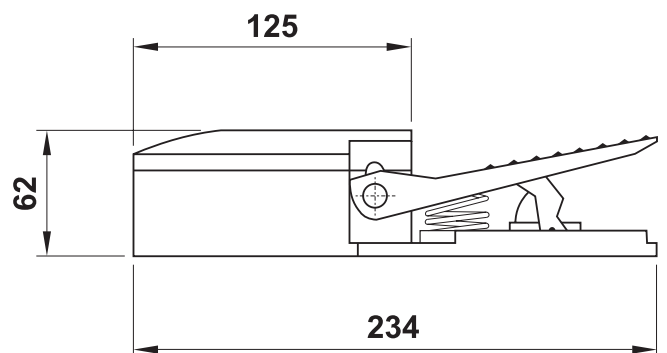
PED 502 S

PED 502 B



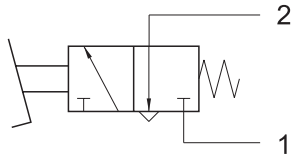
PEDS 502 M

PEDS 502 B



valvole a pedale

pedal valves



MONOSTABILE (mono-stable)

con microvalvola 3/2 NC e protezione
with 3/2 NC microvalve and protection cover

08.197.4

08.207.4

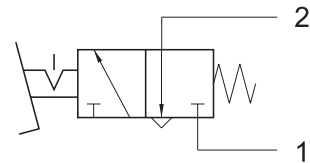
CON FERMO DI SICUREZZA

Per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

WITH SAFETY FEATURE

To avoid accidental operation the pedal must be fully depressed.

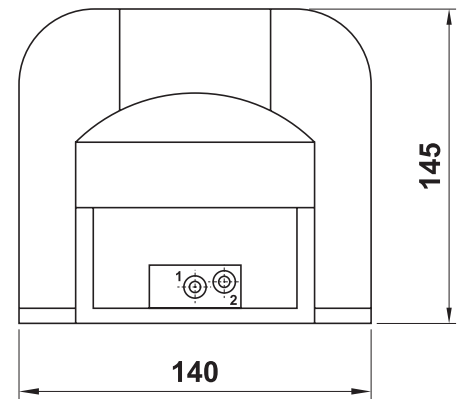
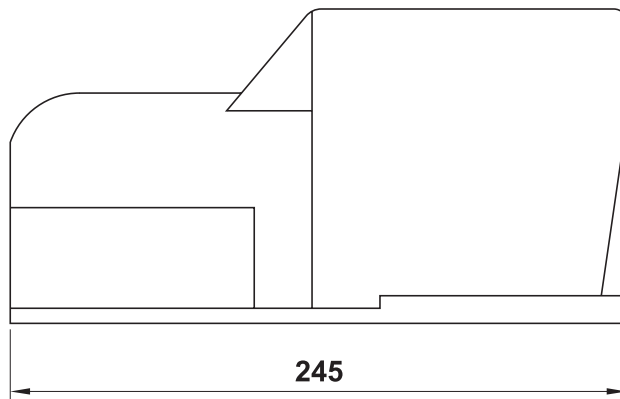
Attacchi Ports	automatici per tubo $\varnothing 4$ $\varnothing 4$ push-in
Portata nominale a 6 bar Nominal flow rate at 6 bar	100 NI/min



BISTABILE (bi-stable)

con microvalvola 3/2 NC e protezione
with 3/2 NC microvalve and protection cover

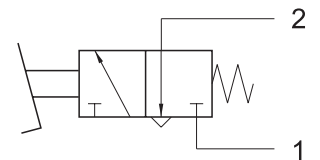
08.198.4



monostabile con microvalvola 3/2 NC mono-stable with 3/2 NC microvalve

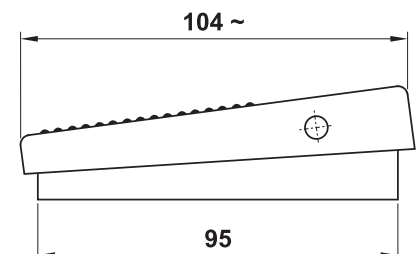
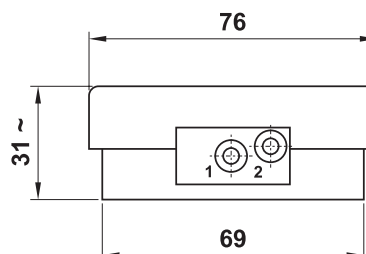
**CODICE DI ORDINAZIONE
ORDER CODE**

PED 304 M



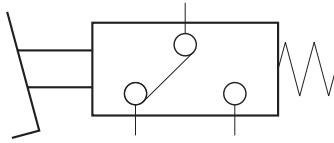
Involucro: materiale plastico antiurto
Pedal body: shock resistant plastic material

Attacchi Ports	automatici per tubo $\varnothing 4$ $\varnothing 4$ push-in
Portata nominale a 6 bar Nominal flow rate at 6 bar	100 NI/min



valvole a pedale

pedal valves



MONOSTABILE (mono-stable)

contatti NC-NA; con coperchio di protezione
NC-NO electric contacts; with protection cover

01.087.0

01.088.0

CON FERMO DI SICUREZZA

Per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

WITH SAFETY FEATURE

To avoid accidental operation the pedal must be fully depressed.

PEDALE CON CONTATTO ELETTRICO

pedal with electric contact



Durata (cicli) <i>Life time (cycles)</i>	10.000.000
Resistenza contatto <i>Contact resistance</i>	25 mΩ
Grado di protezione elettrica <i>Electrical protection degree</i>	IP 54
Contatti <i>Contacts</i>	1 NA + 1 NC scatto rapido <i>1 NO + 1 NC rapid switch</i>

potenza di impiego secondo IEC 337-1

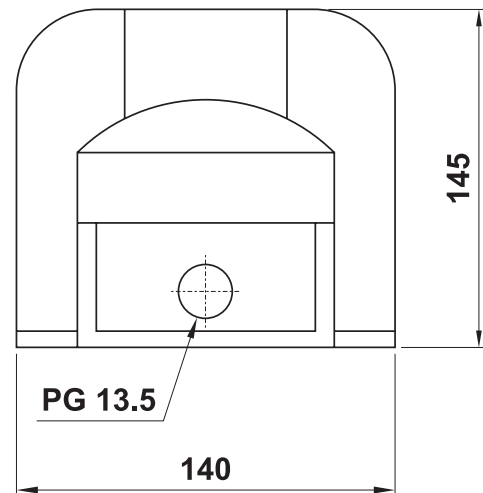
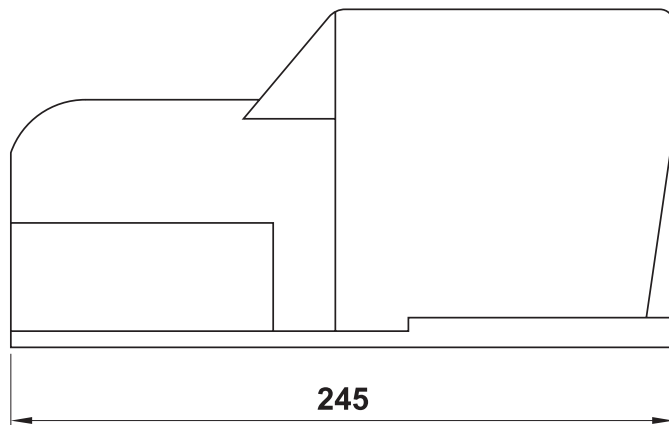
utilization power, according to IEC 337-1

DC

V	24	220
A	6	0.1

AC

V	24	220	380	500
A	10	10	8	6

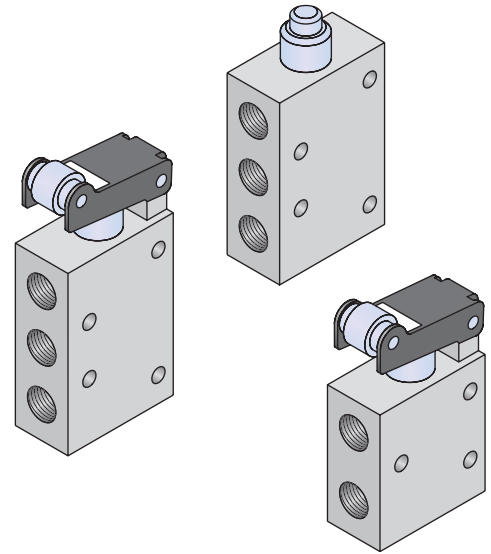


valvole 16 mm ad azion. meccanico e manuale

mechanically and manually actuated valves - 16 mm



- Valvole a spola 3/2-5/2 con attacchi filettati G1/8"
3/2-5/2 spool valves with G1/8" threaded ports
- Installazione in qualsiasi posizione
Installation in any position
- Azionamento diretto monostabile
Mono-stable direct actuation



Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: alluminio nichelato

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spool: nickel plated aluminium

Internal parts: brass OT58

Diametro nominale <i>Nominal orifice</i>	4 mm
Portata nominale a 6 bar, Δp 1 bar <i>Nominal flow rate at 6 bar, Δp 1 bar</i>	350 NI/min
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Forza di azionamento <i>Actuating force</i>	Vedi pagine seguenti <i>See following pages</i>
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>

valvole 16 mm ad azion. meccanico e manuale

mechanically and manually actuated valves - 16 mm



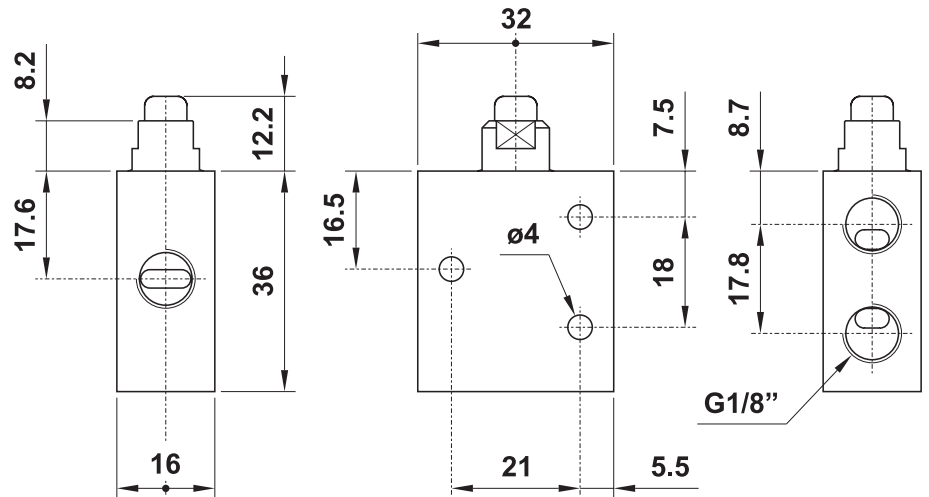
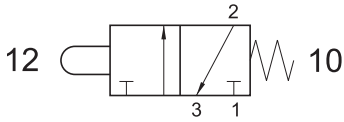
431 MP

3/2 1/8" puntale - ritorno a molla

3/2 1/8" tappet - spring return

Forza di azionamento: 19.61 N

Actuating force: 19.61 N



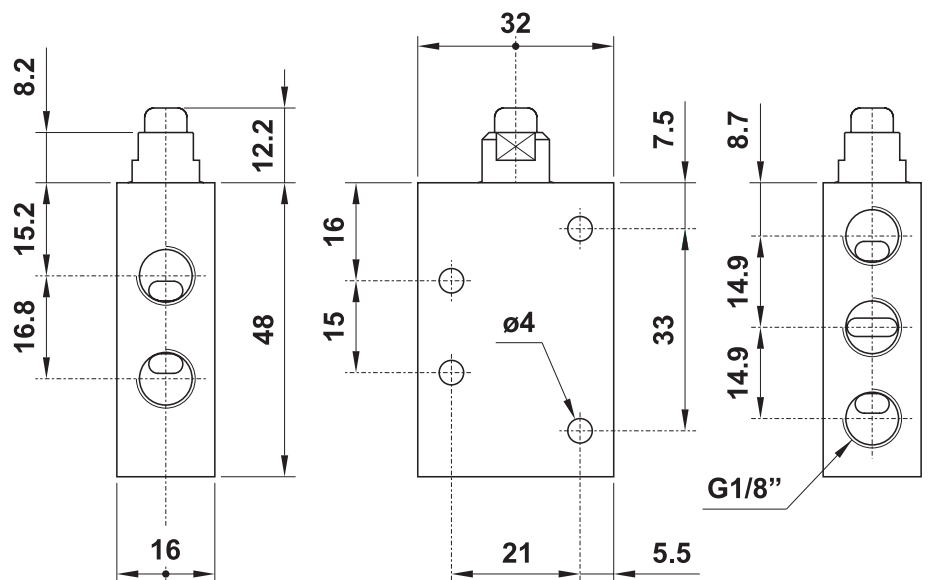
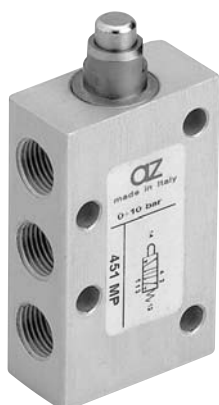
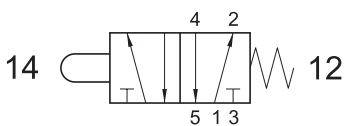
451 MP

5/2 1/8" puntale - ritorno a molla

5/2 1/8" tappet - spring return

Forza di azionamento: 39.22 N

Actuating force: 39.22 N



valvole 16 mm ad azion. meccanico e manuale

mechanically and manually actuated valves - 16 mm



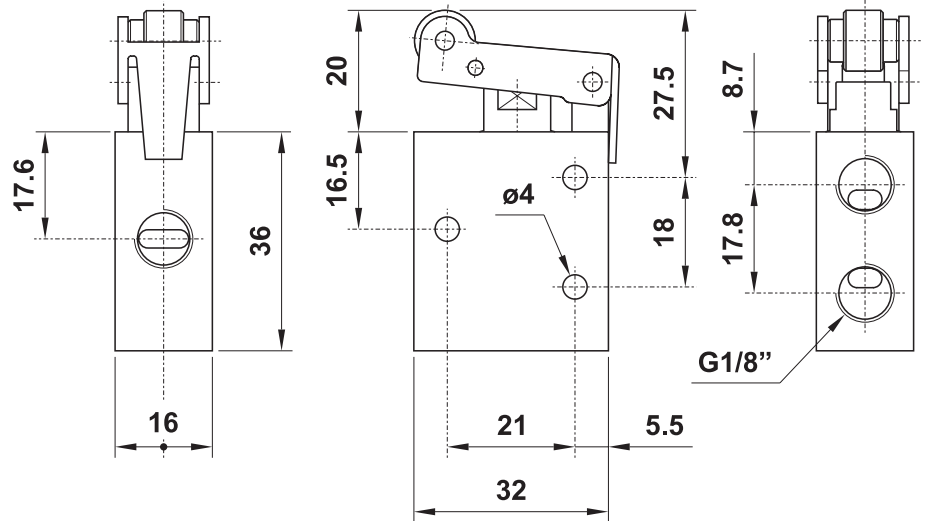
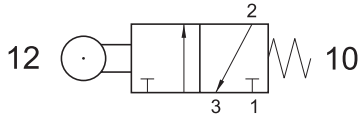
431 MR

3/2 1/8" leva rullo corta - ritorno a molla

3/2 1/8" short roller lever - spring return

Forza di azionamento: 9.81 N

Actuating force: 9.81 N



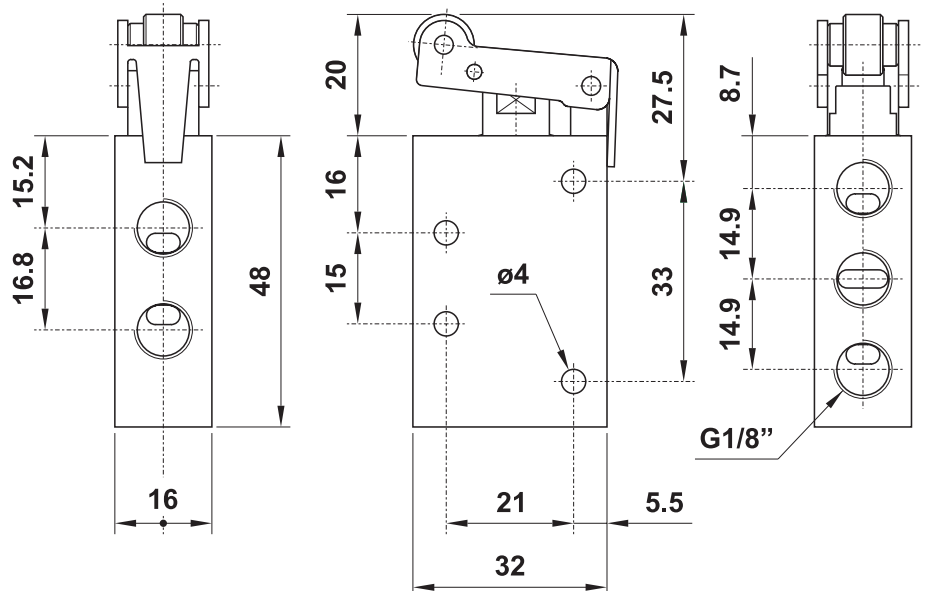
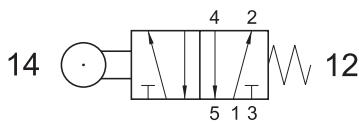
451 MR

5/2 1/8" leva rullo corta - ritorno a molla

5/2 1/8" short roller lever - spring return

Forza di azionamento: 21.57 N

Actuating force: 21.57 N



valvole 16 mm ad azion. meccanico e manuale

mechanically and manually actuated valves - 16 mm



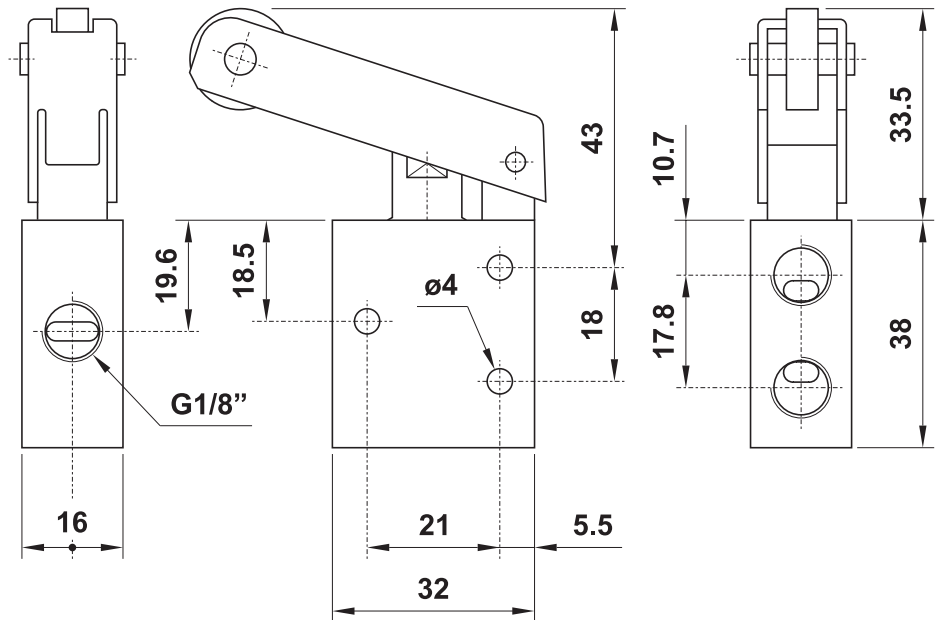
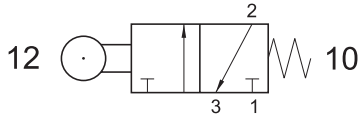
431 MRL

3/2 1/8" leva rullo lunga - ritorno a molla

3/2 1/8" long roller lever - spring return

Forza di azionamento: 8.33 N

Actuating force: 8.33 N



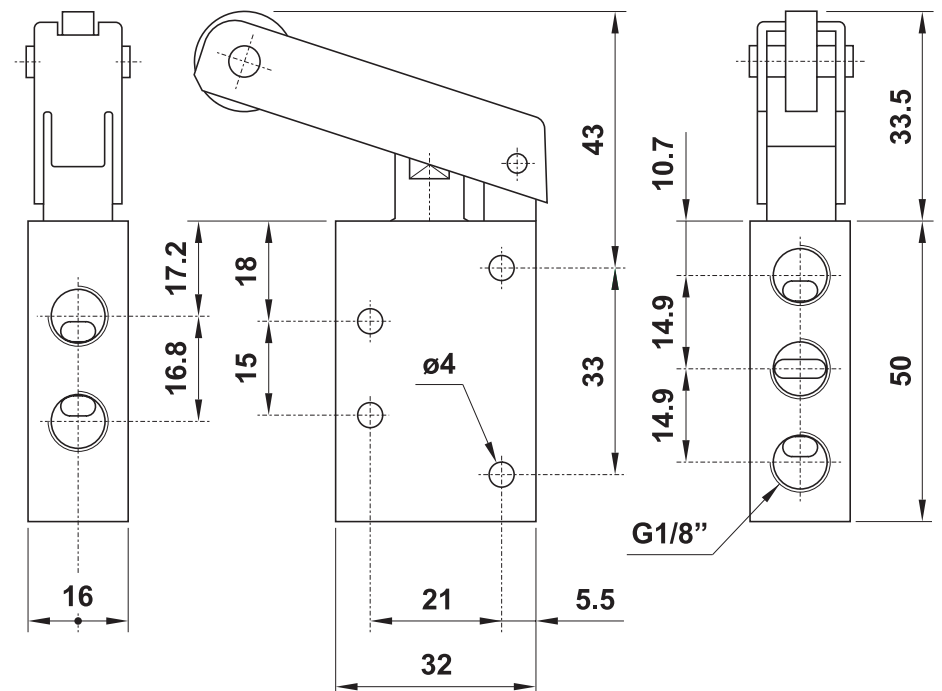
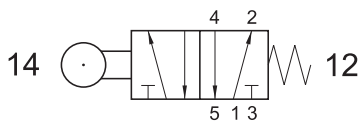
451 MRL

5/2 1/8" leva rullo lunga - ritorno a molla

5/2 1/8" long roller lever - spring return

Forza di azionamento: 14.21 N

Actuating force: 14.21 N



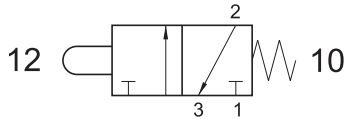
valvole 16 mm ad azion. meccanico e manuale

mechanically and manually actuated valves - 16 mm



431 MGx

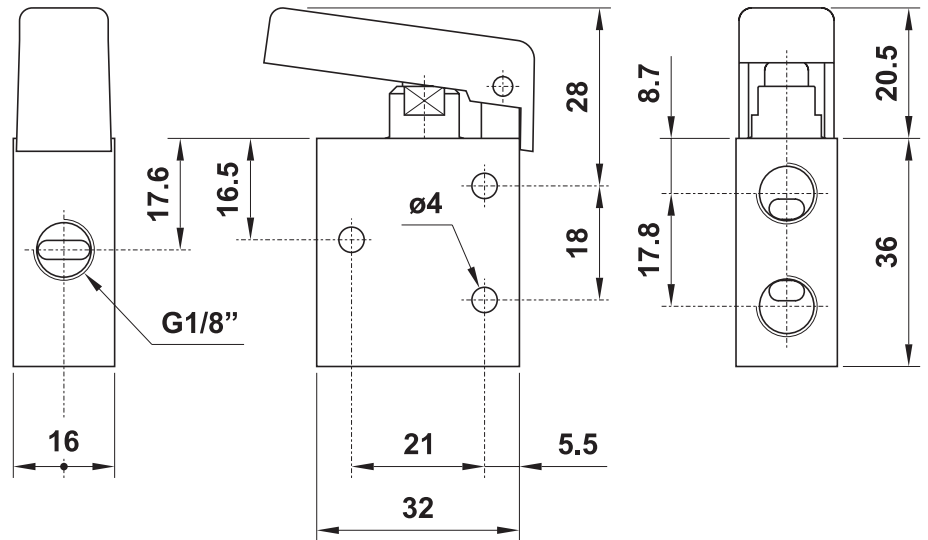
3/2 1/8" tasto (4 colori: vedi schema) - ritorno a molla
 3/2 1/8" push button (4 colours: see explanation) - spring return



Nella sigla del prodotto sostituire la lettera "x" con l'indicazione del colore del tasto.
 In the part number replace the letter "x" with the colour reference of the push button.

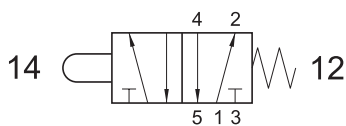
ROSSO - red	R
GIALLO - yellow	G
VERDE - green	V
NERO - black	N

Forza di azionamento: 7.84 N
 Actuating force: 7.84 N



451 MGx

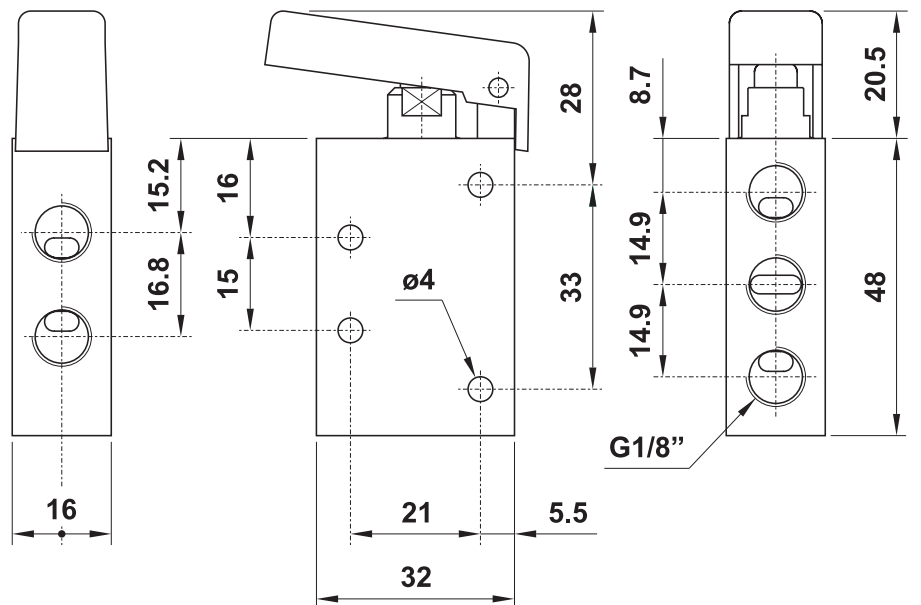
5/2 1/8" tasto (4 colori: vedi schema) - ritorno a molla
 5/2 1/8" push button (4 colours: see explanation) - spring return



Nella sigla del prodotto sostituire la lettera "x" con l'indicazione del colore del tasto.
 In the part number replace the letter "x" with the colour reference of the push button.

ROSSO - red	R
GIALLO - yellow	G
VERDE - green	V
NERO - black	N

Forza di azionamento: 13.73 N
 Actuating force: 13.73 N

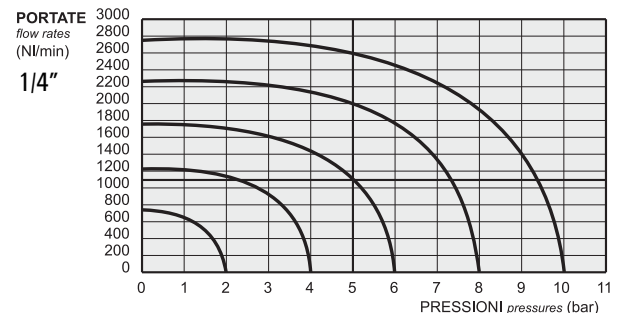
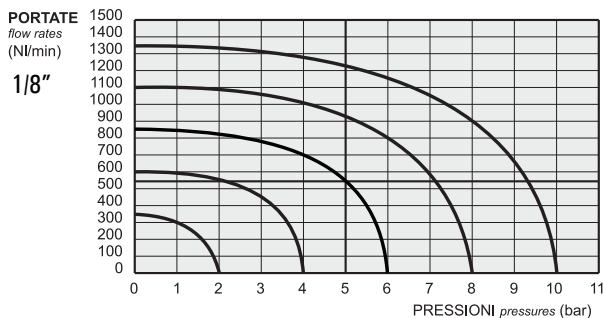


valvole ad azionamento pneumatico

pneumatically piloted valves



- Valvole a spola 3/2-5/2-5/3 con attacchi filettati G1/8"-G1/4"
3/2-5/2-5/3 spool valves with G1/8"-G1/4" threaded ports
- Montaggio in linea, su collettori multipli o su basi manifold
Installation in-line, gang or manifold mounted
- Ampia gamma di azionamenti
Comprehensive range of actuations
- Versioni con elemento logico integrato
Versions with integrated logic element
- Esecuzioni speciali a richiesta
Special versions on request



Tempi di risposta - response times

	1/8"	1/4"
monostabile <i>mono-stable</i>	TRA (14): 6 ms TRR (12): 15 ms	TRA (14): 7 ms TRR (12): 15 ms
bistabile <i>bi-stable</i>	TRA (14): 7 ms TRR (12): 7 ms	TRA (14): 7 ms TRR (12): 7 ms

Materiali

Corpo: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Spola: alluminio nichelato
Parti interne: ottone OT58

Materials

Body: aluminium 11S
Springs: stainless steel
Seals: NBR
Spool: nickel plated aluminium
Internal parts: brass OT58

Diametro nominale <i>Nominal orifice</i>	1/8": 5 mm 1/4": 7.5 mm	
Temperatura di esercizio <i>Temperature range</i>	max +60°C	
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa	
Pressione di azionamento <i>Actuating pressure</i>	monostabile [mono-stable]	bistabile [bi-stable]
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air	

valvole ad azionamento pneumatico

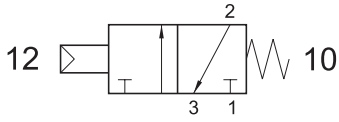
pneumatically piloted valves



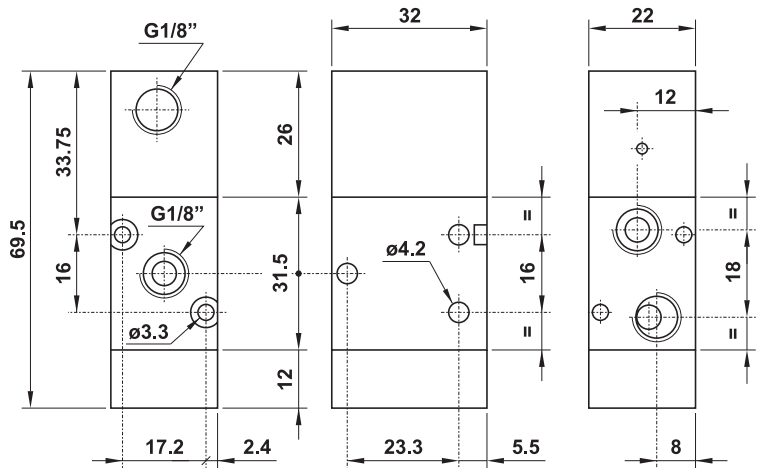
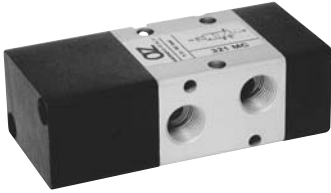
321 MC

3/2 1/8" NC comando pneumatico - ritorno a molla

3/2 1/8" NC pneumatic pilot - spring return



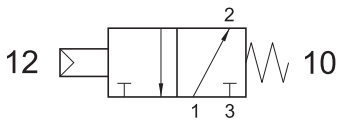
Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.



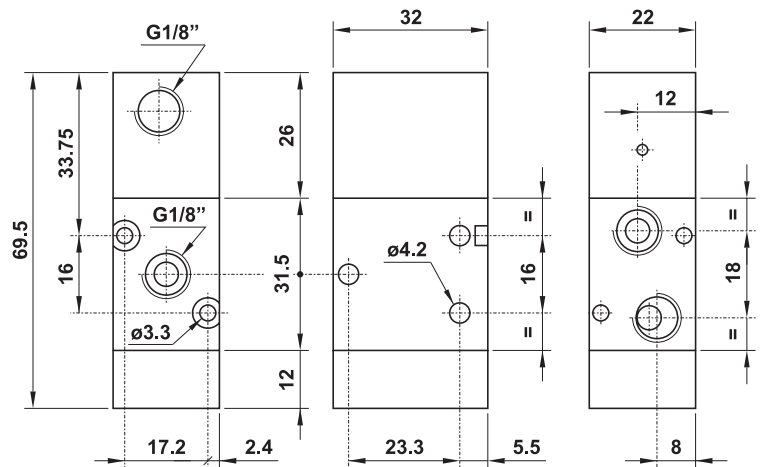
321 MCA

3/2 1/8" NA comando pneumatico - ritorno a molla

3/2 1/8" NO pneumatic pilot - spring return



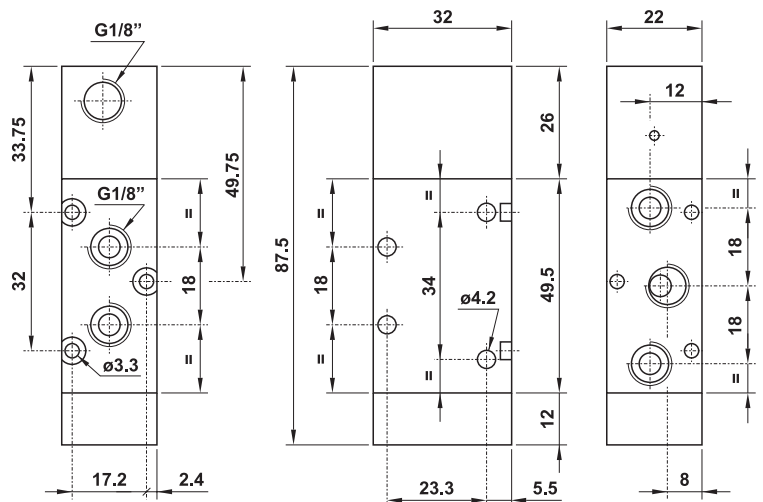
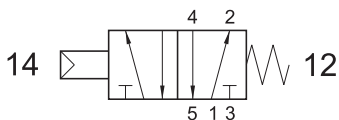
Non può essere utilizzata come valvola normalmente chiusa.
It cannot be used as normally closed valve.



521 MC

5/2 1/8" comando pneumatico - ritorno a molla

5/2 1/8" pneumatic pilot - spring return



valvole ad azionamento pneumatico

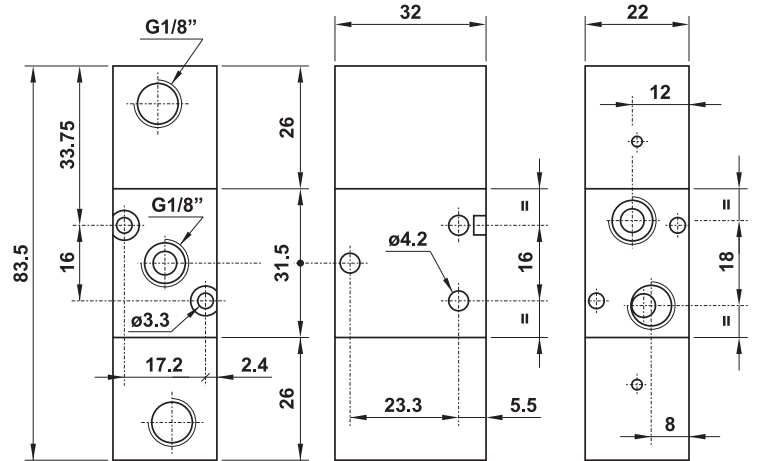
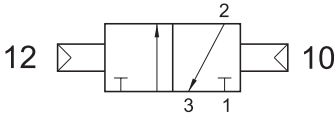
pneumatically piloted valves



321 CC

3/2 1/8" doppio comando pneumatico

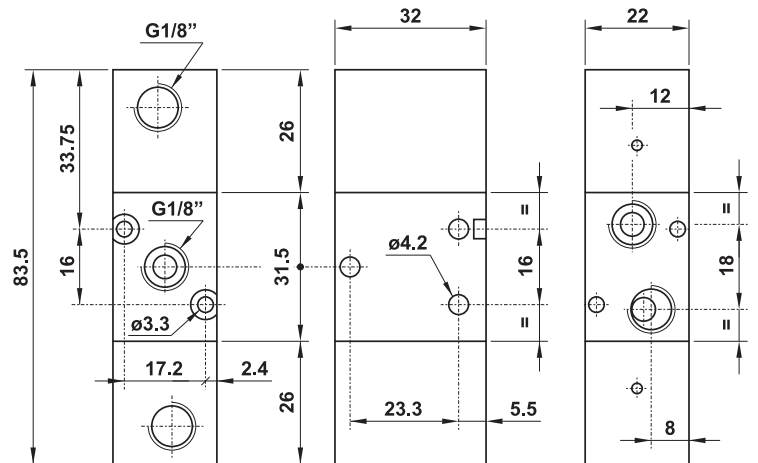
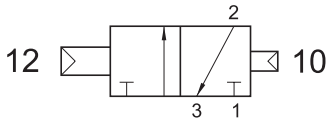
3/2 1/8" double pneumatic pilot



321 CCD

3/2 1/8" doppio comando pneumatico - con differenziale

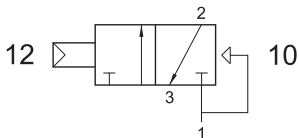
3/2 1/8" double pneumatic pilot - with differential



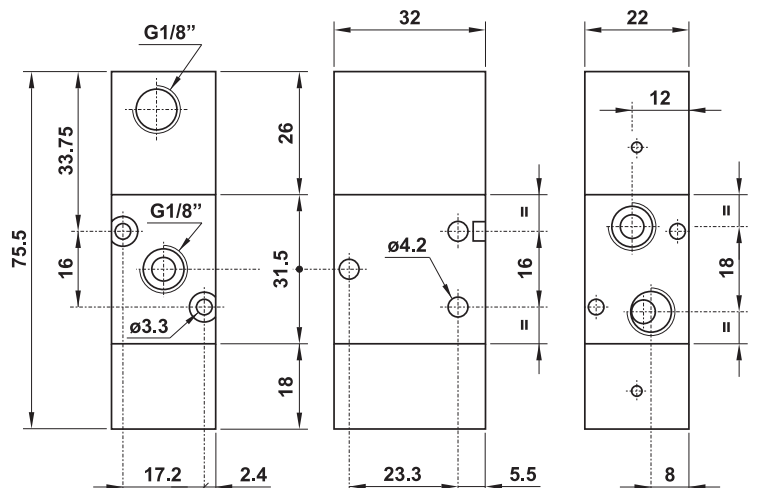
321 CFP

3/2 1/8" NC comando pneumatico - ritorno a molla pneumatica

3/2 1/8" NC pneumatic pilot - pneumatic spring return



Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.



valvole ad azionamento pneumatico

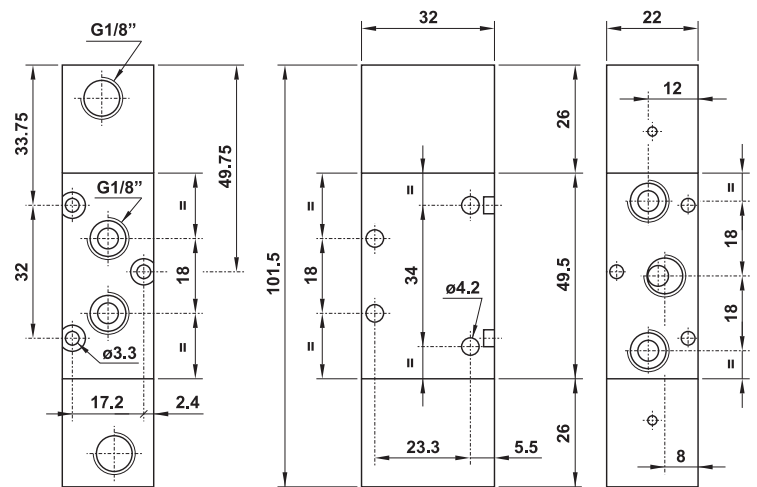
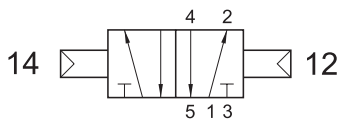
pneumatically piloted valves



521 CC

5/2 1/8" doppio comando pneumatico

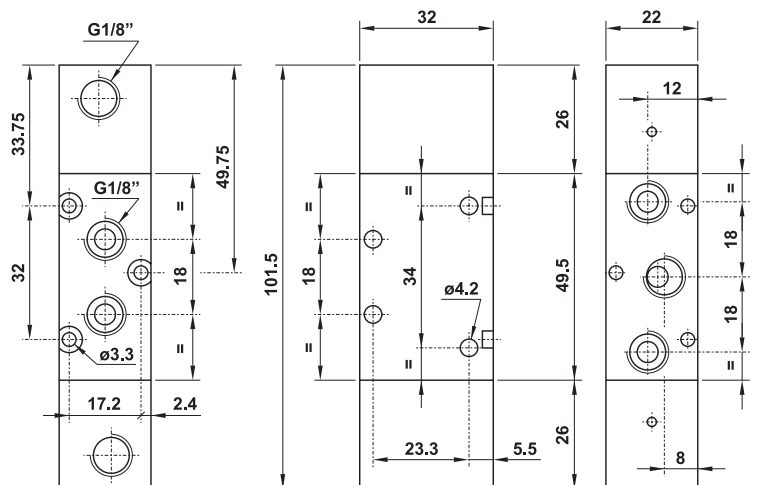
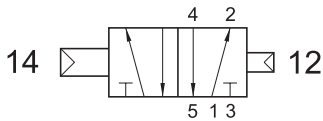
5/2 1/8" double pneumatic pilot



521 CCD

5/2 1/8" doppio comando pneumatico - con differenziale

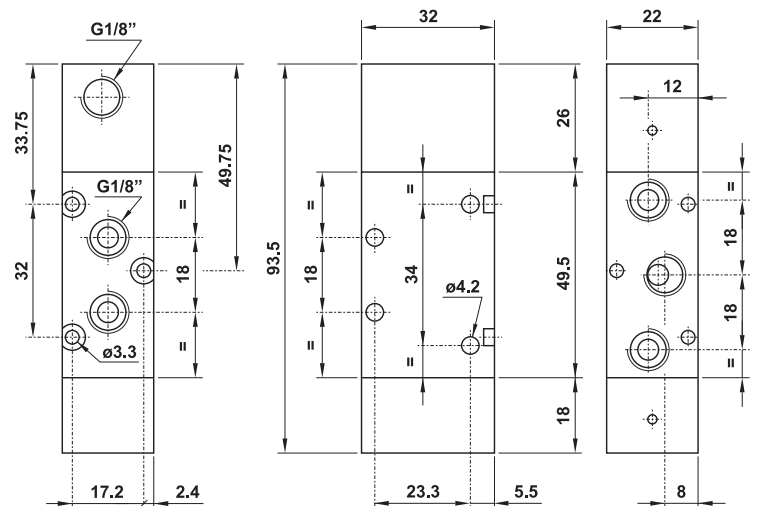
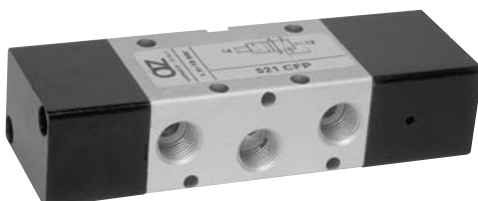
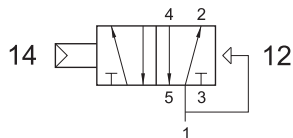
5/2 1/8" double pneumatic pilot - with differential



521 CFP

5/2 1/8" comando pneumatico - ritorno a molla pneumatica

5/2 1/8" pneumatic pilot - pneumatic spring return



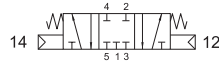
valvole ad azionamento pneumatico

pneumatically piloted valves



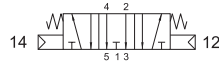
5213C CC

centri chiusi
closed centres



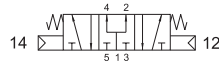
5213A CC

centri aperti
open centres



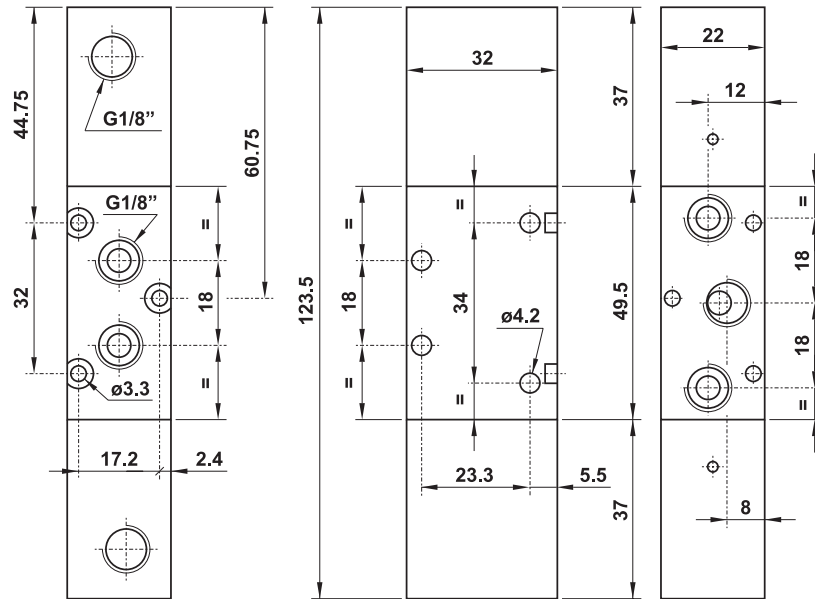
5213P CC

centri in pressione
pressurized centres



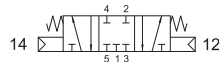
5/3 1/8" doppio comando pneumatico

5/3 1/8" double pneumatic pilot



5223C CC

centri chiusi
closed centres



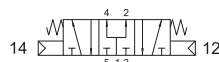
5223A CC

centri aperti
open centres



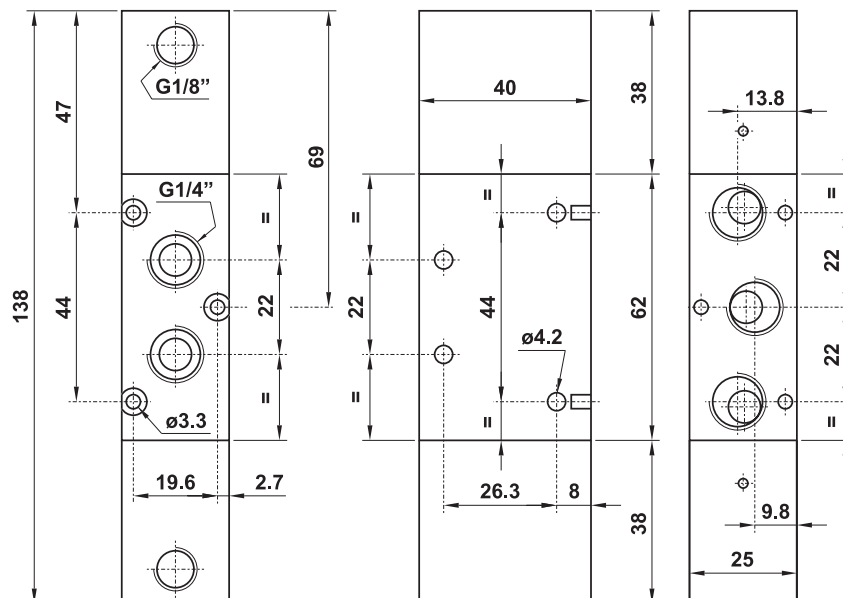
5223P CC

centri in pressione
pressurized centres



5/3 1/4" doppio comando pneumatico

5/3 1/4" double pneumatic pilot



valvole ad azionamento pneumatico

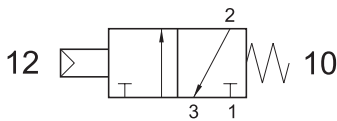
pneumatically piloted valves



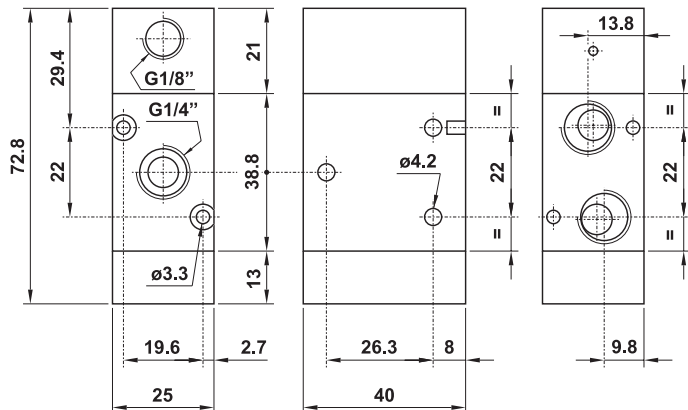
322 MC

3/2 1/4" NC comando pneumatico - ritorno a molla

3/2 1/4" NC pneumatic pilot - spring return



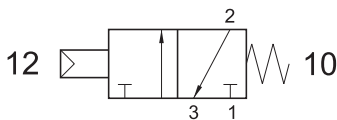
Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.



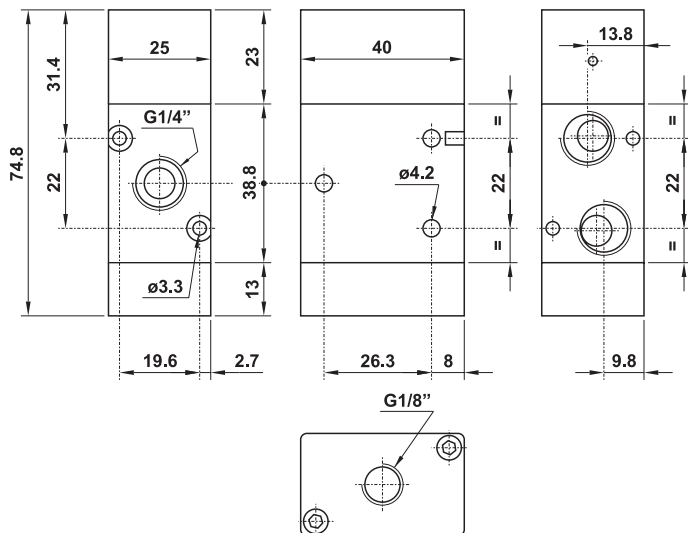
322 MC SUP

3/2 1/4" NC comando pneumatico attacco superiore - ritorno a molla

3/2 1/4" NC pneumatic pilot on the top - spring return



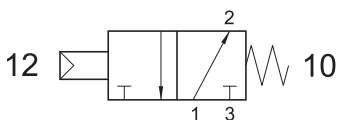
Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.



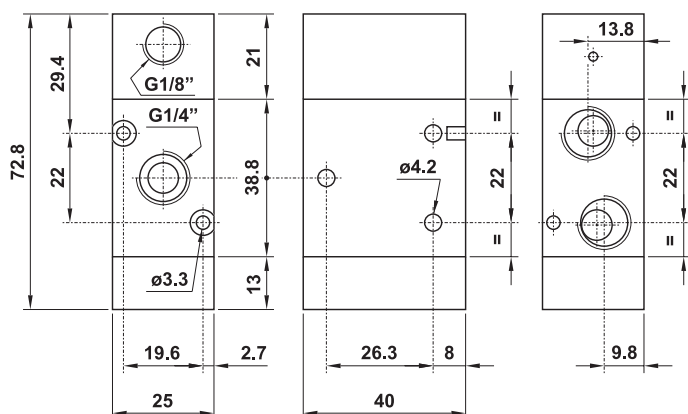
322 MCA

3/2 1/4" NA comando pneumatico - ritorno a molla

3/2 1/4" NO pneumatic pilot - spring return



Non può essere utilizzata come valvola normalmente chiusa.
It cannot be used as normally closed valve.



valvole ad azionamento pneumatico

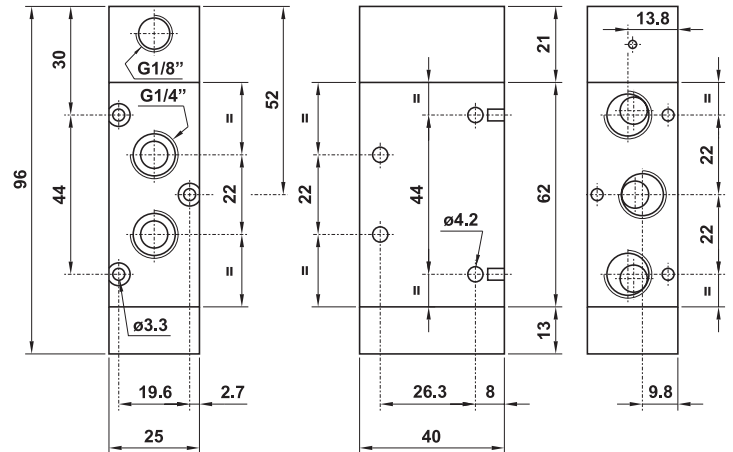
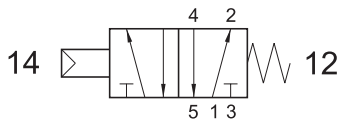
pneumatically piloted valves



522 MC

5/2 1/4" comando pneumatico - ritorno a molla

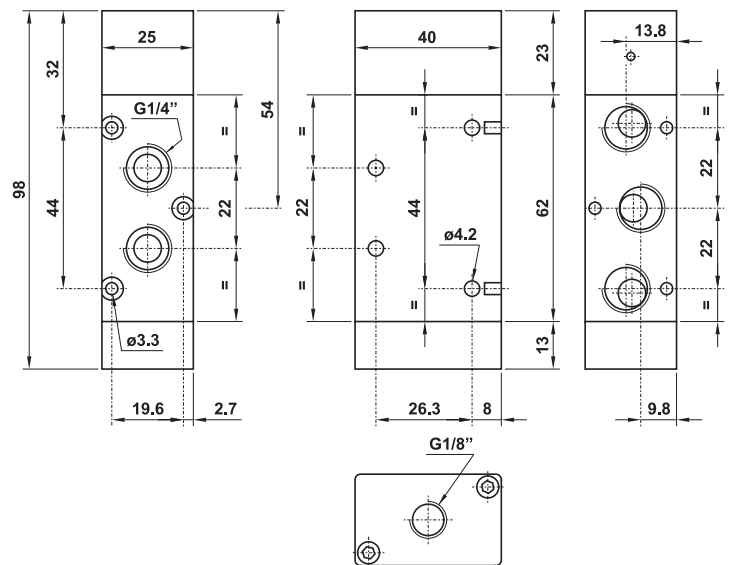
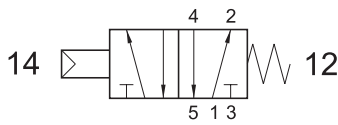
5/2 1/4" pneumatic pilot - spring return



522 MC SUP

5/2 1/4" comando pneumatico attacco superiore - ritorno a molla

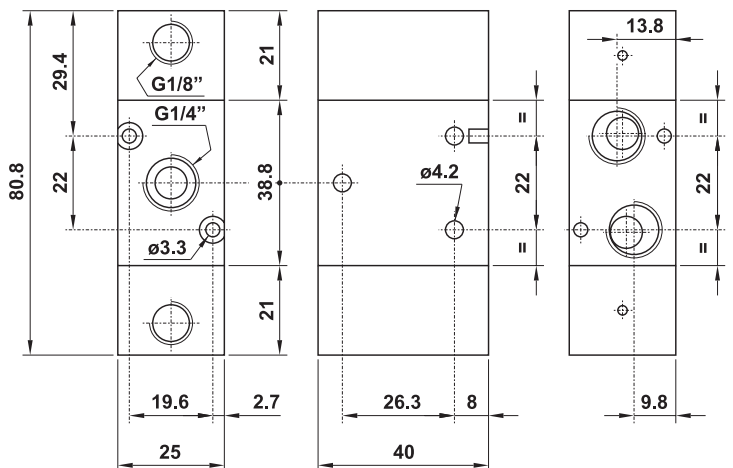
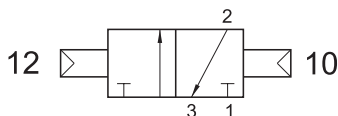
5/2 1/4" pneumatic pilot on the top - spring return



322 CC

3/2 1/4" doppio comando pneumatico

3/2 1/4" double pneumatic pilot



valvole ad azionamento pneumatico

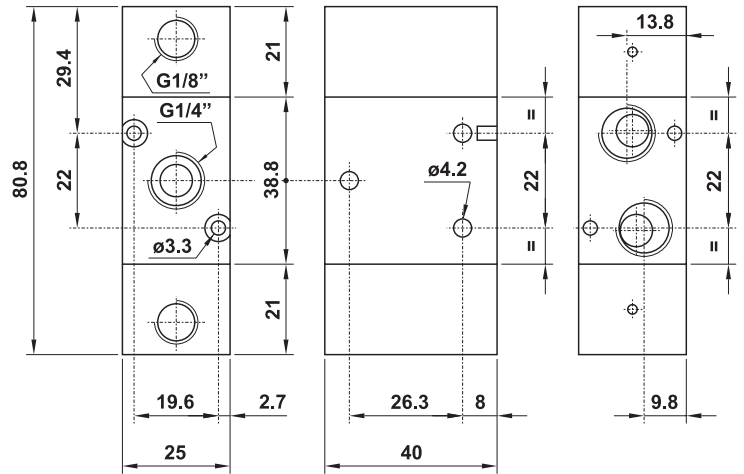
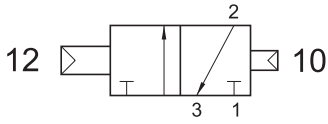
pneumatically piloted valves



322 CCD

3/2 1/4" doppio comando pneumatico - con differenziale

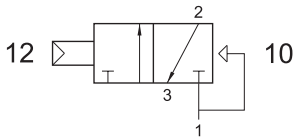
3/2 1/4" double pneumatic pilot - with differential



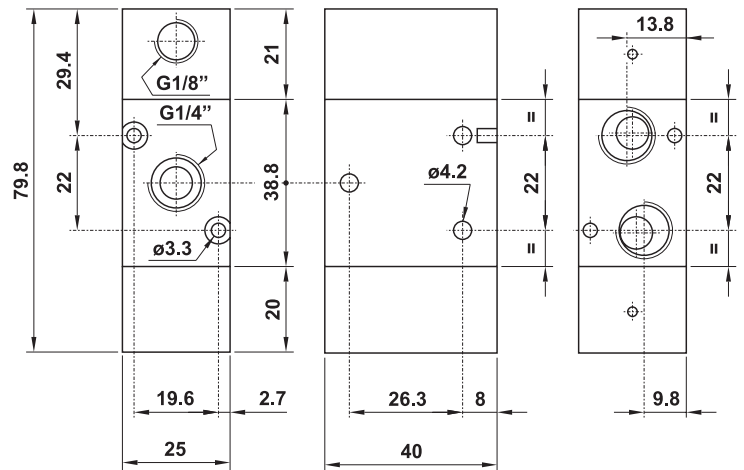
322 CFP

3/2 1/4" NC comando pneumatico - ritorno a molla pneumatica

3/2 1/4" NC pneumatic pilot - pneumatic spring return



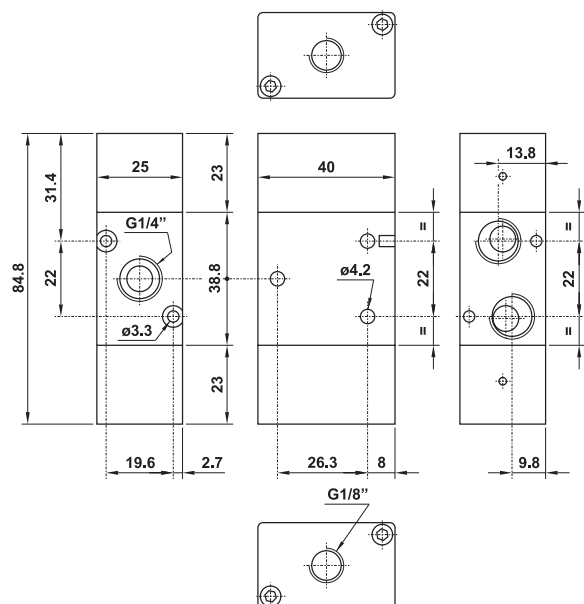
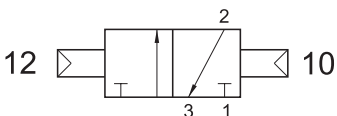
Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.



322 CC SUP

3/2 1/4" doppio comando pneumatico attacco superiore

3/2 1/4" double pneumatic pilot on the top



valvole ad azionamento pneumatico

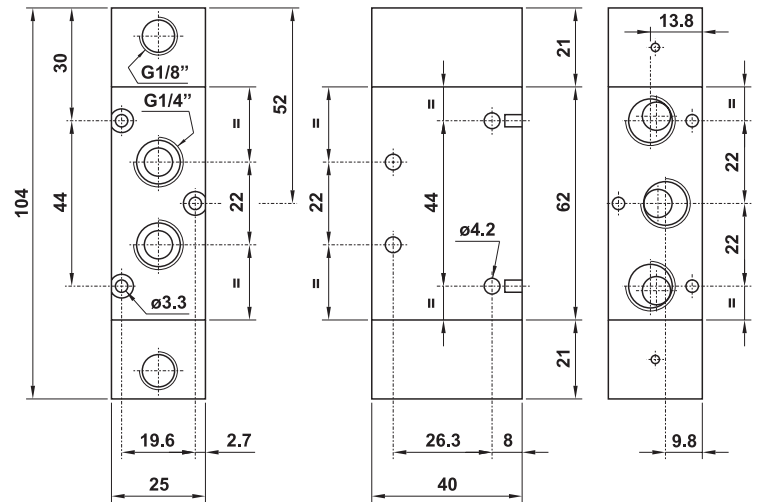
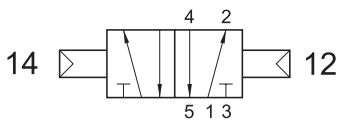
pneumatically piloted valves



522 CC

5/2 1/4" doppio comando pneumatico

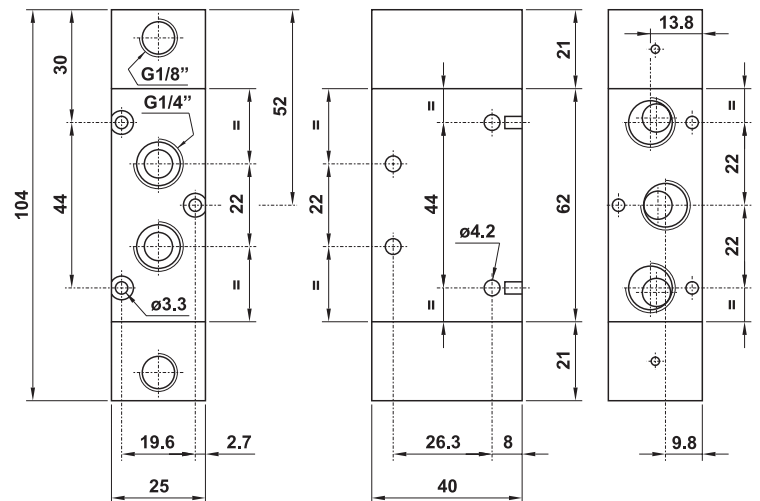
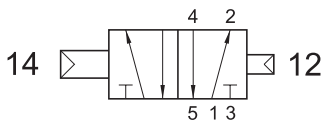
5/2 1/4" double pneumatic pilot



522 CCD

5/2 1/4" doppio comando pneumatico - con differenziale

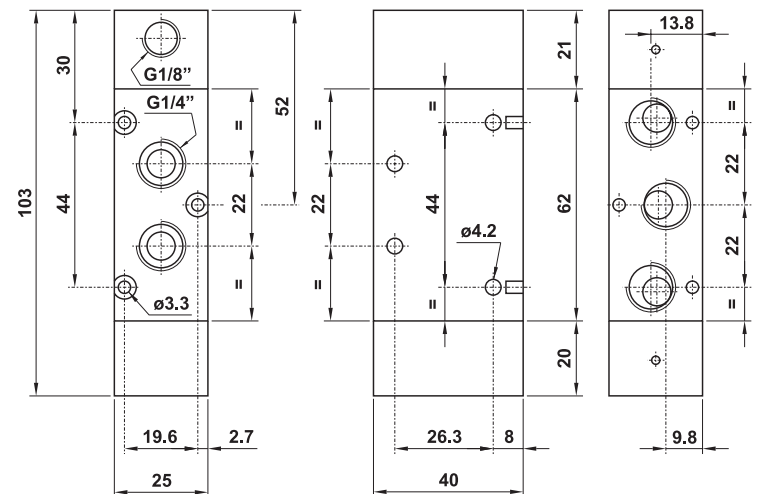
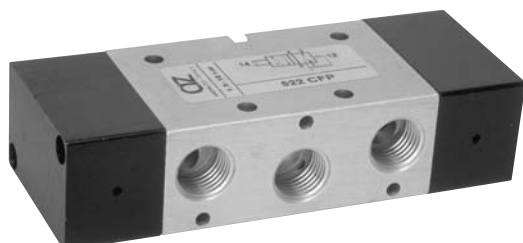
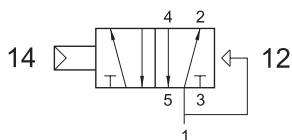
5/2 1/4" double pneumatic pilot - with differential



522 CFP

5/2 1/4" comando pneumatico - ritorno a molla pneumatica

5/2 1/4" pneumatic pilot - pneumatic spring return



valvole ad azionamento pneumatico

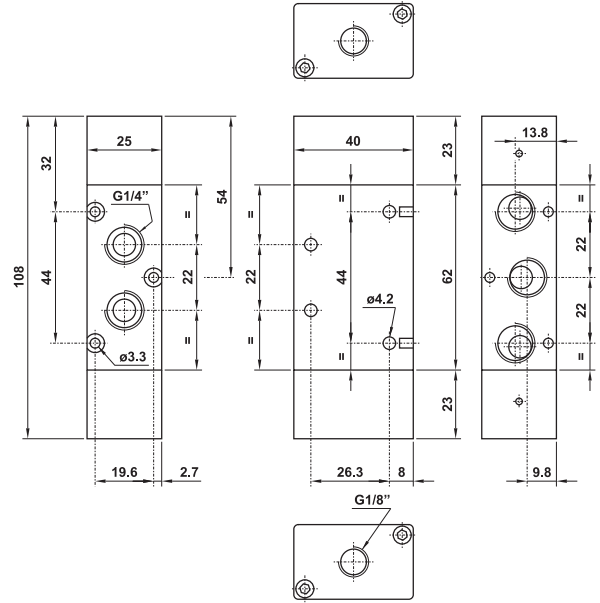
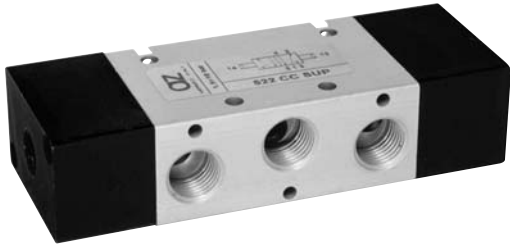
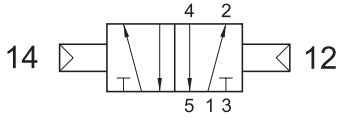
pneumatically piloted valves



522 CC SUP

5/2 1/4" doppio comando pneumatico attacco superiore

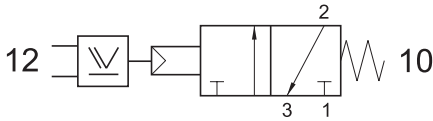
5/2 1/4" double pneumatic pilot on the top



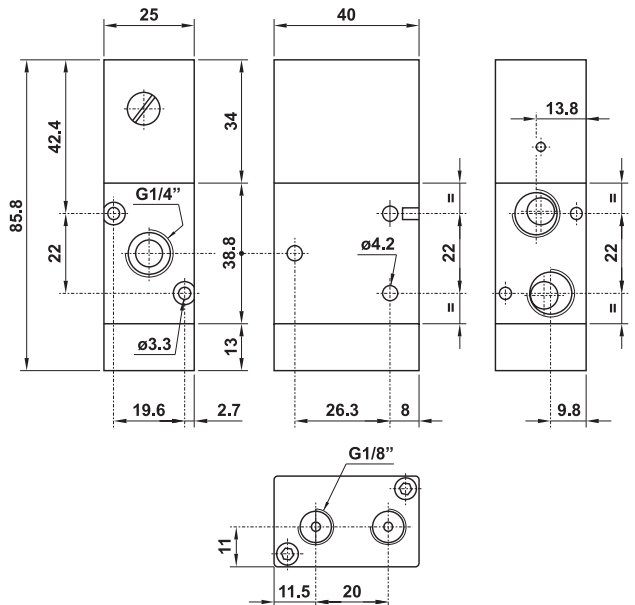
322 ORM

3/2 1/4" NC comando pneum. con elem. OR integrato - ritorno a molla

3/2 1/4" NC pneumatic pilot with integrated OR element - spring return



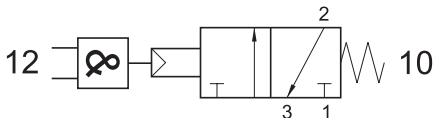
Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.



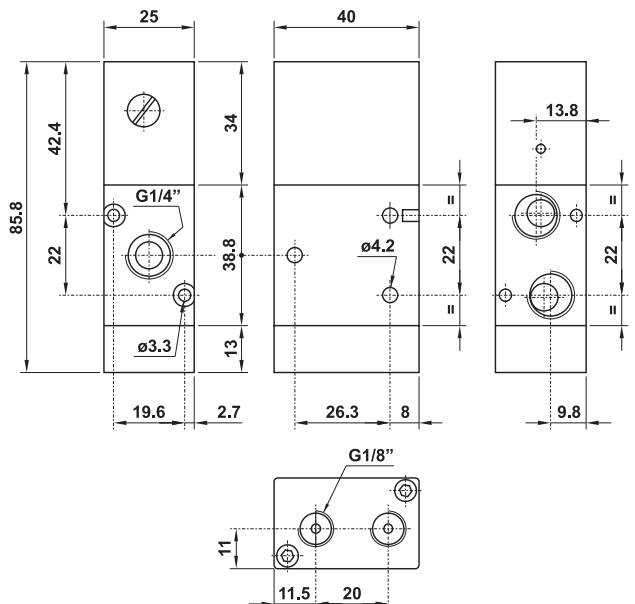
322 ANDM

3/2 1/4" NC comando pneum. con elem. AND integrato - ritorno a molla

3/2 1/4" NC pneumatic pilot with integrated AND element - spring return



Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.



valvole ad azionamento pneumatico

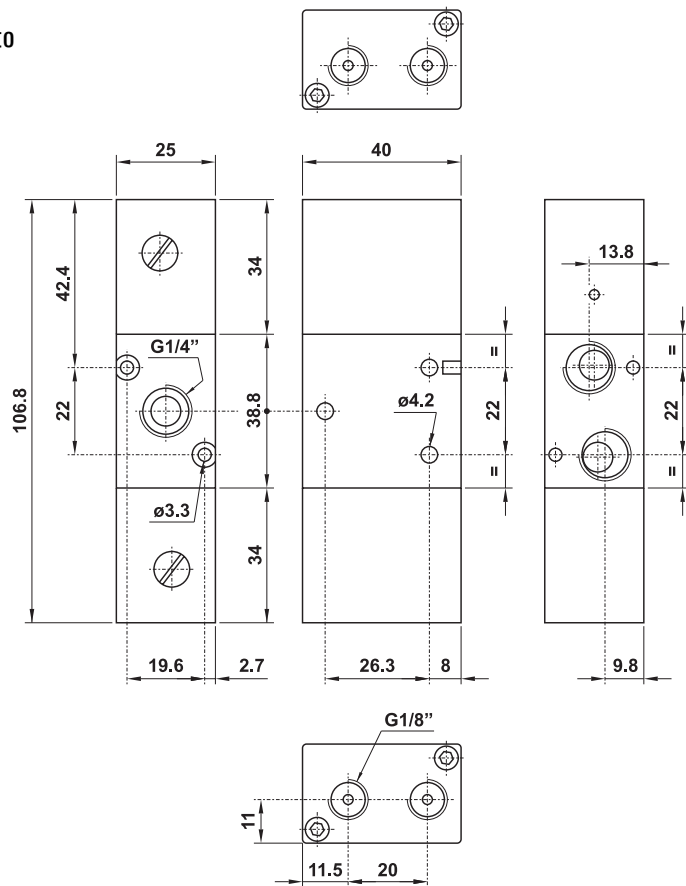
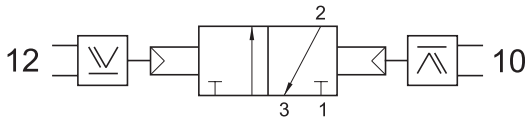
pneumatically piloted valves



322 2OR

3/2 1/4" doppio comando pneumatico con elemento OR integrato

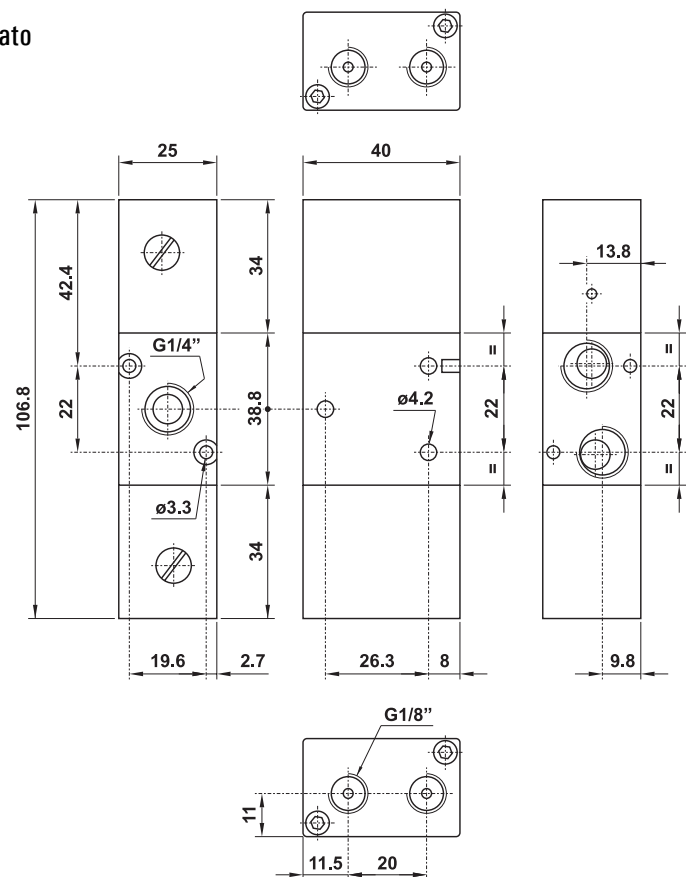
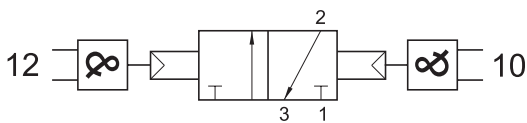
3/2 1/4" double pneumatic pilot with integrated OR element



322 2AND

3/2 1/4" doppio comando pneumatico con elemento AND integrato

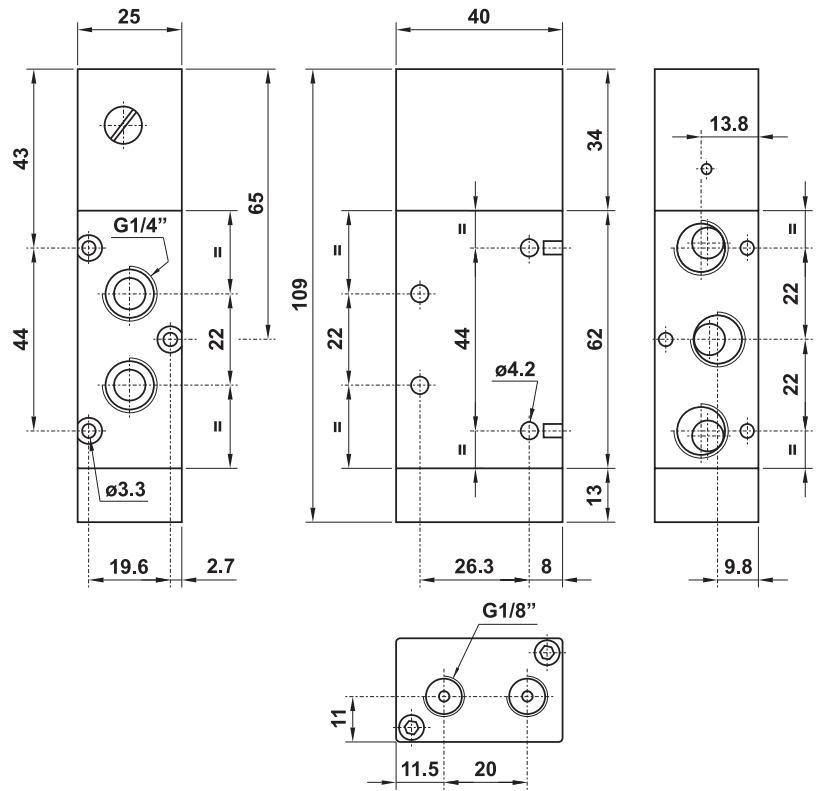
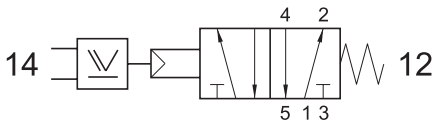
3/2 1/4" double pneumatic pilot with integrated AND element



522 ORM

5/2 1/4" comando pneum. con elemento OR integrato - ritorno a molla

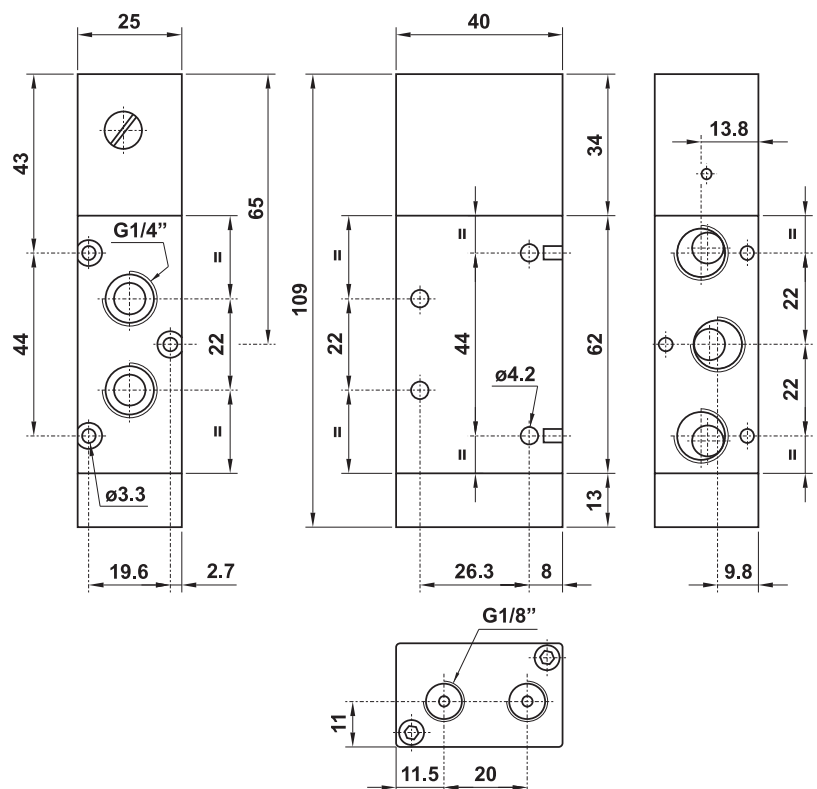
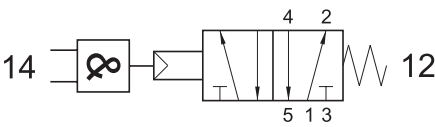
5/2 1/4" pneumatic pilot with integrated OR element - spring return



522 ANDM

5/2 1/4" comando pneum. con elem. AND integrato - ritorno a molla

5/2 1/4" pneumatic pilot with integrated AND element - spring return



valvole ad azionamento pneumatico

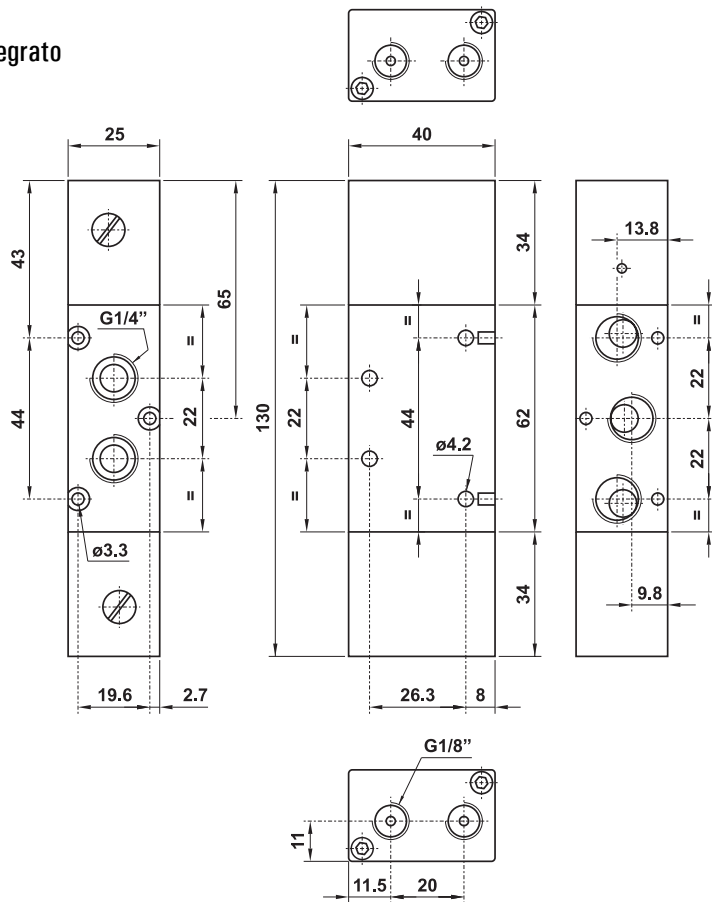
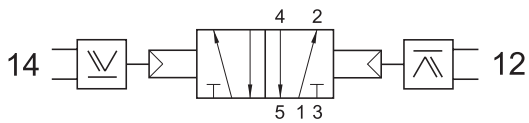
pneumatically piloted valves



522 20R

5/2 1/4" doppio comando pneumatico con elemento OR integrato

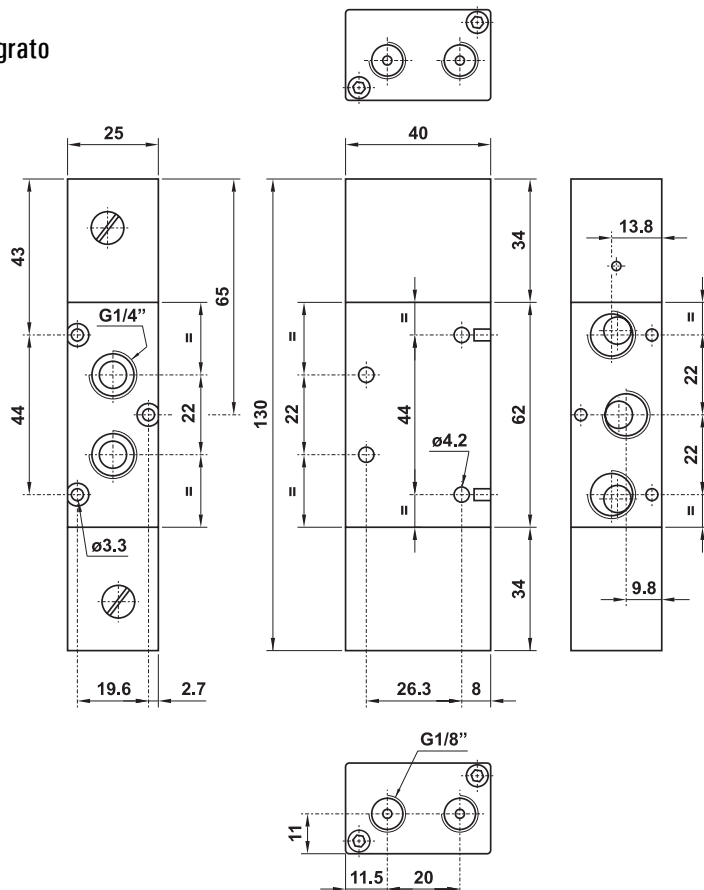
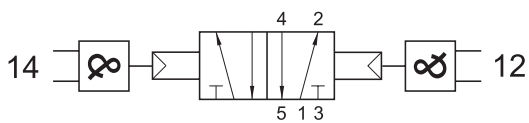
5/2 1/4" double pneumatic pilot with integrated OR element



522 2AND

5/2 1/4" doppio comando pneumatico con elemento AND integrato

5/2 1/4" double pneumatic pilot with integrated AND element



valvole ad azionamento pneumatico

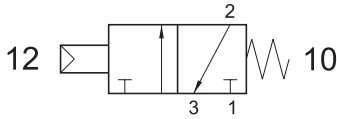
pneumatically piloted valves



321 MCQ

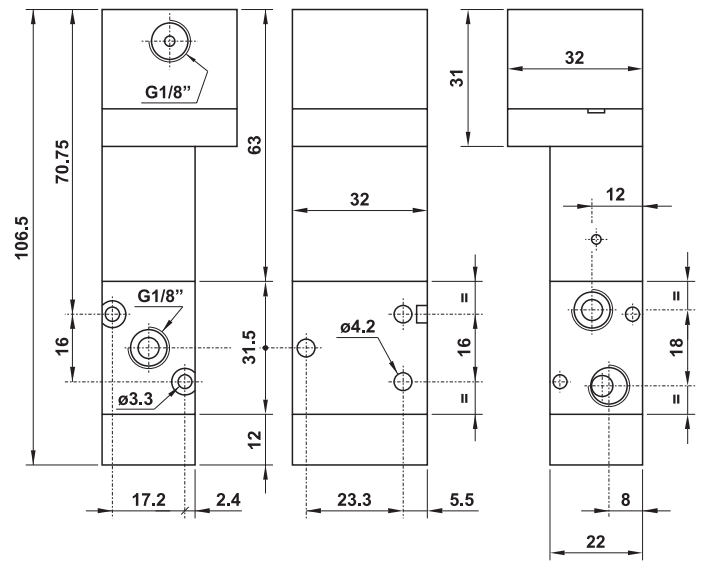
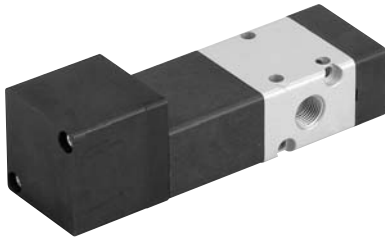
3/2 1/8" NC comando pneumatico 0.3 bar - ritorno a molla

3/2 1/8" NC pneumatic pilot 0.3 bar - spring return



Pressione di lavoro: min. 2.5 bar (0.25 MPa)
Pressione di comando: min. 0.3 bar (0.03 MPa)

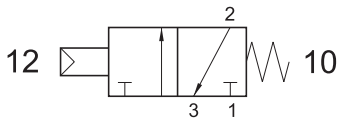
Work pressure: min. 2.5 bar (0.25 MPa)
Pilot pressure: min. 0.3 bar (0.03 MPa)



321 MCS

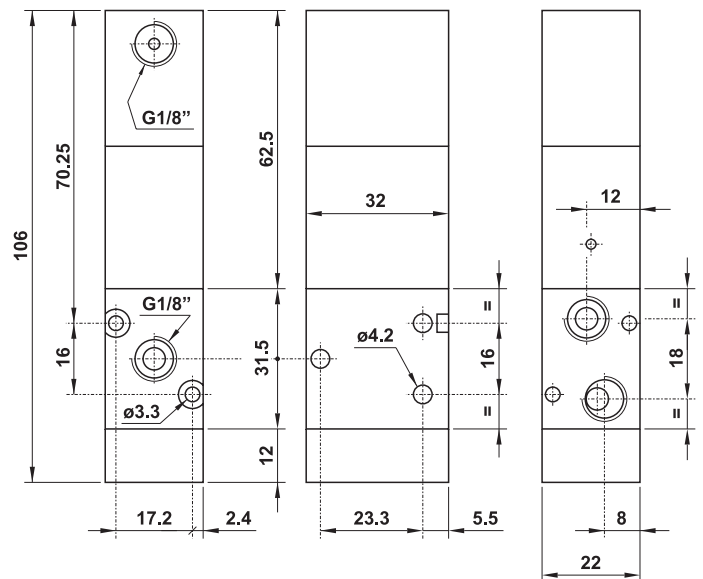
3/2 1/8" NC comando pneumatico 0.6 bar - ritorno a molla

3/2 1/8" NC pneumatic pilot 0.6 bar - spring return



Pressione di lavoro: min. 2.5 bar (0.25 MPa)
Pressione di comando: min. 0.6 bar (0.06 MPa)

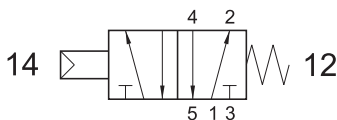
Work pressure: min. 2.5 bar (0.25 MPa)
Pilot pressure: min. 0.6 bar (0.06 MPa)



521 MCQ

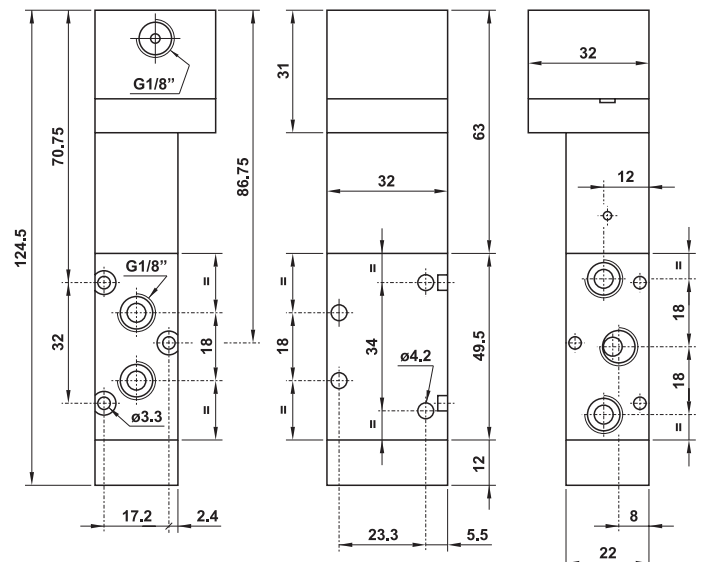
5/2 1/8" comando pneumatico 0.3 bar - ritorno a molla

5/2 1/8" pneumatic pilot 0.3 bar - spring return



Pressione di lavoro: min. 2.5 bar (0.25 MPa)
Pressione di comando: min. 0.3 bar (0.03 MPa)

Work pressure: min. 2.5 bar (0.25 MPa)
Pilot pressure: min. 0.3 bar (0.03 MPa)



valvole ad azionamento pneumatico

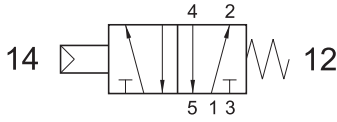
pneumatically piloted valves



521 MCS

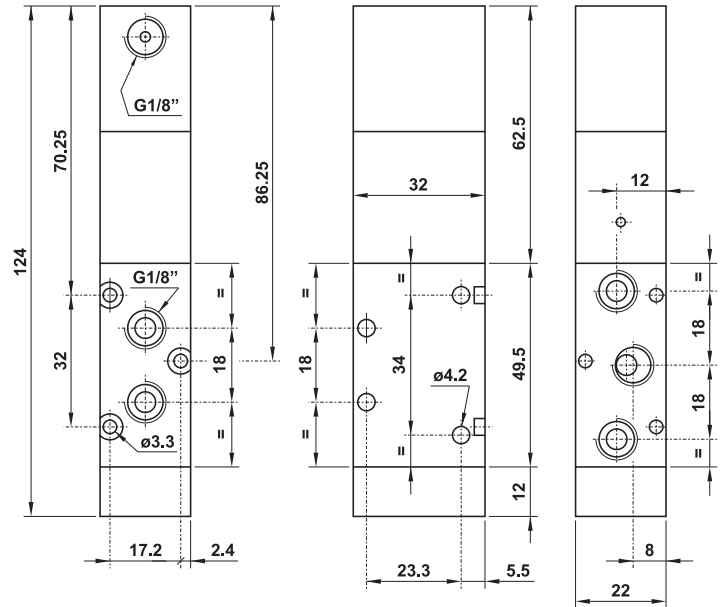
5/2 1/8" comando pneumatico 0.6 bar - ritorno a molla

5/2 1/8" pneumatic pilot 0.6 bar - spring return



Pressione di lavoro: min. 2.5 bar (0.25 MPa)
Pressione di comando: min. 0.6 bar (0.06 MPa)

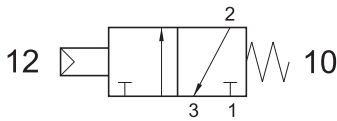
Work pressure: min. 2.5 bar (0.25 MPa)
Pilot pressure: min. 0.6 bar (0.06 MPa)



322 MCS

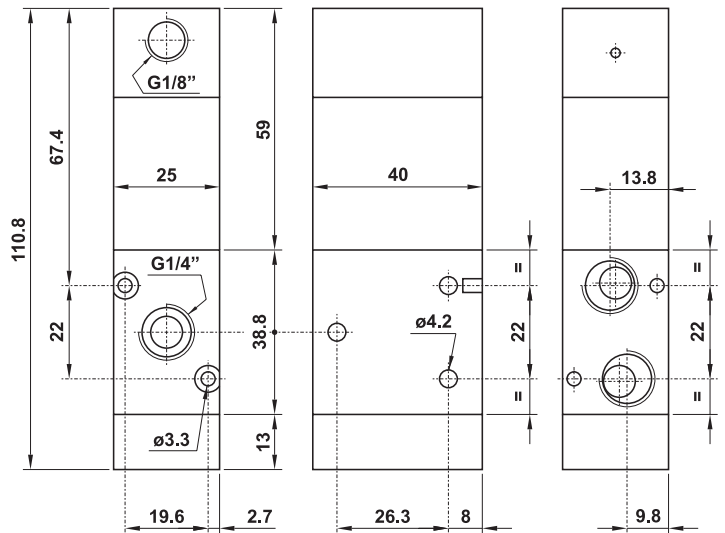
3/2 1/4" NC comando pneumatico 0.6 bar - ritorno a molla

3/2 1/4" NC pneumatic pilot 0.6 bar - spring return



Pressione di lavoro: min. 2.5 bar (0.25 MPa)
Pressione di comando: min. 0.6 bar (0.06 MPa)

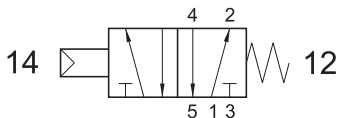
Work pressure: min. 2.5 bar (0.25 MPa)
Pilot pressure: min. 0.6 bar (0.06 MPa)



522 MCS

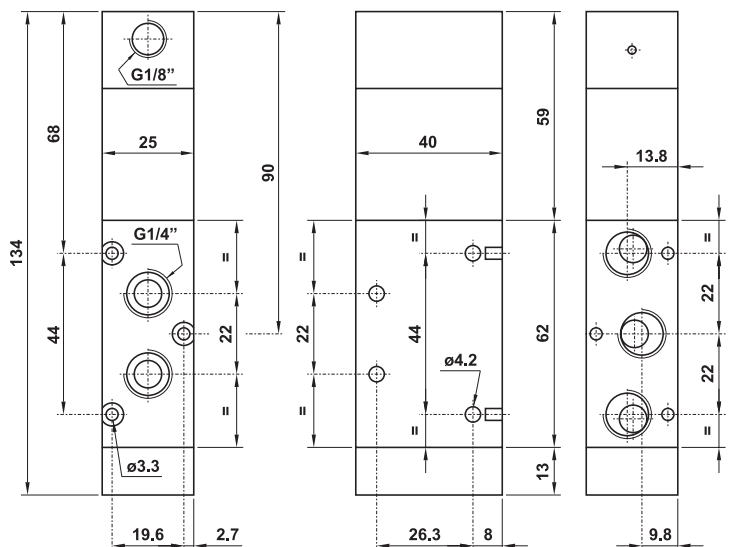
5/2 1/4" comando pneumatico 0.6 bar - ritorno a molla

5/2 1/4" pneumatic pilot 0.6 bar - spring return



Pressione di lavoro: min. 2.5 bar (0.25 MPa)
Pressione di comando: min. 0.6 bar (0.06 MPa)

Work pressure: min. 2.5 bar (0.25 MPa)
Pilot pressure: min. 0.6 bar (0.06 MPa)



elettropiloti su base

solenoid valves on manifold



I prodotti qui indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 98).
All here mentioned products are sold without coils, which are bought separately (refer to page 98).

elettropilota singolo 3/2 con o senza azion. manuale bistabile
3/2 single solenoid valve with or without detented manual override

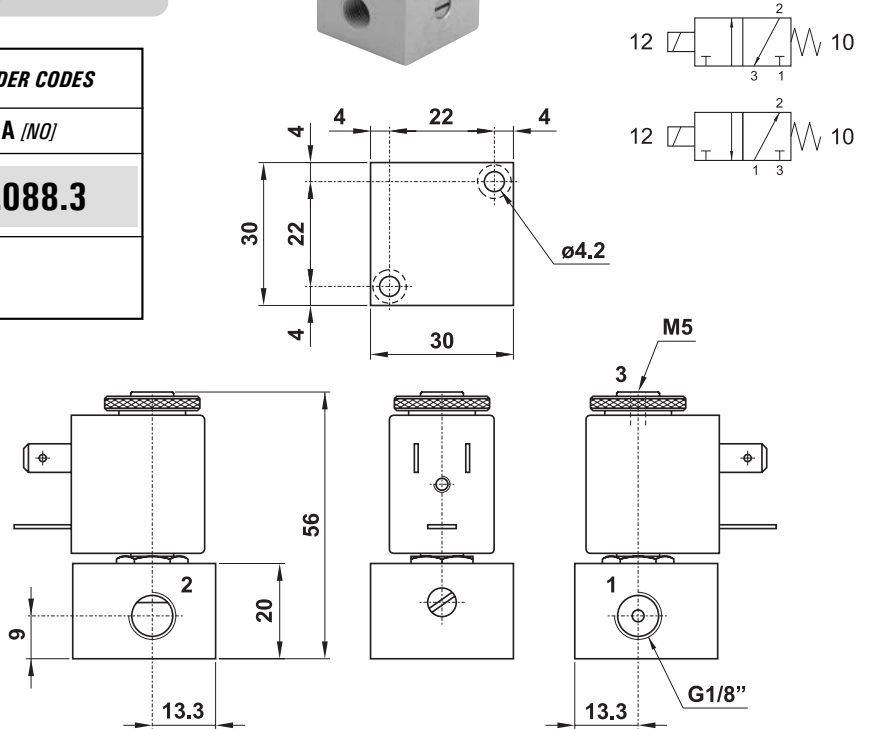
1/8"

bobina coil **22 mm**



	CODICI DI ORDINAZIONE - ORDER CODES	
	NC [NC]	NA [NO]
senza azion. manuale <i>without manual override</i>	00.071.3	00.088.3
con azion. manuale <i>with manual override</i>	00.051.3	

Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Diametro nominale <i>Nominal orifice</i>	1.1 mm
Portata nominale 1-2 <i>Nominal flow rate 1-2</i>	30 NI/min
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>



elettropilota singolo 3/2 con o senza azion. manuale bistabile
3/2 single solenoid valve with or without detented manual override

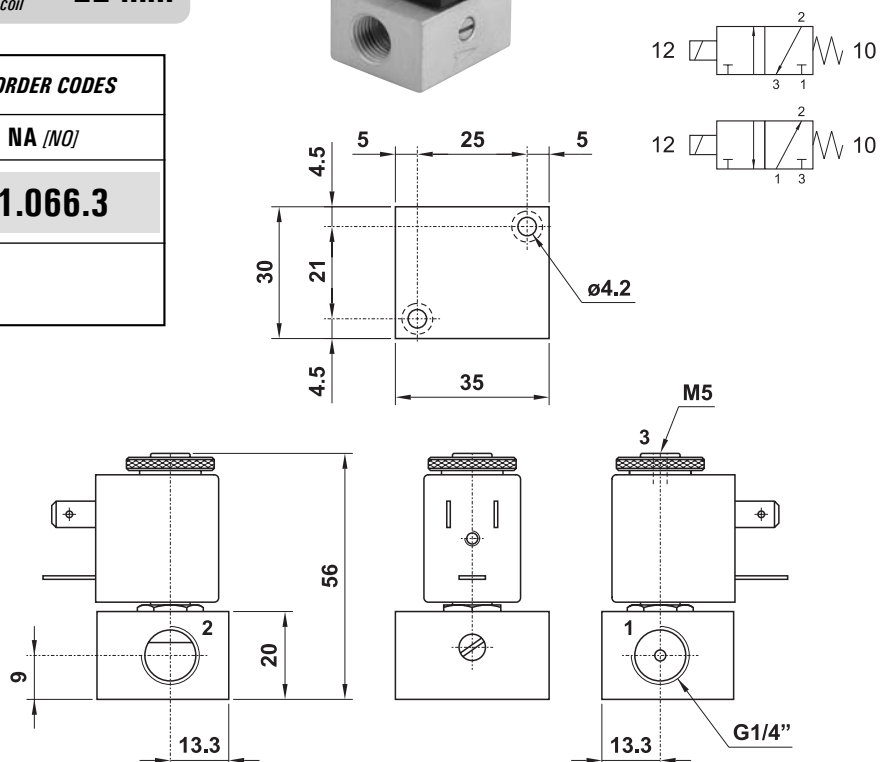
1/4"

bobina coil **22 mm**



	CODICI DI ORDINAZIONE - ORDER CODES	
	NC [NC]	NA [NO]
senza azion. manuale <i>without manual override</i>	01.068.3	01.066.3
con azion. manuale <i>with manual override</i>	01.005.3	

Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Diametro nominale <i>Nominal orifice</i>	1.1 mm
Portata nominale 1-2 <i>Nominal flow rate 1-2</i>	30 NI/min
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>



elettropiloti su base

solenoid valves on manifold



I prodotti qui indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 98).
All here mentioned products are sold without coils, which are bought separately (refer to page 98).

elettropilota singolo 3/2 NC su base CNOMO con azionatore manuale
3/2 NC single solenoid valve on CNOMO-base with manual override

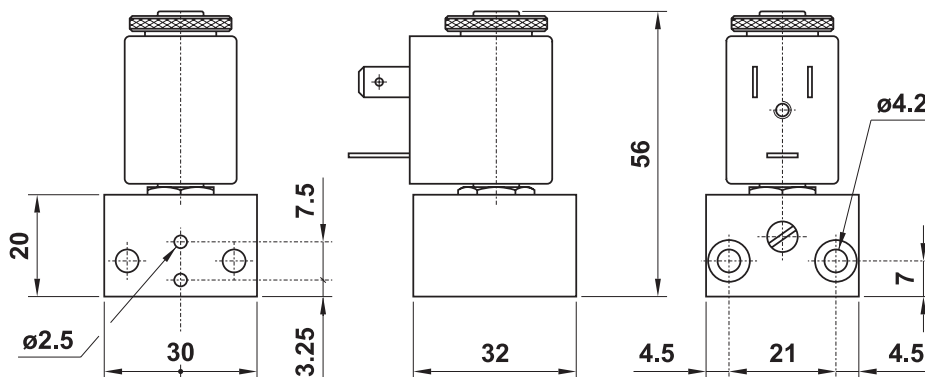
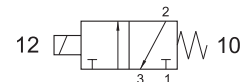
bobina
coil **22 mm**

00.004.3

con azionatore manuale bistabile
with detented manual override

00.064.3

con azionatore manuale monostabile
with non-detented manual override



Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Diametro nominale <i>Nominal orifice</i>	1.1 mm
Portata nominale 1-2 <i>Nominal flow rate 1-2</i>	30 NI/min
Fluido <i>Fluid</i>	Aria filtrata 50μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>

elettropiloti su base

solenoid valves on manifold



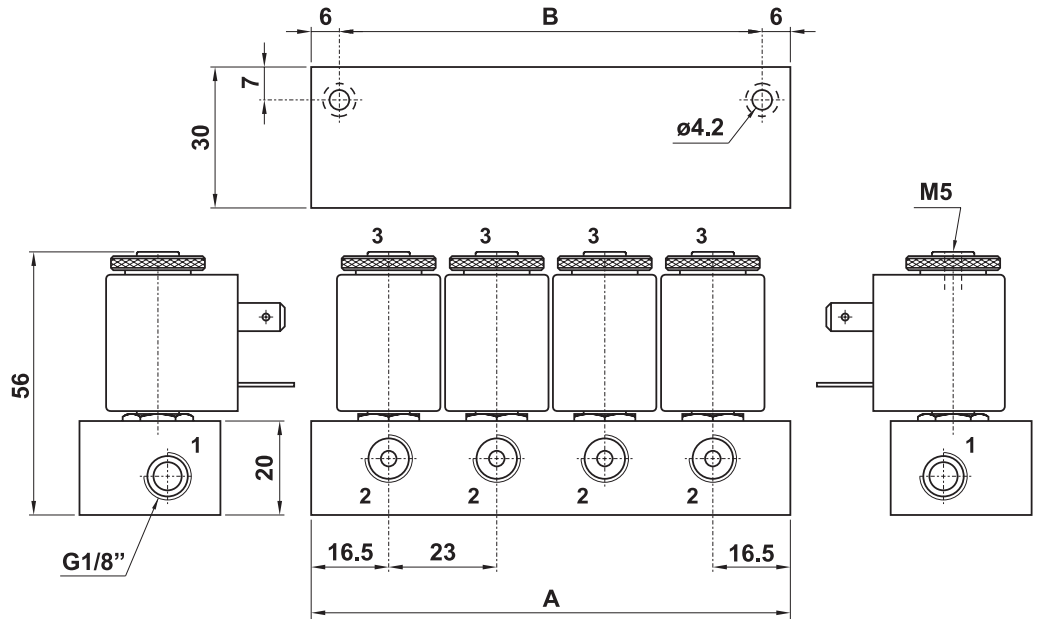
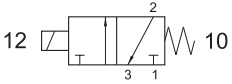
I prodotti qui indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 98).
All here mentioned products are sold without coils, which are bought separately (refer to page 98).

elettropiloti 3/2 NC su base senza azionatore manuale 3/2 NC solenoid valves on manifold without manual override

22 mm



- diametro nominale 1.1 mm
nominal orifice 1.1 mm



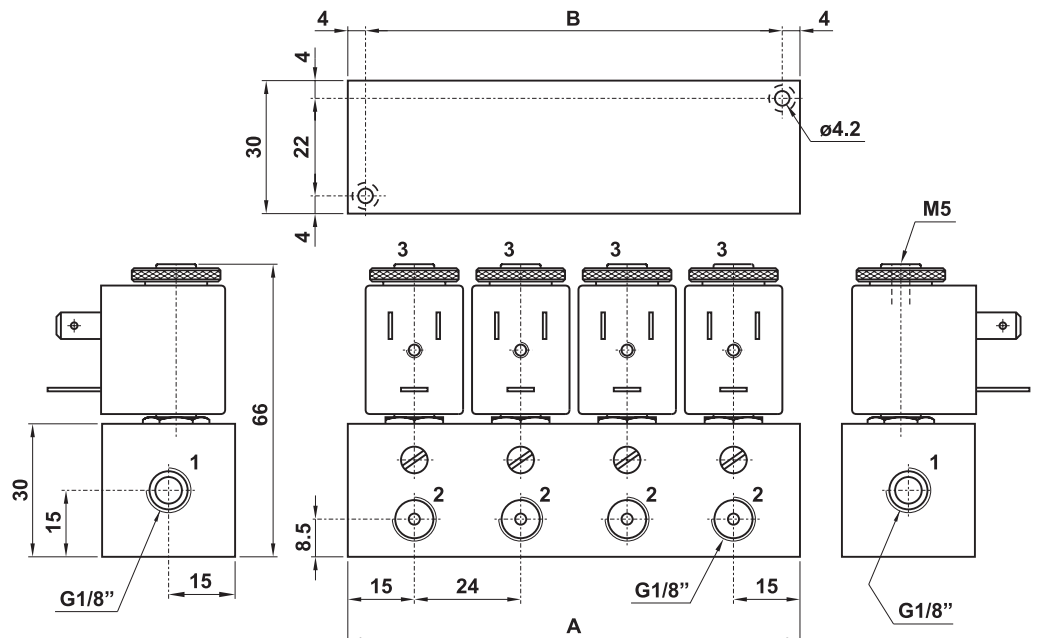
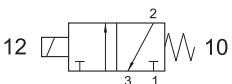
modello model	nr. posizioni no. stations	A	B
00.072.3	2	56	44
00.073.3	3	79	67
00.074.3	4	102	90
00.075.3	5	125	113
00.076.3	6	148	136
00.077.3	7	171	159
00.078.3	8	194	182
00.079.3	9	217	205
00.080.3	10	240	228

elettropiloti 3/2 NC su base con azionatore manuale bistabile 3/2 NC solenoid valves on manifold with detented manual override

22 mm



- diametro nominale 1.1 mm
nominal orifice 1.1 mm



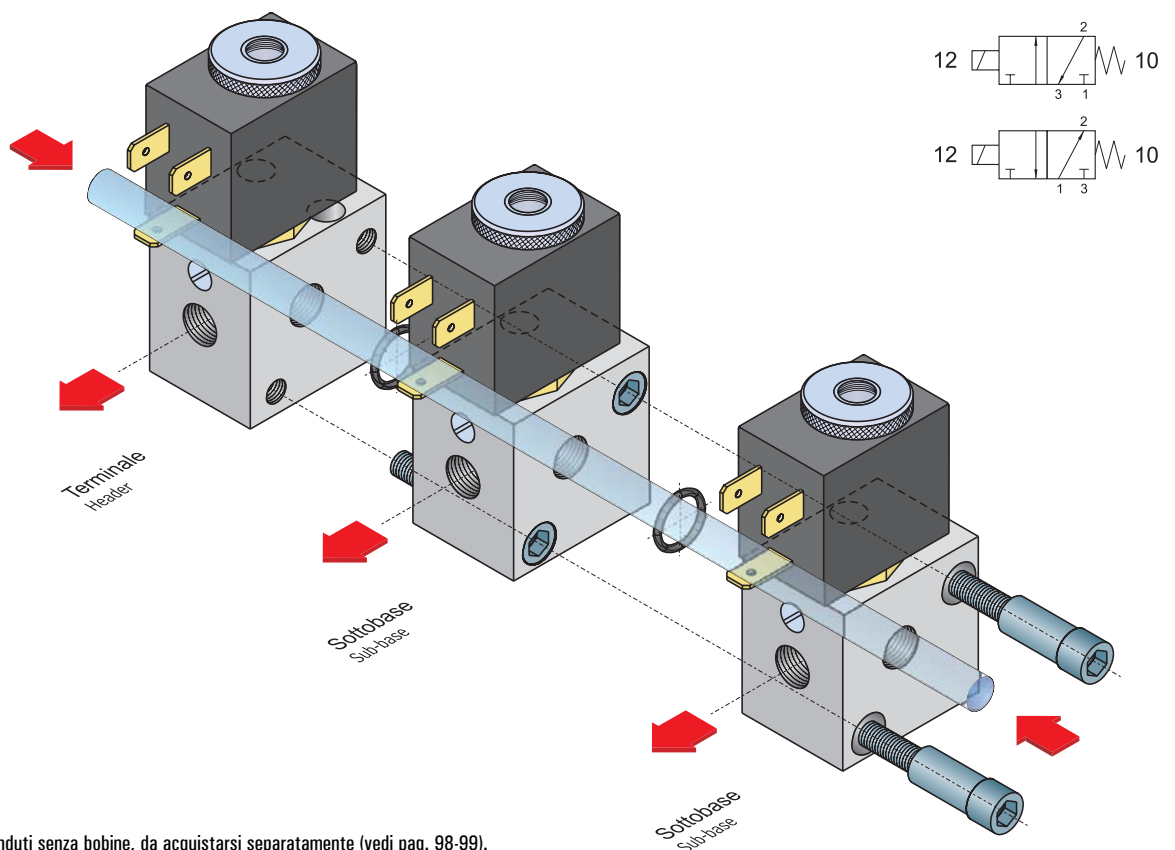
modello model	nr. posizioni no. stations	A	B
00.052.3	2	54	46
00.053.3	3	78	70
00.054.3	4	102	94
00.055.3	5	126	118
00.056.3	6	150	142

elettropiloti su basi modulari

solenoid valves on multiple sub-bases



- Uscite filettate G1/8" o con raccordo automatico per tubo ø4
User ports: G1/8" or push-in fittings for ø4 tube
- I terminali possono essere utilizzati come basi singole
Headers can be used also as bases for standing-alone solenoid valves
- Con o senza azionatore manuale bistabile
With or without detented manual override
- Versione 3/2 normalmente chiusa e normalmente aperta
Normally closed and normally open 3/2 version
- Per bobine da 22 mm (a richiesta per bobine da 30 mm)
For 22 mm coils (on request for 30 mm coils)



I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 98-99).
The following listed products are sold without coils, which are bought separately (refer to page 98-99).

Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Diametro nominale <i>Nominal orifice</i>	1.1 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

Basi e terminali sono venduti con tutti i particolari necessari per l'installazione modulare.
Sub-bases and headers are sold with all necessary pieces for installation.

elettropiloti su basi modulari

solenoid valves on multiple sub-bases



sottobase
sub-base

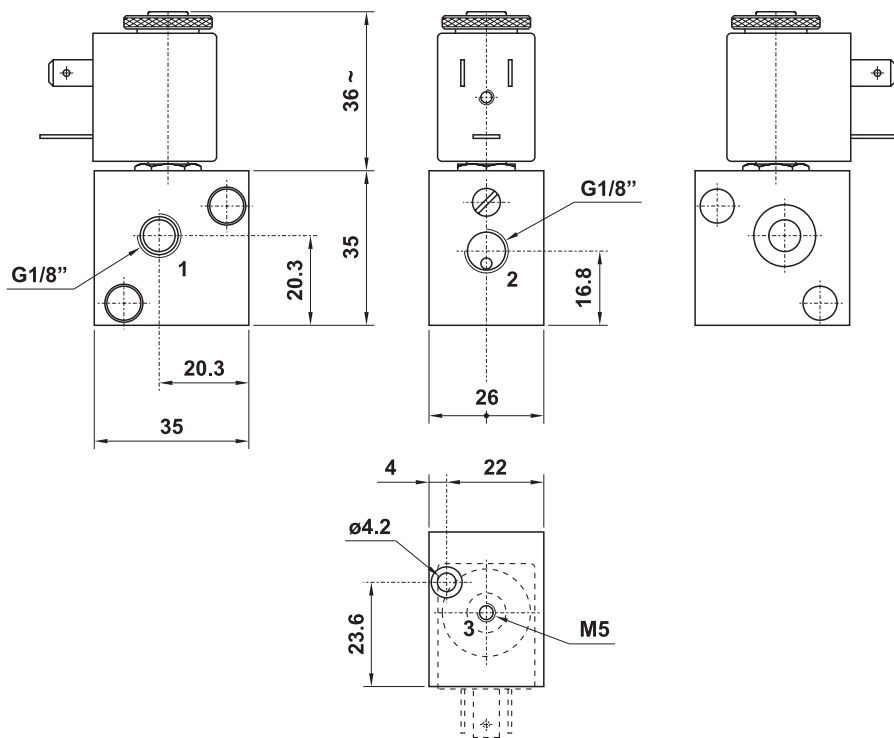
con azionatore manuale bistabile
with detented manual override

G1/8"

CODICE DI ORDINAZIONE - ORDER CODE

NC [NC]

00.094.3



terminale
header

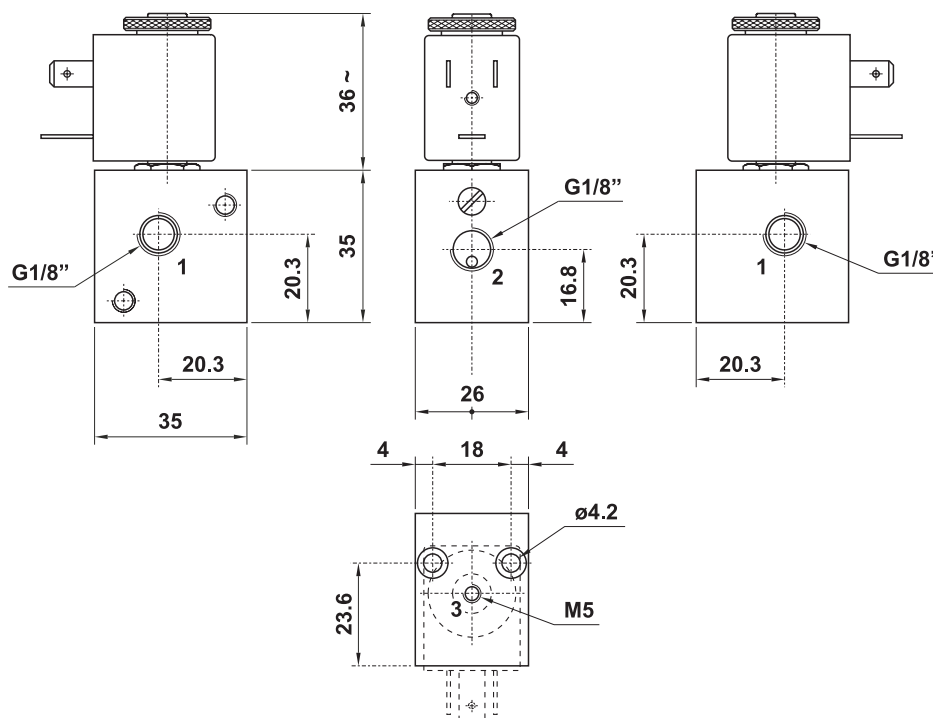
con azionatore manuale bistabile
with detented manual override

G1/8"

CODICE DI ORDINAZIONE - ORDER CODE

NC [NC]

00.095.3



elettropiloti su basi modulari

solenoid valves on multiple sub-bases



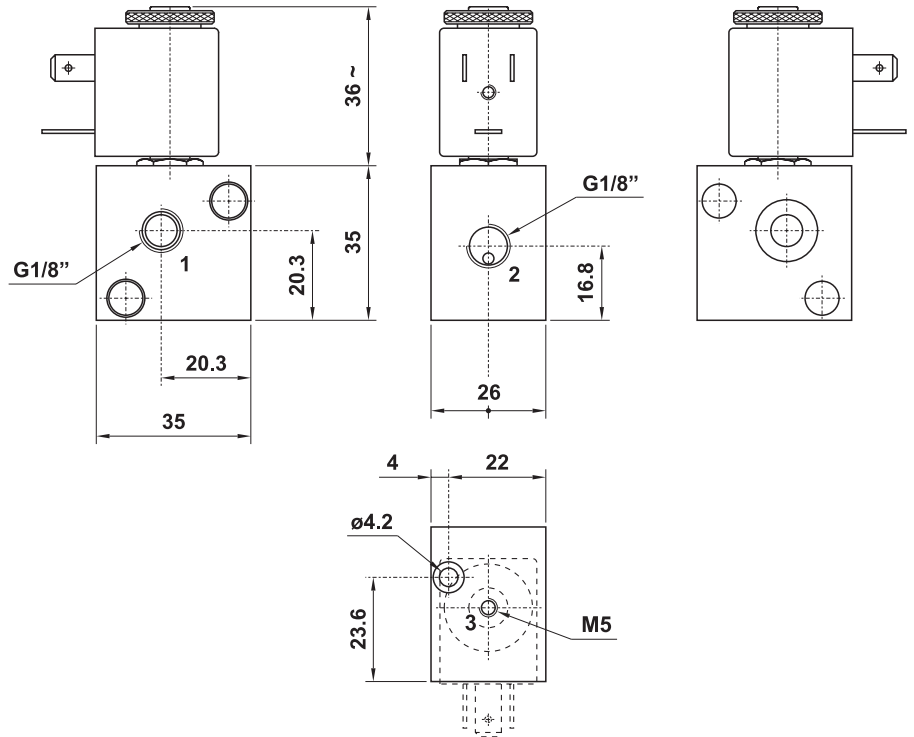
sottobase
sub-base

senza azionatore manuale
without manual override

G1/8"

CODICI DI ORDINAZIONE - ORDER CODES

NC [NC]	NA [NO]
00.096.3	00.130.3



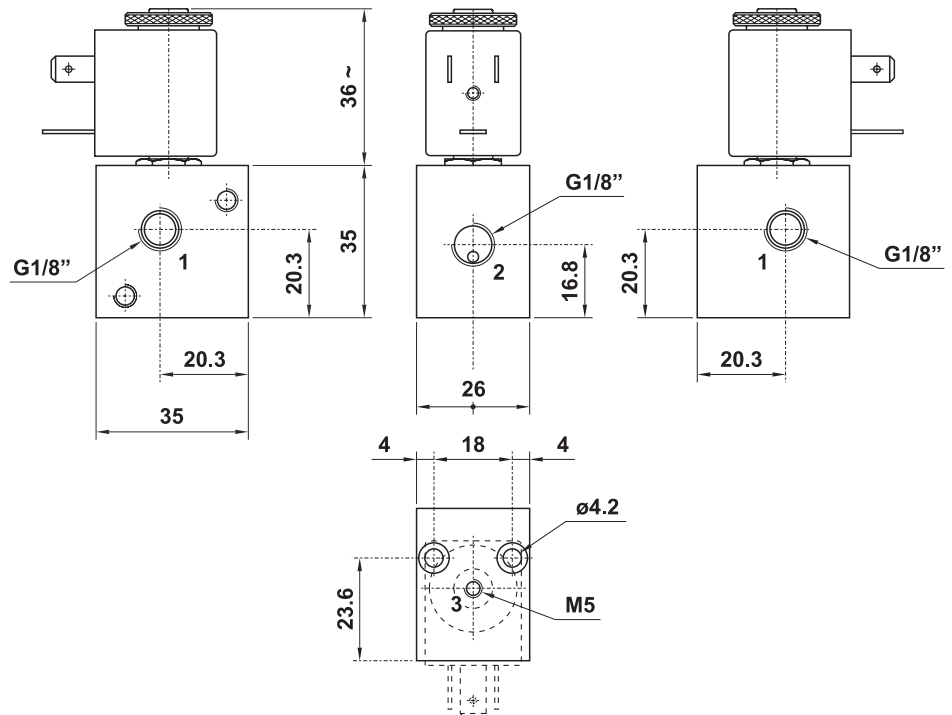
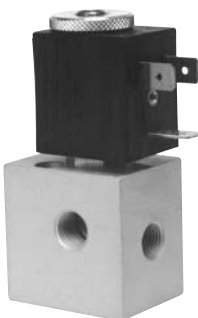
terminale
header

senza azionatore manuale
without manual override

G1/8"

CODICI DI ORDINAZIONE - ORDER CODES

NC [NC]	NA [NO]
00.097.3	00.131.3



elettropiloti su basi modulari

solenoid valves on multiple sub-bases



sottobase
sub-base

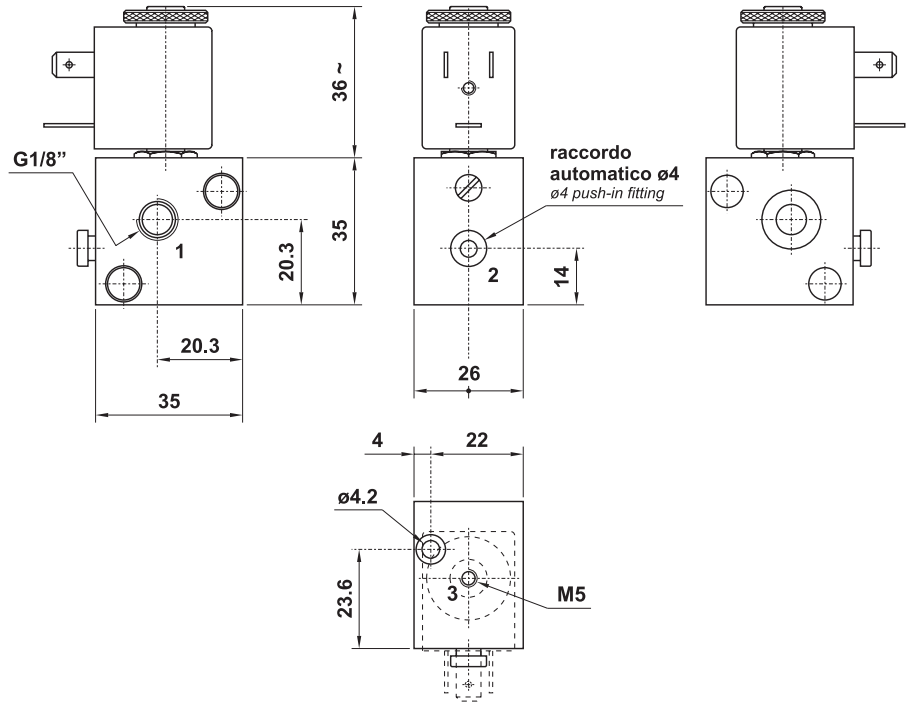
con azionatore manuale bistabile
with detented manual override

ø4

CODICE DI ORDINAZIONE - ORDER CODE

NC [NC]

00.098.3



terminale
header

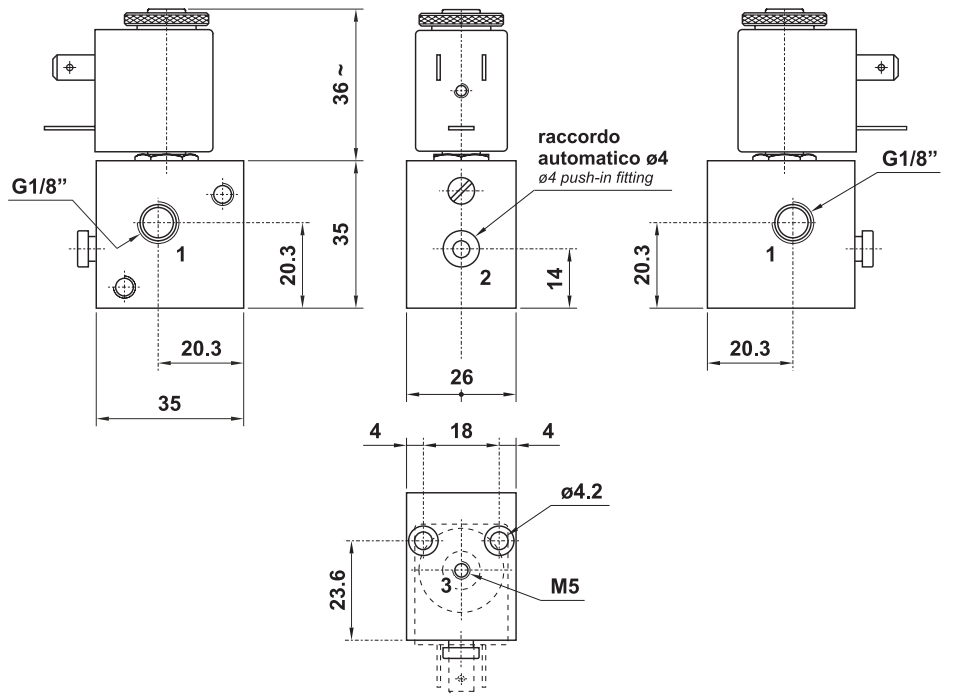
con azionatore manuale bistabile
with detented manual override

ø4

CODICE DI ORDINAZIONE - ORDER CODE

NC [NC]

00.099.3



elettropiloti su basi modulari

solenoid valves on multiple sub-bases



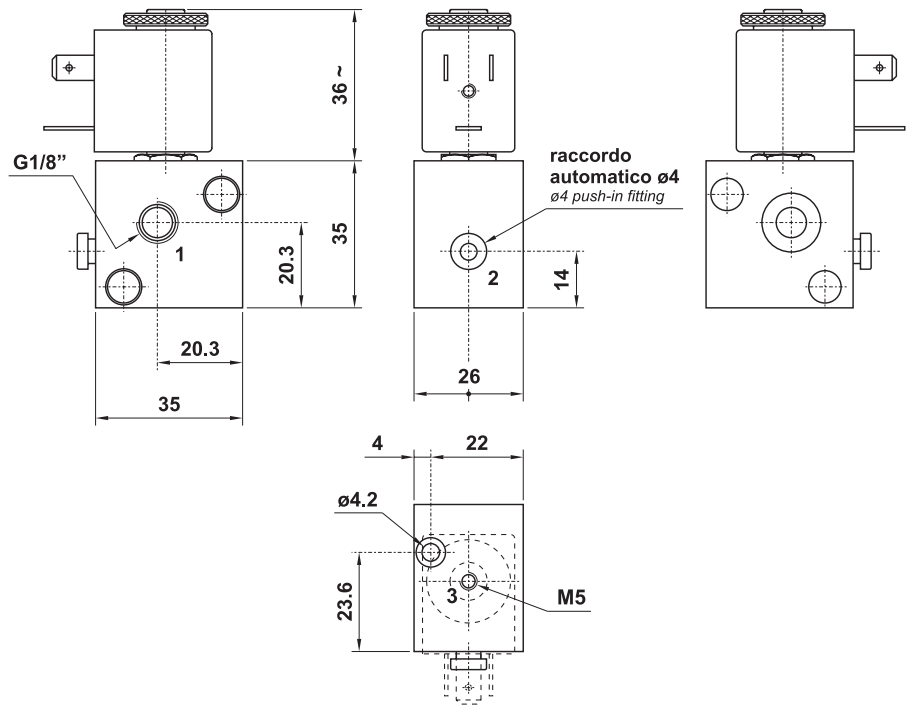
sottobase
sub-base

senza azionatore manuale
without manual override

ø4

CODICI DI ORDINAZIONE - ORDER CODES

NC [NC]	NA [NO]
00.100.3	00.134.3



1

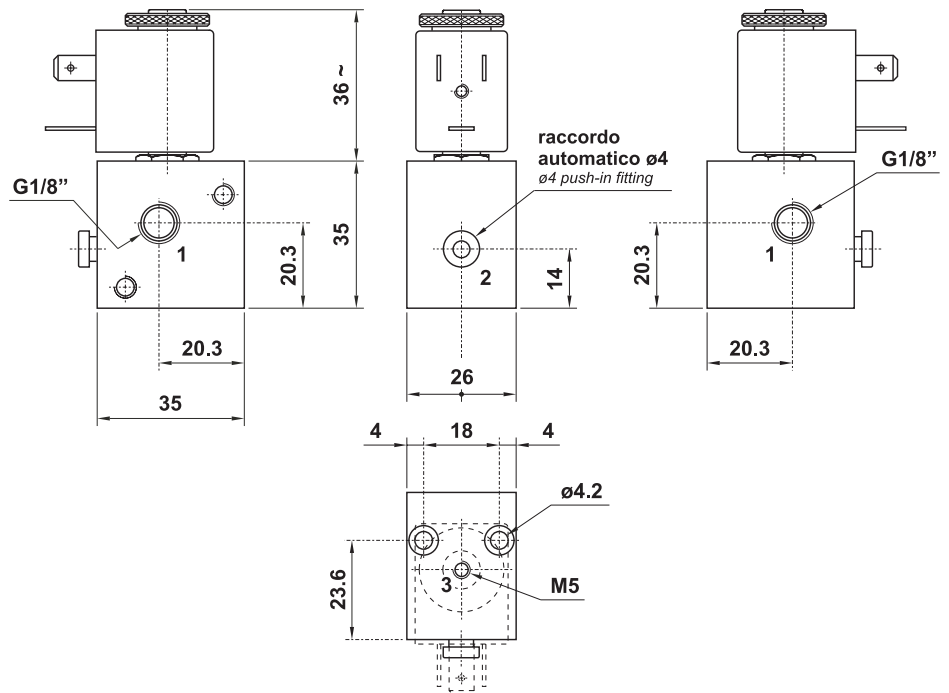
terminale
header

senza azionatore manuale
without manual override

ø4

CODICI DI ORDINAZIONE - ORDER CODES

NC [NC]	NA [NO]
00.101.3	00.135.3



bobine e connettori 22 mm

22 mm coils and connectors



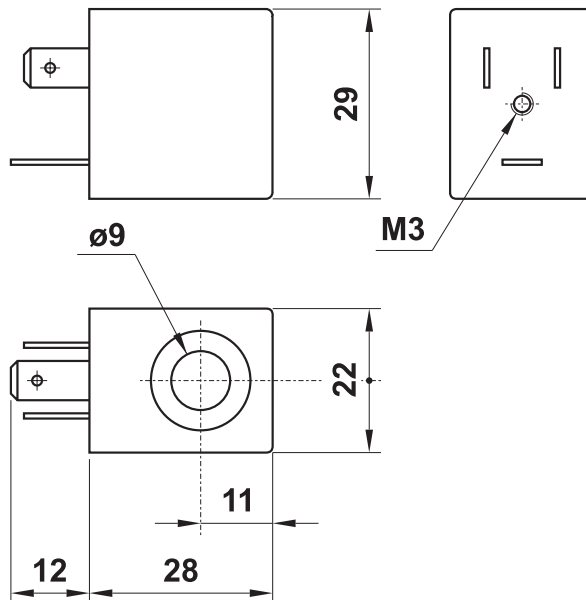
22 mm



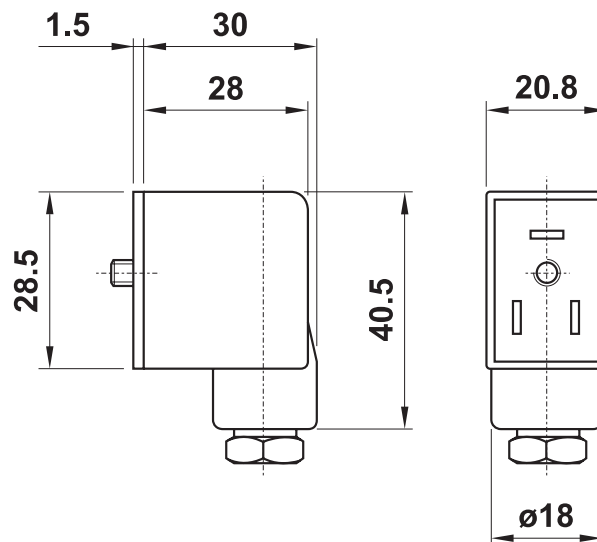
temperatura max di esercizio	+50°C	<i>max working temperature</i>
inserimento	ED 100%	<i>duty cycle</i>
protezione con connettore correttamente montato	IP 65	<i>protection with connector correctly mounted</i>
tolleranza di tensione	±10%	<i>tension tolerance</i>

- a richiesta basso assorbimento 1.5W
low consumption (1.5W) on request

codice <i>code</i>	tensione <i>tension</i>	consumo - power	
		a regime <i>rated</i>	di spunto <i>inrush</i>
00.167.0	12V DC	3W	
00.028.0	24V DC	3W	
00.029.0	24V 50/60Hz	5VA	7.5VA
00.030.0	110V 50/60Hz	5VA	7.5VA
00.031.0	220V 50/60Hz	5VA	7.5VA



codice <i>code</i>	colore <i>colour</i>	cavo <i>cable</i>	tipo <i>type</i>
00.197.0	nero <i>black</i>	PG09	normale <i>standard</i>
00.344.0	trasparente <i>transparent</i>	PG09	con LED 24V <i>with LED 24V</i>
00.345.0	trasparente <i>transparent</i>	PG09	con LED 24V e VDR <i>with LED 24V and VDR</i>
00.346.0	trasparente <i>transparent</i>	PG09	con LED 115V <i>with LED 115V</i>
00.347.0	trasparente <i>transparent</i>	PG09	con LED 115V e VDR <i>with LED 115V and VDR</i>
00.394.0	trasparente <i>transparent</i>	PG09	con LED 230V <i>with LED 230V</i>
00.395.0	trasparente <i>transparent</i>	PG09	con LED 230V e VDR <i>with LED 230V and VDR</i>



PEZZI DI RICAMBIO - spare parts
canotto per elettropilota
armature for solenoid pilot

NC : 00.088.0
NA (NO) : 00.306.0

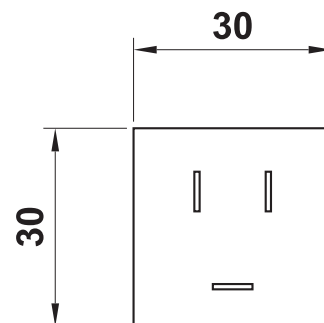
bobine e connettori 30 mm

30 mm coils and connectors

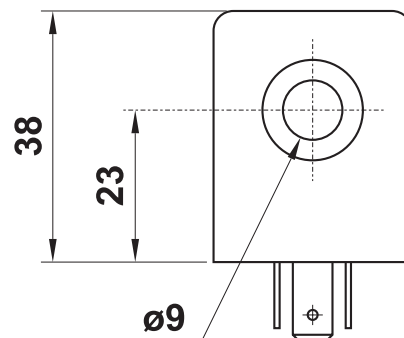


30 mm

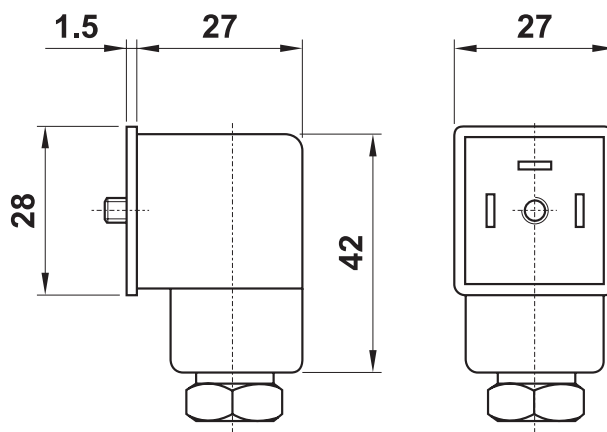
temperatura max di esercizio	+50°C	max working temperature
inserimento	ED 100%	duty cycle
protezione con connettore correttamente montato	IP 65	protection with connector correctly mounted
tolleranza di tensione	±10%	tension tolerance

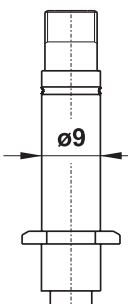


codice code	tensione tension	consumo - power	
		a regime rated	di spunto inrush
00.258.0	24V DC	2W	
00.259.0	24V 50/60Hz	5VA	9VA
00.260.0	110V 50/60Hz	5VA	9VA
00.261.0	220V 50/60Hz	5VA	9VA



codice code	colore colour	cavo cable	tipo type
00.251.0	nero black	PG09	normale standard
00.348.0	trasparente transparent	PG09	con LED 24V with LED 24V
00.349.0	trasparente transparent	PG09	con LED 24V e VDR with LED 24V and VDR
00.350.0	trasparente transparent	PG09	con LED 115V with LED 115V
00.351.0	trasparente transparent	PG09	con LED 115V e VDR with LED 115V and VDR
00.396.0	trasparente transparent	PG09	con LED 230V with LED 230V
00.397.0	trasparente transparent	PG09	con LED 230V e VDR with LED 230V and VDR





PEZZI DI RICAMBIO - spare parts
canotto per elettropilota
armature for solenoid pilot

NC : 00.088.0
NA (NO) : 00.306.0

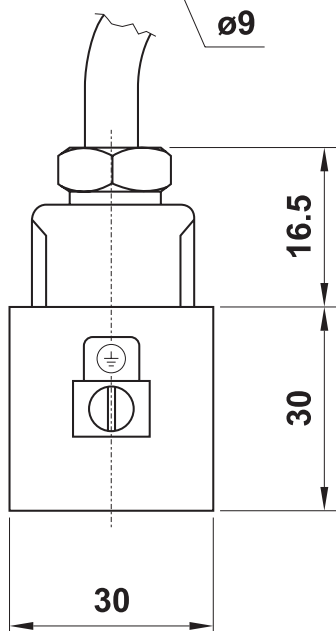
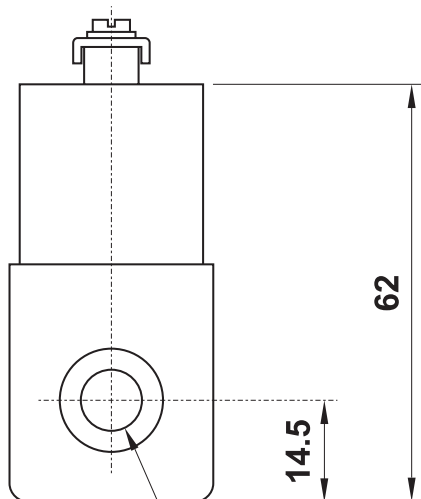
bobine antideflagranti

explosion proof coils



- Bobine antideflagranti EExm II T5 T4 a norma EN 50014 - EN 50028
EExm II T5 T4 explosion proof coils according to EN 50014 - EN 50028
- Adatte per ambienti potenzialmente esplosivi classe II
Suitable for potentially explosive environment class II
- Con certificato ATEX
With ATEX certification
- Dotate di cavo da 3 o 5 metri
With 3 or 5 metres cable

30 mm



temperatura max di esercizio	+50°C	<i>max working temperature</i>
inserimento	ED 100%	<i>duty cycle</i>
consumo	3W	<i>power consumption</i>
tolleranza sulla tensione	±10%	<i>tension tolerance</i>

modello <i>model</i>	tensione <i>tension</i>	lunghezza cavo <i>cable length</i>
00.284.0	24V DC	3 m
00.305.0	24V DC	5 m
00.332.0	24V 50/60Hz	3 m
00.393.0	24V 50/60Hz	5 m
00.333.0	110V 50/60Hz	3 m
00.336.0	110V 50/60Hz	5 m
00.392.0	220V 50/60Hz	3 m
00.370.0	220V 50/60Hz	5 m



basi per elettropiloti 15 mm

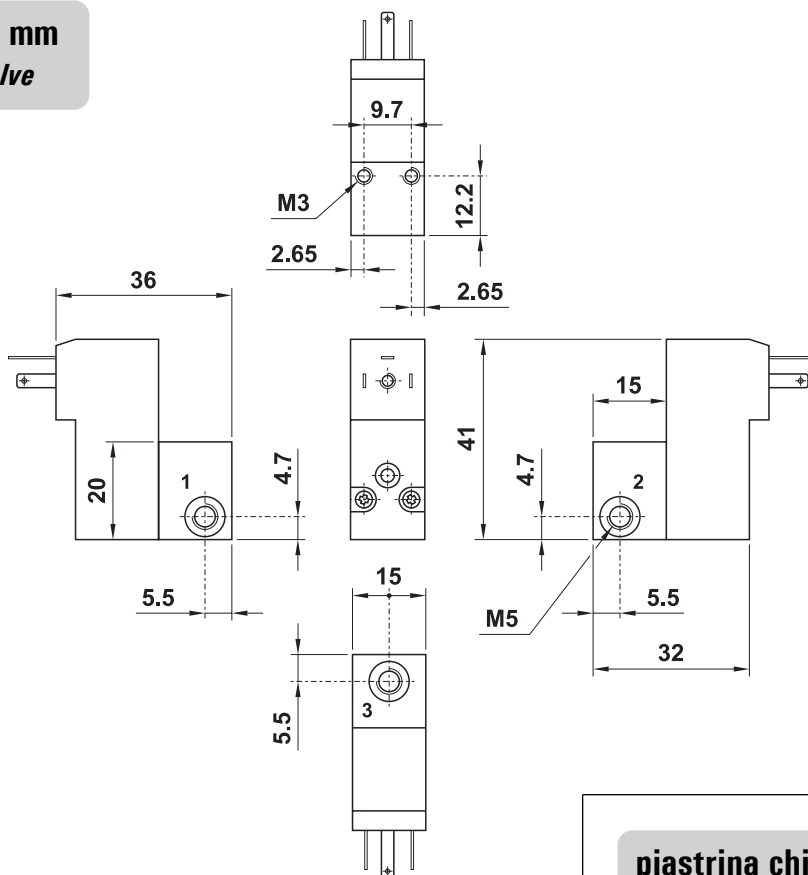
manifolds for 15 mm solenoid valves



I codici qui riportati si riferiscono alla sola base. Gli elettropiloti devono essere ordinati separatamente (vedi pag. 102).
All here mentioned codes are referred only to manifolds. Solenoid valves are bought separately (see page 102).

base per elettropilota singolo NC 15 mm single manifold for 15 mm NC solenoid valve

AU.061.1

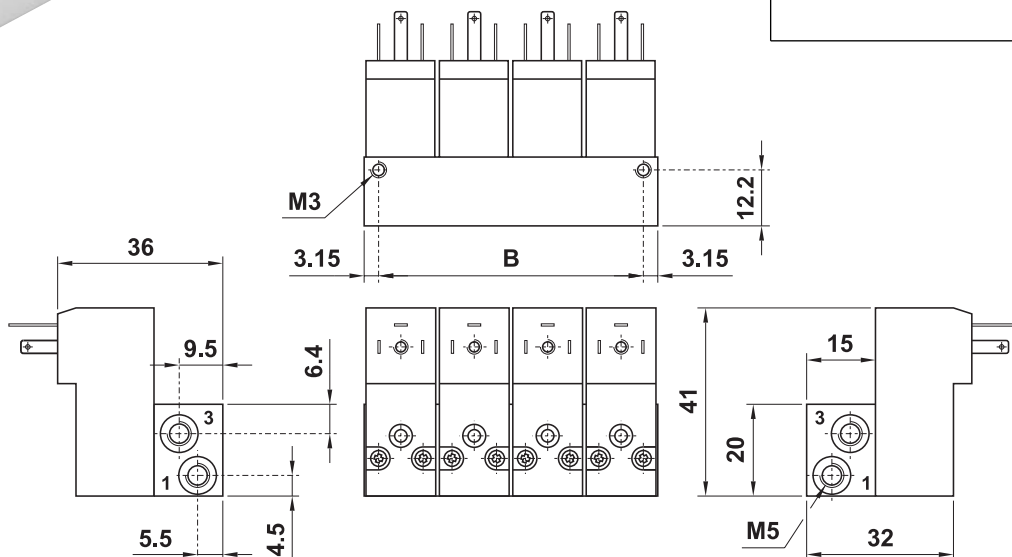
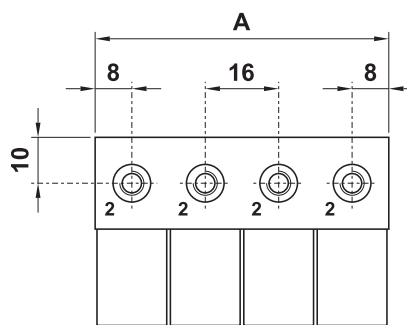


piastrina chiusura
blanking plate

00.093.2



basi a posti fissi per elettropiloti NC 15 mm manifolds for 15 mm NC solenoid valves



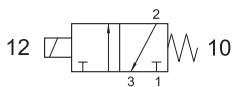
modello model	nr. posizioni no. stations	A	B
AU.062.1	2	32	25.7
AU.063.1	3	48	41.7
AU.064.1	4	64	57.7
AU.065.1	5	80	73.7
AU.066.1	6	96	89.7
AU.067.1	7	112	105.7
AU.068.1	8	128	121.7
AU.069.1	9	144	137.7
AU.070.1	10	160	153.7

elettropiloti e connettori 15 mm

15 mm solenoids and connectors



15 mm

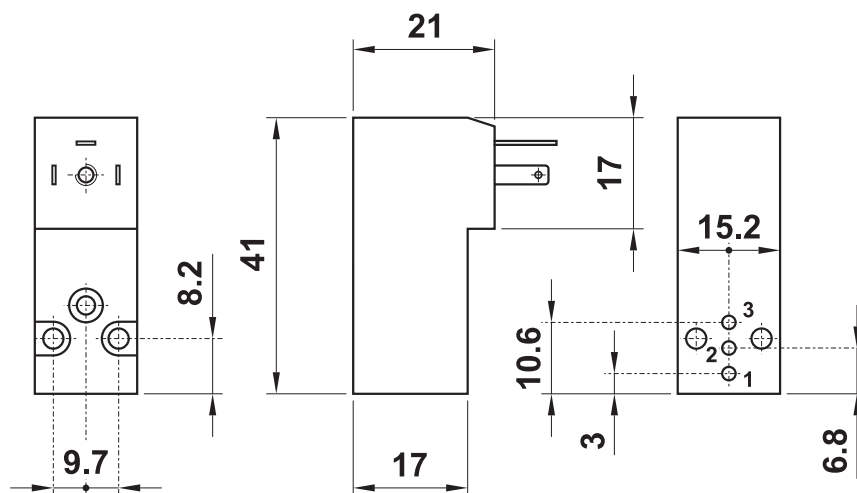


funzione della valvola	3/2 NC	<i>valve function</i>
diámetro nominale	1.1 mm	<i>nominal orifice</i>
portata 1-2	30 NI/min	<i>flow rate 1-2</i>
portata 2-3	35 NI/min	<i>flow rate 2-3</i>
pressione di esercizio	max 10 bar	<i>working pressure</i>
durata cicli	100x10⁶	<i>life time (cycles)</i>
tempo di risposta	10 ms	<i>response time</i>
temperatura max di esercizio	+50°C	<i>max working temperature</i>
inserimento	ED 100%	<i>duty cycle</i>
consumo a regime	DC: 2W	<i>rated power consumption</i>
	AC: 1.3VA	
protezione	IP 51	<i>protection</i>
tolleranza di tensione	-10%; +15%	<i>tension tolerance</i>

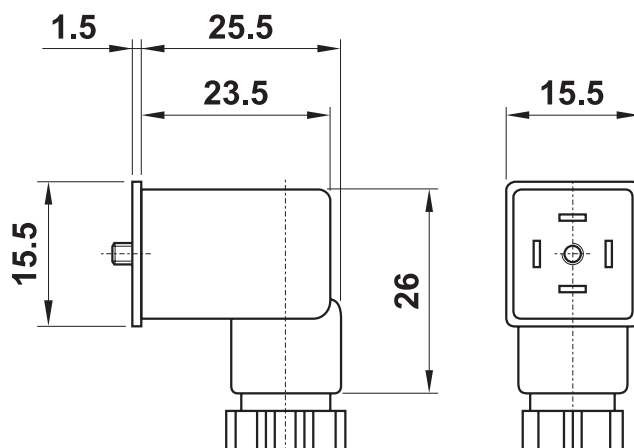


- Connessione elettrica: DIN 43650 forma C
Electrical connection: DIN 43650, C form
- Con azionatore manuale monostabile
With non-detented manual override

codice <i>code</i>	tensione <i>tension</i>
00.253.0	12V DC
00.254.0	24V DC
00.255.0	24V 50/60Hz
00.256.0	110V 50/60Hz
00.257.0	220V 50/60Hz



codice <i>code</i>	colore <i>colour</i>	cavo <i>cable</i>	tipo <i>type</i>
00.252.0	nero <i>black</i>	PG07	normale <i>standard</i>
00.340.0	trasparente <i>transparent</i>	PG07	con LED 24V <i>with LED 24V</i>
00.341.0	trasparente <i>transparent</i>	PG07	con LED 24V e VDR <i>with LED 24V and VDR</i>
00.342.0	trasparente <i>transparent</i>	PG07	con LED 115V <i>with LED 115V</i>
00.343.0	trasparente <i>transparent</i>	PG07	con LED 115V e VDR <i>with LED 115V and VDR</i>
00.398.0	trasparente <i>transparent</i>	PG07	con LED 230V <i>with LED 230V</i>
00.399.0	trasparente <i>transparent</i>	PG07	con LED 230V e VDR <i>with LED 230V and VDR</i>



valvole ad azionamento elettropneumatico

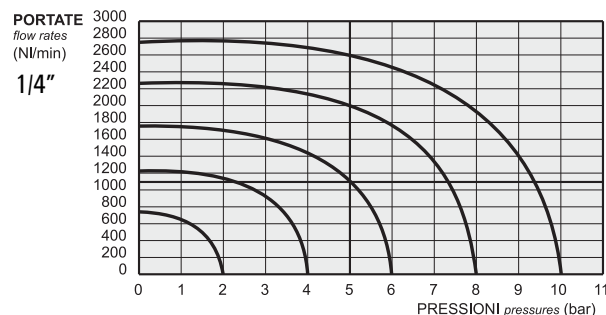
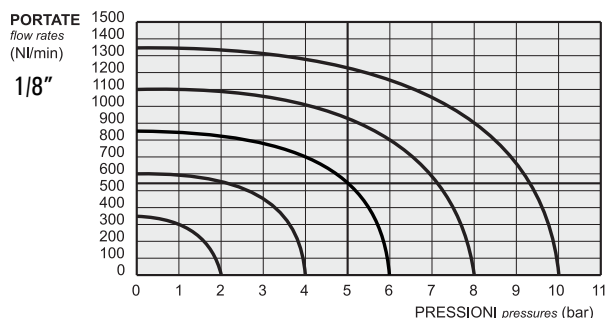
solenoid actuated valves



- Valvole a spola 3/2-5/2-5/3 con attacchi filettati G1/8"-G1/4"
3/2-5/2-5/3 spool valves with G1/8"-G1/4" threaded ports
- Montaggio in linea, su collettori multipli o su basi manifold
Installation in-line, on gang or modular manifolds
- Comandi elettrici con azionamento manuale bistabile
Solenoid pilots with detented manual override as standard
- A richiesta versione a basso assorbimento 1.5W
On request with low consumption 1.5W
- Esecuzioni speciali a richiesta
Special versions on request



I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 121).
The following listed products are sold without coils, which are bought separately (refer to page 121).



Tempi di risposta - response times

	1/8"	1/4"
monostabile <i>mono-stable</i>	TRA (14): 15 ms TRR (12): 35 ms	TRA (14): 19 ms TRR (12): 45 ms
bistabile <i>bi-stable</i>	TRA (14): 20 ms TRR (12): 20 ms	TRA (14): 22 ms TRR (12): 22 ms

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: alluminio nichelato

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spool: nickel plated aluminium

Internal parts: brass OT58

Diametro nominale <i>Nominal orifice</i>	1/8": 5 mm 1/4": 7.5 mm		
Temperatura di esercizio <i>Temperature range</i>	max +60°C		
Pressione di esercizio <i>Working pressure</i>	al. interna monost. [<i>monost. internal air supply</i>]	al. interna bist. [<i>bi-stable internal air supply</i>]	alim. separata [<i>separate air supply</i>]
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa	max 10 bar max 1 MPa
Pressione di azionamento (per alimentazione separata) <i>Actuating pressure (for separate air supply)</i>	monostabile [<i>mono-stable</i>]		bistabile [<i>bi-stable</i>]
	2.5 ... 10 bar 0.25 ... 1 MPa		1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>		

valvole ad azionamento elettropneumatico

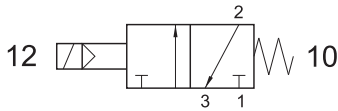
solenoid actuated valves



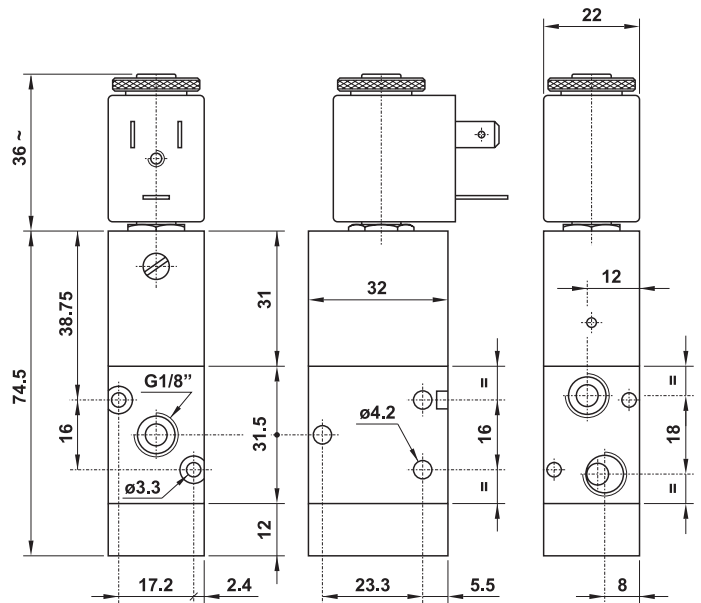
321 ME

3/2 1/8" NC comando elettrico - ritorno a molla

3/2 1/8" NC solenoid pilot - spring return



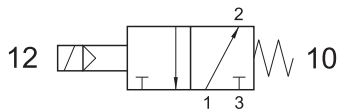
Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.



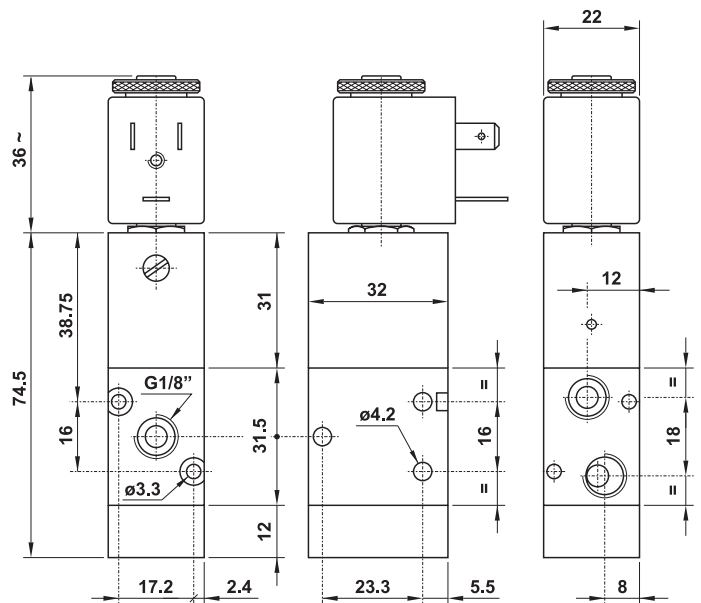
321 MEA

3/2 1/8" NA comando elettrico - ritorno a molla

3/2 1/8" NO solenoid pilot - spring return



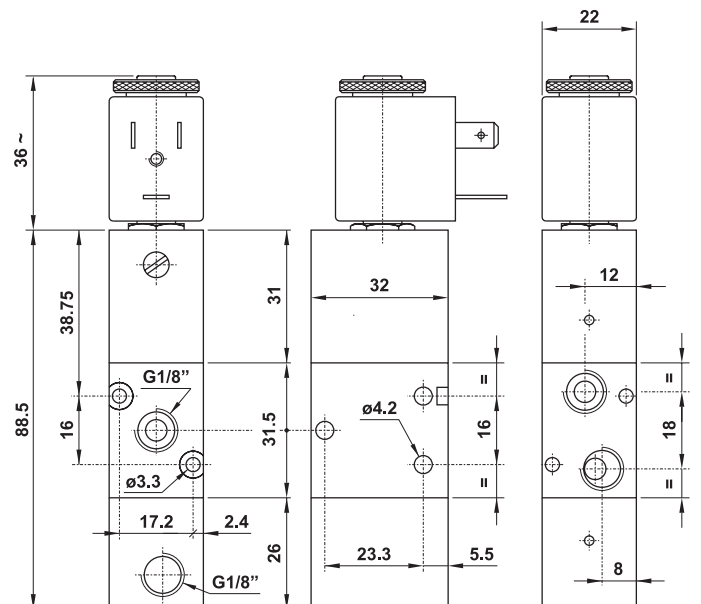
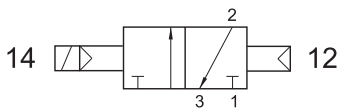
Non può essere utilizzata come valvola normalmente chiusa.
It cannot be used as normally closed valve.



321 CE

3/2 1/8" comando elettrico - ritorno a comando pneumatico

3/2 1/8" solenoid pilot - separate pneumatically piloted return



valvole ad azionamento elettropneumatico

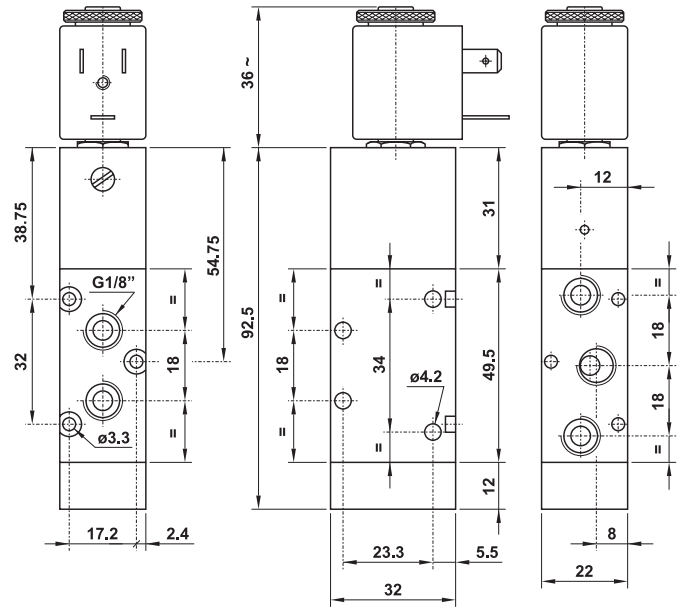
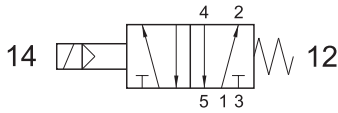
solenoid actuated valves



521 ME

5/2 1/8" comando elettrico - ritorno a molla

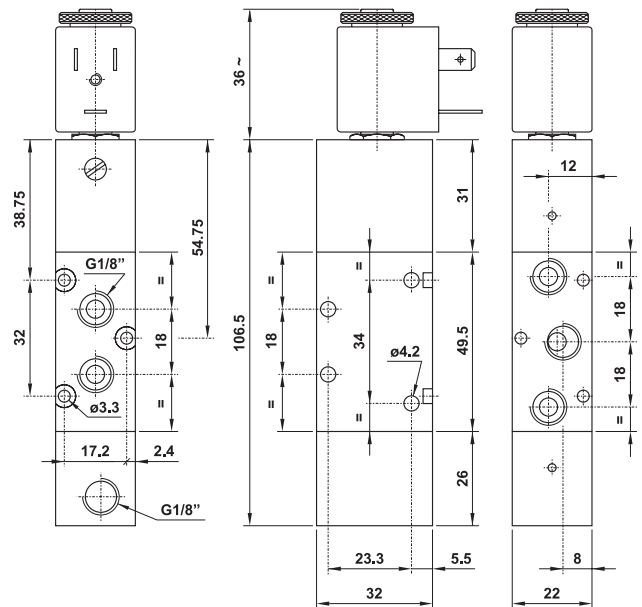
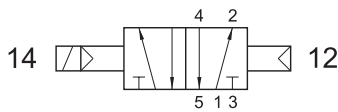
5/2 1/8" solenoid pilot - spring return



521 CE

5/2 1/8" comando elettrico - ritorno a comando pneumatico

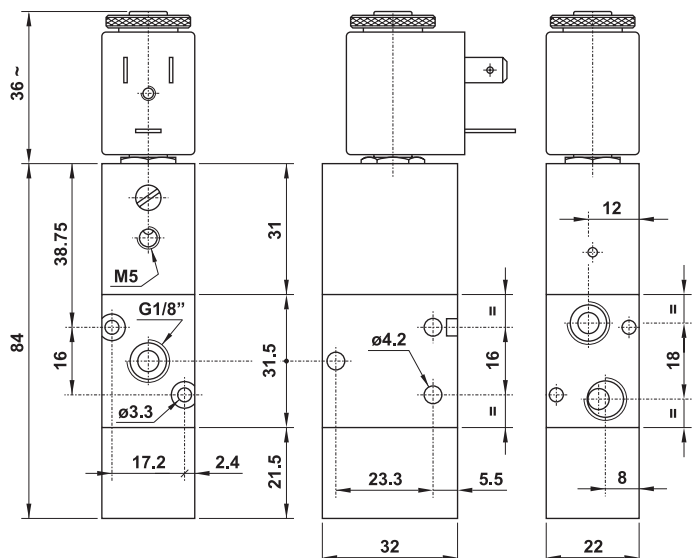
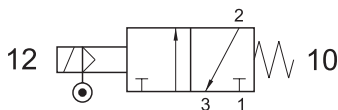
5/2 1/8" solenoid pilot - separate pneumatically piloted return



321 ME AS

3/2 1/8" comando elettrico alimentazione separata - ritorno a molla

3/2 1/8" solenoid pilot with separate air supply - spring return



valvole ad azionamento elettropneumatico

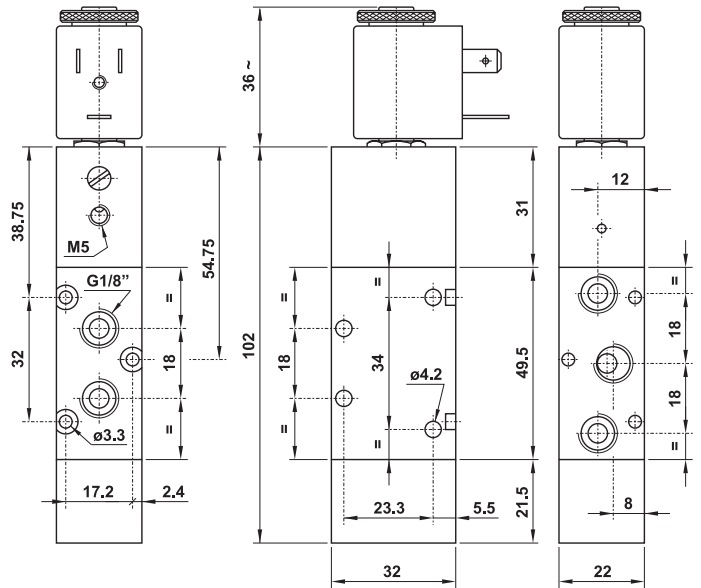
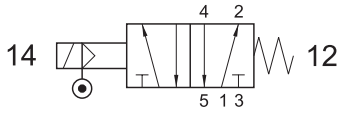
solenoid actuated valves



521 ME AS

5/2 1/8" comando elettrico alimentazione separata - ritorno a molla

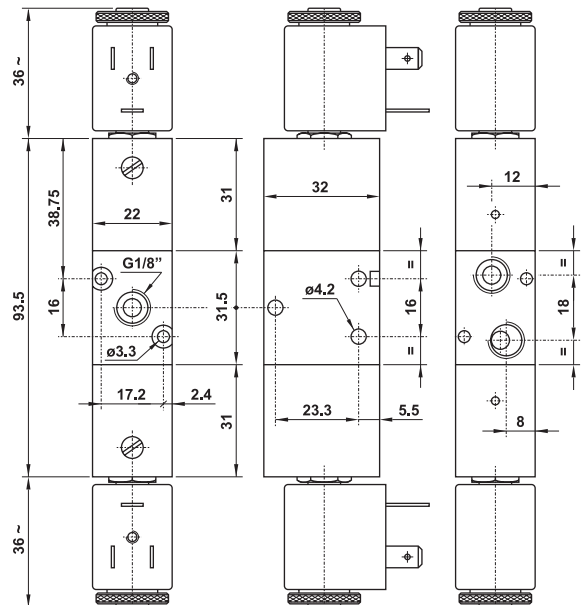
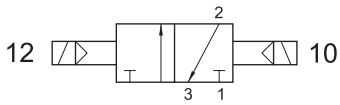
5/2 1/8" solenoid pilot with separate air supply - spring return



321 EE

3/2 1/8" doppio comando elettrico

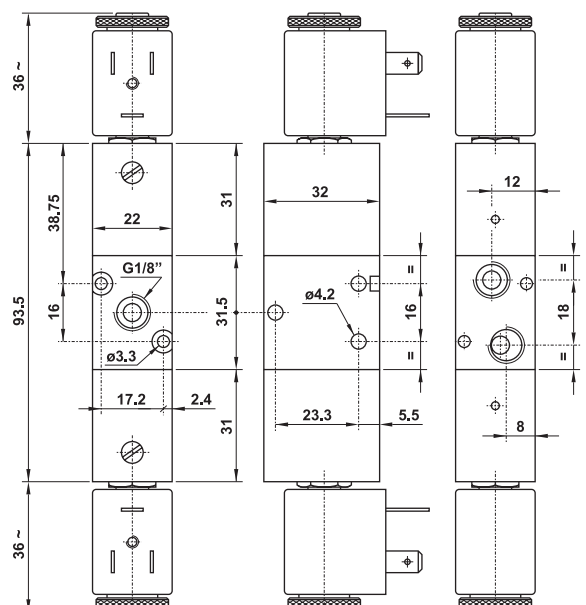
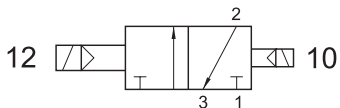
3/2 1/8" double solenoid pilot



321 EED

3/2 1/8" doppio comando elettrico - con differenziale

3/2 1/8" double solenoid pilot - with differential



valvole ad azionamento elettropneumatico

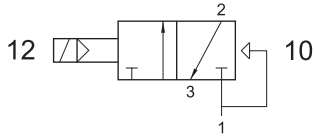
solenoid actuated valves



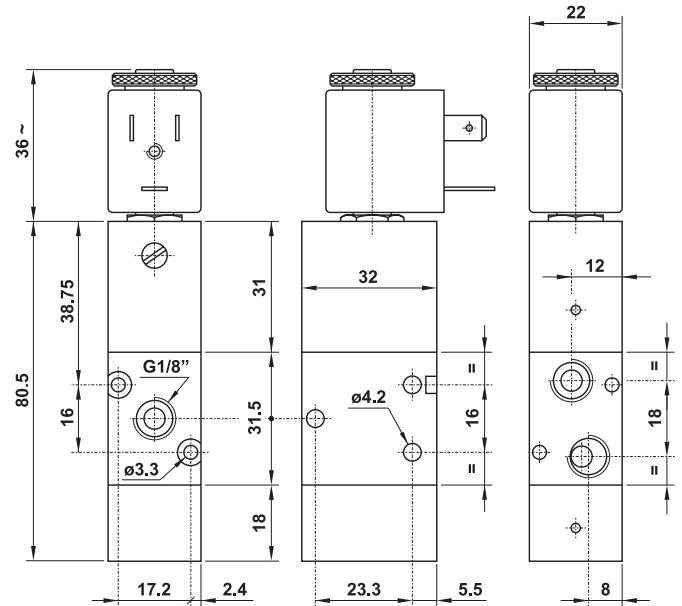
321 EFP

3/2 1/8" NC comando elettrico - ritorno a molla pneumatica

3/2 1/8" NC solenoid pilot - pneumatic spring return



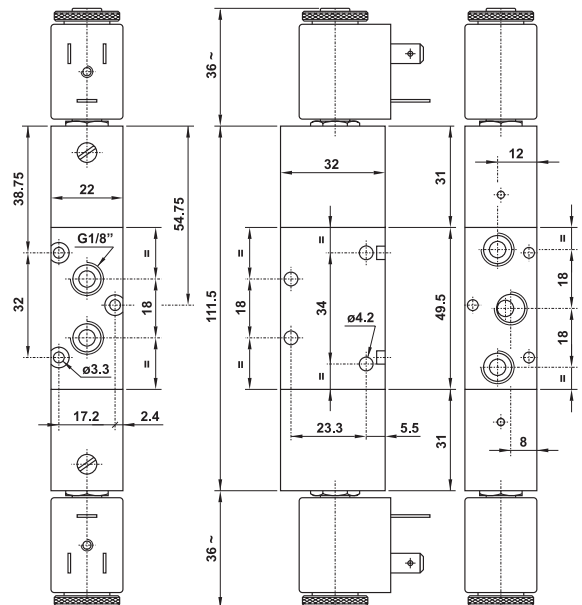
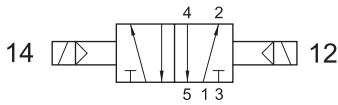
Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.



521 EE

5/2 1/8" doppio comando elettrico

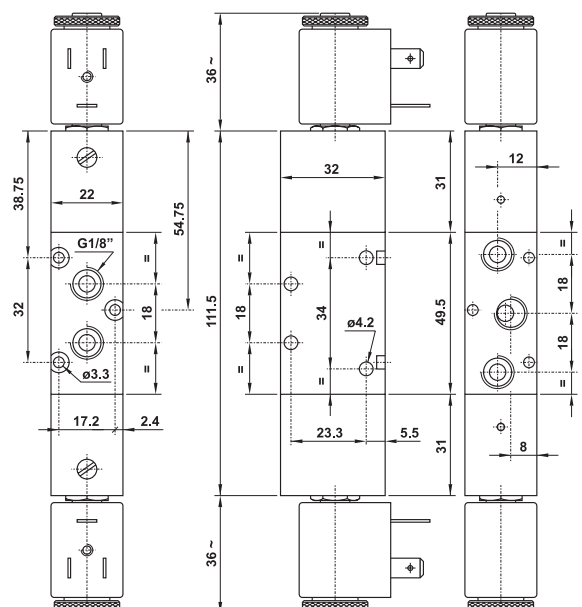
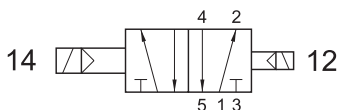
5/2 1/8" double solenoid pilot



521 EED

5/2 1/8" doppio comando elettrico - con differenziale

5/2 1/8" double solenoid pilot - with differential



valvole ad azionamento elettropneumatico

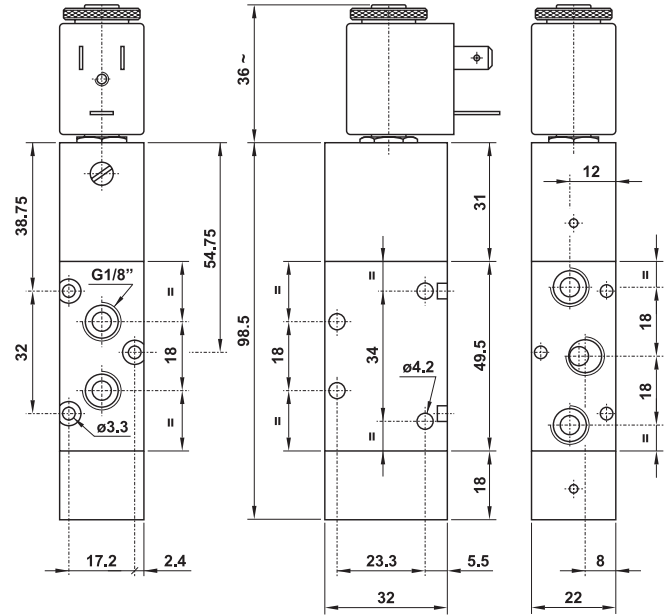
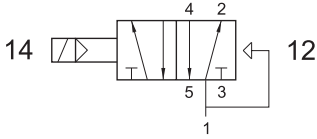
solenoid actuated valves



521 EFP

5/2 1/8" comando elettrico - ritorno a molla pneumatica

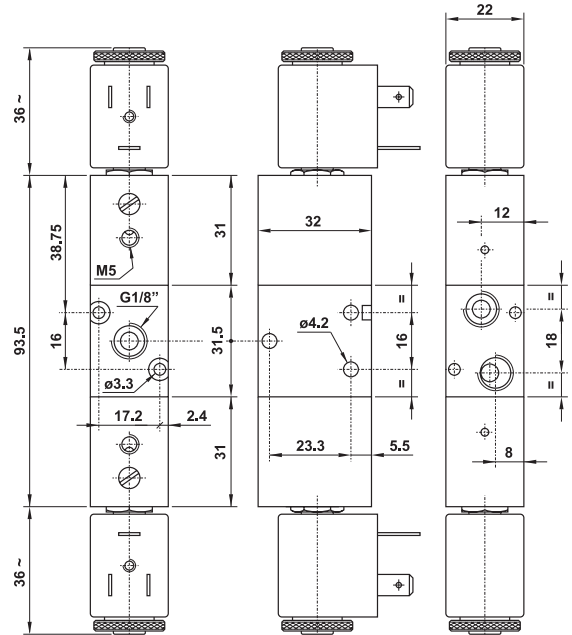
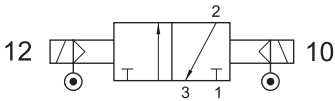
5/2 1/8" solenoid pilot - pneumatic spring return



321 EE AS

3/2 1/8" doppio comando elettrico alimentazione separata

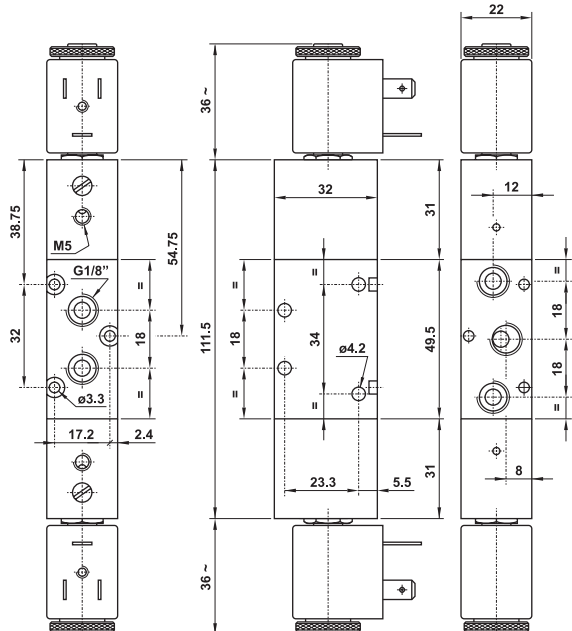
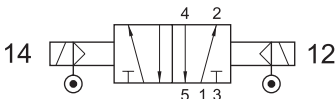
3/2 1/8" double solenoid pilot with separate air supply



521 EE AS

5/2 1/8" doppio comando elettrico alimentazione separata

5/2 1/8" double solenoid pilot with separate air supply



valvole ad azionamento elettropneumatico

solenoid actuated valves



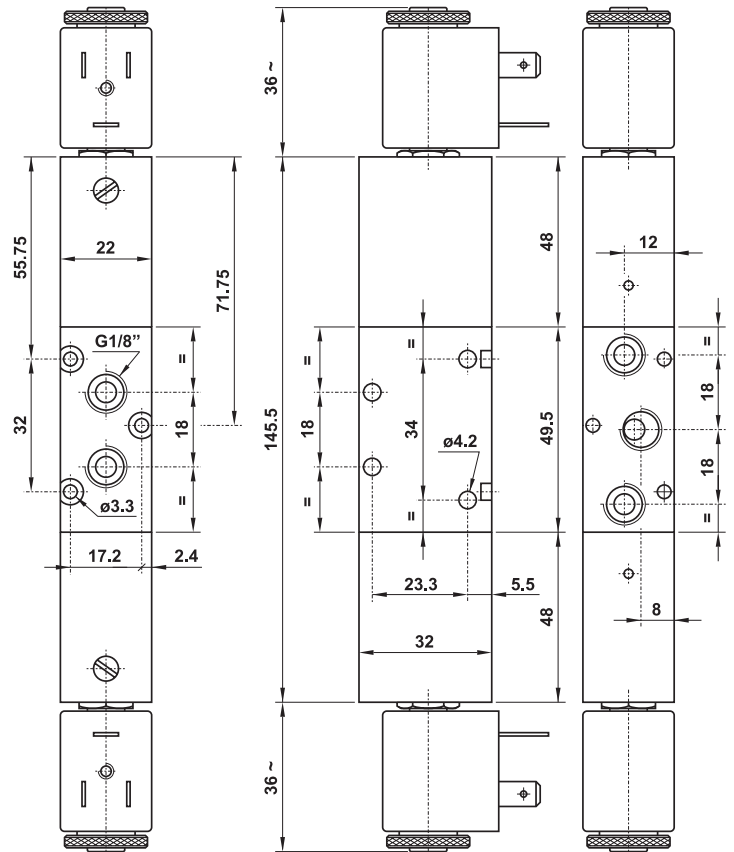
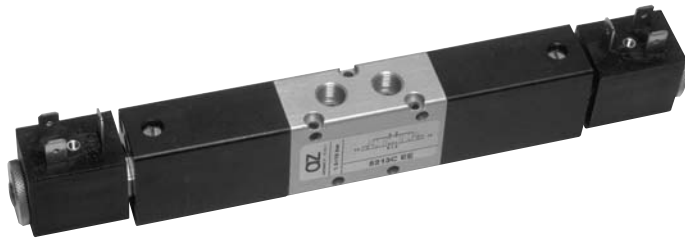
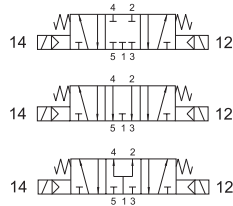
5213C EE centri chiusi
closed centres

5213A EE centri aperti
open centres

5213P EE centri in pressione
pressurized centres

5/3 1/8" doppio comando elettrico

5/3 1/8" double solenoid pilot



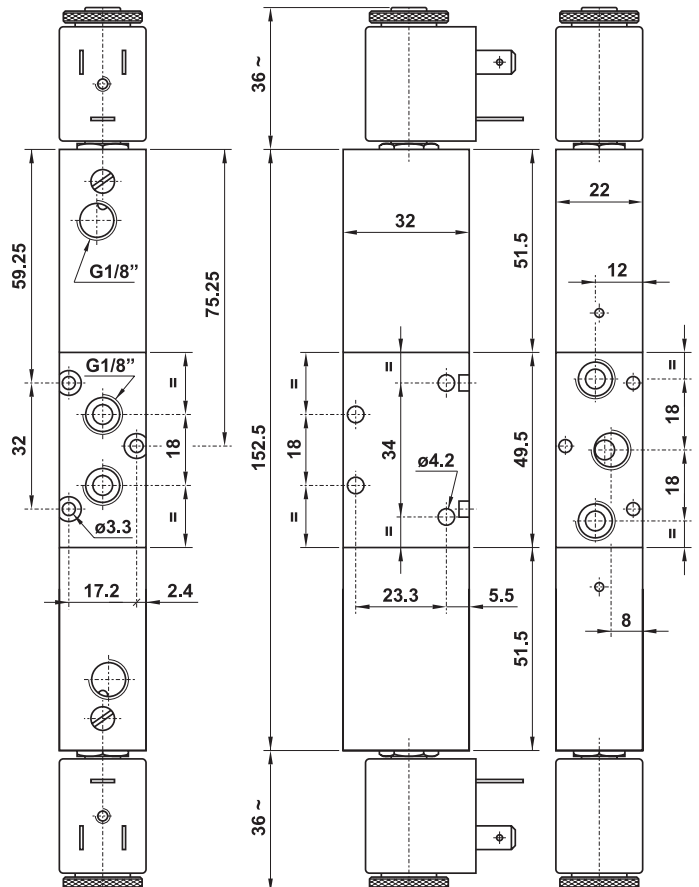
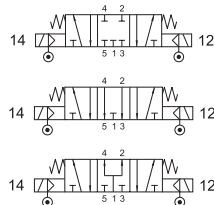
5213C EE AS centri chiusi
closed centres

5213A EE AS centri aperti
open centres

5213P EE AS centri in pressione
pressurized centres

5/3 1/8" doppio comando elettrico alimentazione separata

5/3 1/8" double solenoid pilot with separate air supply



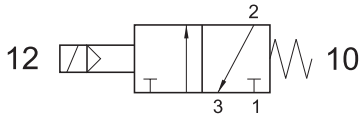
valvole ad azionamento elettropneumatico

solenoid actuated valves

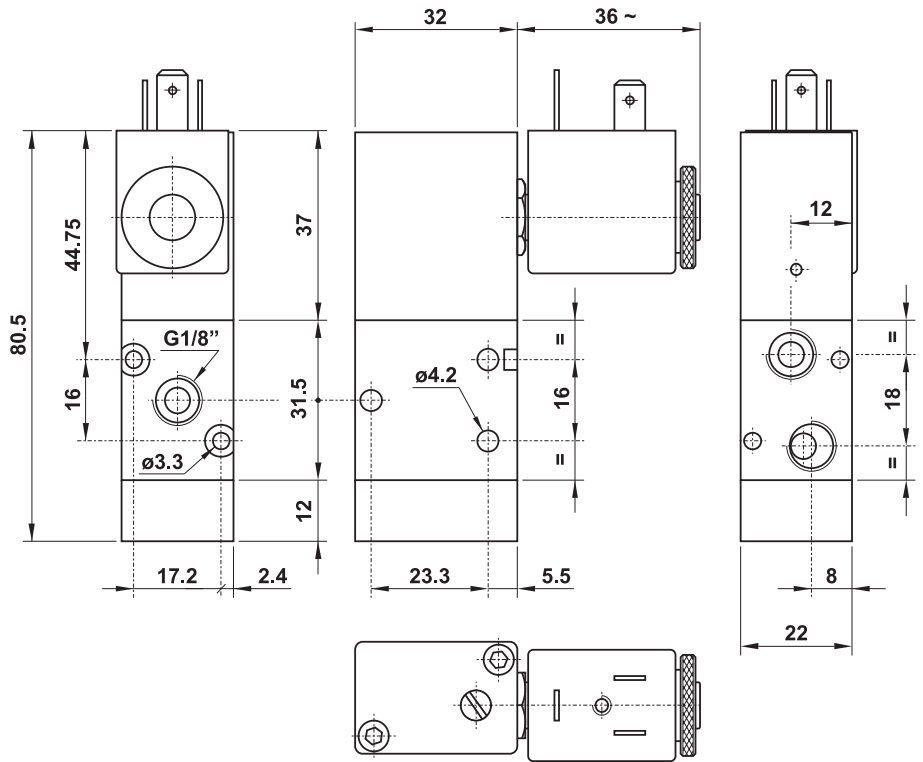


321 ME90 S

3/2 1/8" NC comando elettrico 90° sul lato stretto - ritorno a molla
3/2 1/8" NC 90° solenoid pilot on the narrow side for compact assembly - spring return

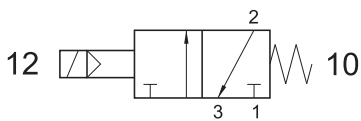


Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.

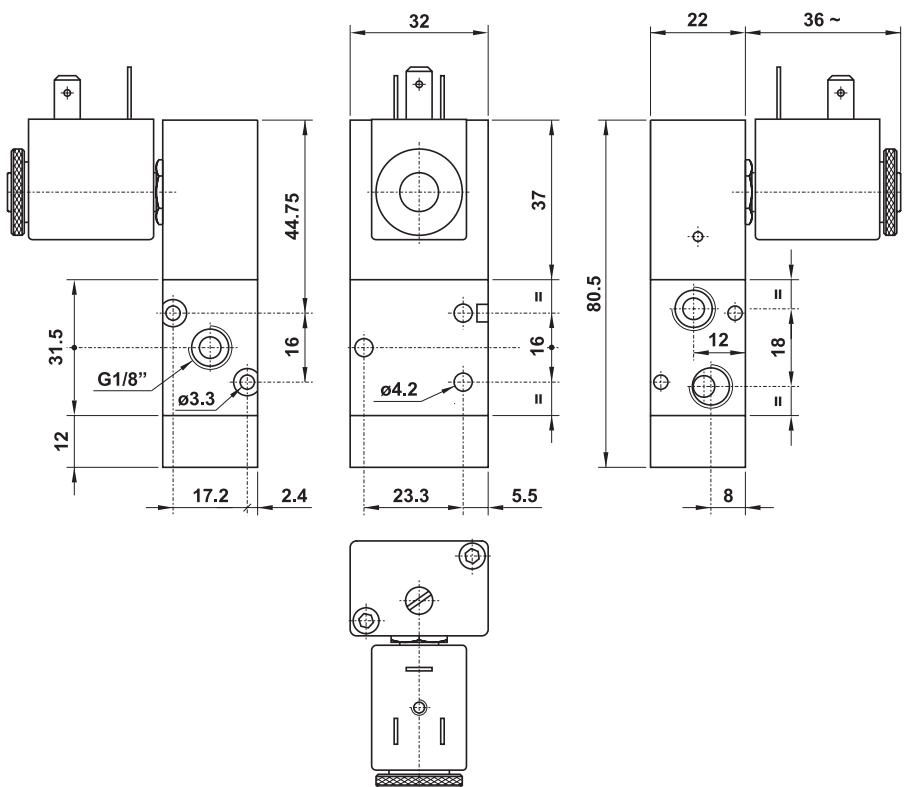


321 ME90 L

3/2 1/8" NC comando elettrico 90° sul lato largo - ritorno a molla
3/2 1/8" NC 90° solenoid pilot on the wide side - spring return



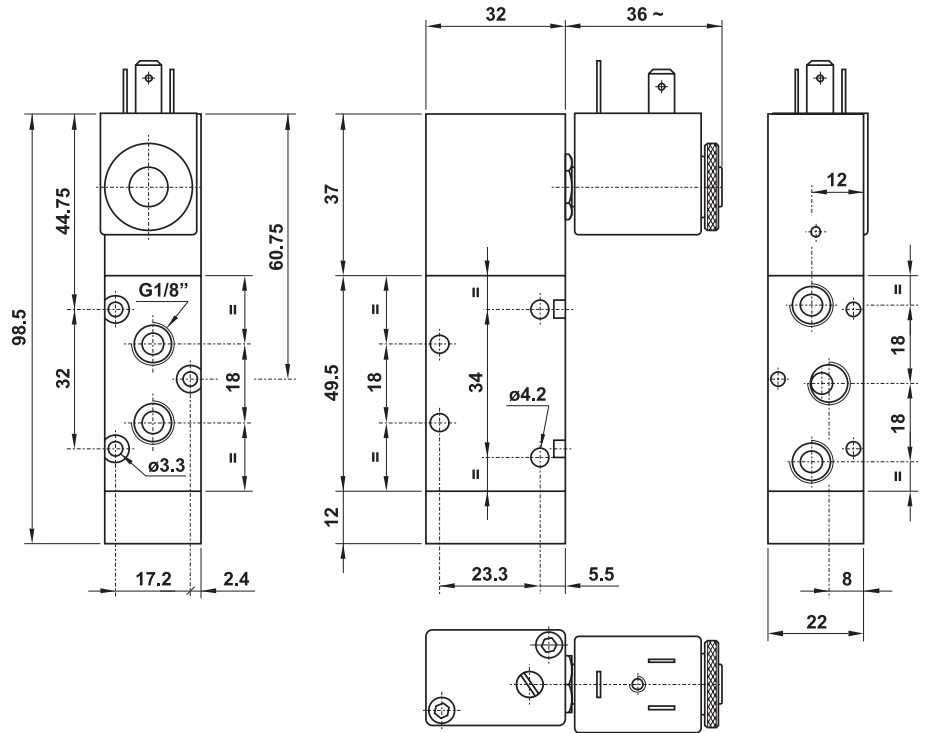
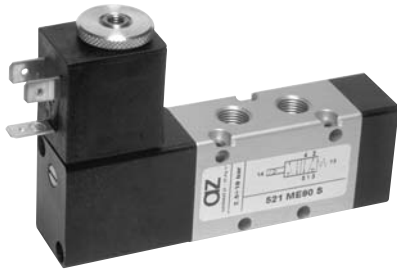
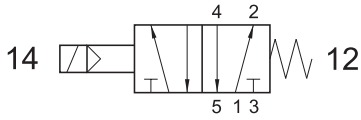
Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.



521 ME90 S

5/2 1/8" comando elettrico 90° sul lato stretto - ritorno a molla

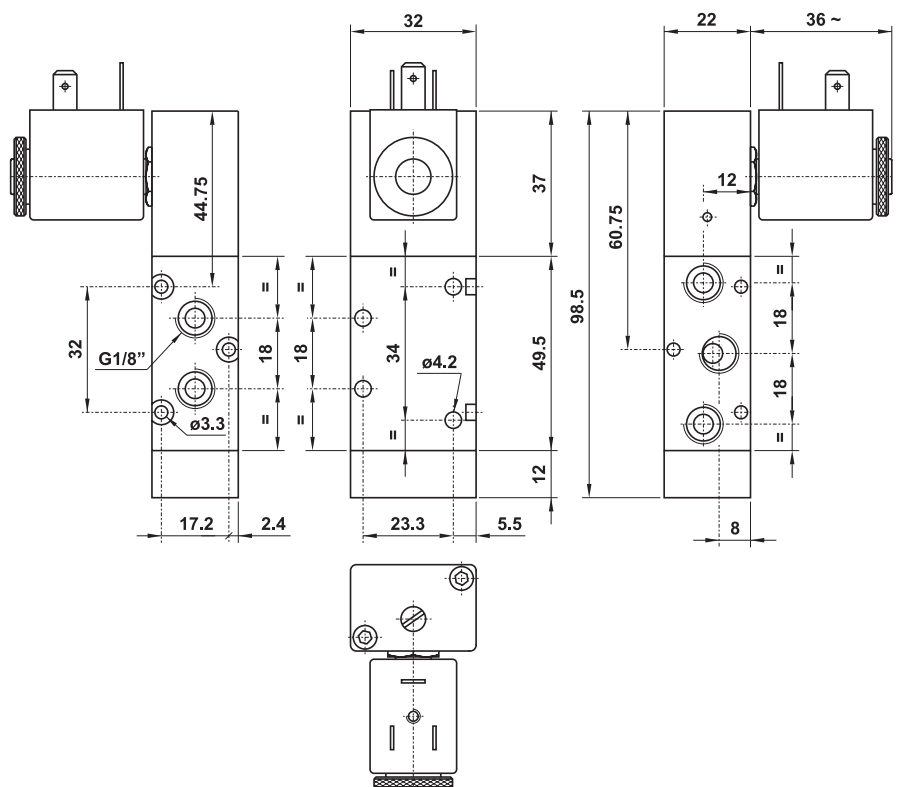
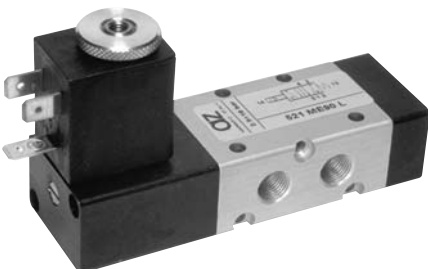
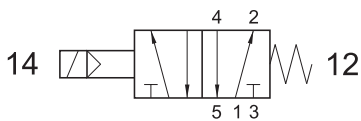
5/2 1/8" 90° solenoid pilot on the narrow side for compact assembly - spring return



521 ME90 L

5/2 1/8" comando elettrico 90° sul lato largo - ritorno a molla

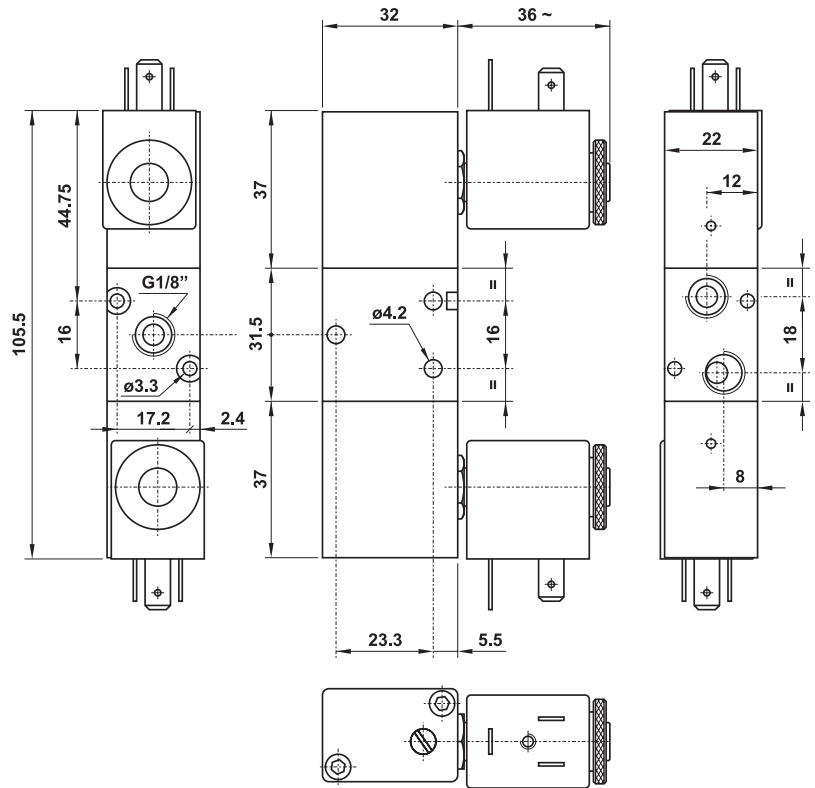
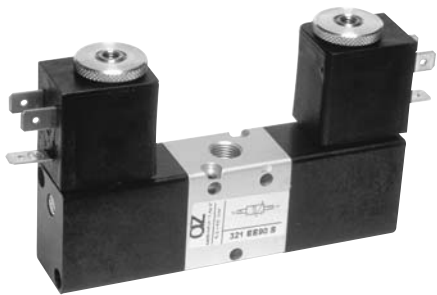
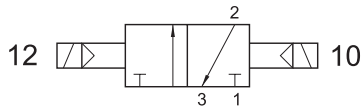
5/2 1/8" 90° solenoid pilot on the wide side - spring return



321 EE90 S

3/2 1/8" doppio comando elettrico 90° sul lato stretto

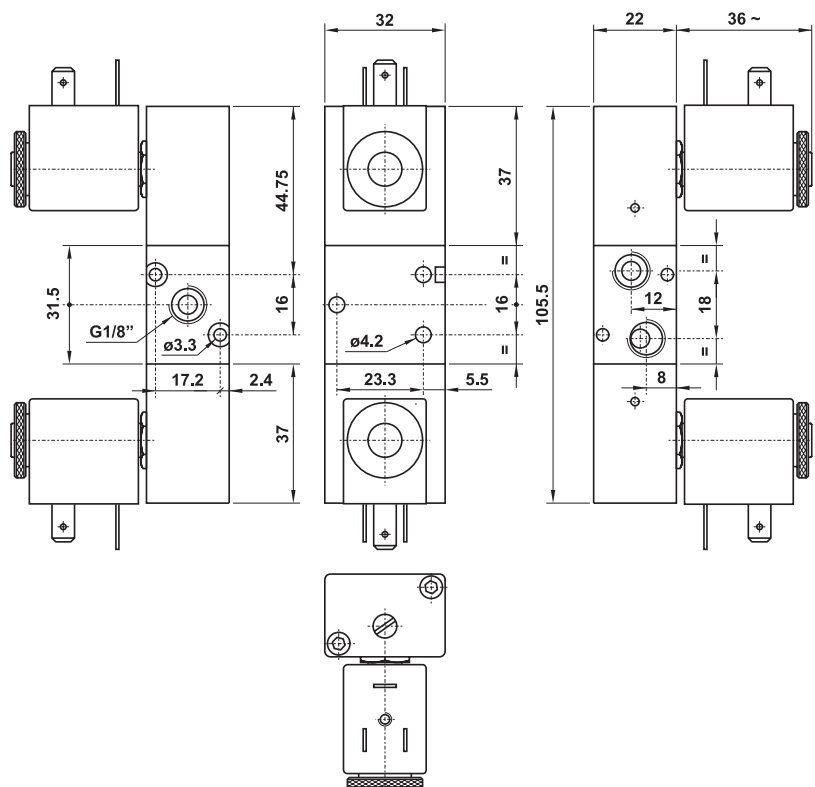
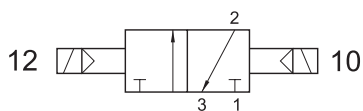
3/2 1/8" 90° double solenoid pilot on the narrow side for compact assembly



321 EE90 L

3/2 1/8" doppio comando elettrico 90° sul lato largo

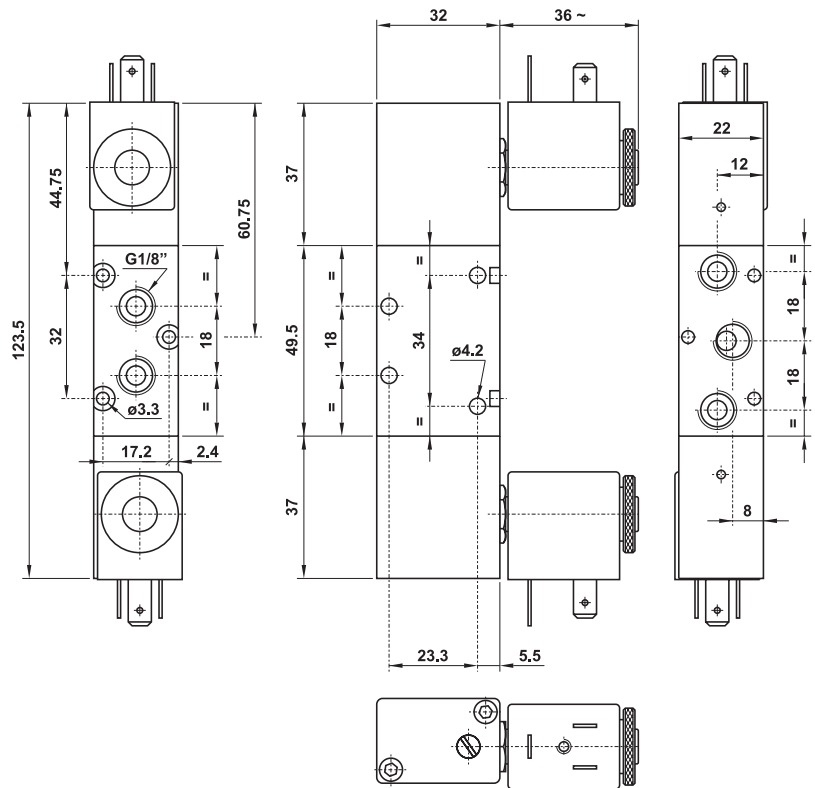
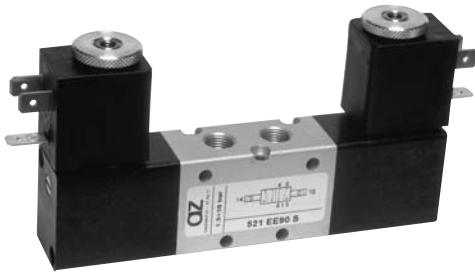
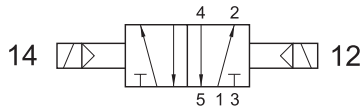
3/2 1/8" 90° double solenoid pilot on the wide side



521 EE90 S

5/2 1/8" doppio comando elettrico 90° sul lato stretto

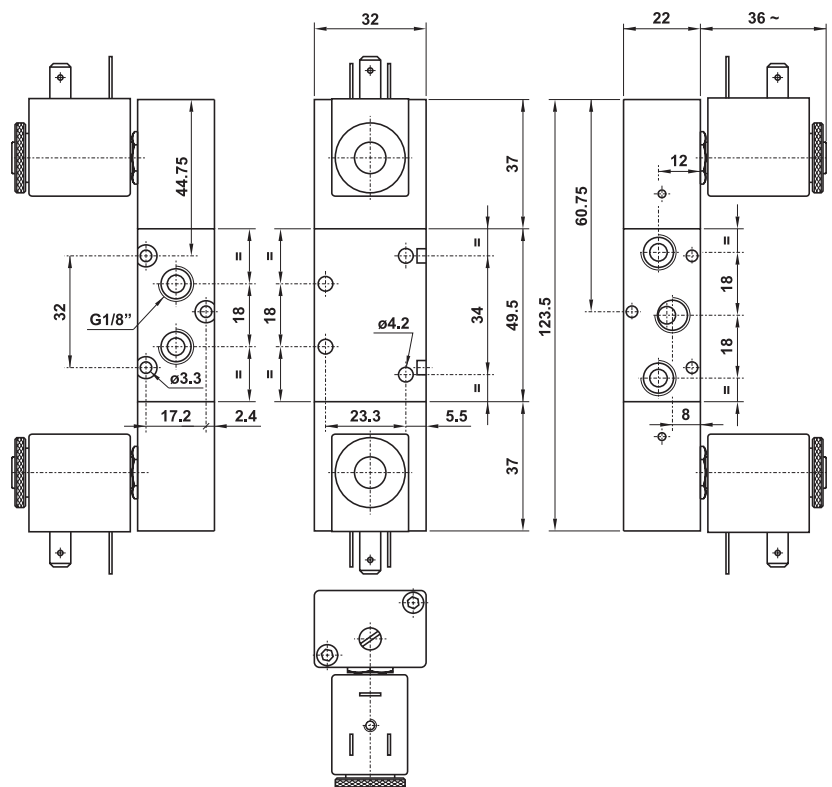
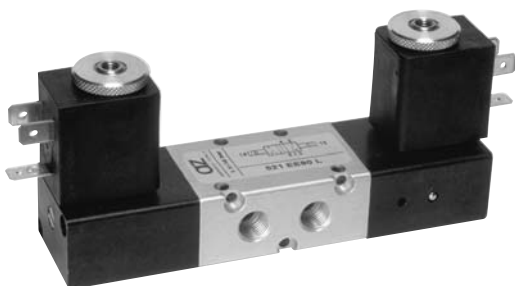
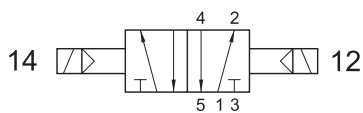
5/2 1/8" 90° double solenoid pilot on the narrow side for compact assembly



521 EE90 L

5/2 1/8" doppio comando elettrico 90° sul lato largo

5/2 1/8" 90° double solenoid pilot on the wide side



valvole ad azionamento elettropneumatico

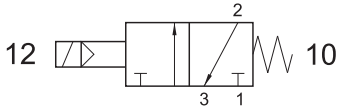
solenoid actuated valves



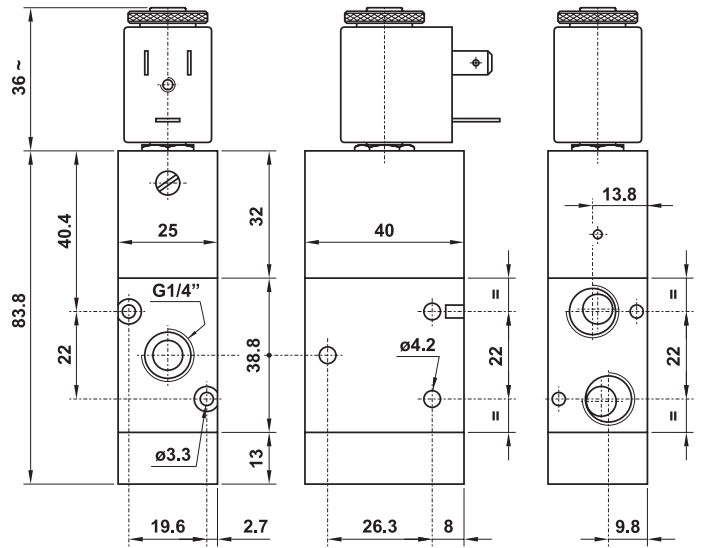
322 ME

3/2 1/4" NC comando elettrico - ritorno a molla

3/2 1/4" NC solenoid pilot - spring return



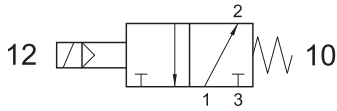
Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.



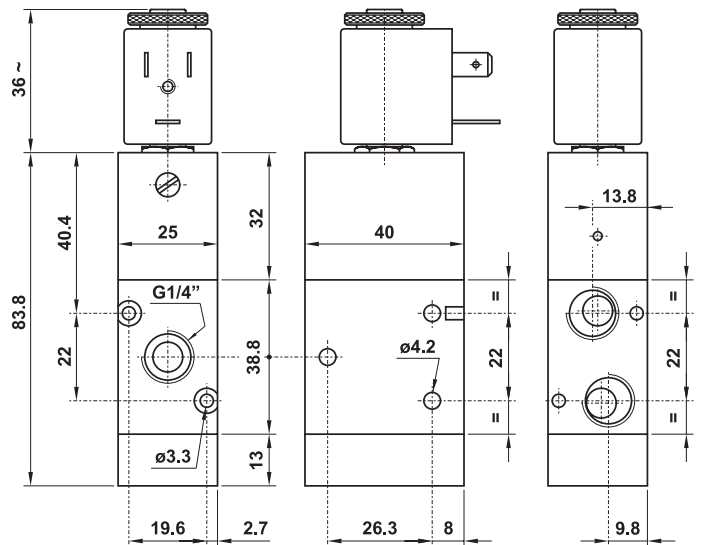
322 MEA

3/2 1/4" NA comando elettrico - ritorno a molla

3/2 1/4" NO solenoid pilot - spring return



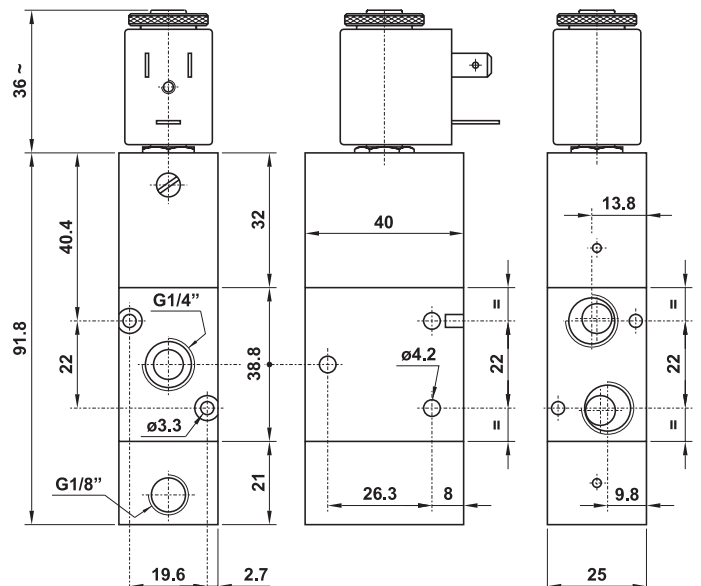
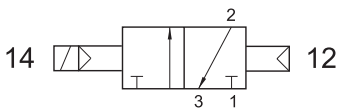
Non può essere utilizzata come valvola normalmente chiusa.
It cannot be used as normally closed valve.



322 CE

3/2 1/4" comando elettrico - ritorno a comando pneumatico

3/2 1/4" solenoid pilot - separate pneumatically piloted return



valvole ad azionamento elettropneumatico

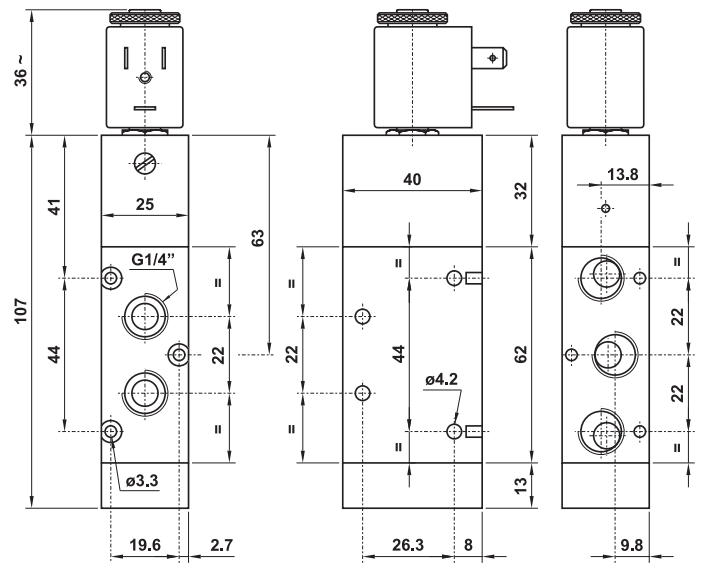
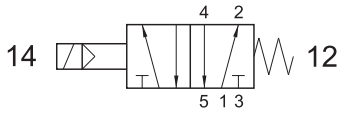
solenoid actuated valves



522 ME

5/2 1/4" comando elettrico - ritorno a molla

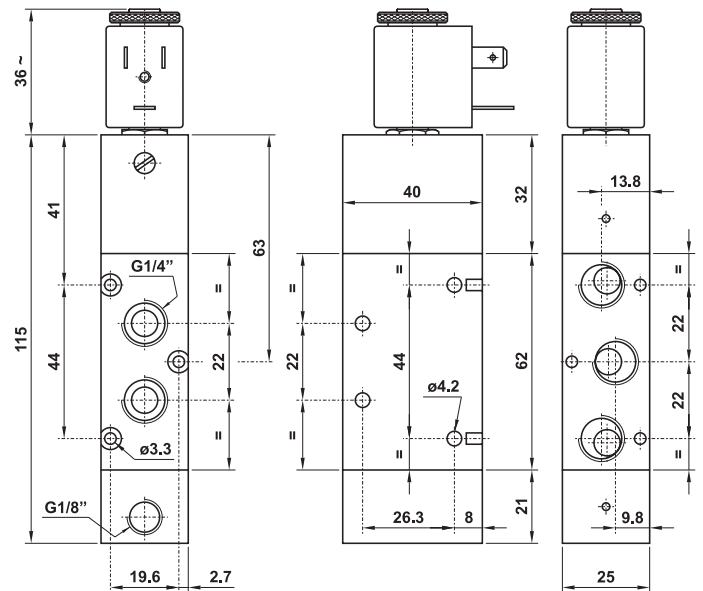
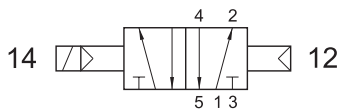
5/2 1/4" solenoid pilot - spring return



522 CE

5/2 1/4" comando elettrico - ritorno a comando pneumatico

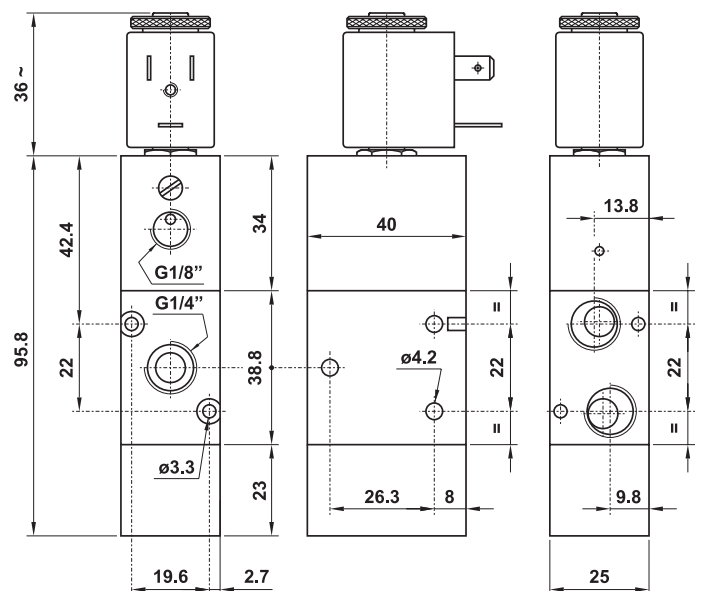
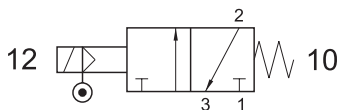
5/2 1/4" solenoid pilot - separate pneumatically piloted return



322 ME AS

3/2 1/4" comando elettrico alimentazione separata - ritorno a molla

3/2 1/4" solenoid pilot with separate air supply - spring return



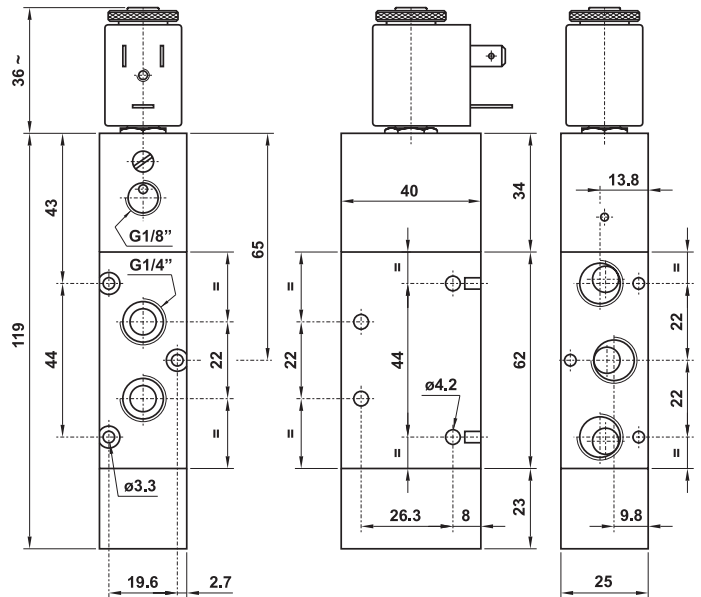
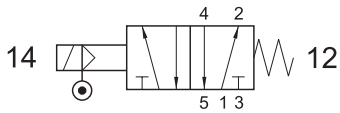
valvole ad azionamento elettropneumatico

solenoid actuated valves



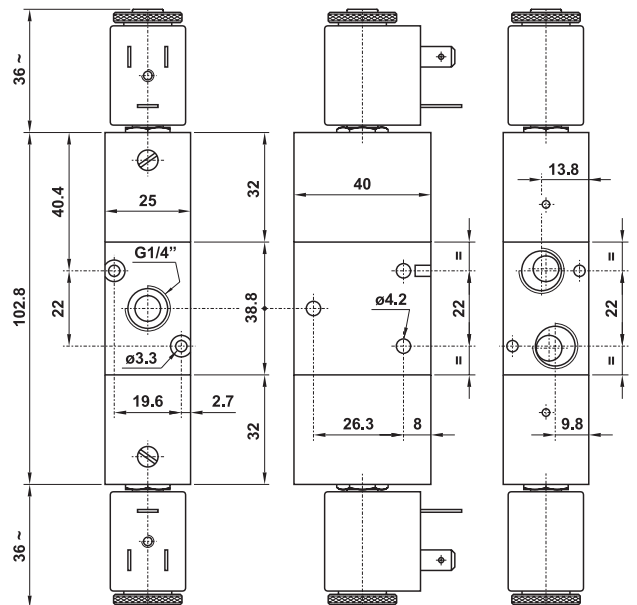
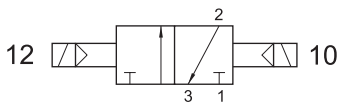
522 ME AS

5/2 1/4" comando elettrico alimentazione separata - ritorno a molla
 5/2 1/4" solenoid pilot with separate air supply - spring return



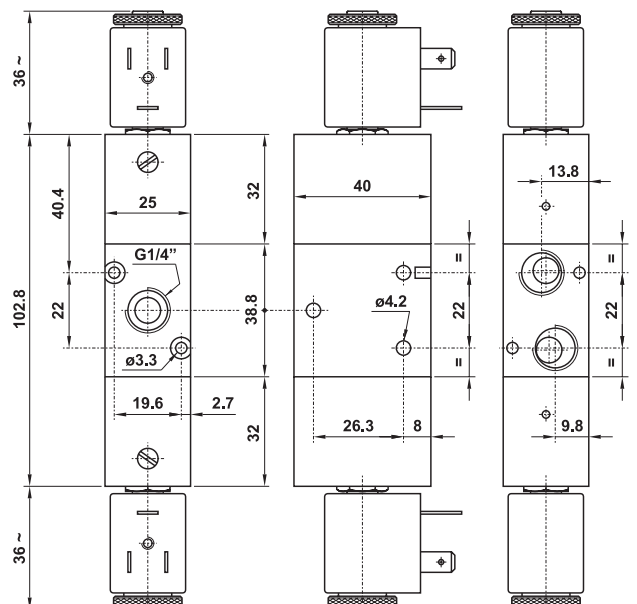
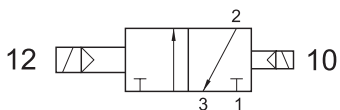
322 EE

3/2 1/4" doppio comando elettrico
 3/2 1/4" double solenoid pilot



322 EED

3/2 1/4" doppio comando elettrico - con differenziale
 3/2 1/4" double solenoid pilot - with differential



valvole ad azionamento elettropneumatico

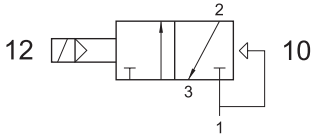
solenoid actuated valves



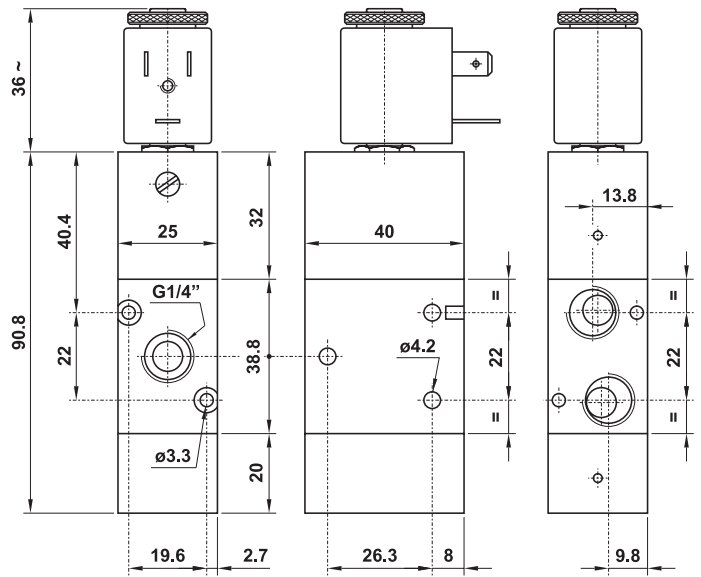
322 EFP

3/2 1/4" NC comando elettrico - ritorno a molla pneumatica

3/2 1/4" NC solenoid pilot - pneumatic spring return



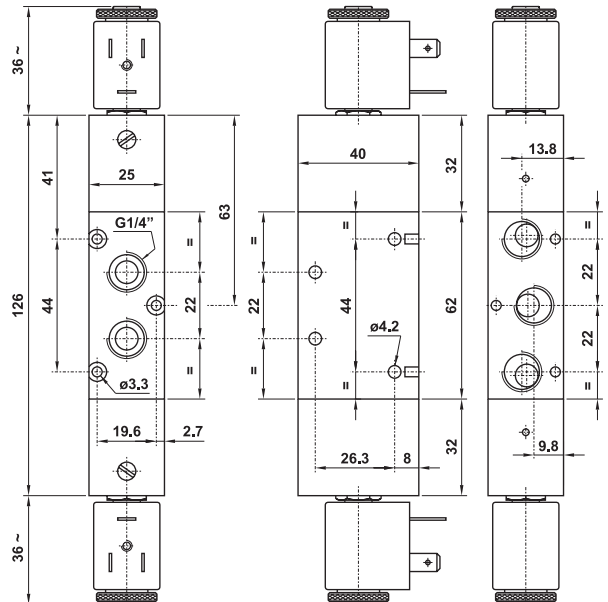
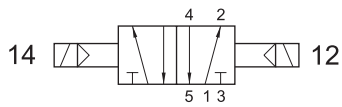
Non può essere utilizzata come valvola normalmente aperta.
It cannot be used as normally open valve.



522 EE

5/2 1/4" doppio comando elettrico

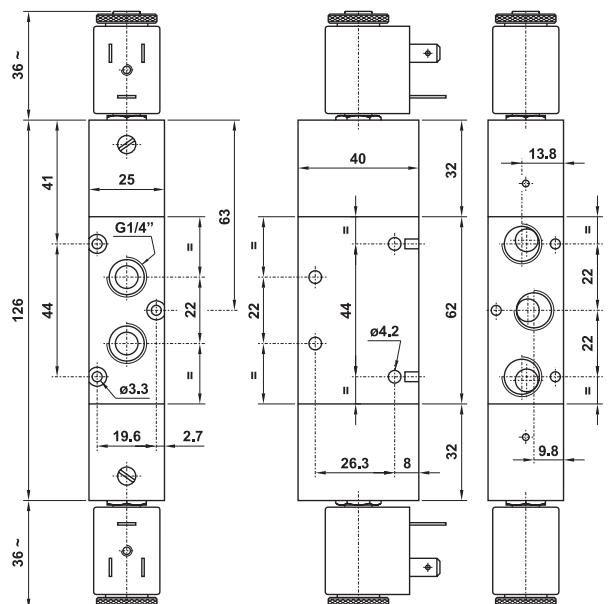
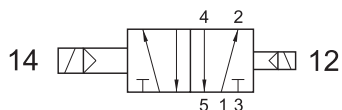
5/2 1/4" double solenoid pilot



522 EED

5/2 1/4" doppio comando elettrico - con differenziale

5/2 1/4" double solenoid pilot - with differential



valvole ad azionamento elettropneumatico

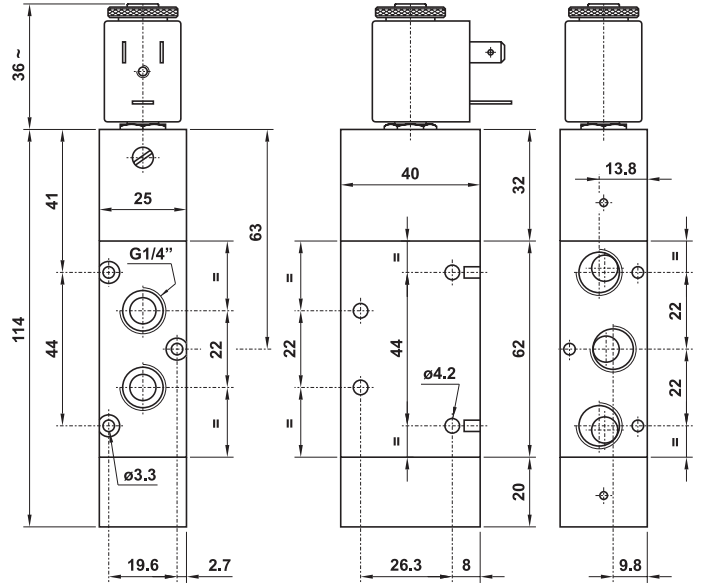
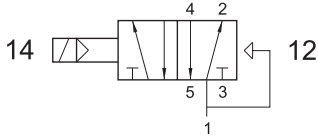
solenoid actuated valves



522 EFP

5/2 1/4" comando elettrico - ritorno a molla pneumatica

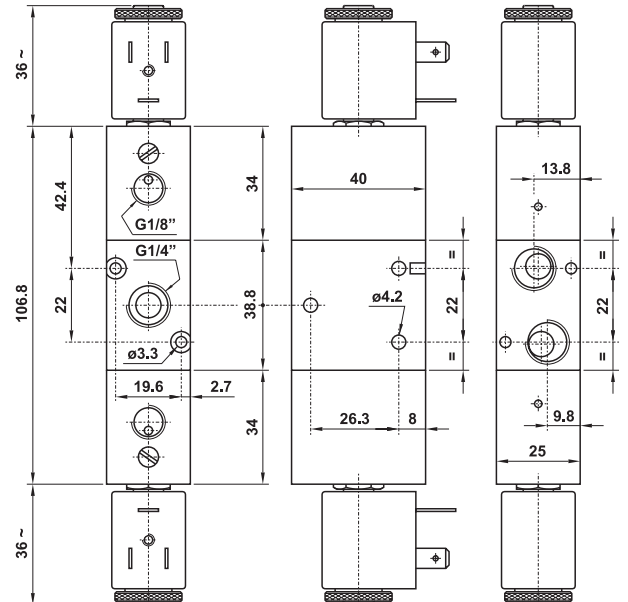
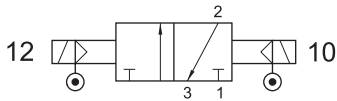
5/2 1/4" solenoid pilot - pneumatic spring return



322 EE AS

3/2 1/4" doppio comando elettrico alimentazione separata

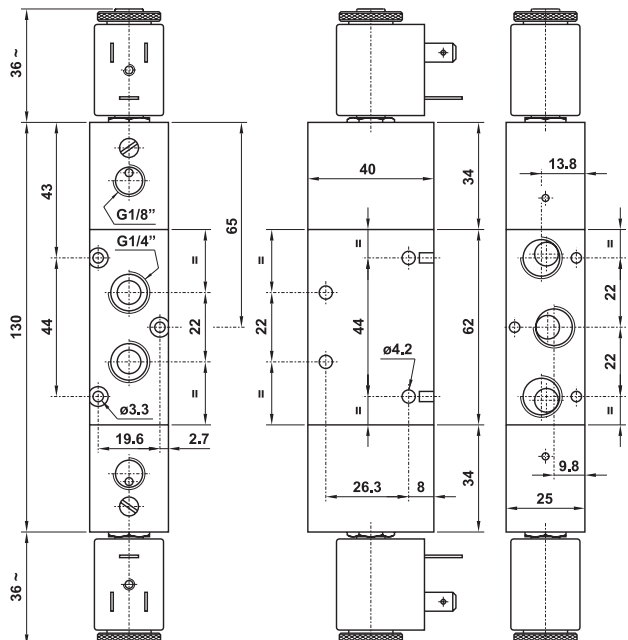
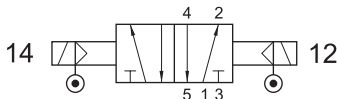
3/2 1/4" double solenoid pilot with separate air supply



522 EE AS

5/2 1/4" doppio comando elettrico alimentazione separata

5/2 1/4" double solenoid pilot with separate air supply



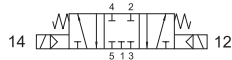
valvole ad azionamento elettropneumatico

solenoid actuated valves



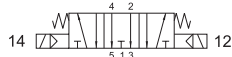
5223C EE

centri chiusi
closed centres



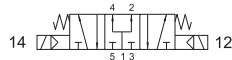
5223A EE

centri aperti
open centres



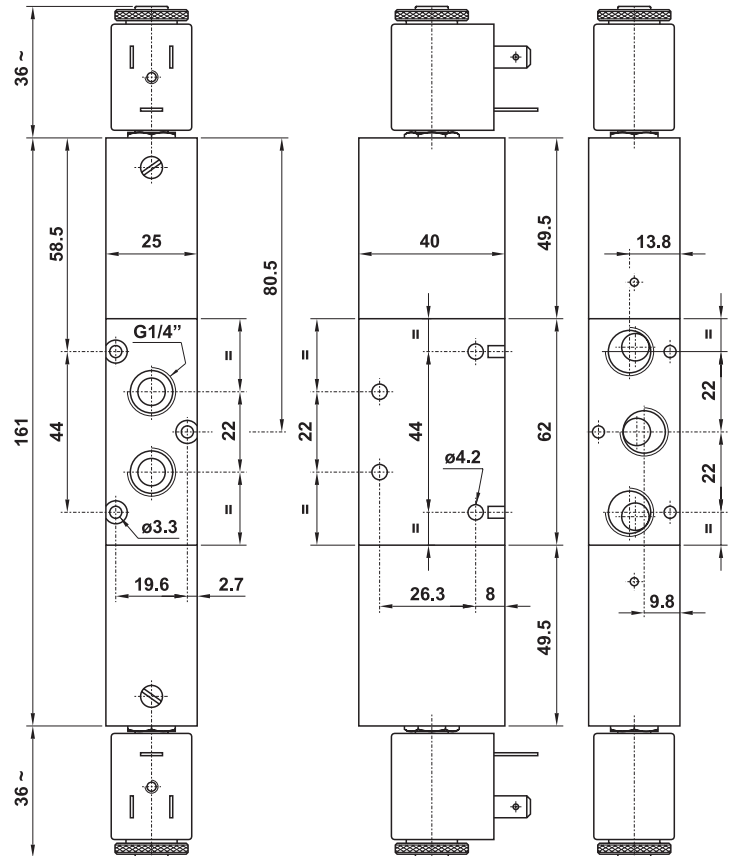
5223P EE

centri in pressione
pressurized centres



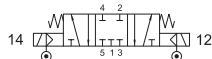
5/3 1/4" doppio comando elettrico

5/3 1/4" double solenoid pilot



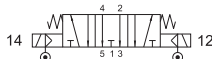
5223C EE AS

centri chiusi
closed centres



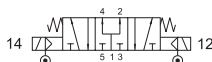
5223A EE AS

centri aperti
open centres



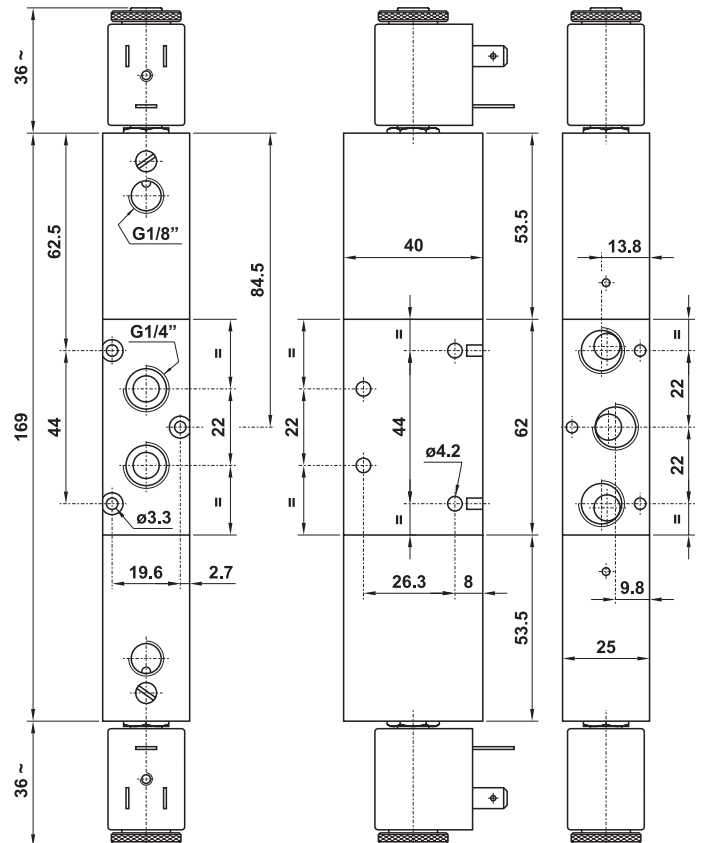
5223P EE AS

centri in pressione
pressurized centres



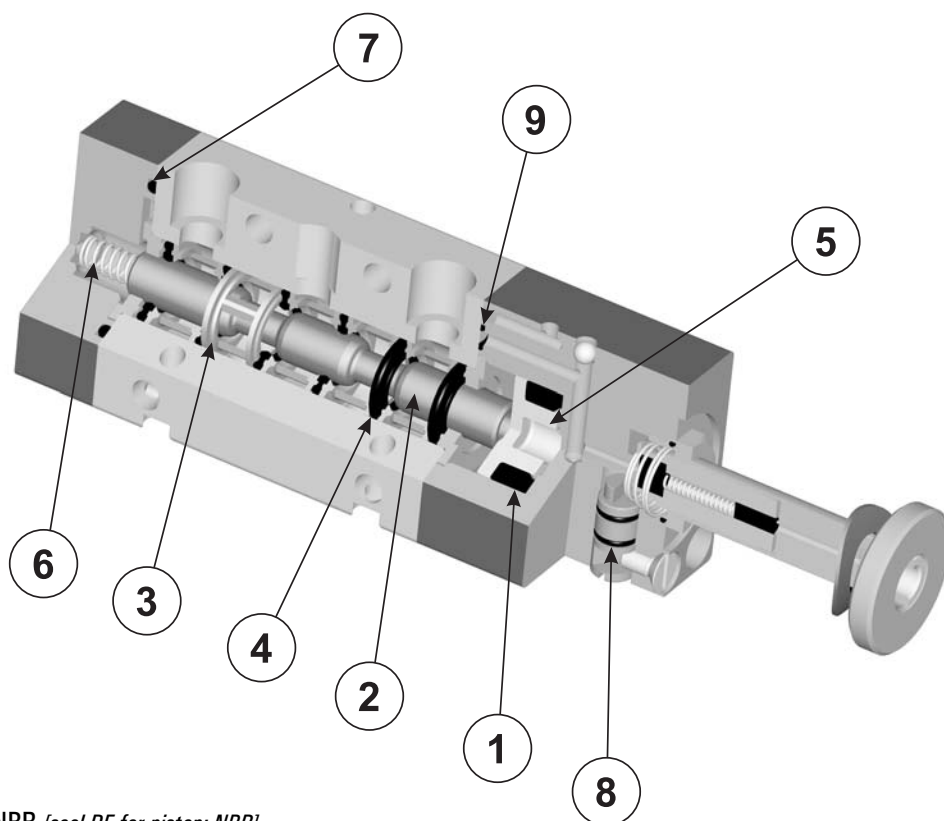
5/3 1/4" doppio comando elettrico alimentazione separata

5/3 1/4" double solenoid pilot with separate air supply



ricambi per valvole a spola

spare parts for spool valves



1. Guarnizione DE per pistone: NBR [seal DE for piston: NBR]
2. Spola: alluminio 11S nichelato [spool: aluminium 11S, nickeled]
3. Distanziale cassetto: ottone [brass]
4. Guarnizione cassetto: NBR [seal for spool: NBR]
5. Pistone per comando spola: delrin [piston to actuate the spool: delrin]
6. Molla: acciaio [spring: steel]
7. Guarnizione O-Ring: NBR
8. Guarnizione O-Ring 4x1: NBR
9. Guarnizione O-Ring sagomato: NBR [shaped O-Ring: NBR]

codice kit code of kit	utilizzabile per suitable for		
00.036.2	321 MC	321 MCA	321 ME
	321 MEA	321 ME90 S	321 ME90 L
00.039.2	521 MC	521 ME	521 ME90 S
	521 ME90 L		
00.037.2	321 CC	321 EE	321 CE
	321 EE AS	321 EE90 S	321 EE90 L
00.040.2	521 CC	521 EE	521 CE
	521 EE AS	521 EE90 S	521 EE90 L
01.014.2	322 MC	322 MC SUP	322 MCA
	322 ME	322 MEA	
01.020.2	522 MC	522 MC SUP	522 ME
01.015.2	322 CC	322 CC SUP	322 CE
	322 EE	322 EE AS	
01.021.2	522 CC	522 CC SUP	522 CE
	522 EE	522 EE AS	

codice kit code of kit	utilizzabile per suitable for		
00.038.2	321 EED	321 EFP	321 CCD
	321 CFP		
00.041.2	521 EED	521 EFP	521 CCD
	521 CFP		
01.019.2	322 EED	322 EFP	322 CCD
	322 CFP		
01.022.2	522 EED	522 EFP	522 CCD
	522 CFP		
00.050.2	321 ME AS		
01.035.2	322 ME AS		
00.051.2	521 ME AS		
01.036.2	522 ME AS		
00.108.2	5213C CC	5213A CC	5213P CC
	5213C EE	5213A EE	5213P EE
	5213C EE AS	5213A EE AS	5213P EE AS
01.061.2	5223C CC	5223A CC	5223P CC
	5223C EE	5223A EE	5223P EE
	5223C EE AS	5223A EE AS	5223P EE AS

bobine e connettori 22 mm

22 mm coils and connectors



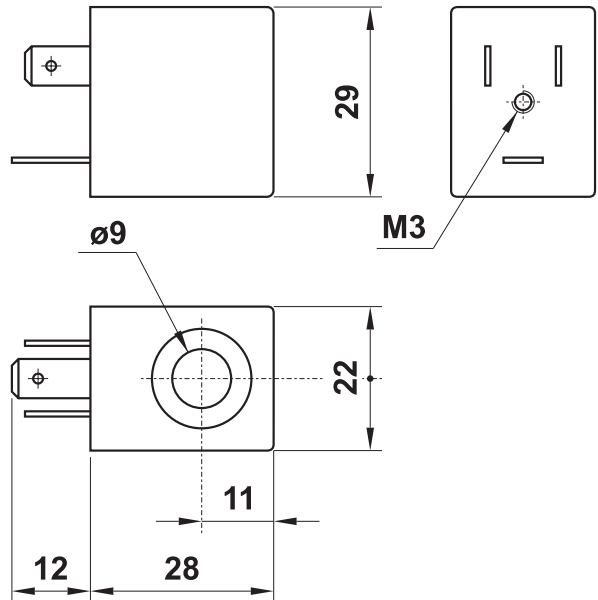
22 mm



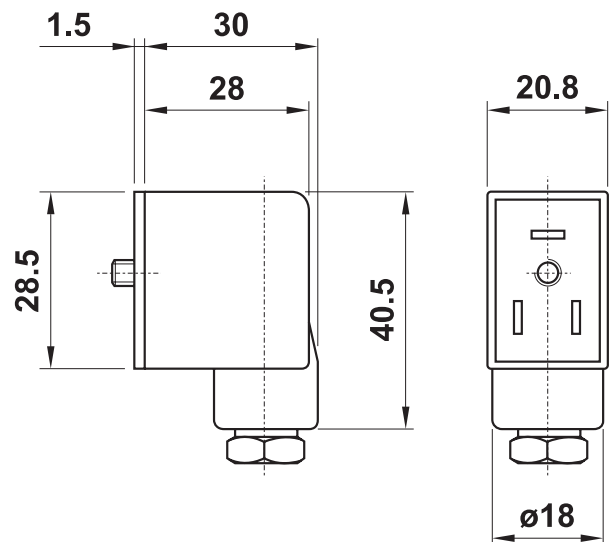
temperatura max di esercizio	+50°C	<i>max working temperature</i>
inserimento	ED 100%	<i>duty cycle</i>
protezione con connettore correttamente montato	IP 65	<i>protection with connector correctly mounted</i>
tolleranza di tensione	±10%	<i>tension tolerance</i>

- a richiesta basso assorbimento 1.5W
low consumption (1.5W) on request

codice <i>code</i>	tensione <i>tension</i>	consumo - power	
		a regime <i>rated</i>	di spunto <i>inrush</i>
00.167.0	12V DC	3W	
00.028.0	24V DC	3W	
00.029.0	24V 50/60Hz	5VA	7.5VA
00.030.0	110V 50/60Hz	5VA	7.5VA
00.031.0	220V 50/60Hz	5VA	7.5VA



codice <i>code</i>	colore <i>colour</i>	cavo <i>cable</i>	tipo <i>type</i>
00.197.0	nero <i>black</i>	PG09	normale <i>standard</i>
00.344.0	trasparente <i>transparent</i>	PG09	con LED 24V <i>with LED 24V</i>
00.345.0	trasparente <i>transparent</i>	PG09	con LED 24V e VDR <i>with LED 24V and VDR</i>
00.346.0	trasparente <i>transparent</i>	PG09	con LED 115V <i>with LED 115V</i>
00.347.0	trasparente <i>transparent</i>	PG09	con LED 115V e VDR <i>with LED 115V and VDR</i>
00.394.0	trasparente <i>transparent</i>	PG09	con LED 230V <i>with LED 230V</i>
00.395.0	trasparente <i>transparent</i>	PG09	con LED 230V e VDR <i>with LED 230V and VDR</i>



PEZZI DI RICAMBIO - spare parts
canotto per elettropilota
armature for solenoid pilot

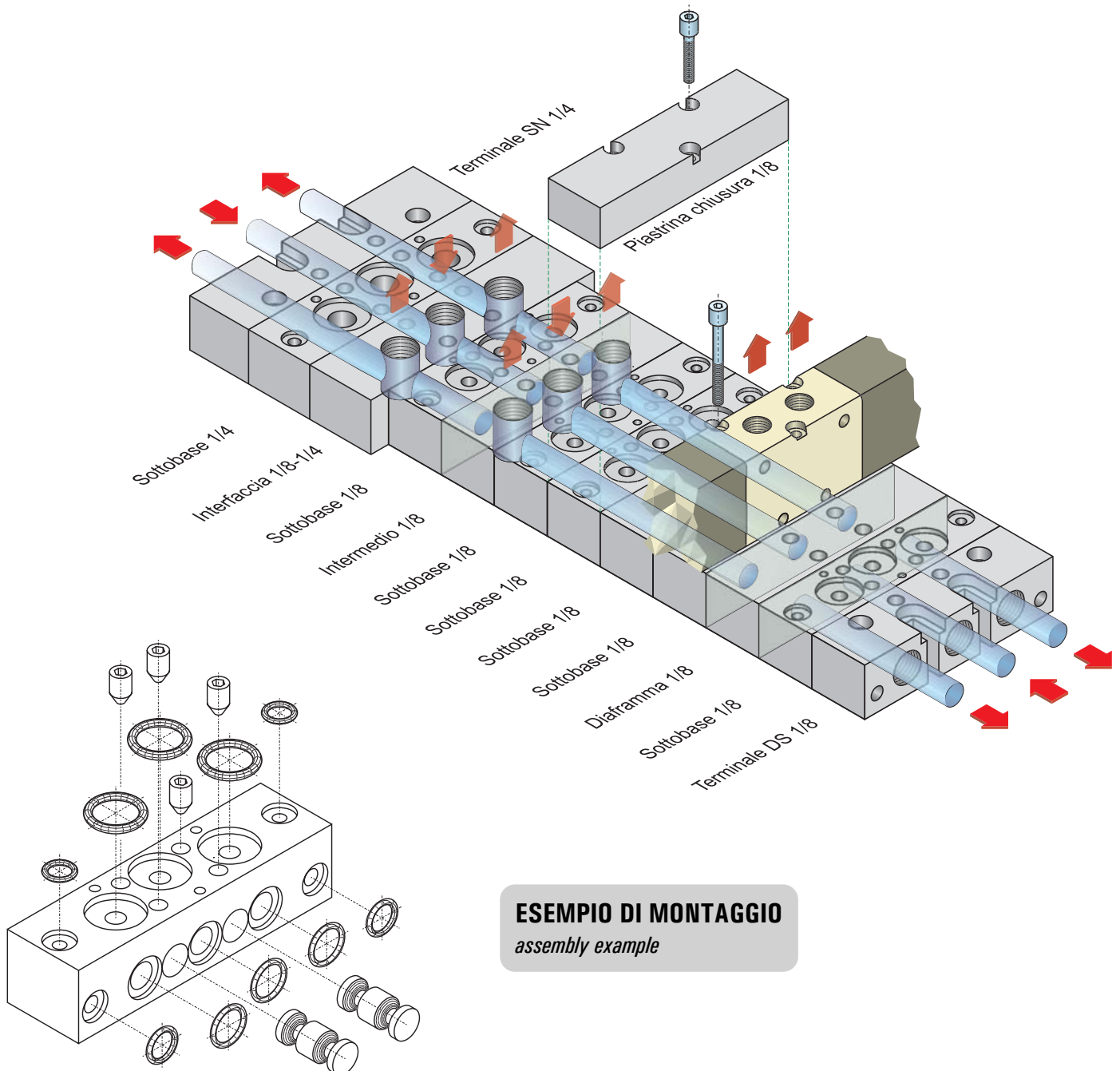
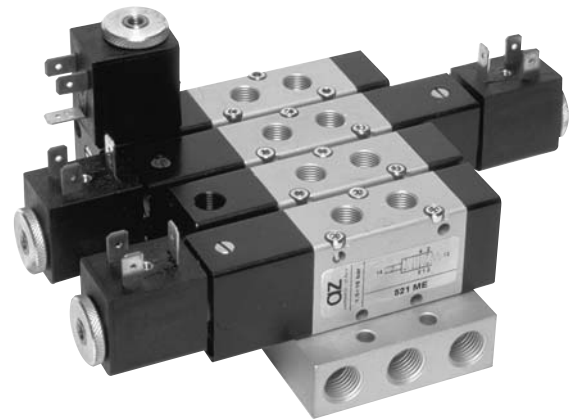
NC : 00.088.0
NA (NO) : 00.306.0

sottobasi per valvole a spola

manifolds for spool valves



- Sottobasi modulari per valvole a spola 1/8" e 1/4"
Multiple sub-bases for 1/8" and 1/4" spool valves
- Sottobasi a posti fissi per valvole a spola 1/8" e 1/4"
Manifolds for 1/8" and 1/4" spool valves
- Sottobasi speciali a richiesta
Special manifolds on request
- Materiale: alluminio anodizzato
Material: aluminium (anodize treatment)



ESEMPIO DI MONTAGGIO
assembly example

sottobasi modulari per valvole a spola

multiple sub-bases for spool valves



sottobase sub-base



Le sottobasi possono essere utilizzate per il fissaggio di valvole da 1/8" o da 1/4". Ogni sottobase è venduta con i particolari necessari per il fissaggio e il montaggio della valvola.

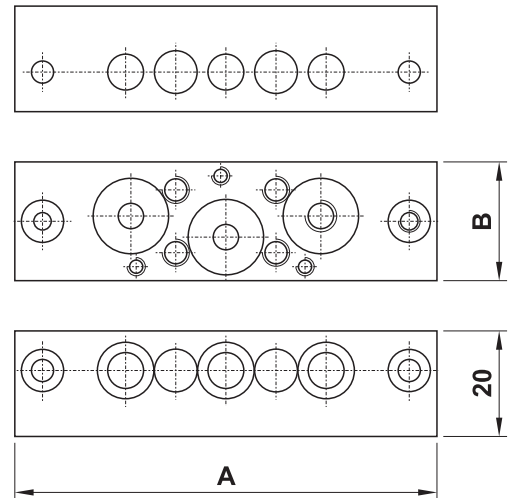
Each sub-base is sold with all necessary components to install 1/8" or 1/4" valves.

CODICI DI ORDINAZIONE - ORDER CODES

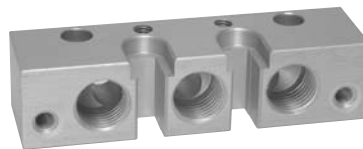
00.021.3 per valvole 1/8" - for 1/8" valves

01.032.4 per valvole 1/4" - for 1/4" valves

	1/8"	1/4"
A	80	95
B	22.5	26



terminale inlet header



Per ogni batteria di valvole è necessario l'utilizzo di due terminali, uno destro e uno sinistro. Ogni terminale è venduto con i particolari necessari al suo assemblaggio.

Each manifold assembly requires a right and a left hand inlet header kit.

Each inlet header is sold with all necessary components.

CODICI DI ORDINAZIONE - ORDER CODES

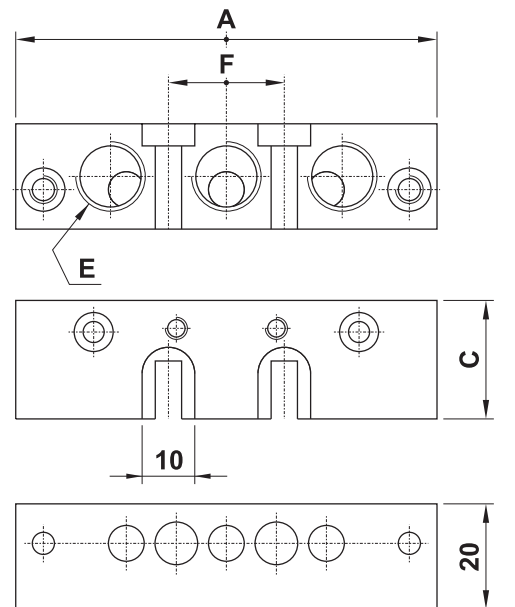
00.024.3 terminale destro per sottobasi 1/8"
right hand header for 1/8" manifolds

00.023.3 terminale sinistro per sottobasi 1/8"
left hand header for 1/8" manifolds

01.045.4 terminale destro per sottobasi 1/4"
right hand header for 1/4" manifolds

01.033.4 terminale sinistro per sottobasi 1/4"
left hand header for 1/4" manifolds

	1/8"	1/4"
A	80	95
C	22.5	25
E	G1/4"	G3/8"
F	22	26.5



piastrina di chiusura blanking plate

	1/8" 00.011.3	1/8" 00.078.2	1/4" 01.007.3	1/4" 01.078.2
A	80	60	95	70
D	22	22	25	25

Venduta completa di viti, chiude i fori di sottobasi eventualmente non utilizzate.

The blanking plate with gasket and screws is available to close manifold stations not in use.

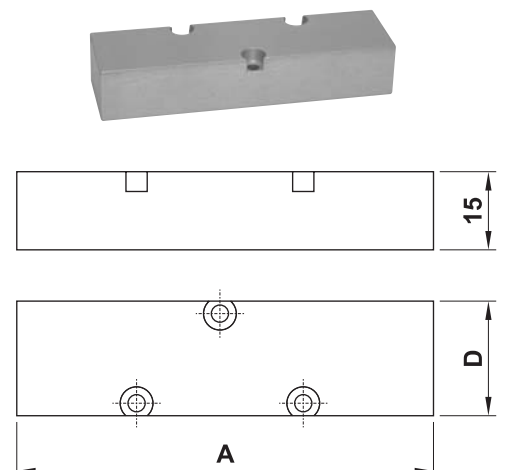
CODICI DI ORDINAZIONE - ORDER CODES

00.011.3 per sottobasi modulari 1/8" - for 1/8" multiple sub-bases

00.078.2 per sottobasi a posti fissi 1/8" - for 1/8" manifolds

01.007.3 per sottobasi modulari 1/4" - for 1/4" multiple sub-bases

01.078.2 per sottobasi a posti fissi 1/4" - for 1/4" manifolds



sottobasi modulari per valvole a spola

multiple sub-bases for spool valves



diaframma blanking piece



Il diaframma (cieco) è utilizzabile per dividere una batteria di valvole in parti alimentabili a pressioni distinte. È venduto con i pezzi necessari al suo assemblaggio.

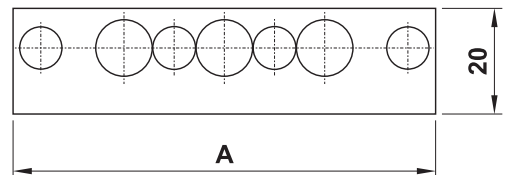
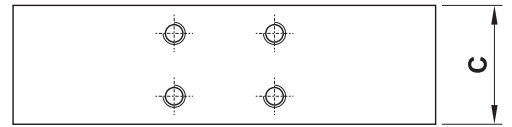
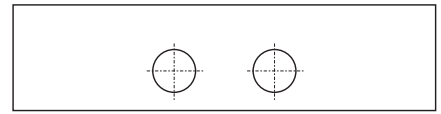
A blanking piece with gaskets is available to divide the manifold into separate zones.

CODICI DI ORDINAZIONE - ORDER CODES

00.044.4 per batterie di valvole 1/8" - for 1/8" manifolds

01.048.4 per batterie di valvole 1/4" - for 1/4" manifolds

	1/8"	1/4"
A	80	95
C	22.5	25



intermedio intermediate header



L'intermedio è utilizzabile per dividere una batteria di valvole in due parti e immettere l'aria per l'alimentazione di una delle due attraverso le connessioni di cui è dotato. È venduto con i pezzi necessari al suo assemblaggio.

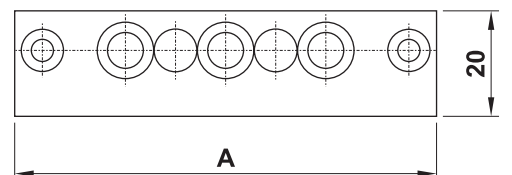
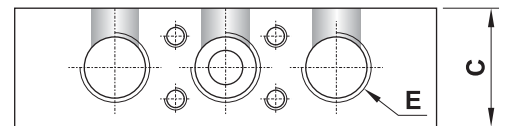
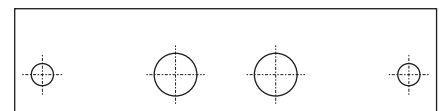
An intermediate header with separate air supply is available to be installed in a manifold system which requires mixed operating pressures.

CODICI DI ORDINAZIONE - ORDER CODES

00.049.4 per batterie di valvole 1/8" - for 1/8" manifolds

01.047.4 per batterie di valvole 1/4" - for 1/8" manifolds

	1/8"	1/4"
A	80	95
C	22.5	25
E	G1/4"	G3/8"



interfaccia interface

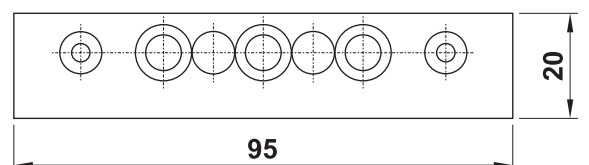
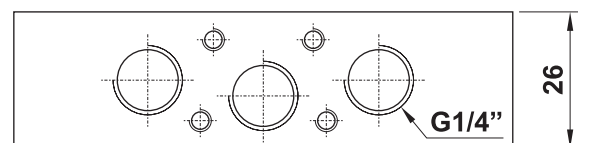
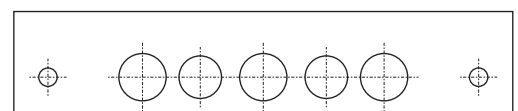


L'interfaccia è utilizzabile per collegare una batteria di valvole 1/8" a una batteria di valvole 1/4". È venduta con i pezzi necessari al suo assemblaggio.

An interface with all necessary components is available to connect a manifold of 1/8" ports to a manifold of 1/4" ports.

CODICE DI ORDINAZIONE - ORDER CODE

00.045.4 interfaccia - interface



sottobasi a posti fissi per valvole a spola

manifolds for spool valves



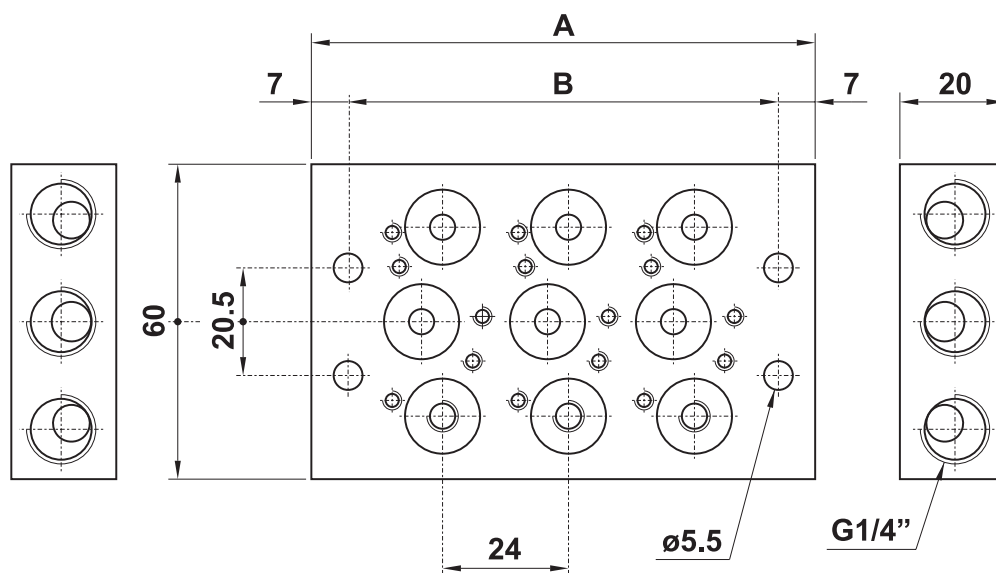
Le sottobasi a posti fissi possono essere utilizzate per il fissaggio di valvole a 3 vie e a 5 vie, da 1/8" o da 1/4". Ogni sottobase è venduta con i particolari necessari per il fissaggio e il montaggio delle valvole. Eventuali posizioni non utilizzate possono essere tappate con la piastrina di chiusura.

These manifolds can be used for the installation of three and five way valves, 1/8" or 1/4". Each manifold is sold with all necessary pieces for installation. Unused stations can be closed with a blanking plate.



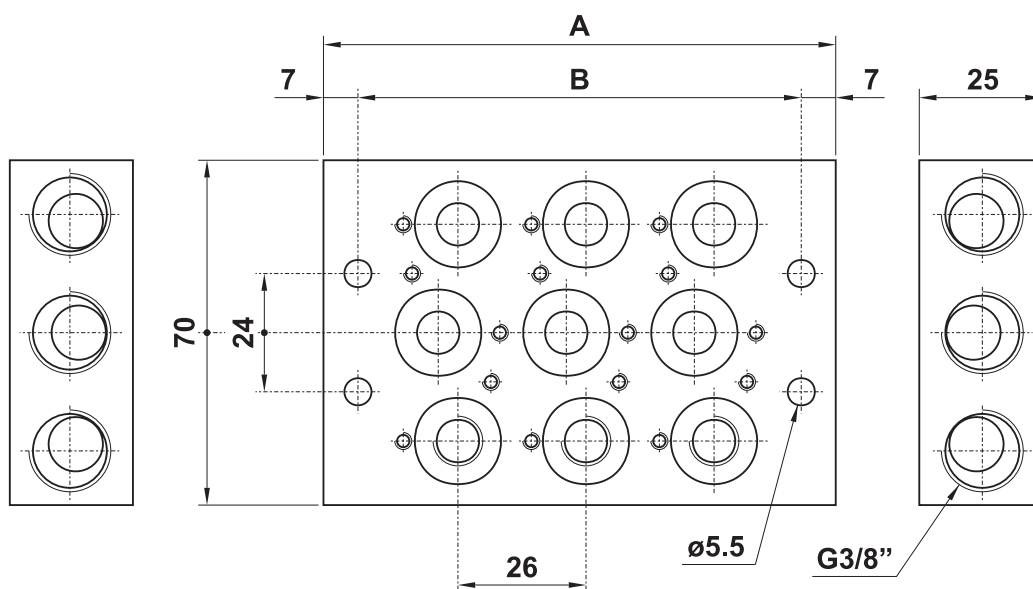
1/8"

modello model	nr. posiz. no. stations	A	B
00.052.2	2	72	58
00.053.2	3	96	82
00.054.2	4	120	106
00.055.2	5	144	130
00.056.2	6	168	154
00.057.2	7	192	178
00.058.2	8	216	202
00.059.2	9	240	226
00.060.2	10	264	250



1/4"

modello model	nr. posiz. no. stations	A	B
01.042.2	2	78	64
01.043.2	3	104	90
01.044.2	4	130	116
01.045.2	5	156	142
01.046.2	6	182	168
01.047.2	7	208	194
01.048.2	8	234	220



accessori per basi a posti fissi

accessories for manifolds



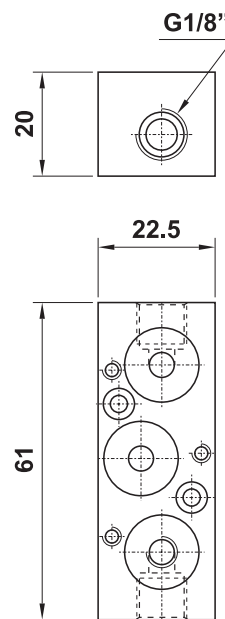
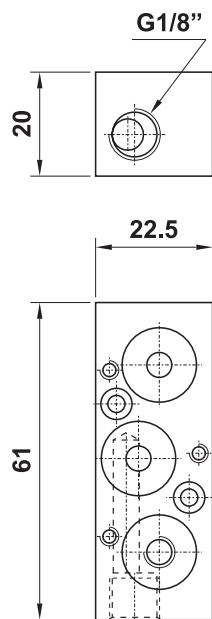
adattatore per entrata separata
adapting plate for separate air inlet

adattatore per scarichi separati
adapting plate for separate air exhaust

G1/8"

00.064.2

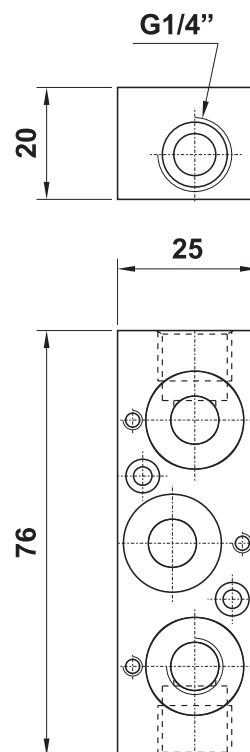
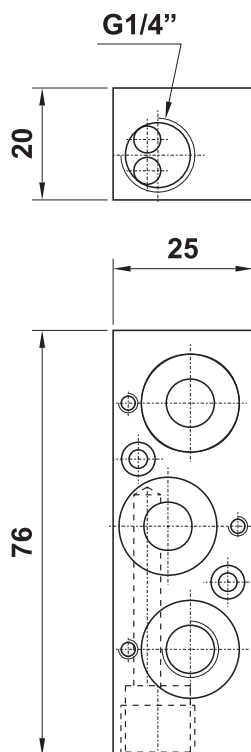
00.080.2



G1/4"

01.049.2

01.050.2

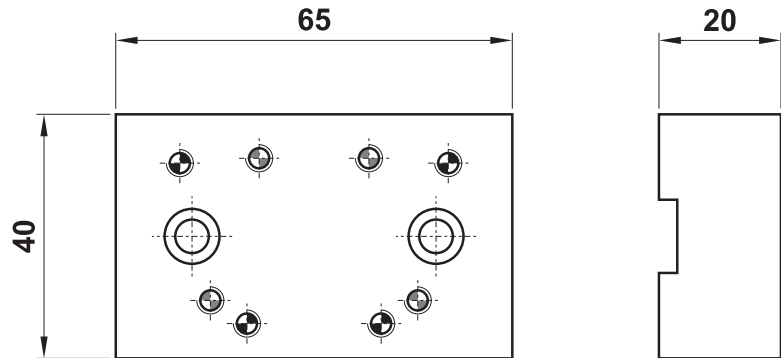


Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio.
Each element is sold in kit with all necessary pieces for installation.

adattatore per cilindro ISO 6431 interface for cylinder ISO 6431

CODICE DI ORDINAZIONE
ORDER CODE

00.095.2



 Fori per il fissaggio di valvole 521
Mounting holes for valves 521

 Fori per il fissaggio di valvole 522
Mounting holes for valves 522

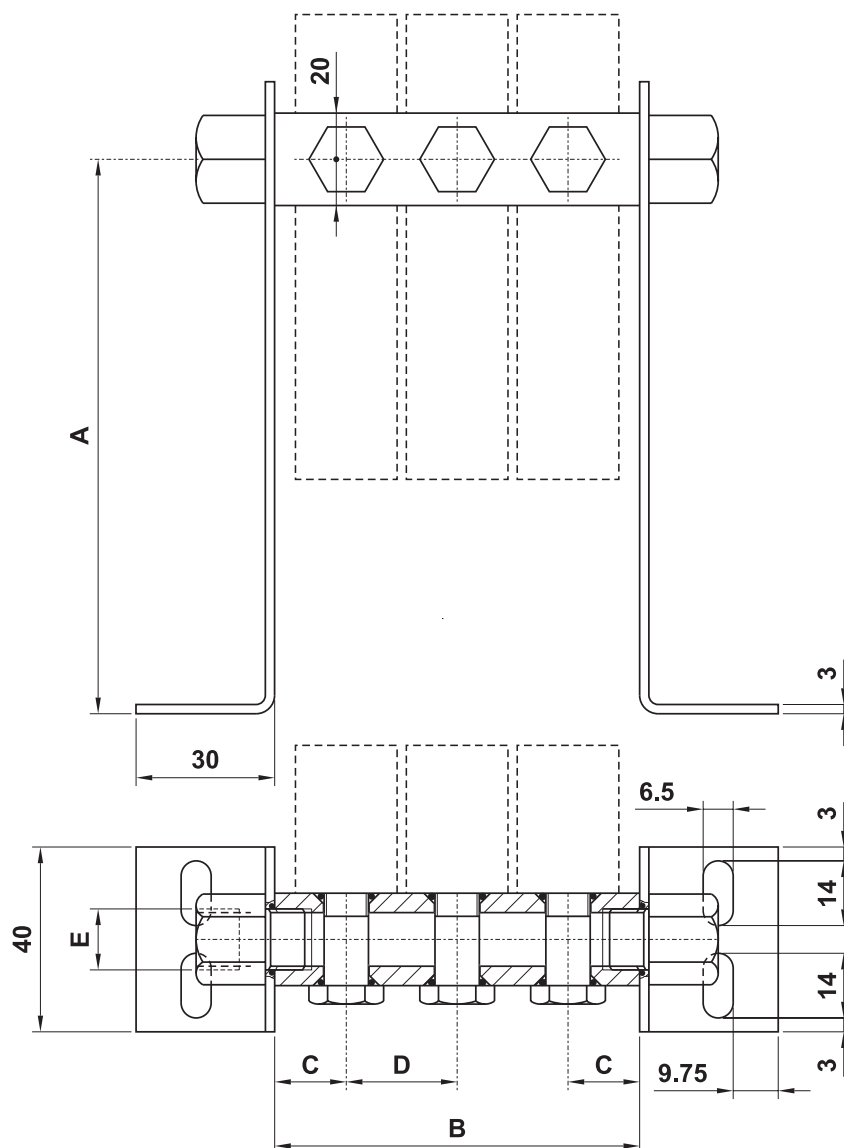
È utilizzabile per l'installazione di una valvola della serie 521 o 522 su un cilindro ISO 6431 dall'alesaggio 32 all'alesaggio 100.
Ogni pezzo è venduto con tutti i particolari necessari al suo assemblaggio.

*It can be used to install a valve 521 or 522 on a cylinder ISO 6431 from bore 32 to bore 100.
It is sold with all necessary pieces for installation.*

Per l'installazione sul cilindro è necessario innanzi tutto smontare una delle due testate.
For the installation on the cylinder it is necessary to remove one end cap.

collettori per valvole a spola

gang manifolds for spool valves



		1/8"		1/4"	
		modello model	A	modello model	A
		00.029.2	120	01.029.2	120
		00.067.2	60	01.038.2	60

		modello model	nr. posizioni no. stations	B	C	D	E
1/8"		00.042.3	2	55	15.5	24	G1/4"
		00.043.3	3	79	15.5	24	G1/4"
		00.044.3	4	103	15.5	24	G1/4"
		00.045.3	5	127	15.5	24	G1/4"
		00.046.3	6	151	15.5	24	G1/4"
1/4"		01.032.3	2	62	17.5	27	G3/8"
		01.033.3	3	89	17.5	27	G3/8"
		01.034.3	4	116	17.5	27	G3/8"
		01.035.3	5	143	17.5	27	G3/8"
		01.036.3	6	170	17.5	27	G3/8"

valvole G1/2" azionamento pneumatico

pneumatically piloted valves - G1/2"



- Valvole a spola 3/2-5/2-5/3 con attacchi filettati G1/2"
3/2-5/2-5/3 spool valves with G1/2" threaded ports
- Elevatissima portata
Very high flow rate
- Montaggio in linea
Installation in-line
- Azionamento pneumatico monostabile o bistabile
Mono-stable or bi-stable pneumatic pilot
- Multifunzionalità e adattabilità
Multifunction feature



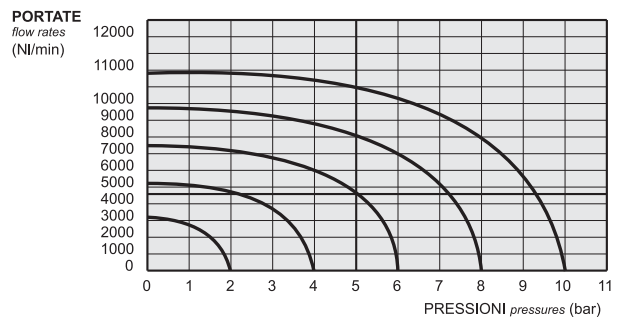
Kit ricambi - spare parts

02.030.2 : per valvole a 3 vie [for 3 way valves] ME - ME AS - MC

02.031.2 : per valvole a 5 vie [for 5 way valves] ME - ME AS - MC

02.032.2 : per valvole a 3 vie [for 3 way valves] EE - EE AS - CC

02.033.2 : per valvole a 5 vie [for 5 way valves] EE - EE AS - CC



Tempi di risposta - response times

monostabile <i>mono-stable</i>	TRA (14): 24 ms TRR (12): 43 ms
bistabile <i>bi-stable</i>	TRA (14): 30 ms TRR (12): 30 ms

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: alluminio nichelato

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spool: nickel plated aluminium

Internal parts: brass OT58

Diametro nominale <i>Nominal orifice</i>	13 mm	
Portata nominale a 6 bar, Δp 1 bar <i>Nominal flow rate at 6 bar, Δp 1 bar</i>	4600 NI/min	
Temperatura di esercizio <i>Temperature range</i>	max +60°C	
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa	
Pressione di azionamento <i>Actuating pressure</i>	monostabile [mono-stable]	bistabile [bi-stable]
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>	

valvole G1/2" azionamento pneumatico

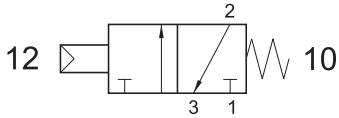
pneumatically piloted valves - G1/2"



324 MC

3/2 1/2" NC comando pneumatico - ritorno a molla

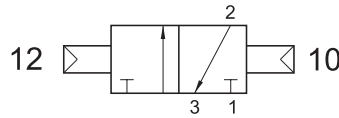
3/2 1/2" NC pneumatic pilot - spring return



324 CC

3/2 1/2" doppio comando pneumatico

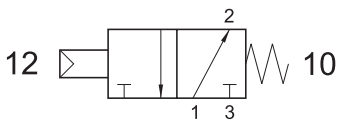
3/2 1/2" double pneumatic pilot



324 MCA

3/2 1/2" NA comando pneumatico - ritorno a molla

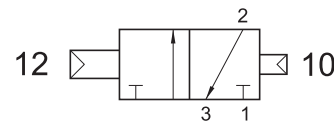
3/2 1/2" NO pneumatic pilot - spring return



324 CCD

3/2 1/2" doppio comando pneumatico - con differenziale

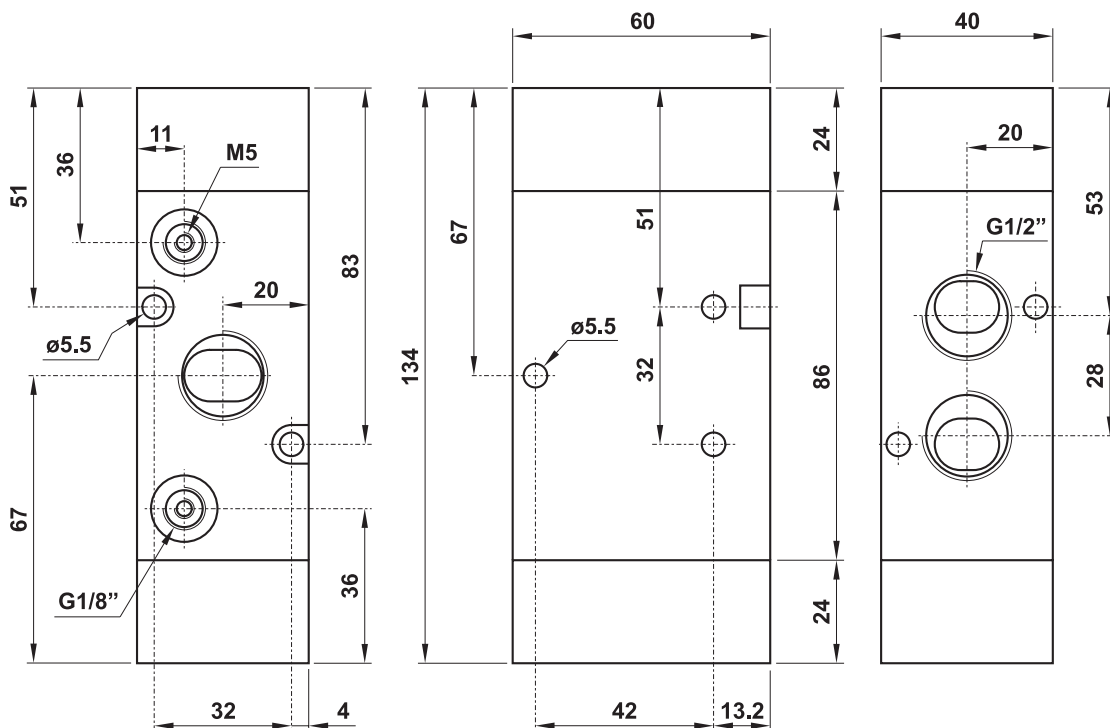
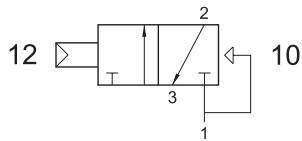
3/2 1/2" double pneumatic pilot - with differential



324 CFP

3/2 1/2" NC comando pneumatico - ritorno a molla pneumatica

3/2 1/2" NC pneumatic pilot - pneumatic spring return



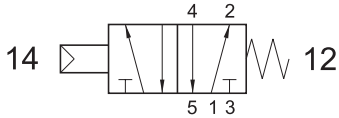
valvole G1/2" azionamento pneumatico

pneumatically piloted valves - G1/2"



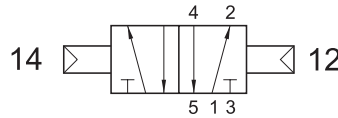
524 MC

5/2 1/2" comando pneumatico - ritorno a molla
 5/2 1/2" *pneumatic pilot - spring return*



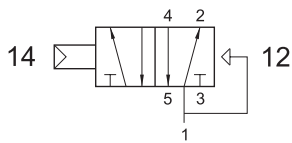
524 CC

5/2 1/2" doppio comando pneumatico
 5/2 1/2" *double pneumatic pilot*



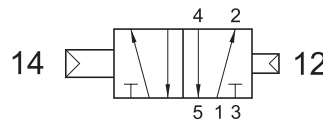
524 CFP

5/2 1/2" comando pneumatico - ritorno a molla pneumatica
 5/2 1/2" *pneumatic pilot - pneumatic spring return*



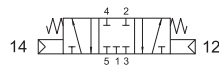
524 CCD

5/2 1/2" doppio comando pneumatico - con differenziale
 5/2 1/2" *double pneumatic pilot - with differential*



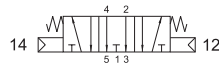
5243C CC

centri chiusi
closed centres



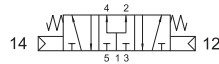
5243A CC

centri aperti
open centres

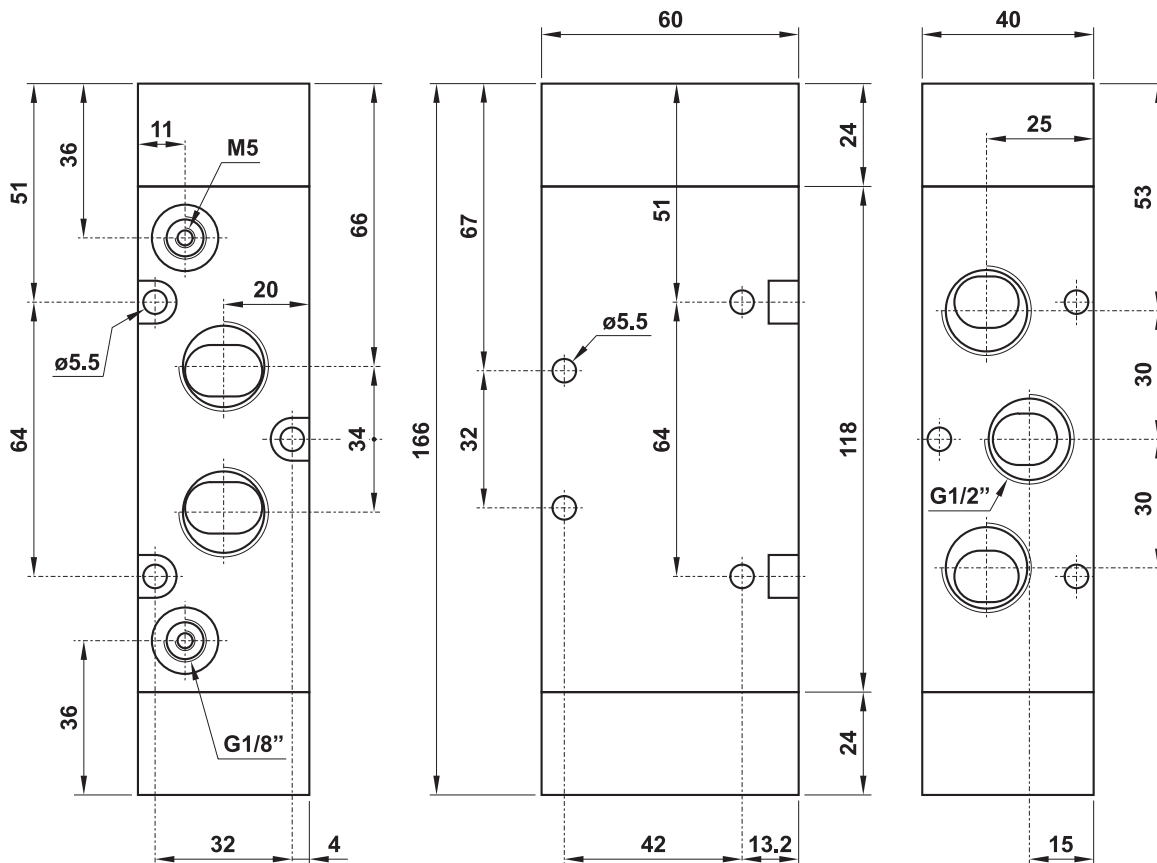


5243P CC

centri in pressione
pressurized centres



5/3 1/2" doppio comando pneumatico
 5/3 1/2" *double pneumatic pilot*



valvole G1/2" azionamento pneumatico

pneumatically piloted valves - G1/2"



Multifunzionalità e adattabilità della valvola

La funzione della valvola può essere variata in ogni momento secondo necessità cambiando la posizione dei tappi da M5 e G1/8" collocati nel corpo secondo gli schemi sottoriportati.

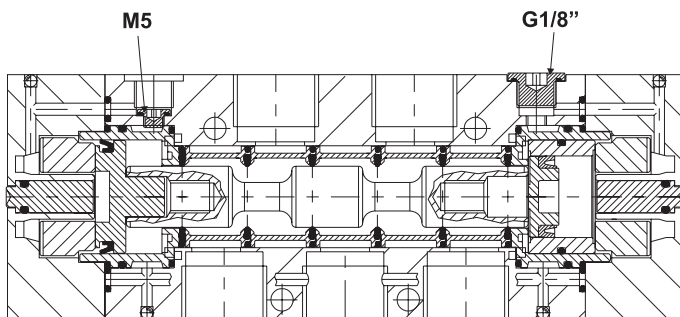
La valvola è fornita nella configurazione richiesta al momento dell'ordine. Eventuali tappi aggiuntivi possono essere ordinati separatamente.

Multifunction feature of the valve

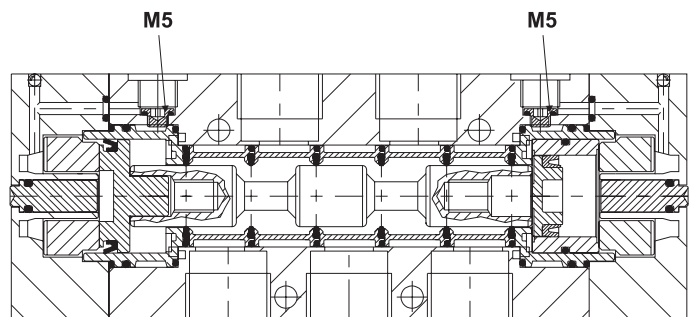
The function of the valve can be changed in any moment. To do this it is enough to change the position of the plugs M5 and G1/8", which are inserted into the body according to the scheme.

The valve is supplied in the configuration specified on the order. More plugs can be ordered separately.

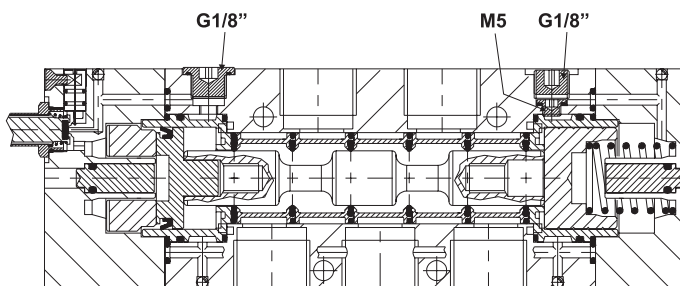
**324 CFP
524 CFP**



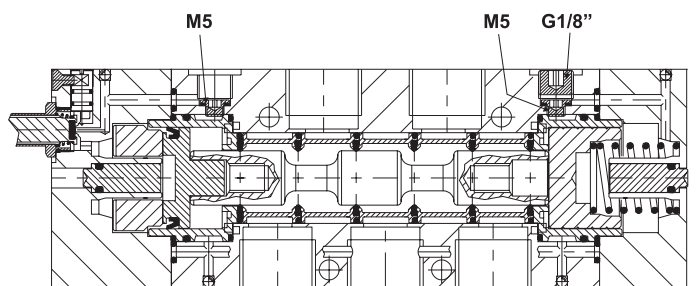
**324 CCD
524 CCD**



**324 ME
524 ME**

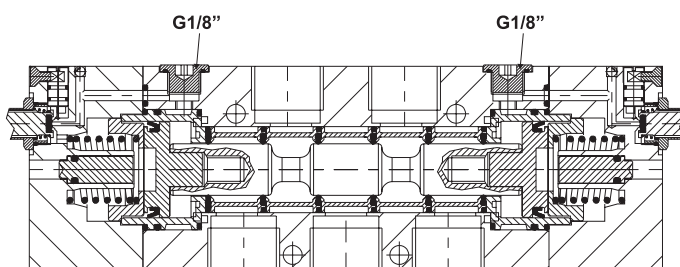


**324 ME AS
524 ME AS**



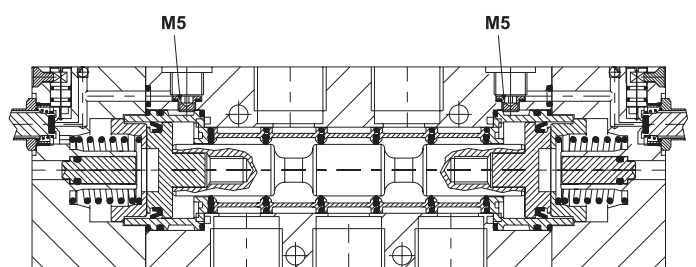
**324 EE
524 EE**

**5243C EE
5243A EE
5243P EE**



**324 EE AS
524 EE AS**

**5243C EE AS
5243A EE AS
5243P EE AS**

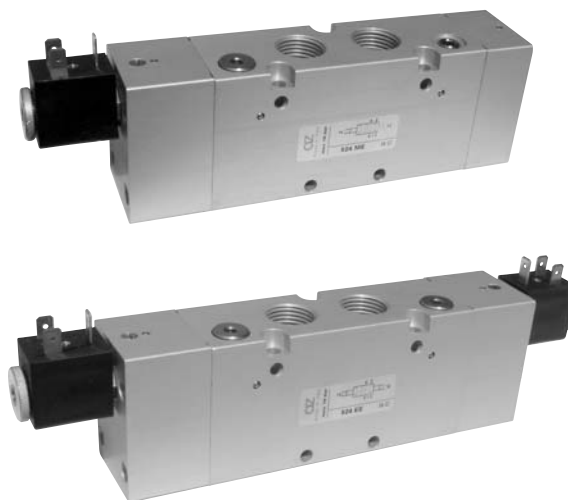


valvole G1/2" azionamento elettropneumatico

solenoid actuated valves - G1/2"



- Valvole a spola 3/2-5/2-5/3 con attacchi filettati G1/2"
3/2-5/2-5/3 spool valves with G1/2" threaded ports
- Elevatissima portata
Very high flow rate
- Montaggio in linea
Installation in-line
- Comandi elettrici con azionamento manuale bistabile
Solenoid pilots with detented manual override as standard
- Multifunzionalità e adattabilità
Multifunction feature



I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 138).

The following listed products are sold without coils, which are bought separately (refer to page 138).

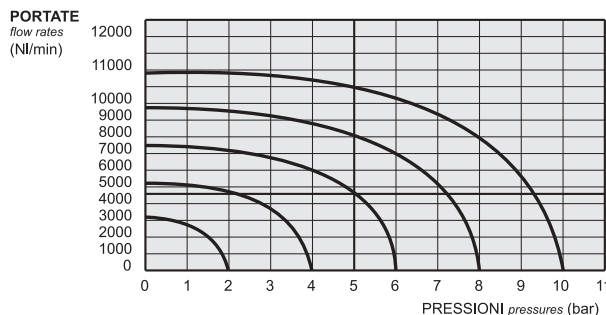
Kit ricambi - spare parts

02.030.2 : per valvole a 3 vie [for 3 way valves] ME - ME AS - MC

02.031.2 : per valvole a 5 vie [for 5 way valves] ME - ME AS - MC

02.032.2 : per valvole a 3 vie [for 3 way valves] EE - EE AS - CC

02.033.2 : per valvole a 5 vie [for 5 way valves] EE - EE AS - CC



Tempi di risposta - response times

monostabile <i>mono-stable</i>	TRA (14): 39 ms TRR (12): 60 ms
bistabile <i>bi-stable</i>	TRA (14): 90 ms TRR (12): 90 ms

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: INOX

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spool: stainless steel

Internal parts: brass OT58

Diametro nominale <i>Nominal orifice</i>		13 mm	
Portata nominale a 6 bar, Δp 1 bar <i>Nominal flow rate at 6 bar, Δp 1 bar</i>		4600 NI/min	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Pressione di esercizio <i>Working pressure</i>	al. interna monost. [monost. internal air supply]	al. interna bist. [bi-stable internal air supply]	alim. separata [separate air supply]
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa	max 10 bar max 1 MPa
Pressione di azionamento (per alimentazione separata) <i>Actuating pressure (for separate air supply)</i>	monostabile [mono-stable]		bistabile [bi-stable]
	2.5 ... 10 bar 0.25 ... 1 MPa		1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>		

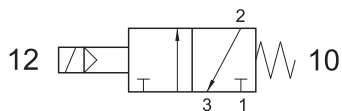
valvole G1/2" azionamento elettropneumatico

solenoid actuated valves - G1/2"



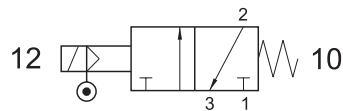
324 ME

3/2 1/2" NC comando elettrico - ritorno a molla
3/2 1/2" NC solenoid pilot - spring return



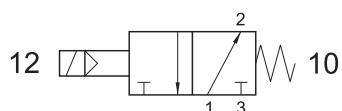
324 ME AS

3/2 1/2" comando elettrico alimentazione separata - ritorno a molla
3/2 1/2" solenoid pilot with separate air supply - spring return



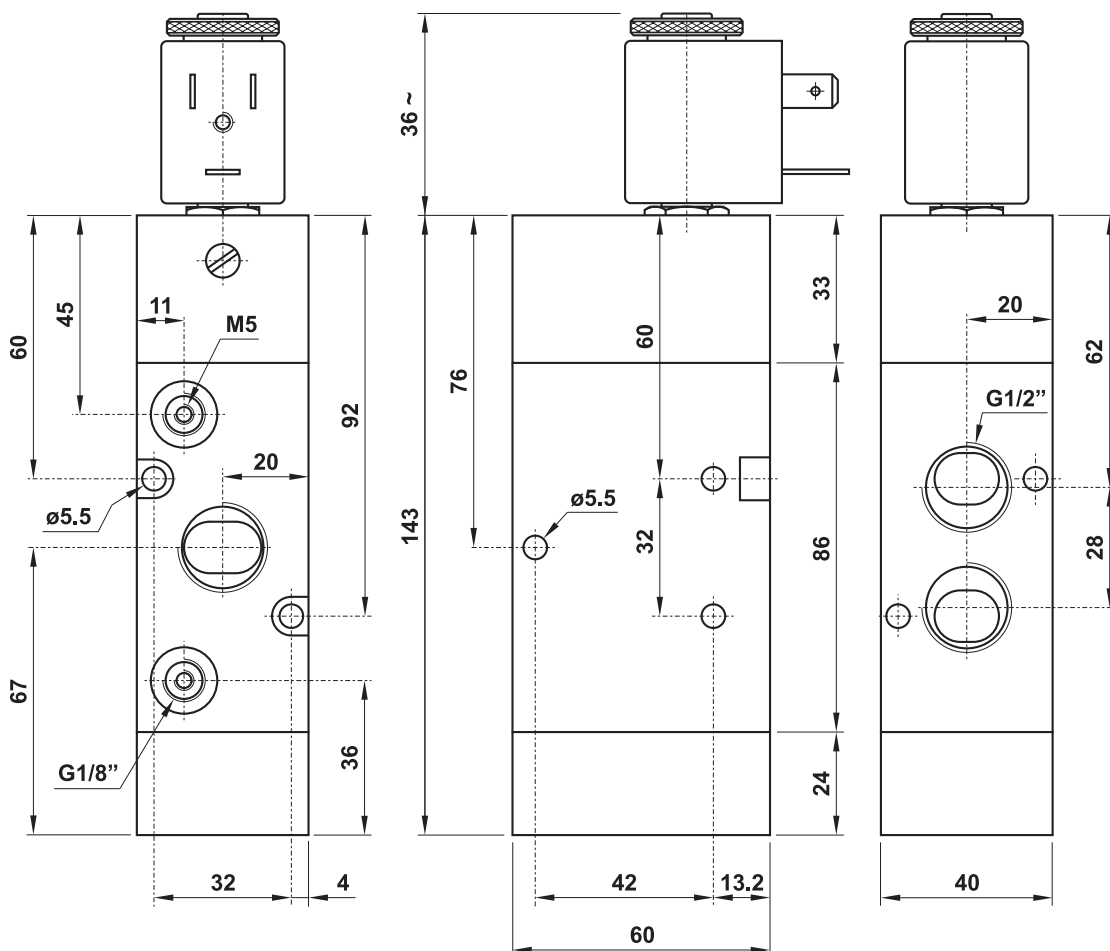
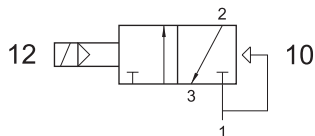
324 MEA

3/2 1/2" NA comando elettrico - ritorno a molla
3/2 1/2" NO solenoid pilot - spring return



324 EFP

3/2 1/2" NC comando elettrico - ritorno a molla pneumatica
3/2 1/2" NC solenoid pilot - pneumatic spring return



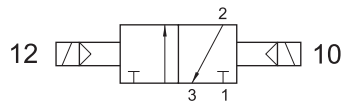
valvole G1/2" azionamento elettropneumatico

solenoid actuated valves - G1/2"



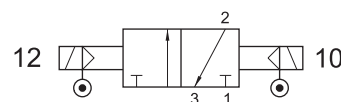
324 EE

3/2 1/2" doppio comando elettrico
3/2 1/2" double solenoid pilot



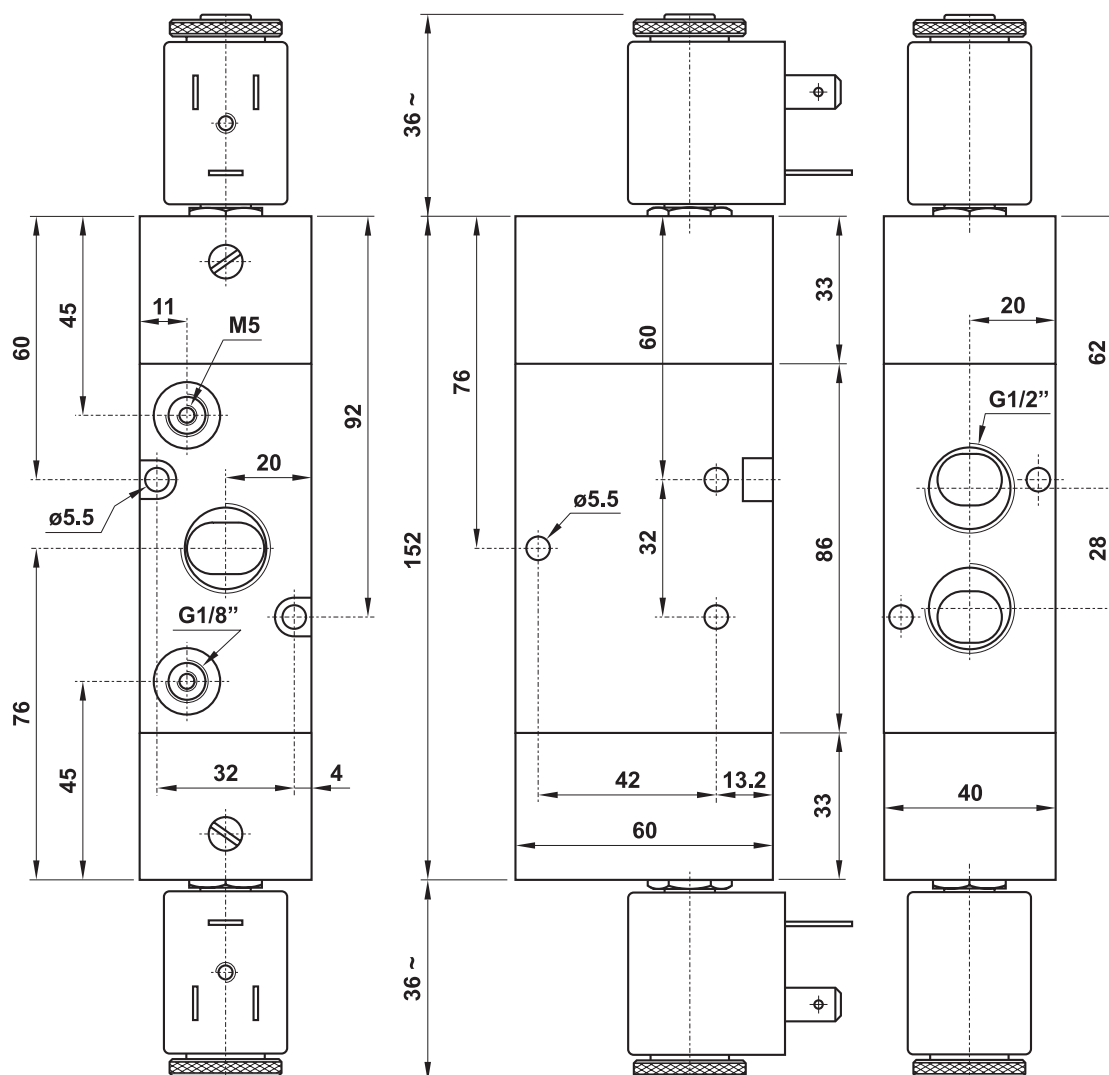
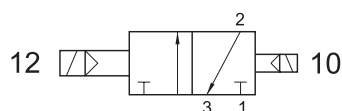
324 EE AS

3/2 1/2" doppio comando elettrico alimentazione separata
3/2 1/2" double solenoid pilot with separate air supply



324 EED

3/2 1/2" doppio comando elettrico - con differenziale
3/2 1/2" double solenoid pilot - with differential



valvole G1/2" azionamento elettropneumatico

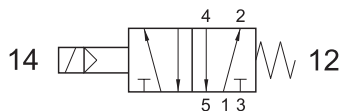
solenoid actuated valves - G1/2"



524 ME

5/2 1/2" comando elettrico - ritorno a molla

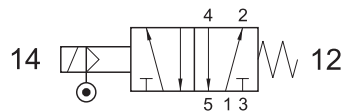
5/2 1/2" solenoid pilot - spring return



524 ME AS

5/2 1/2" comando elettrico alimentazione separata - ritorno a molla

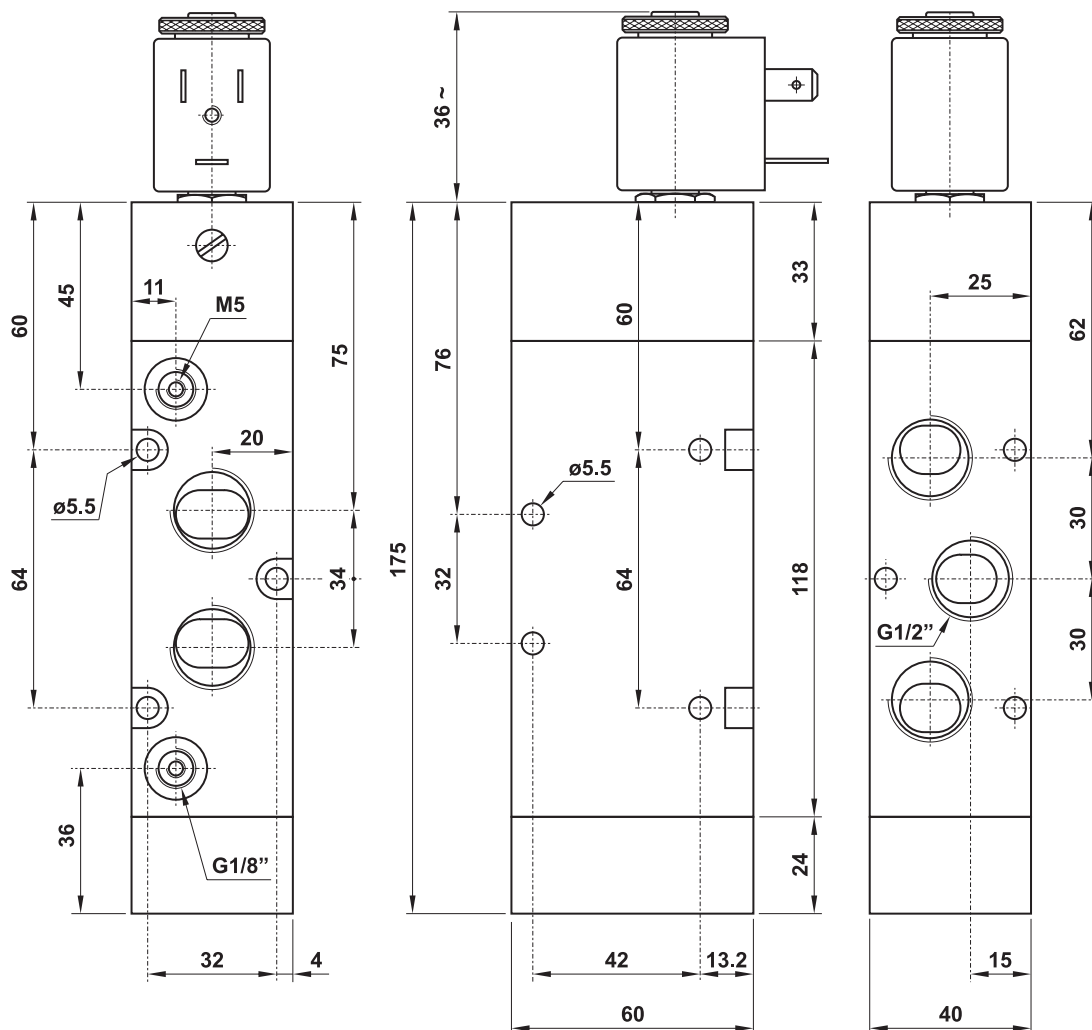
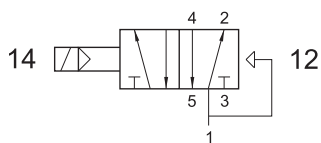
5/2 1/2" solenoid pilot with separate air supply - spring return



524 EFP

5/2 1/2" comando elettrico - ritorno a molla pneumatica

5/2 1/2" solenoid pilot - pneumatic spring return



valvole G1/2" azionamento elettropneumatico

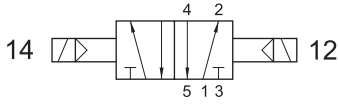
solenoid actuated valves - G1/2"



524 EE

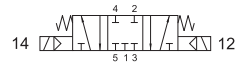
5/2 1/2" doppio comando elettrico

5/2 1/2" double solenoid pilot



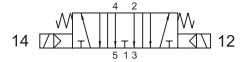
5243C EE

centri chiusi
closed centres



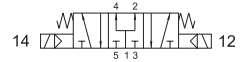
5243A EE

centri aperti
open centres



5243P EE

centri in pressione
pressurized centres



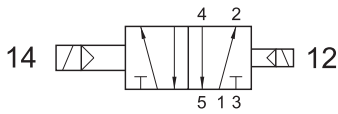
5/3 1/2" doppio comando elettrico

5/3 1/2" double solenoid pilot

524 EED

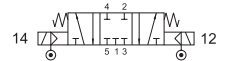
5/2 1/2" doppio comando elettrico - con differenziale

5/2 1/2" double solenoid pilot - with differential



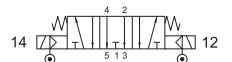
5243C EE AS

centri chiusi
closed centres



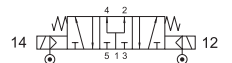
5243A EE AS

centri aperti
open centres



5243P EE AS

centri in pressione
pressurized centres



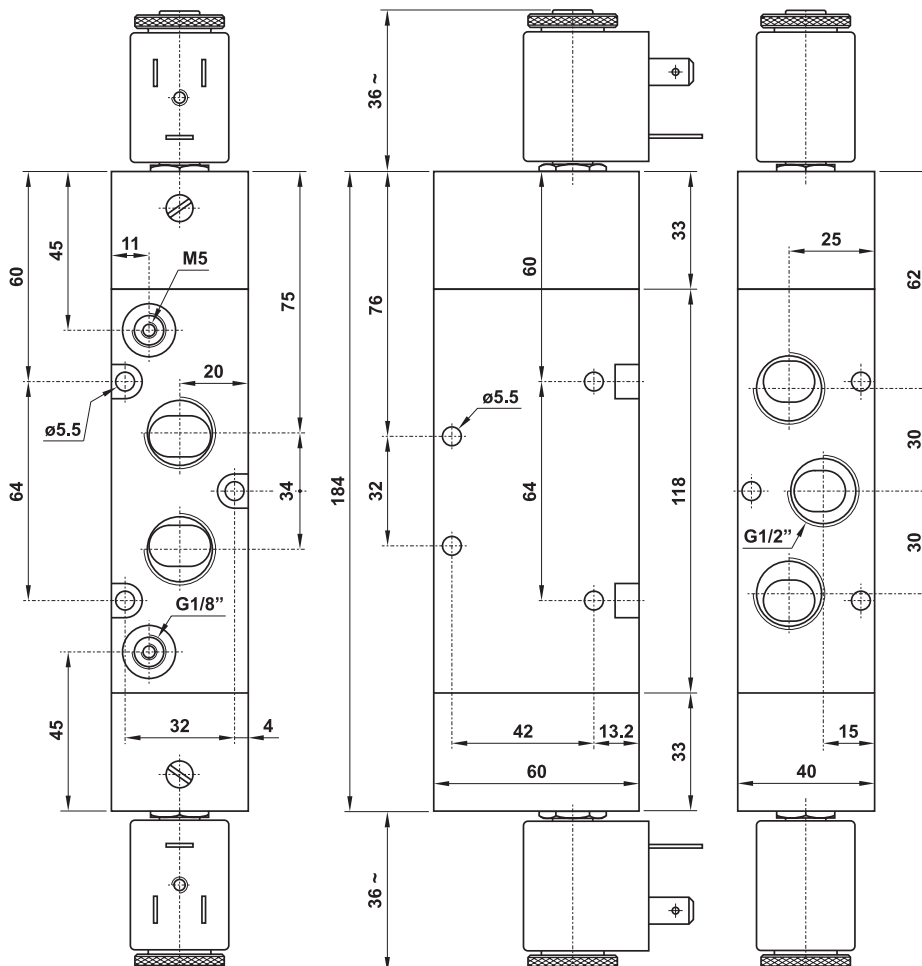
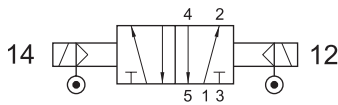
5/3 1/2" doppio comando elettrico alimentazione separata

5/3 1/2" double solenoid pilot with separate air supply

524 EE AS

5/2 1/2" doppio comando elettrico alimentazione separata

5/2 1/2" double solenoid pilot with separate air supply



bobine e connettori 22 mm

22 mm coils and connectors



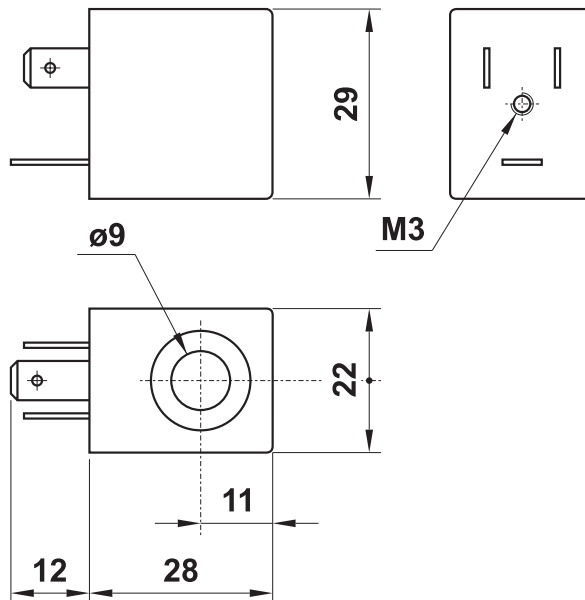
22 mm



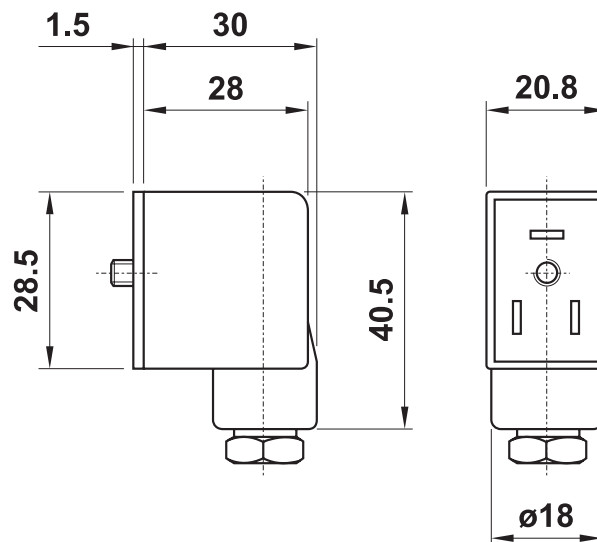
temperatura max di esercizio	+50°C	<i>max working temperature</i>
inserimento	ED 100%	<i>duty cycle</i>
protezione con connettore correttamente montato	IP 65	<i>protection with connector correctly mounted</i>
tolleranza di tensione	±10%	<i>tension tolerance</i>

- a richiesta basso assorbimento 1.5W
low consumption (1.5W) on request

codice <i>code</i>	tensione <i>tension</i>	consumo - power	
		a regime <i>rated</i>	di spunto <i>inrush</i>
00.167.0	12V DC	3W	
00.028.0	24V DC	3W	
00.029.0	24V 50/60Hz	5VA	7.5VA
00.030.0	110V 50/60Hz	5VA	7.5VA
00.031.0	220V 50/60Hz	5VA	7.5VA



codice <i>code</i>	colore <i>colour</i>	cavo <i>cable</i>	tipo <i>type</i>
00.197.0	nero <i>black</i>	PG09	normale <i>standard</i>
00.344.0	trasparente <i>transparent</i>	PG09	con LED 24V <i>with LED 24V</i>
00.345.0	trasparente <i>transparent</i>	PG09	con LED 24V e VDR <i>with LED 24V and VDR</i>
00.346.0	trasparente <i>transparent</i>	PG09	con LED 115V <i>with LED 115V</i>
00.347.0	trasparente <i>transparent</i>	PG09	con LED 115V e VDR <i>with LED 115V and VDR</i>
00.394.0	trasparente <i>transparent</i>	PG09	con LED 230V <i>with LED 230V</i>
00.395.0	trasparente <i>transparent</i>	PG09	con LED 230V e VDR <i>with LED 230V and VDR</i>



PEZZI DI RICAMBIO - spare parts
canotto per elettropilota
armature for solenoid pilot

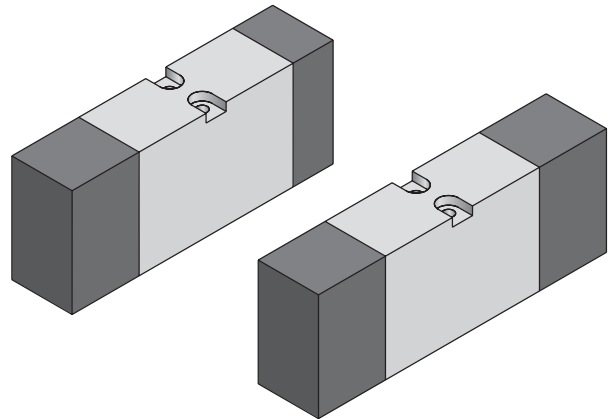
NC : 00.088.0
NA (NO) : 00.306.0

valvole VDMA 18 mm azionamento pneumatico

pneumatically piloted valves - VDMA 18 mm



- Valvole a spola 5/2-5/3
5/2-5/3 spool valves
- A norma VDMA 24563 - taglia 02 (18 mm)
Compliant to norm VDMA 24563 - size 02 (18 mm)
- Montaggio su basi modulari o a posti fissi
Installation on multiple sub-bases or manifolds
- Azionamento pneumatico monostabile o bistabile
Mono-stable or bi-stable pneumatic pilot



Tempi di risposta - response times

monostabile <i>mono-stable</i>	TRA (14): 12 ms TRR (12): 24 ms
bistabile <i>bi-stable</i>	TRA (14): 21 ms TRR (12): 21 ms

Materiali

Corpo: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Spola: alluminio nichelato
Parti interne: ottone OT58

Materials

Body: aluminium 11S
Springs: stainless steel
Seals: NBR
Spool: nickel plated aluminium
Internal parts: brass OT58

Diametro nominale <i>Nominal orifice</i>	5 mm	
Portata nominale a 6 bar, Δp 1 bar <i>Nominal flow rate at 6 bar, Δp 1 bar</i>	550 Nl/min	
Temperatura di esercizio <i>Temperature range</i>	max +60°C	
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa	
Pressione di azionamento <i>Actuating pressure</i>	monostabile <i>[mono-stable]</i>	bistabile <i>[bi-stable]</i>
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>	

valvole VDMA 18 mm azionamento pneumatico

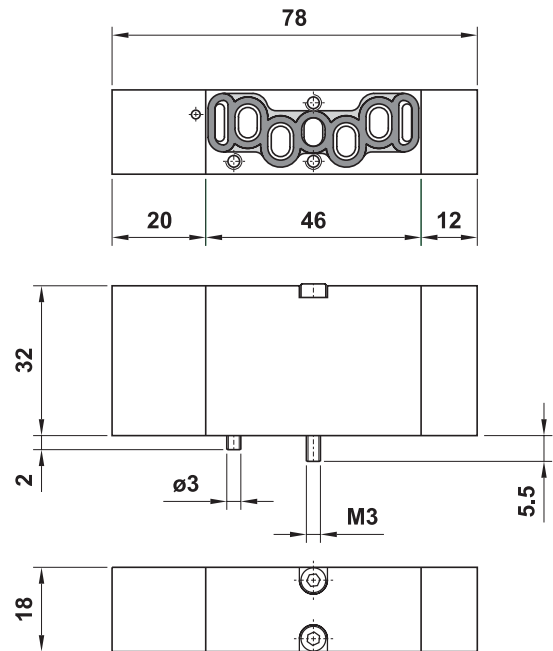
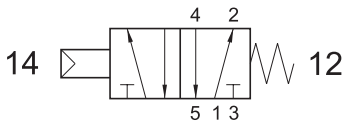
pneumatically piloted valves - VDMA 18 mm



851 MC

5/2 comando pneumatico - ritorno a molla

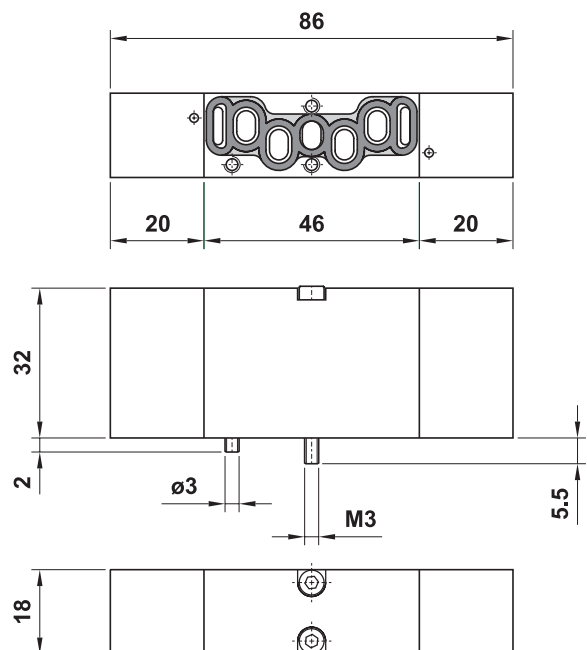
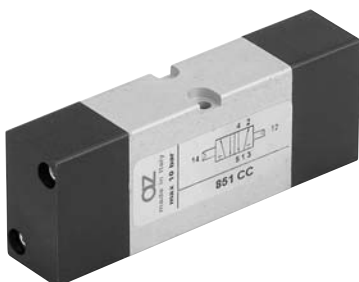
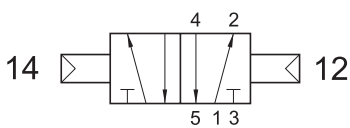
5/2 pneumatic pilot - spring return



851 CC

5/2 doppio comando pneumatico

5/2 double pneumatic pilot



valvole VDMA 18 mm azionamento pneumatico

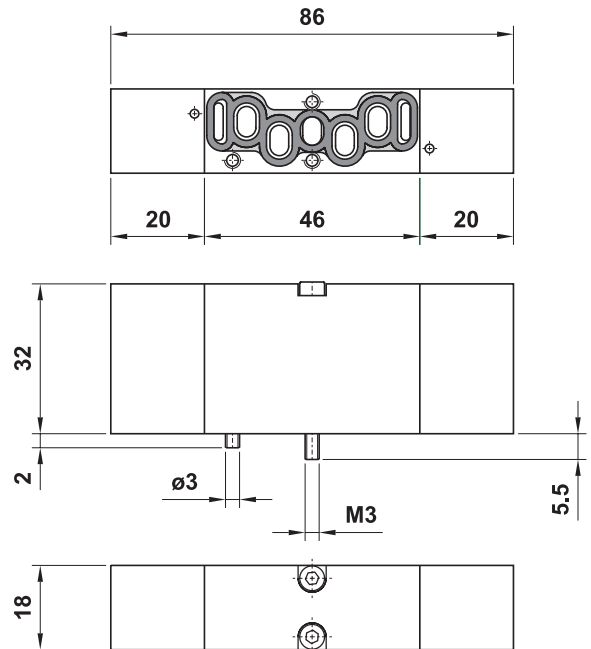
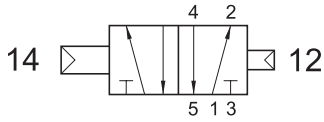
pneumatically piloted valves - VDMA 18 mm



851 CCD

5/2 doppio comando pneumatico - con differenziale

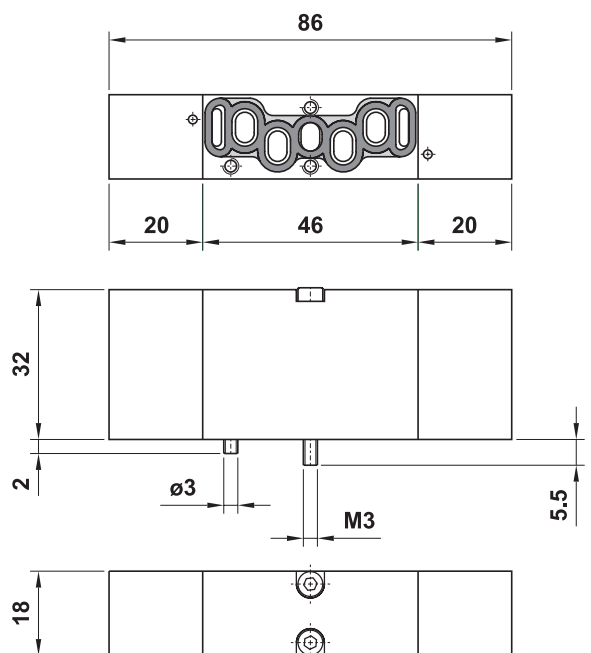
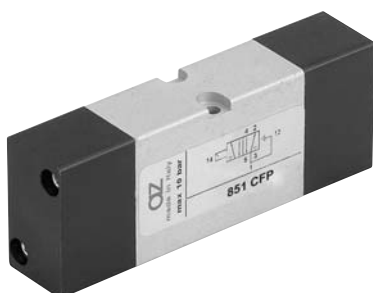
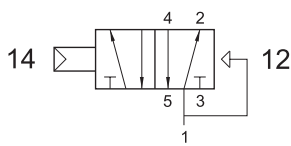
5/2 double pneumatic pilot - with differential



851 CFP

5/2 comando pneumatico - ritorno a molla pneumatica

5/2 pneumatic pilot - pneumatic spring return



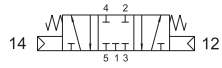
valvole VDMA 18 mm azionamento pneumatico

pneumatically piloted valves - VDMA 18 mm



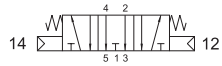
8513C CC

centri chiusi
closed centres



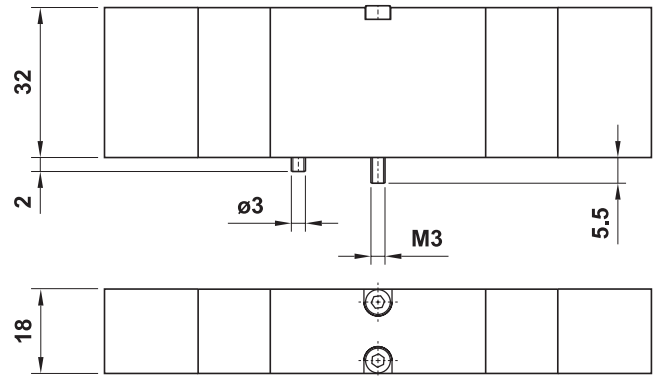
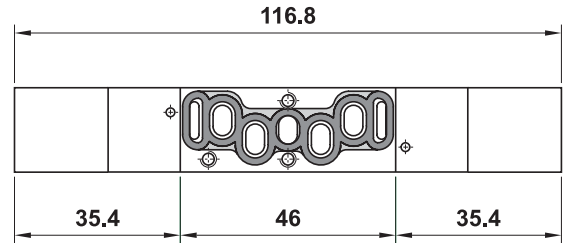
8513A CC

centri aperti
open centres



5/3 doppio comando pneumatico

5/3 double pneumatic pilot

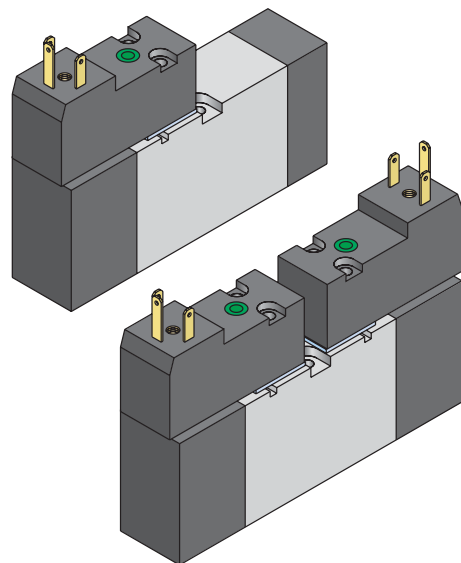


valvole VDMA 18 mm azion. elettropneumatico

solenoid actuated valves - VDMA 18 mm



- Valvole a spola 5/2-5/3
5/2-5/3 spool valves
- A norma VDMA 24563 - taglia 02 (18 mm)
Compliant to norm VDMA 24563 - size 02 (18 mm)
- Montaggio su basi modulari o a posti fissi
Installation on multiple sub-bases or manifolds
- Azionamento elettropneumatico monostabile o bistabile
Mono-stable or bi-stable solenoid pilot
- Elettropilota 15 mm basso assorbimento (2W) a norma DIN 43650, forma C
15 mm low consumption solenoid pilot (2W), compliant to norm DIN 43650, C form
- Azionatore manuale monostabile sull'elettropilota
Non-detented manual override on the solenoid pilot



I prodotti di seguito indicati sono venduti con elettropilota/i montato/i (per i dati tecnici vedi pag. 102).
The following listed products are sold with mounted solenoid pilot(s); for technical data see page 102.

Tempi di risposta - *response times*

monostabile <i>mono-stable</i>	TRA (14): 13 ms TRR (12): 26 ms
bistabile <i>bi-stable</i>	TRA (14): 24 ms TRR (12): 24 ms

Materiali

Corpo: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Spola: alluminio nichelato
Parti interne: ottone OT58

Materials

Body: aluminium 11S
Springs: stainless steel
Seals: NBR
Spool: nickel plated aluminium
Internal parts: brass OT58

Diametro nominale <i>Nominal orifice</i>		5 mm	
Portata nominale a 6 bar, Δp 1 bar <i>Nominal flow rate at 6 bar, Δp 1 bar</i>		550 NI/min	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Pressione di esercizio <i>Working pressure</i>	al. interna monost. [<i>monost. internal air supply</i>]	al. interna bist. [<i>bi-stable internal air supply</i>]	alim. separata [<i>separate air supply</i>]
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa	max 10 bar max 1 MPa
Pressione di azionamento (per alimentazione separata) <i>Actuating pressure (for separate air supply)</i>	monostabile [<i>mono-stable</i>]		bistabile [<i>bi-stable</i>]
	2.5 ... 10 bar 0.25 ... 1 MPa		1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>		

valvole VDMA 18 mm azion. elettropneumatico

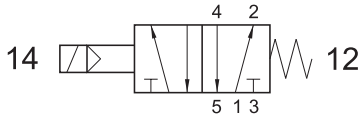
solenoid actuated valves - VDMA 18 mm



851 ME xx

5/2 comando elettrico - ritorno a molla

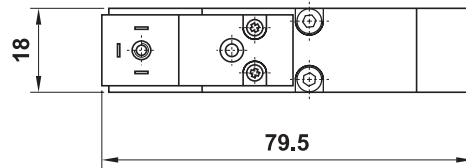
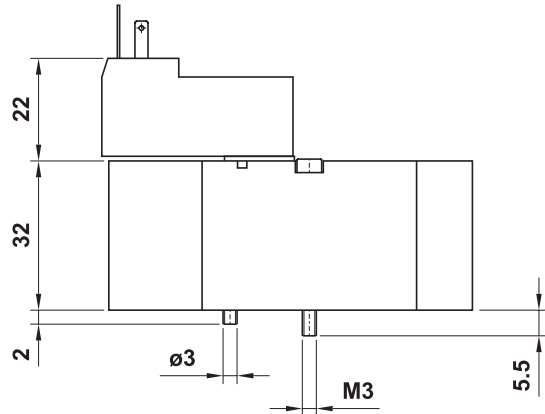
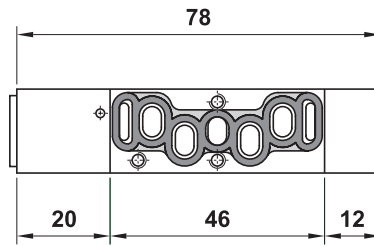
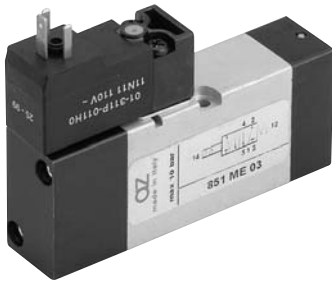
5/2 solenoid pilot - spring return



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.

In the part number replace "xx" with the reference of the solenoid tension.

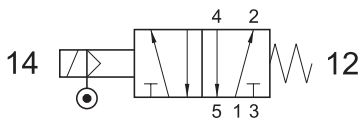
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



851 ME AS xx

5/2 comando elettrico alimentazione separata - ritorno a molla

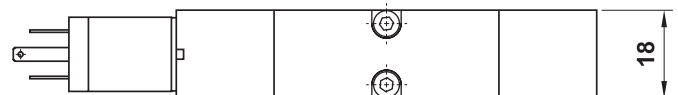
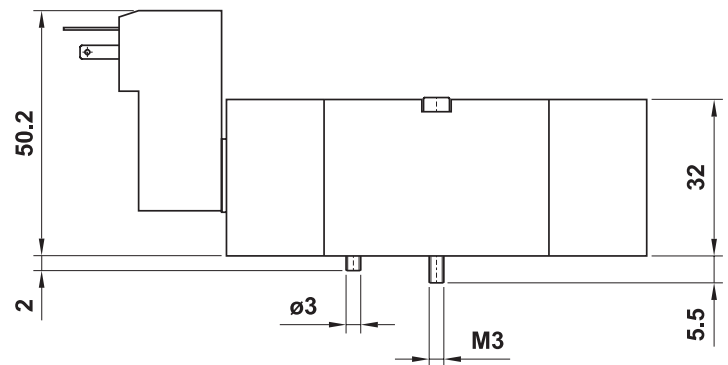
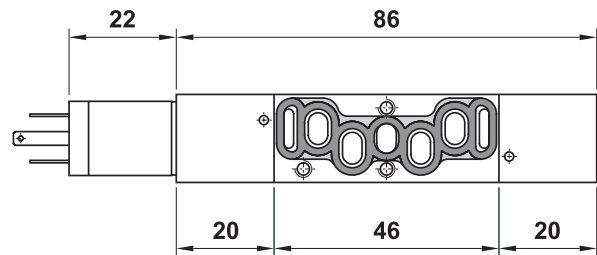
5/2 solenoid pilot with separate air supply - spring return



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.

In the part number replace "xx" with the reference of the solenoid tension.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



valvole VDMA 18 mm azion. elettropneumatico

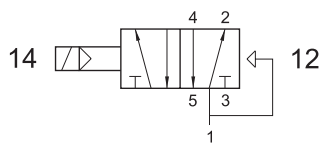
solenoid actuated valves - VDMA 18 mm



851 EFP xx

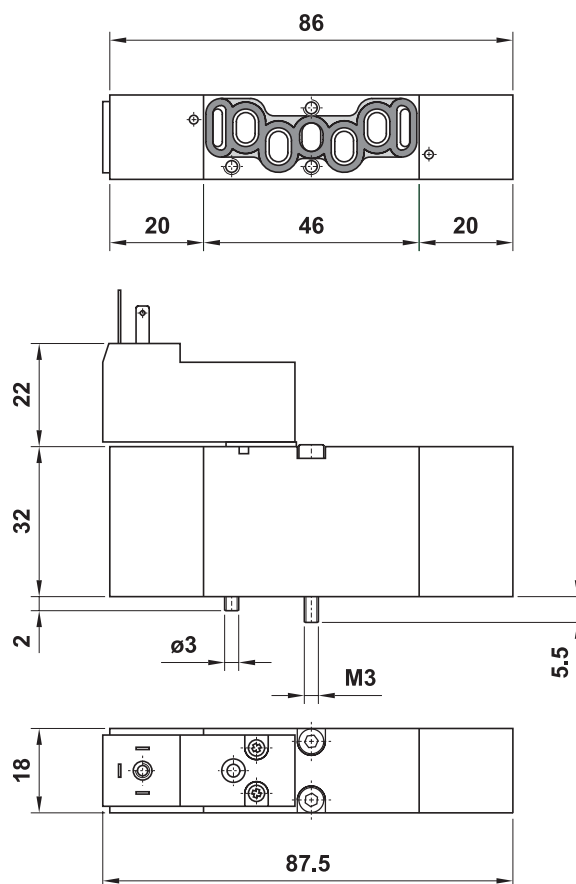
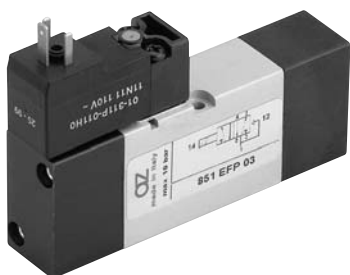
5/2 comando elettrico - ritorno a molla pneumatica

5/2 solenoid pilot - pneumatic spring return



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



valvole VDMA 18 mm azion. elettropneumatico

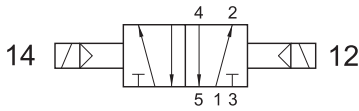
solenoid actuated valves - VDMA 18 mm



851 EE xx

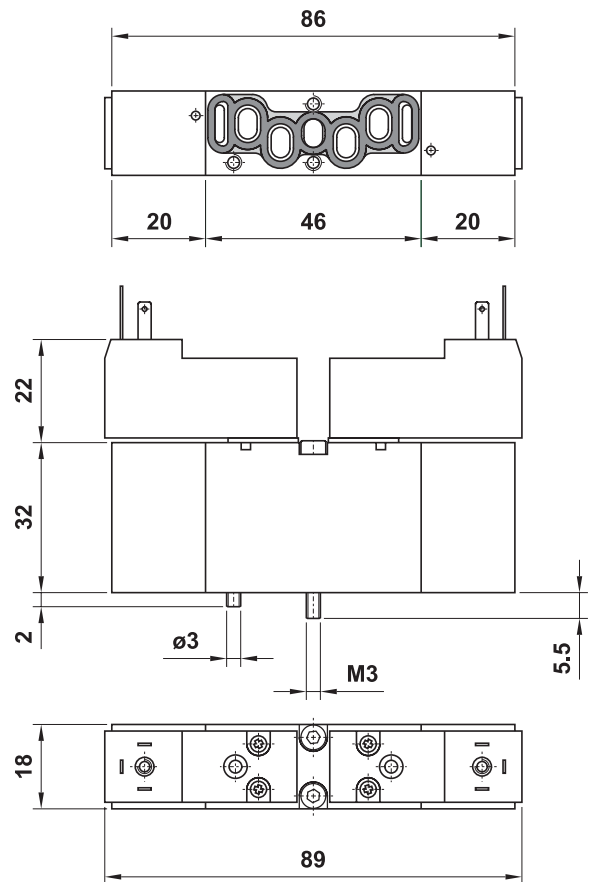
5/2 doppio comando elettrico

5/2 double solenoid pilot



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

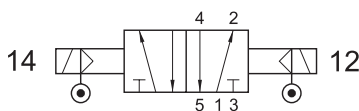
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



851 EE AS xx

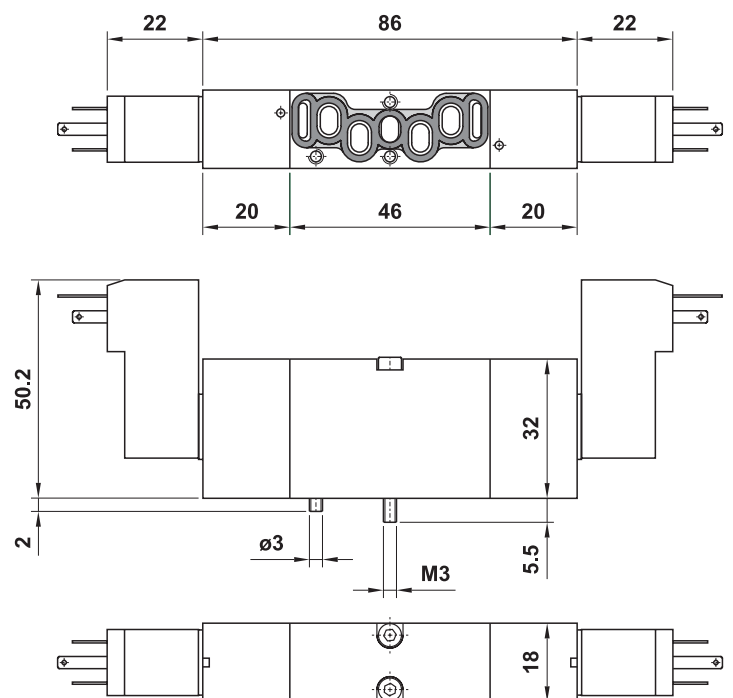
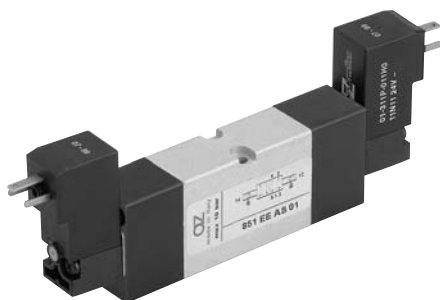
5/2 doppio comando elettrico alimentazione separata

5/2 double solenoid pilot with separate air supply



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



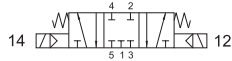
valvole VDMA 18 mm azion. elettropneumatico

solenoid actuated valves - VDMA 18 mm



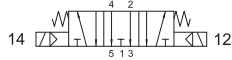
8513C EE xx

centri chiusi
closed centres



8513A EE xx

centri aperti
open centres

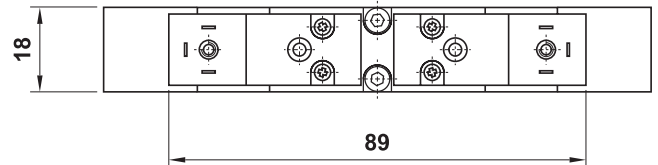
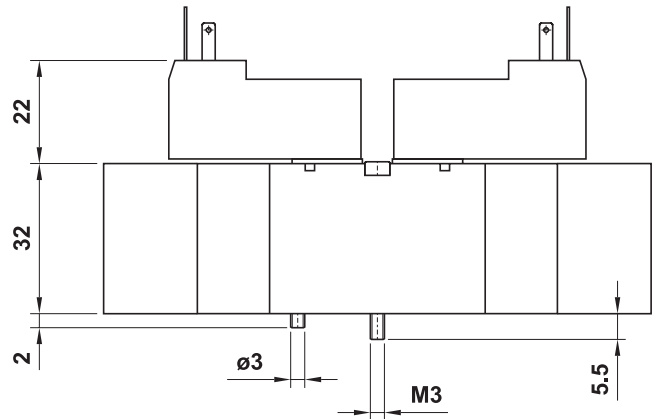
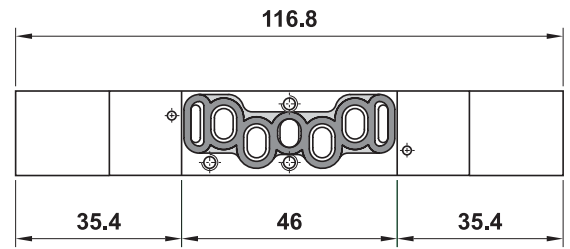


5/3 doppio comando elettrico

5/3 double solenoid pilot

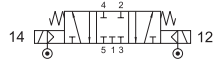
Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



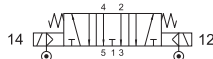
8513C EE AS xx

centri chiusi
closed centres



8513A EE AS xx

centri aperti
open centres

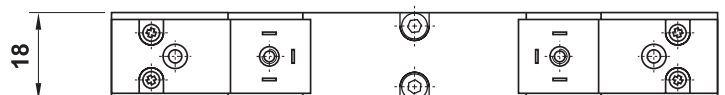
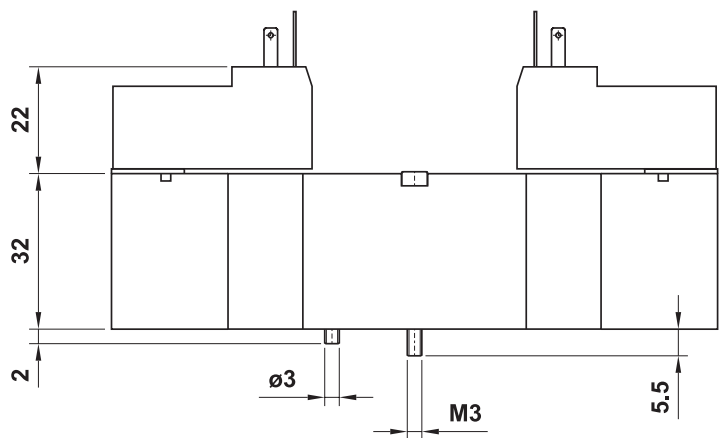
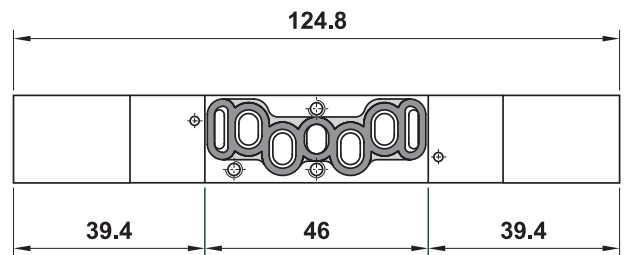
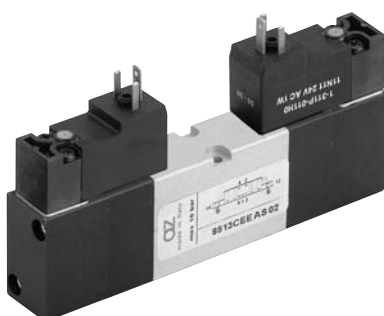


5/3 doppio comando elettrico alimentazione separata

5/3 double solenoid pilot with separate air supply

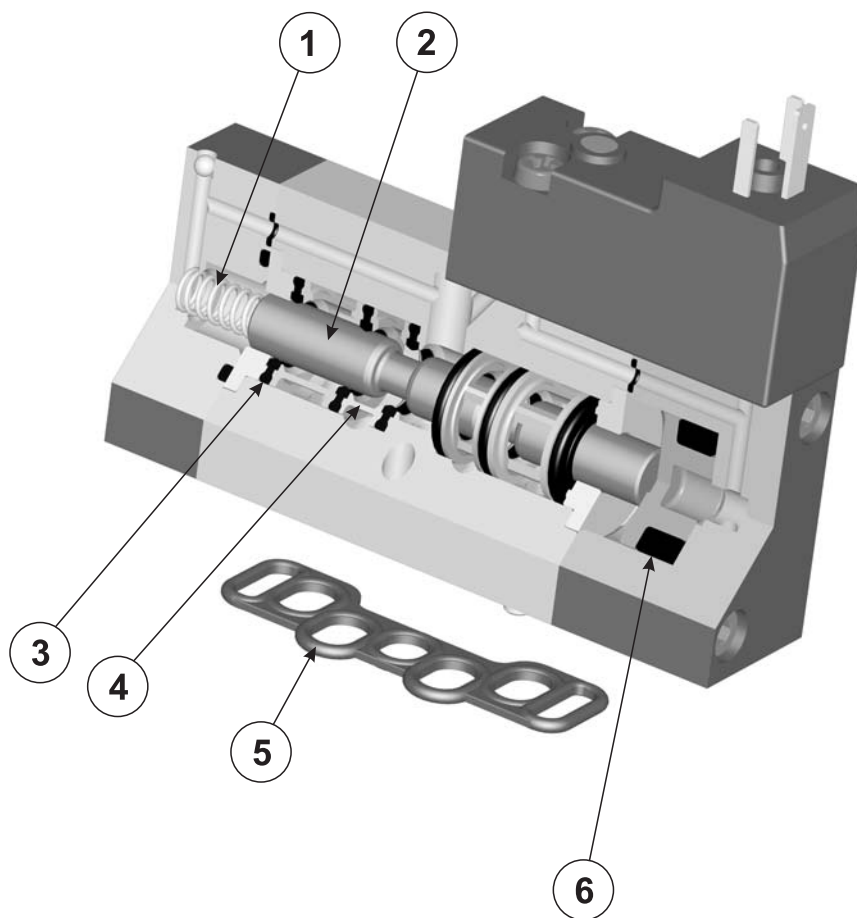
Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



ricambi per valvole VDMA 18 mm

spare parts for 18 mm VDMA valves



1. Molla: acciaio [spring: steel]
2. Spola: alluminio 11S nichelato [spool: aluminium 11S, nickeled]
3. Guarnizione cassetto: NBR [seal for spool: NBR]
4. Distanziale cassetto: ottone [brass]
5. Guarnizione corpo VDMA: NBR [seal for valve body VDMA: NBR]
6. Guarnizione DE per pistone: NBR [seal DE for piston: NBR]

codice kit code of kit	utilizzabile per suitable for		
05.050.2	851 MC	851 ME	
05.051.2	851 CC	851 EE	851 EE AS
05.052.2	8513C CC	8513A CC	8513C EE
	8513A EE	8513C EE AS	8513A EE AS
05.048.2	851 CCD	851 CFP	851 EFP
05.049.2	851 ME AS		

sottobasi modulari per valvole VDMA 18 mm

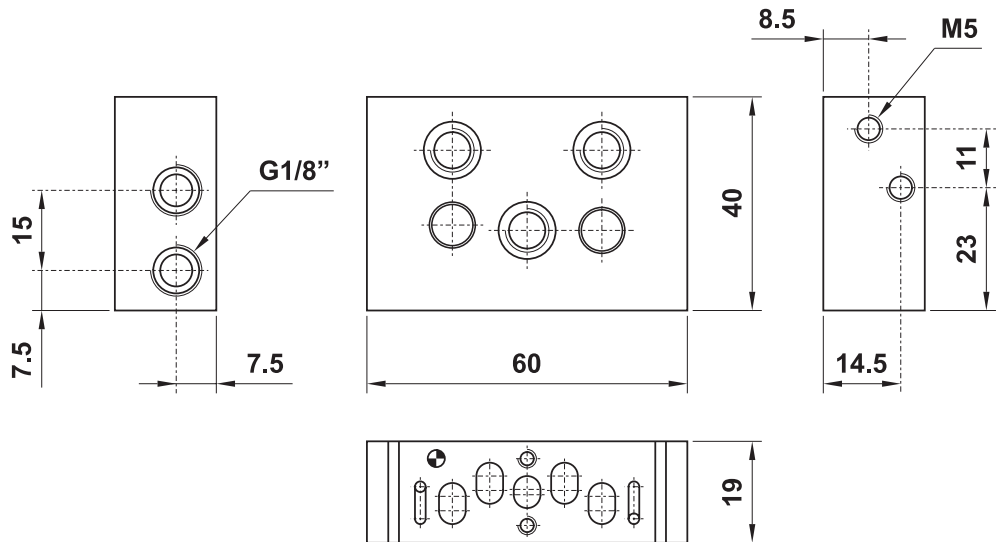
multiple sub-bases for 18 mm VDMA valves



sottobase modulare modular sub-base

CODICE DI ORDINAZIONE
ORDER CODE

BM851

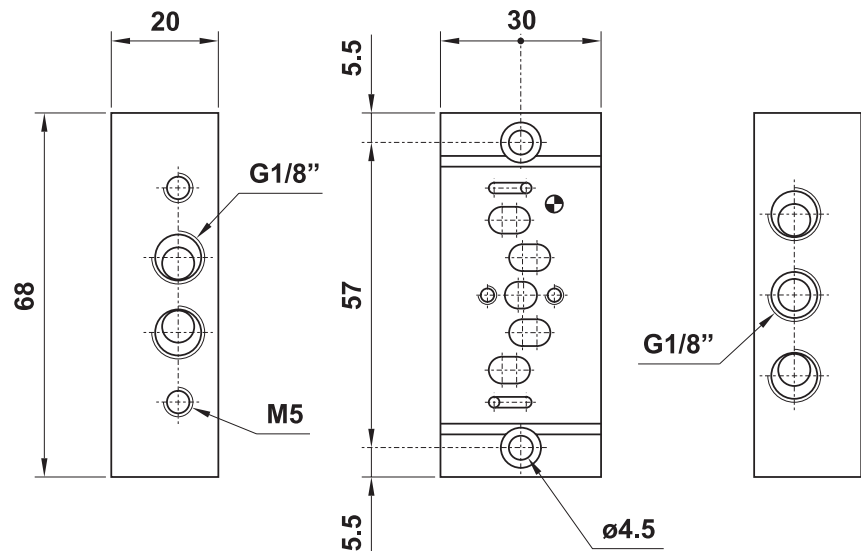
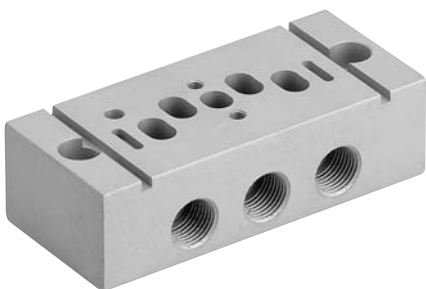


È venduta in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

sottobase singola individual sub-base

CODICE DI ORDINAZIONE
ORDER CODE

BS851



sottobasi modulari per valvole VDMA 18 mm

multiple sub-bases for 18 mm VDMA valves



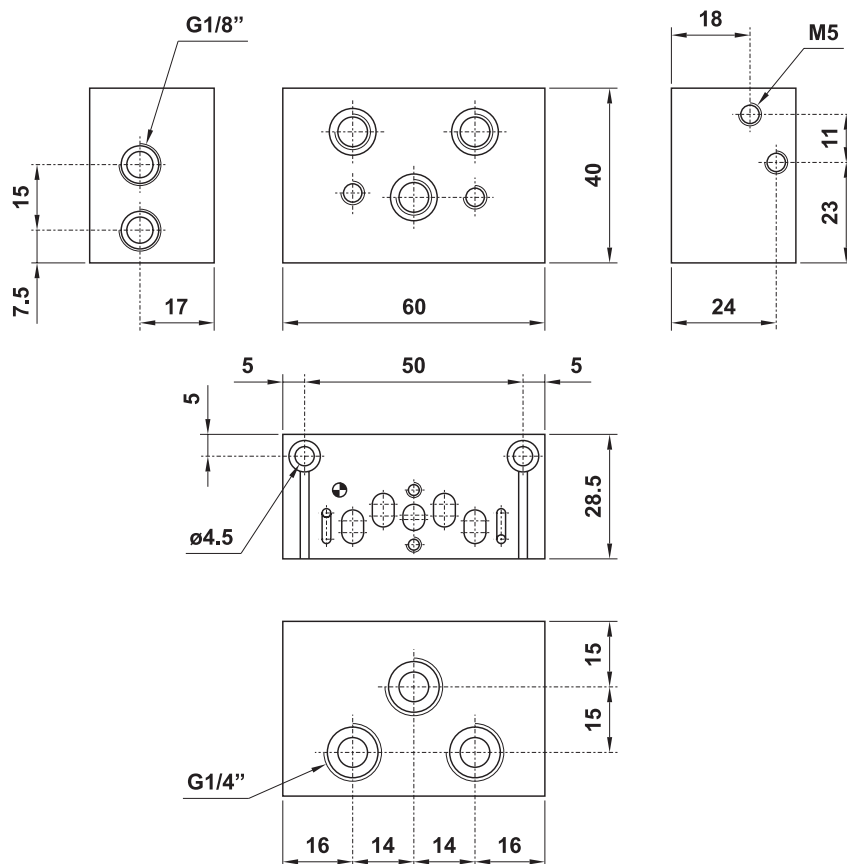
terminale (con base) sinistro left hand header (with sub-base)

CODICE DI ORDINAZIONE
ORDER CODE

TS851

Questo terminale integra una base per il montaggio della valvola.

This header includes one sub-base for valve installation.



È venduto in kit con i particolari necessari al suo assemblaggio.

It is sold in kit with all necessary pieces for installation.

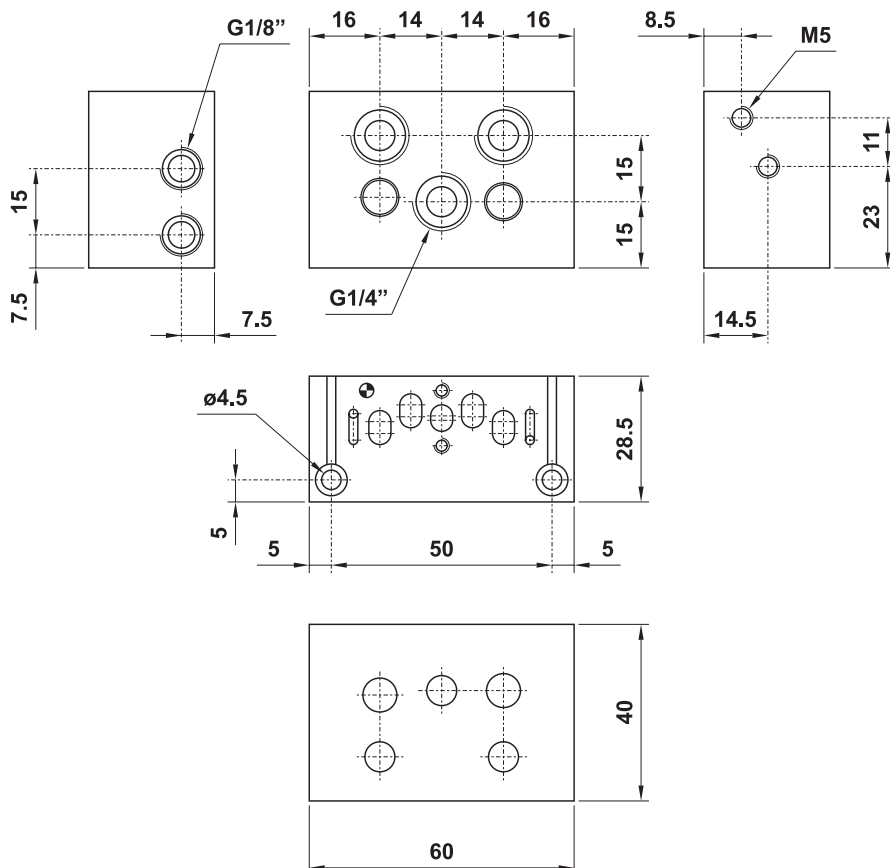
terminale (con base) destro right hand header (with sub-base)

CODICE DI ORDINAZIONE
ORDER CODE

TD851

Questo terminale integra una base per il montaggio della valvola.

This header includes one sub-base for valve installation.



È venduto in kit con i particolari necessari al suo assemblaggio.

It is sold in kit with all necessary pieces for installation.

sottobasi modulari per valvole VDMA 18 mm

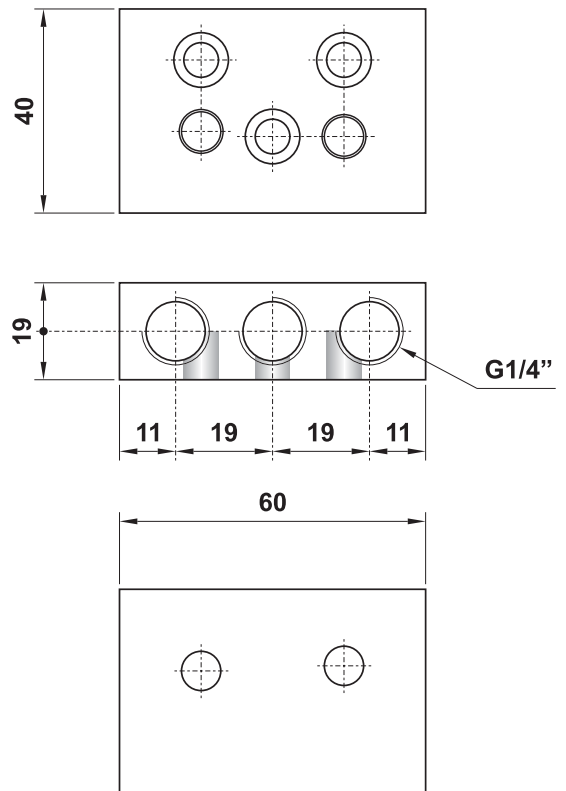
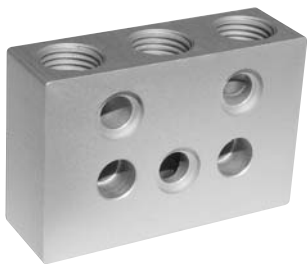
multiple sub-bases for 18 mm VDMA valves



intermedio
intermediate header

CODICE DI ORDINAZIONE
ORDER CODE

DR851

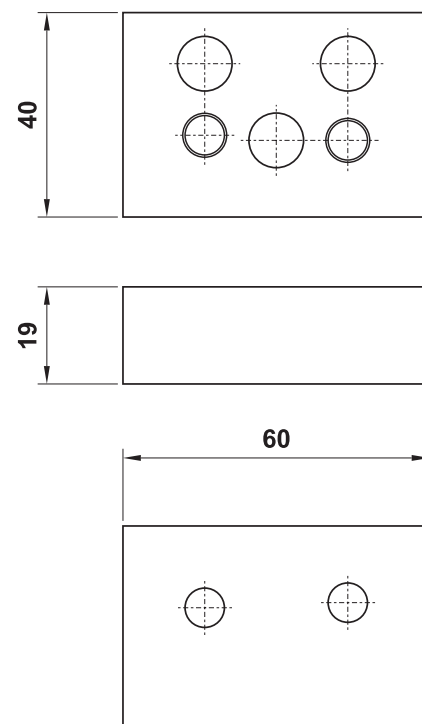
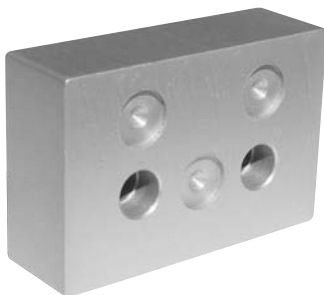


È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

diaframma
blanking piece

CODICE DI ORDINAZIONE
ORDER CODE

DC851



È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

sottobasi modulari per valvole VDMA 18 mm

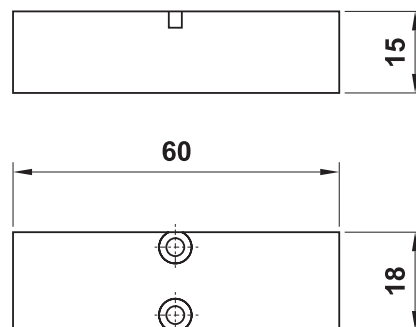
multiple sub-bases for 18 mm VDMA valves



piastrina di chiusura blanking plate

CODICE DI ORDINAZIONE
ORDER CODE

CS851

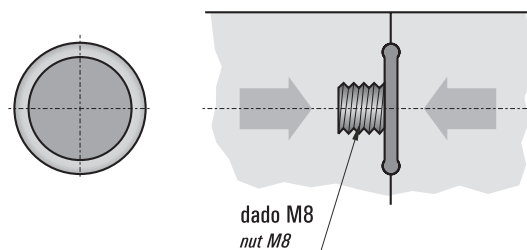


È venduta in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

guarnizione diaframma diaphragm gasket

CODICE DI ORDINAZIONE
ORDER CODE

DF851



Da inserirsi tra due sottobasi modulari per bloccare il flusso d'aria e dividere una batteria di valvole in zone alimentabili a pressioni diverse.

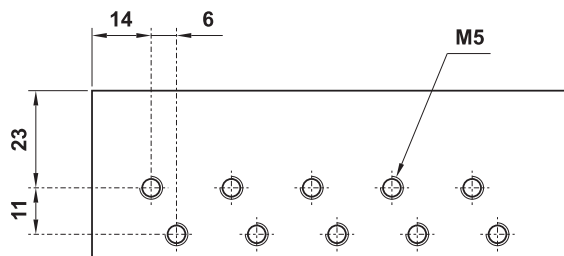
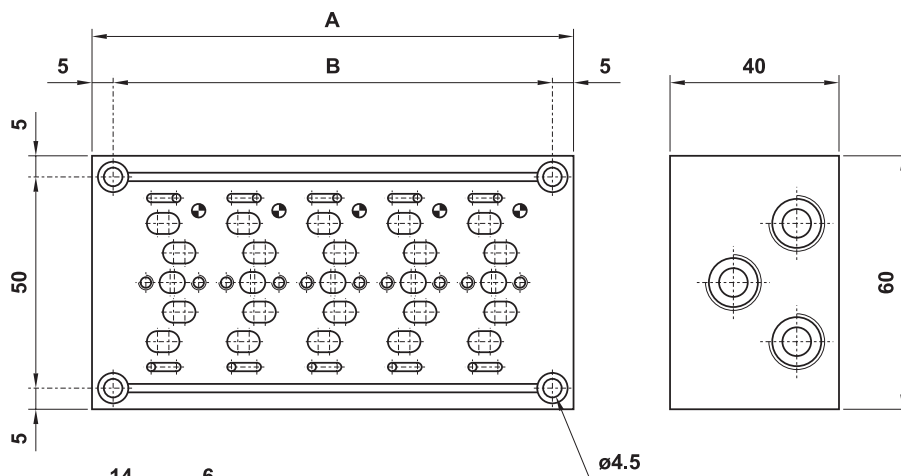
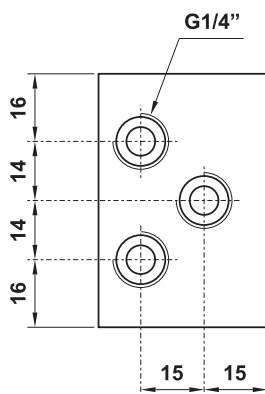
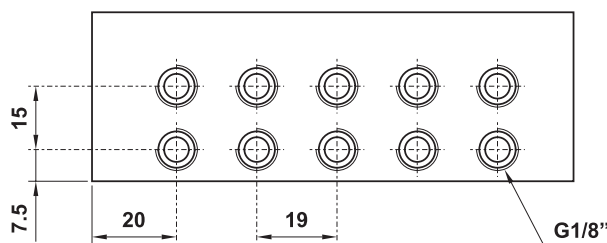
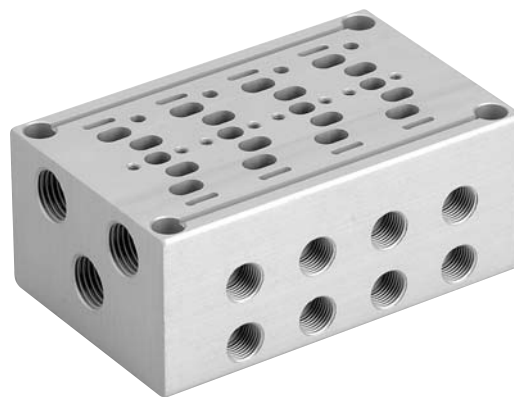
To be inserted between two sub-bases to stop the air flow and divide the manifold into separate zones.

sottobasi a posti fissi valvole VDMA 18 mm

manifolds for 18 mm VDMA valves



- Scarichi convogliati
Common exhaust
- Pilotaggi separati per ogni valvola
Individual pilot for each valve
- Materiale: alluminio anodizzato
Material: aluminium (anodize treatment)
- Sottobasi speciali a richiesta
Special manifolds on request



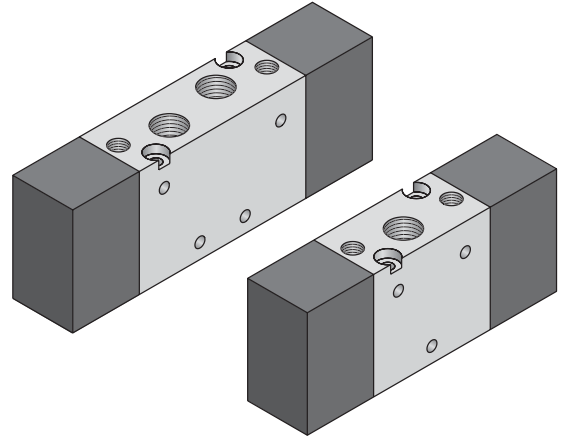
modello model	nr. posizioni no. stations	A	B
05.052.1	2	57	47
05.053.1	3	76	66
05.054.1	4	95	85
05.055.1	5	114	104
05.056.1	6	133	123
05.057.1	7	152	142
05.058.1	8	171	161
05.059.1	9	190	180
05.060.1	10	209	199
05.113.1	11	228	218
05.114.1	12	247	237

valvole 18 mm ad azionamento pneumatico

pneumatically piloted valves - 18 mm



- Valvole a spola 3/2-5/2-5/3 con attacchi filettati G1/8"
3/2-5/2-5/3 spool valves with G1/8" threaded ports
- Spessore della valvola: 18 mm
Valve thickness: 18 mm
- Montaggio in linea, su basi modulari o a posti fissi
Installation in-line, on multiple sub-bases or manifolds
- Azionamento pneumatico monostabile o bistabile
Mono-stable or bi-stable pneumatic pilot



Tempi di risposta - response times

monostabile <i>mono-stable</i>	TRA (14): 12 ms TRR (12): 24 ms
bistabile <i>bi-stable</i>	TRA (14): 21 ms TRR (12): 21 ms

Materiali

Corpo: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Spola: alluminio nichelato
Parti interne: ottone OT58

Materials

Body: aluminium 11S
Springs: stainless steel
Seals: NBR
Spool: nickel plated aluminium
Internal parts: brass OT58

Diametro nominale <i>Nominal orifice</i>	4.5 mm	
Portata nominale a 6 bar, Δp 1 bar <i>Nominal flow rate at 6 bar, Δp 1 bar</i>	500 Nl/min	
Temperatura di esercizio <i>Temperature range</i>	max +60°C	
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa	
Pressione di azionamento <i>Actuating pressure</i>	monostabile [<i>mono-stable</i>]	bistabile [<i>bi-stable</i>]
	3 ... 10 bar 0.3 ... 1 MPa	2 ... 10 bar 0.2 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>	

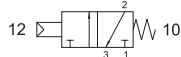
valvole 18 mm ad azionamento pneumatico

pneumatically piloted valves - 18 mm



731 MC

normalmente chiusa
normally closed



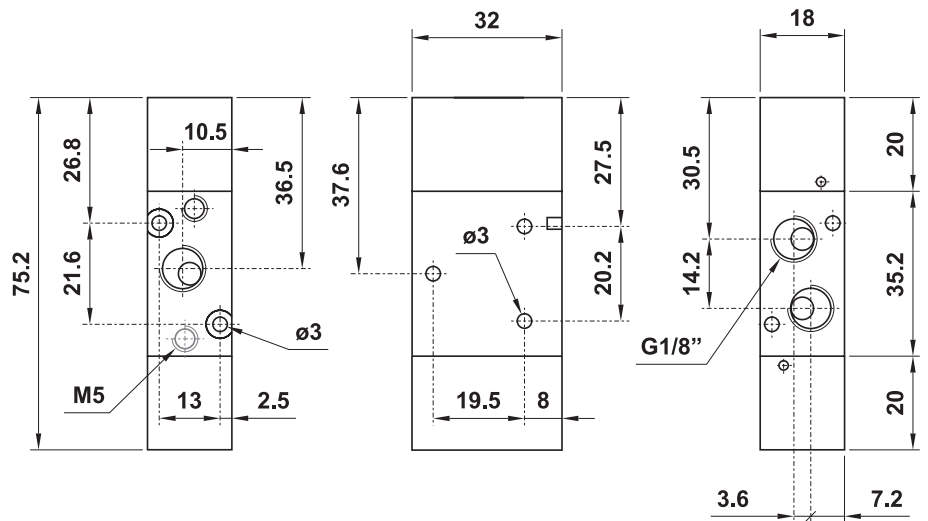
731 MCA

normalmente aperta
normally open



3/2 1/8" comando pneumatico - ritorno a molla

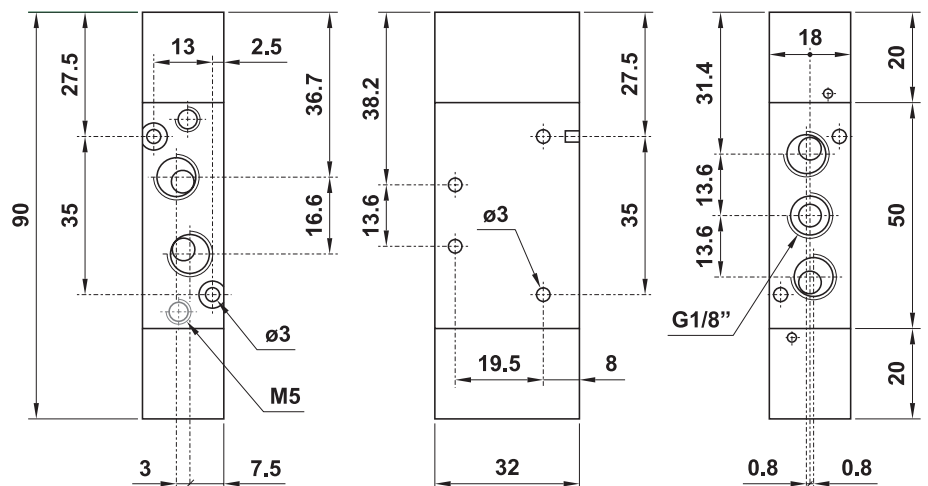
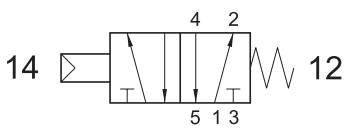
3/2 1/8" pneumatic pilot - spring return



751 MC

5/2 1/8" comando pneumatico - ritorno a molla

5/2 1/8" pneumatic pilot - spring return



valvole 18 mm ad azionamento pneumatico

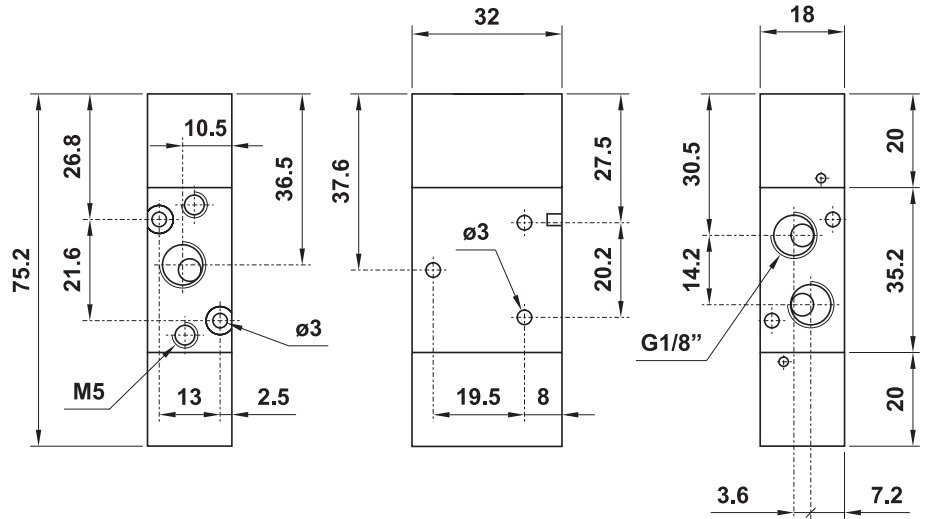
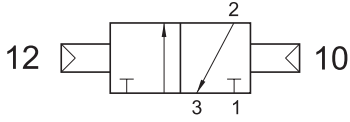
pneumatically piloted valves - 18 mm



731 CC

3/2 1/8" doppio comando pneumatico

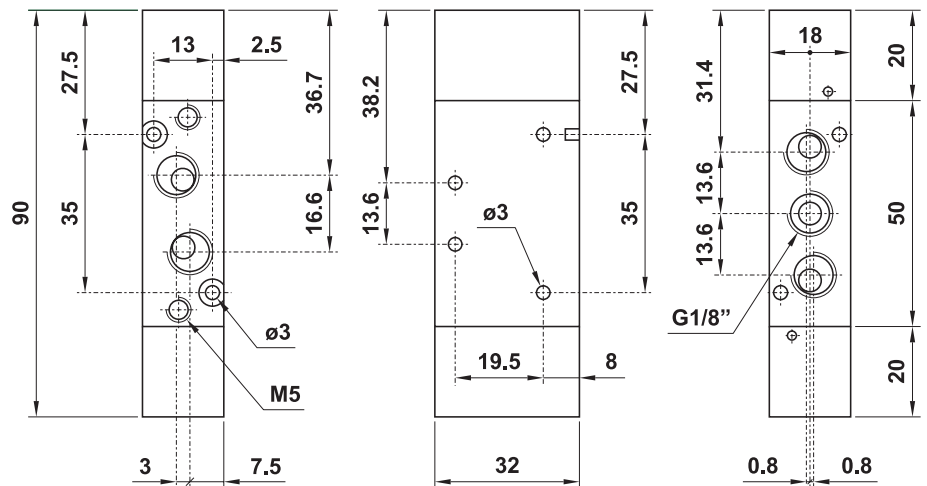
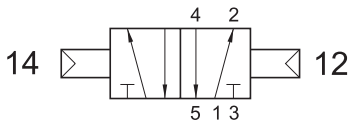
3/2 1/8" double pneumatic pilot



751 CC

5/2 1/8" doppio comando pneumatico

5/2 1/8" double pneumatic pilot



valvole 18 mm ad azionamento pneumatico

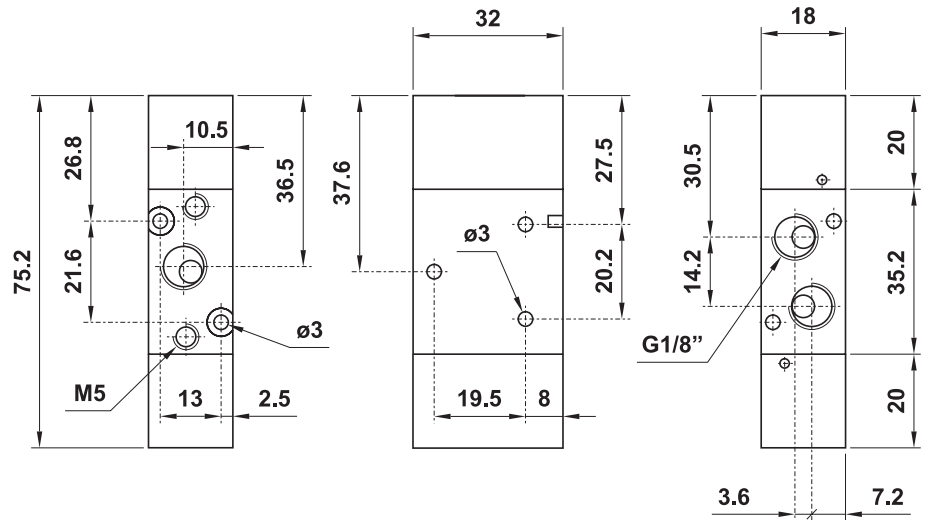
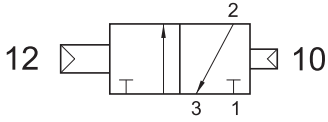
pneumatically piloted valves - 18 mm



731 CCD

3/2 1/8" doppio comando pneumatico - con differenziale

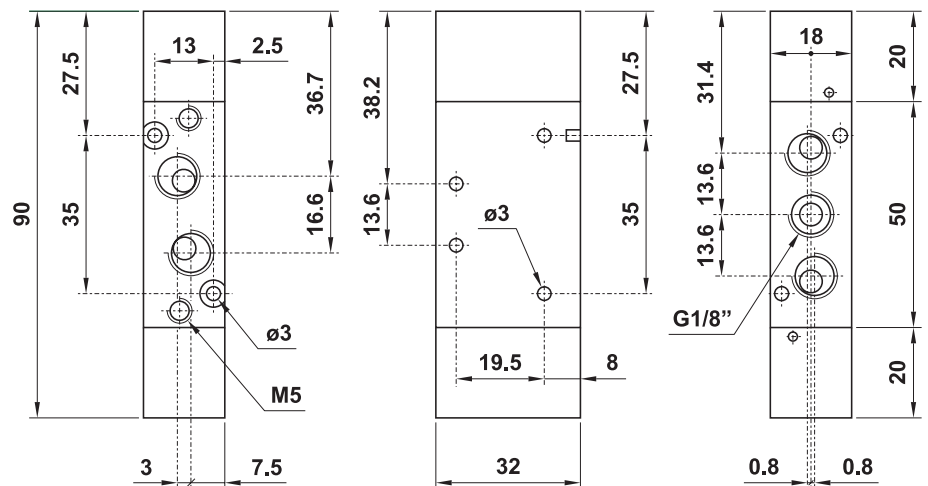
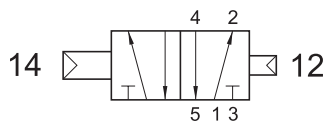
3/2 1/8" double pneumatic pilot - with differential



751 CCD

5/2 1/8" doppio comando pneumatico - con differenziale

5/2 1/8" double pneumatic pilot - with differential



valvole 18 mm ad azionamento pneumatico

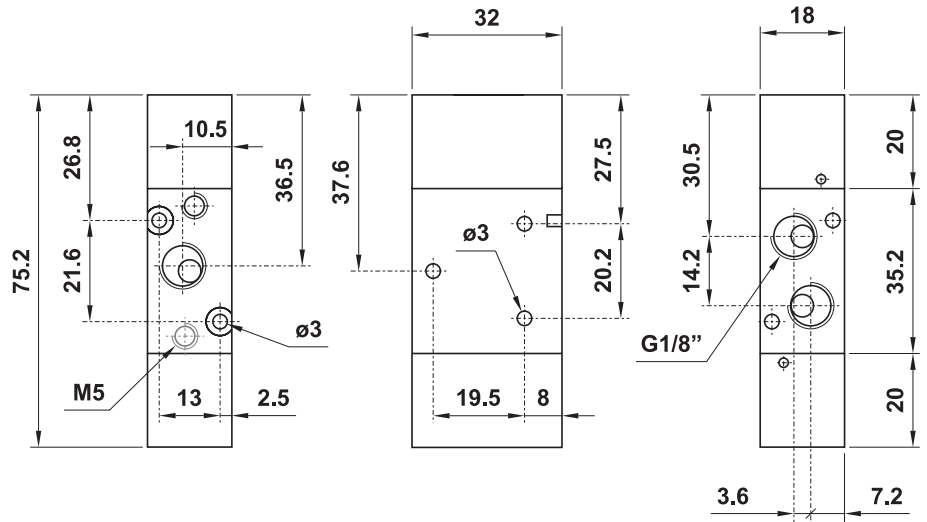
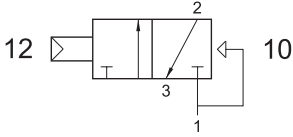
pneumatically piloted valves - 18 mm



731 CFP

3/2 1/8" NC comando pneumatico - ritorno a molla pneumatica

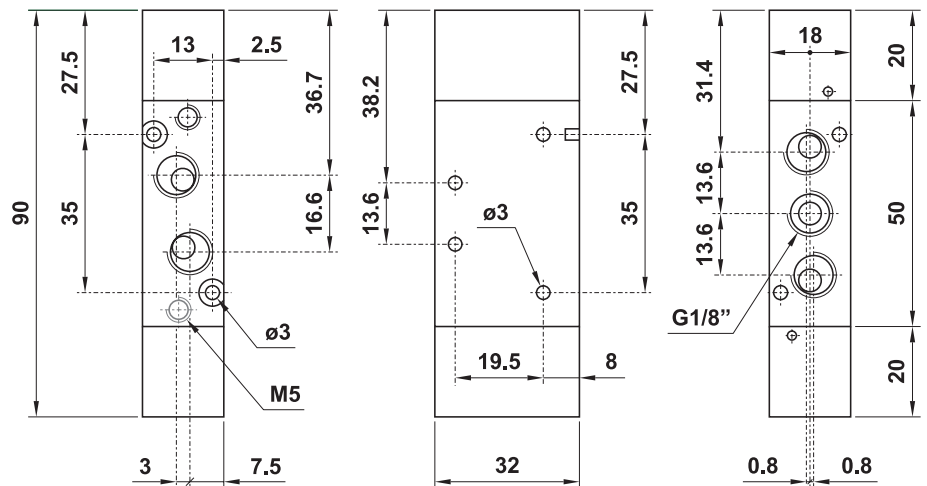
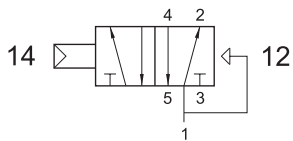
3/2 1/8" NC pneumatic pilot - pneumatic spring return



751 CFP

5/2 1/8" comando pneumatico - ritorno a molla pneumatica

5/2 1/8" pneumatic pilot - pneumatic spring return



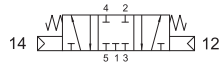
valvole 18 mm ad azionamento pneumatico

pneumatically piloted valves - 18 mm



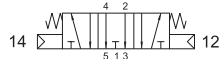
7513C CC

centri chiusi
closed centres



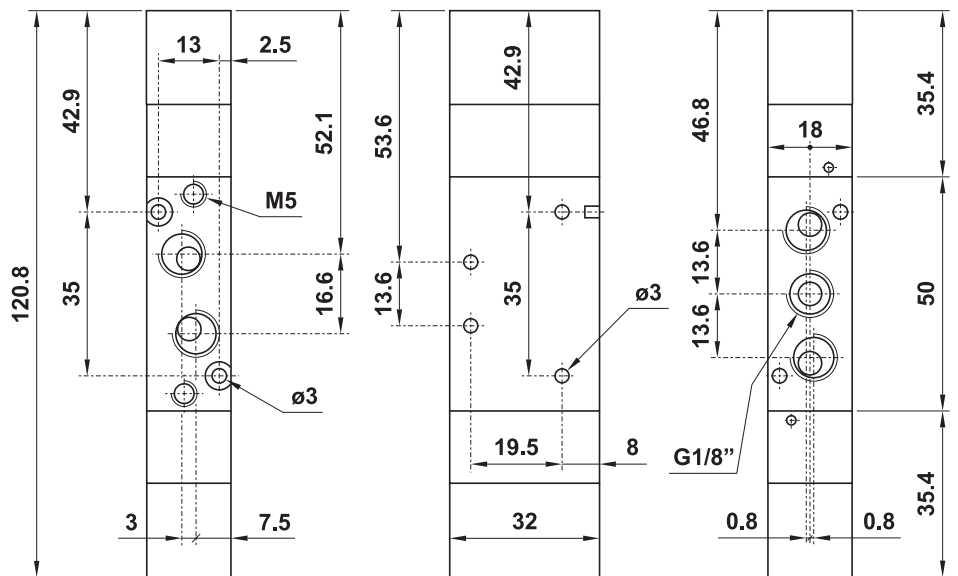
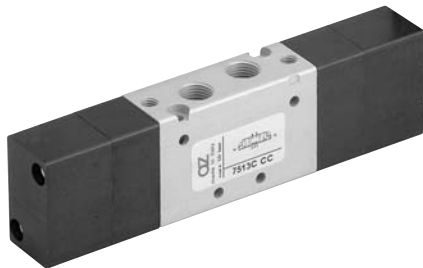
7513A CC

centri aperti
open centres



5/3 1/8" doppio comando pneumatico

5/3 1/8" double pneumatic pilot

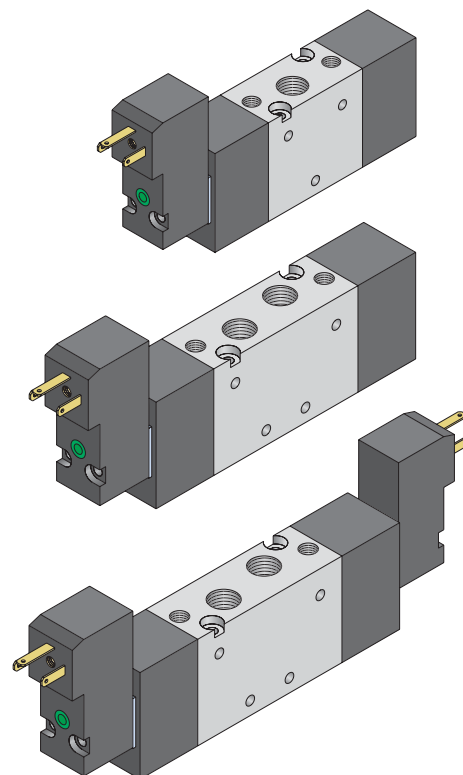


valvole 18 mm ad azion. elettropneumatico

solenoid actuated valves - 18 mm



- Valvole a spola 3/2-5/2-5/3 con attacchi filettati G1/8"
3/2-5/2-5/3 spool valves with G1/8" threaded ports
- Spessore della valvola: 18 mm
Valve thickness: 18 mm
- Montaggio in linea, su basi modulari o a posti fissi
Installation in-line, on multiple sub-bases or manifolds
- Azionamento elettropneumatico monostabile o bistabile
Mono-stable or bi-stable solenoid pilot
- Elettropilota 15 mm basso assorbimento (2W) a norma DIN 43650, forma C
15 mm low consumption solenoid pilot (2W), compliant to norm DIN 43650, C form
- Azionatore manuale monostabile sull'elettropilota
Non-detented manual override on the solenoid pilot



I prodotti di seguito indicati sono venduti con elettropilota/i montato/i (per i dati tecnici vedi pag. 102).
The following listed products are sold with mounted solenoid pilot(s); for technical data see page 102.

Tempi di risposta - *response times*

monostabile <i>mono-stable</i>	TRA (14): 13 ms TRR (12): 26 ms
bistabile <i>bi-stable</i>	TRA (14): 24 ms TRR (12): 24 ms

Materiali

Corpo: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Spola: alluminio nichelato
Parti interne: ottone OT58

Materials

*Body: aluminium 11S
Springs: stainless steel
Seals: NBR
Spool: nickel plated aluminium
Internal parts: brass OT58*

Diametro nominale <i>Nominal orifice</i>		4.5 mm	
Portata nominale a 6 bar, Δp 1 bar <i>Nominal flow rate at 6 bar, Δp 1 bar</i>		500 NI/min	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Pressione di esercizio <i>Working pressure</i>	al. interna monost. [<i>monost. internal air supply</i>]	al. interna bist. [<i>bi-stable internal air supply</i>]	alim. separata [<i>separate air supply</i>]
	3 ... 10 bar 0.3 ... 1 MPa	2 ... 10 bar 0.2 ... 1 MPa	max 10 bar max 1 MPa
Pressione di azionamento (per alimentazione separata) <i>Actuating pressure (for separate air supply)</i>	monostabile [<i>mono-stable</i>]		bistabile [<i>bi-stable</i>]
	3 ... 10 bar 0.3 ... 1 MPa		2 ... 10 bar 0.2 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>		

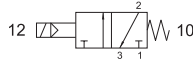
valvole 18 mm ad azion. elettropneumatico

solenoid actuated valves - 18 mm



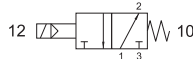
731 ME xx

normalmente chiusa
normally closed



731 MEA xx

normalmente aperta
normally open

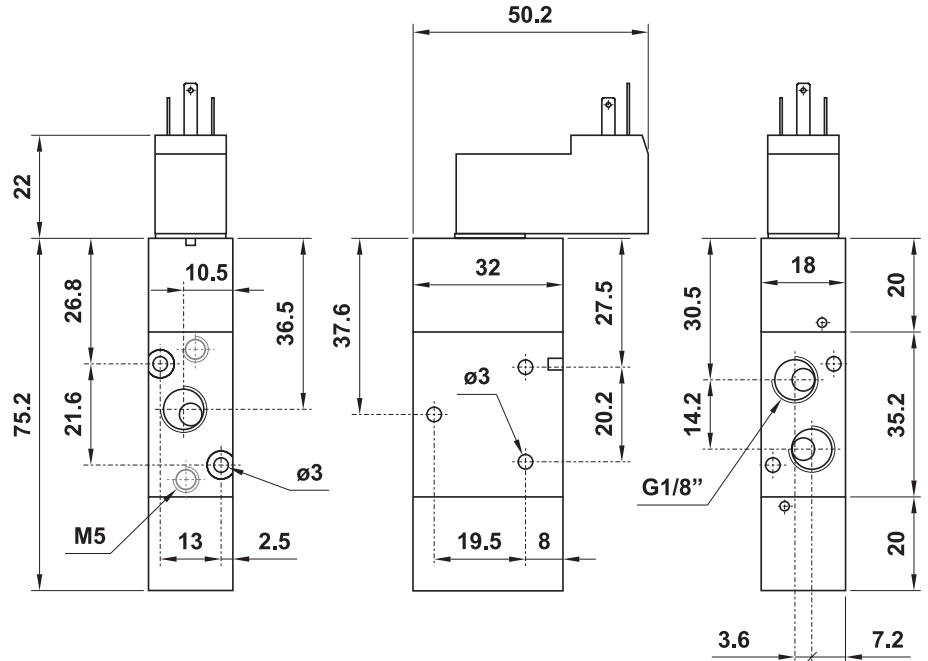
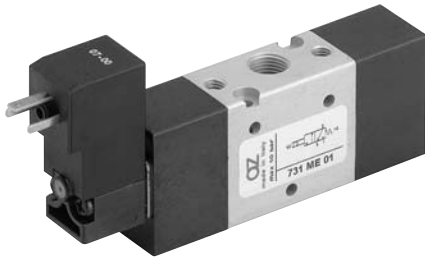


3/2 1/8" comando elettrico - ritorno a molla

3/2 1/8" solenoid pilot - spring return

Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

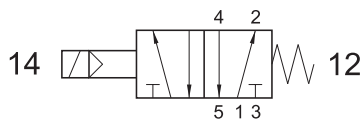
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



751 ME xx

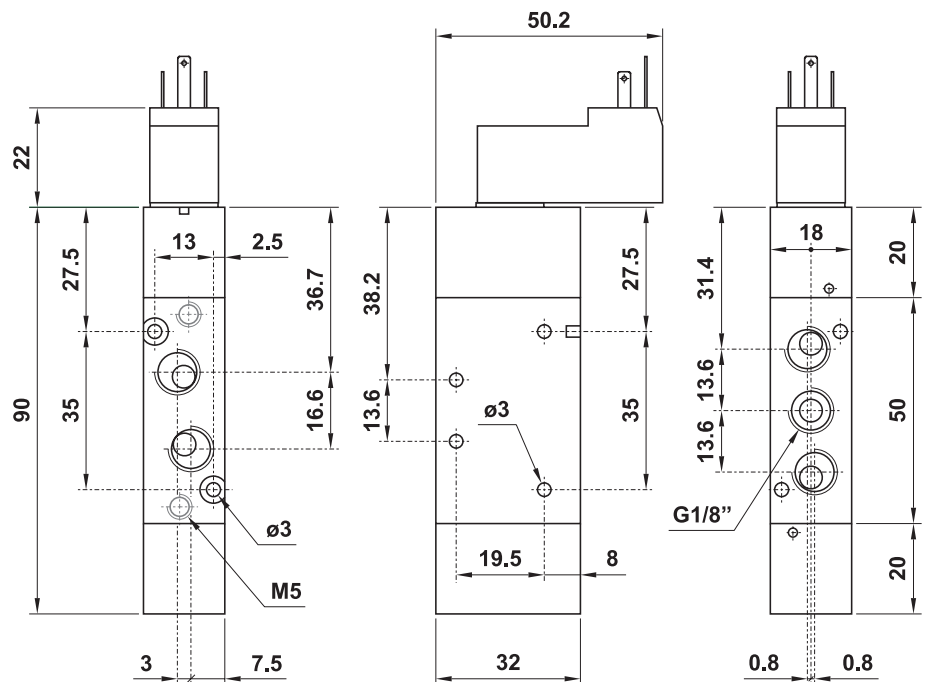
5/2 1/8" comando elettrico - ritorno a molla

5/2 1/8" solenoid pilot - spring return



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



valvole 18 mm ad azion. elettropneumatico

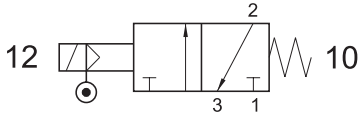
solenoid actuated valves - 18 mm



731 ME AS xx

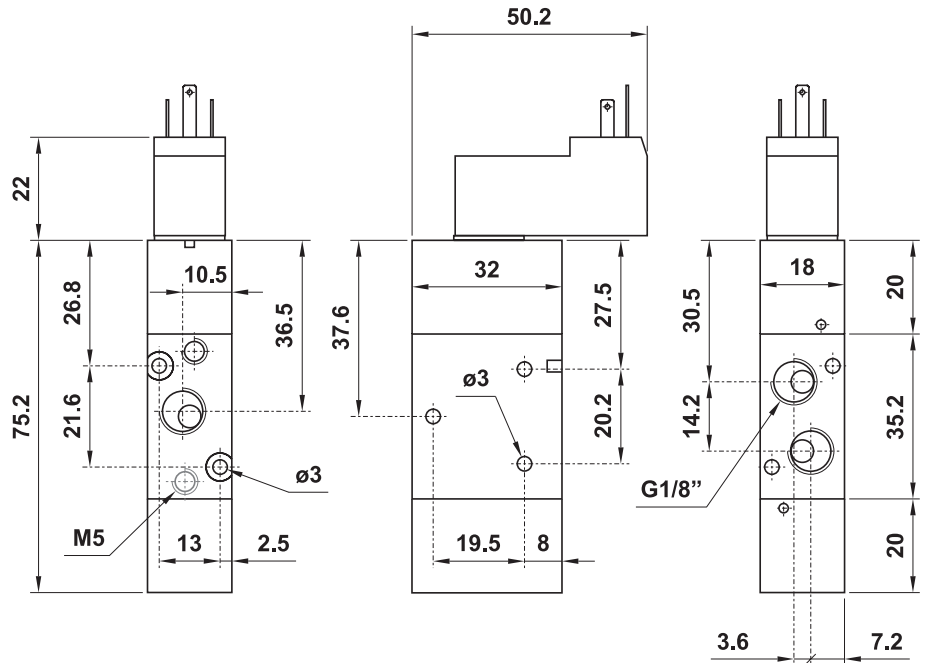
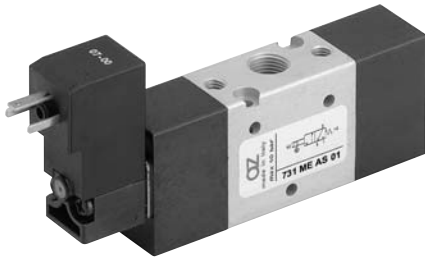
3/2 1/8" comando elettrico alimentazione separata - ritorno a molla

3/2 1/8" solenoid pilot with separate air supply - spring return



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

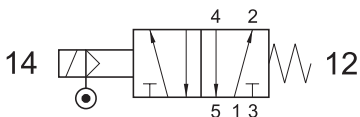
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



751 ME AS xx

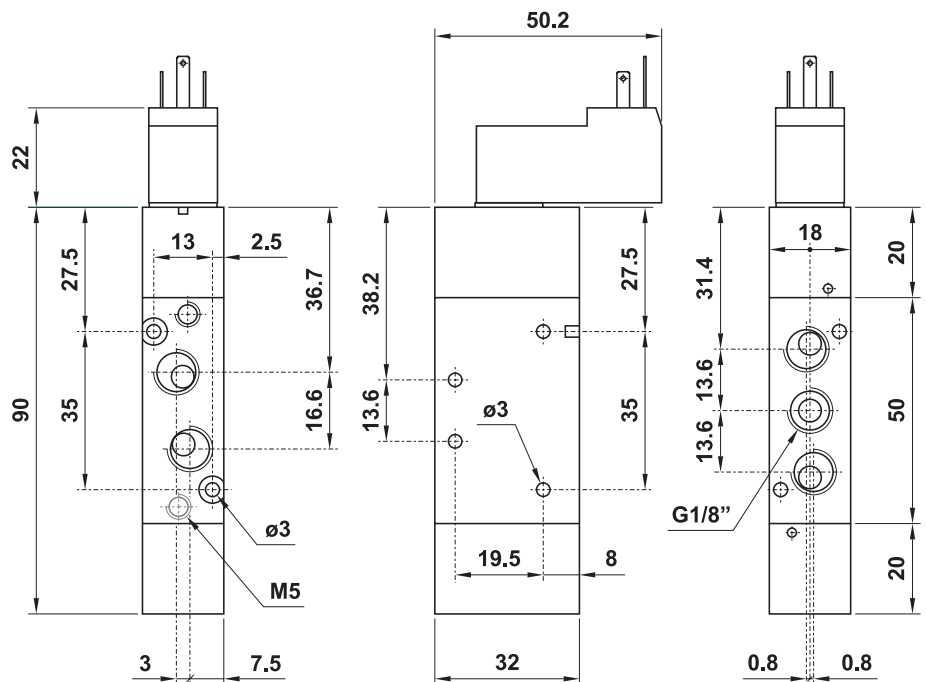
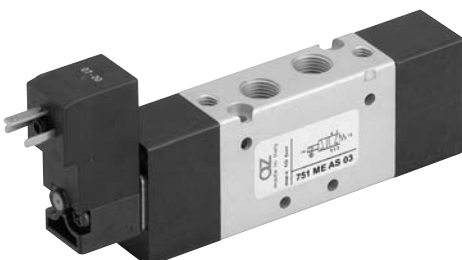
5/2 1/8" comando elettrico alimentazione separata - ritorno a molla

5/2 1/8" solenoid pilot with separate air supply - spring return



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



valvole 18 mm ad azion. elettropneumatico

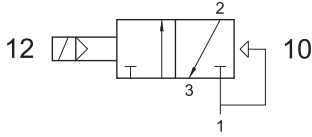
solenoid actuated valves - 18 mm



731 EFP xx

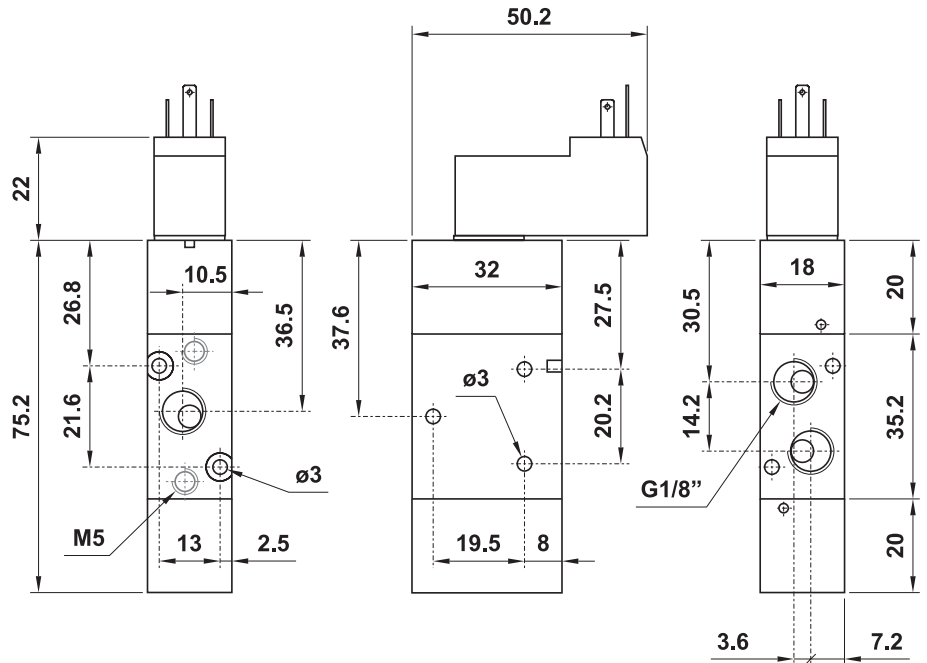
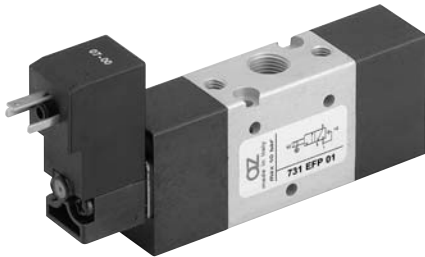
3/2 1/8" comando elettrico - ritorno a molla pneumatica

3/2 1/8" solenoid pilot - pneumatic spring return



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

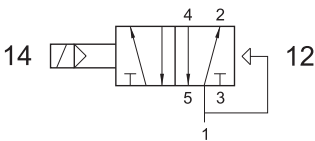
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



751 EFP xx

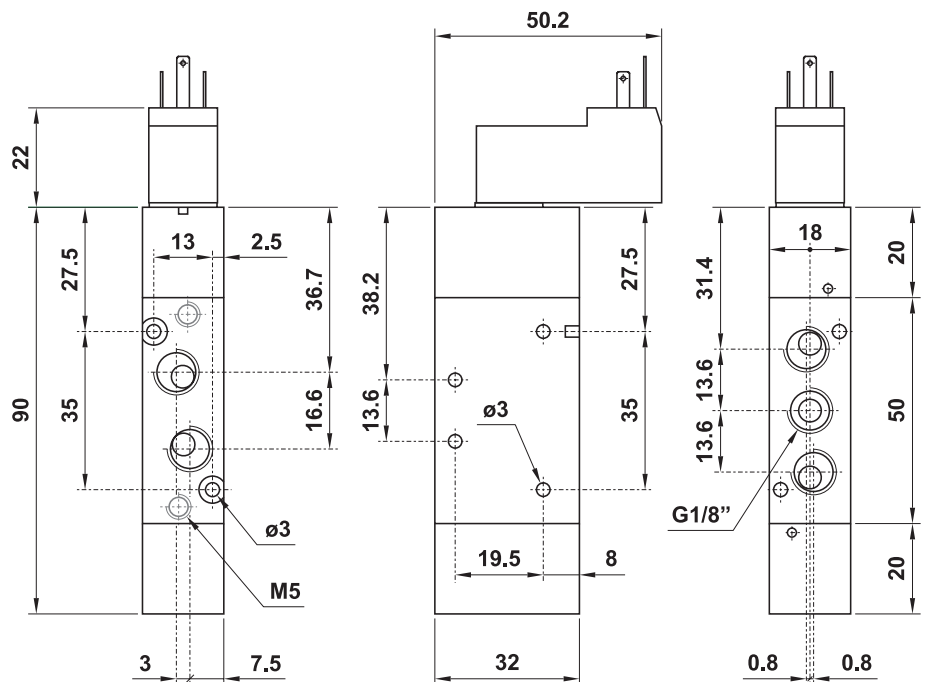
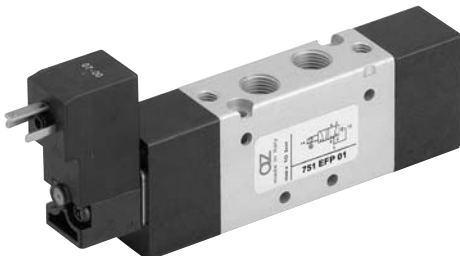
5/2 1/8" comando elettrico - ritorno a molla pneumatica

5/2 1/8" solenoid pilot - pneumatic spring return



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



valvole 18 mm ad azion. elettropneumatico

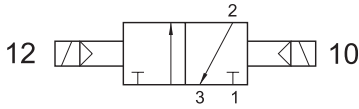
solenoid actuated valves - 18 mm



731 EE xx

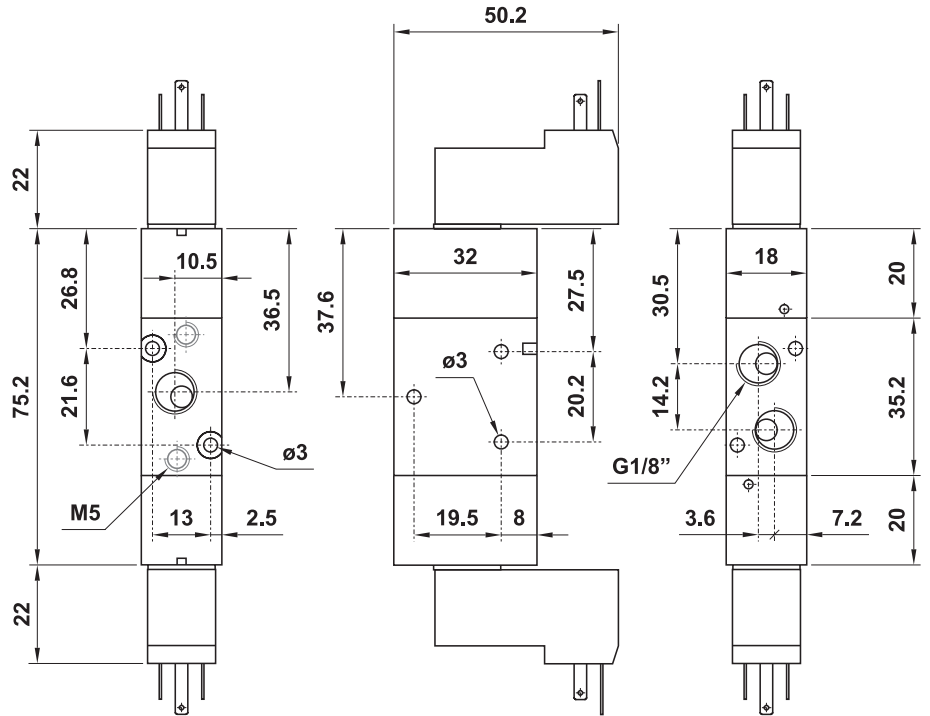
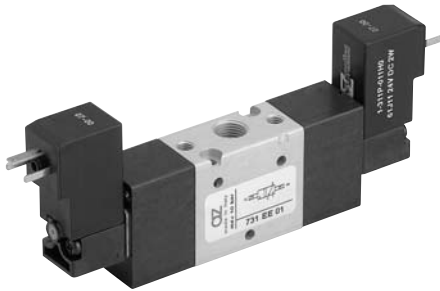
3/2 1/8" doppio comando elettrico

3/2 1/8" double solenoid pilot



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

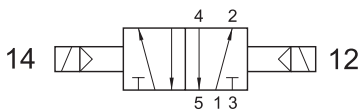
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



751 EE xx

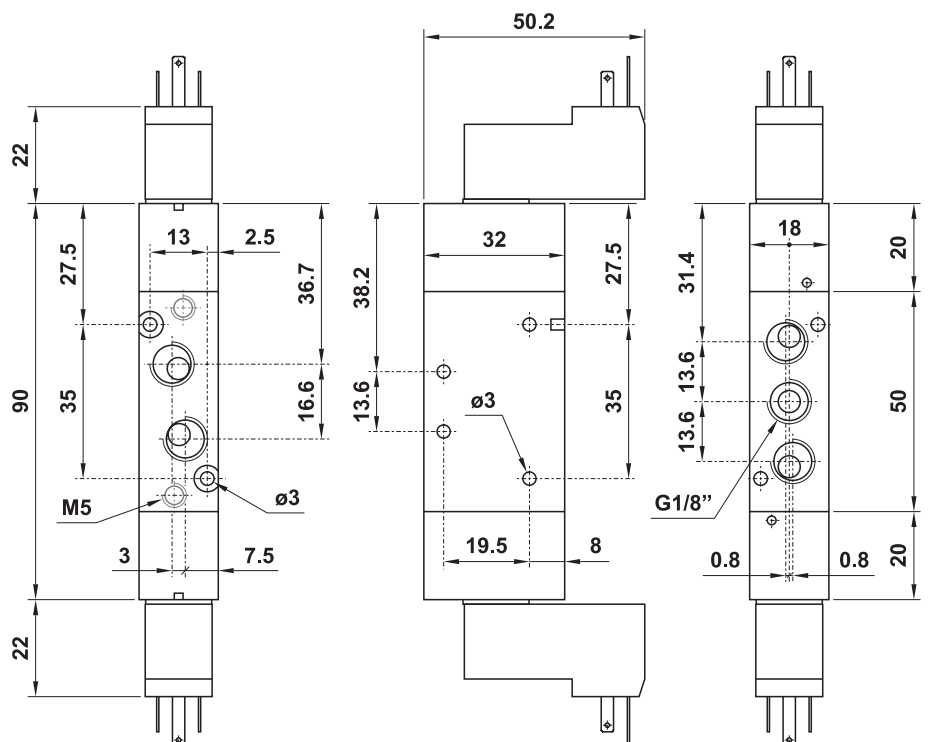
5/2 1/8" doppio comando elettrico

5/2 1/8" double solenoid pilot



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



valvole 18 mm ad azion. elettropneumatico

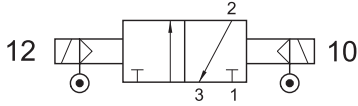
solenoid actuated valves - 18 mm



731 EE AS xx

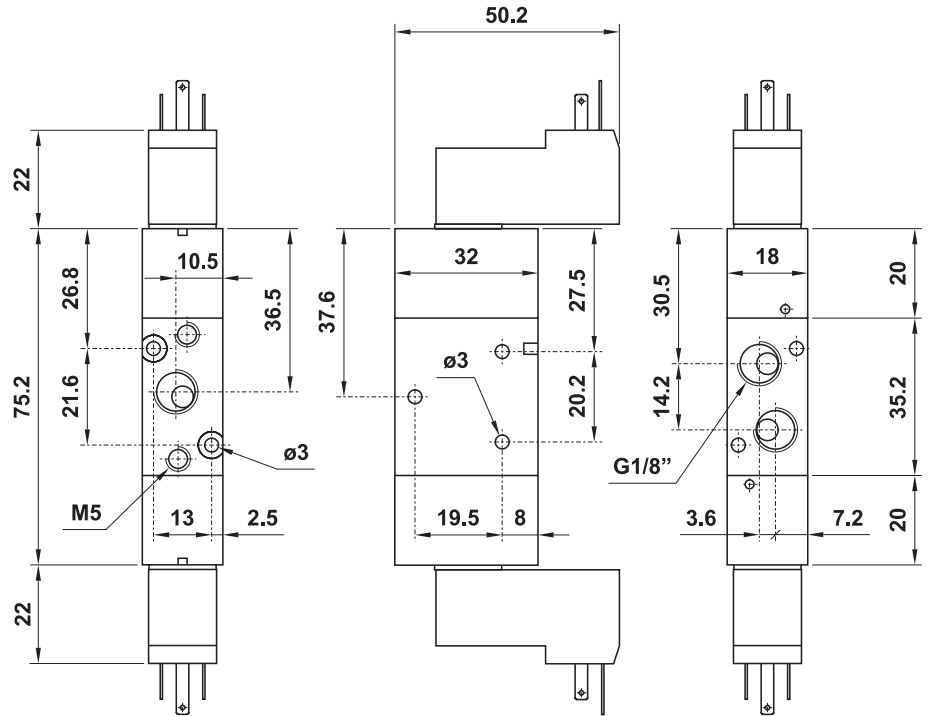
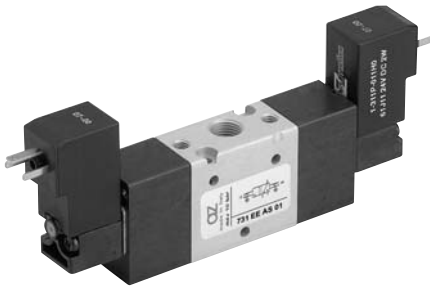
3/2 1/8" doppio comando elettrico alimentazione separata

3/2 1/8" double solenoid pilot with separate air supply



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

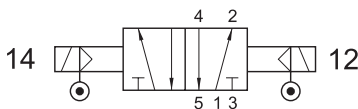
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



751 EE AS xx

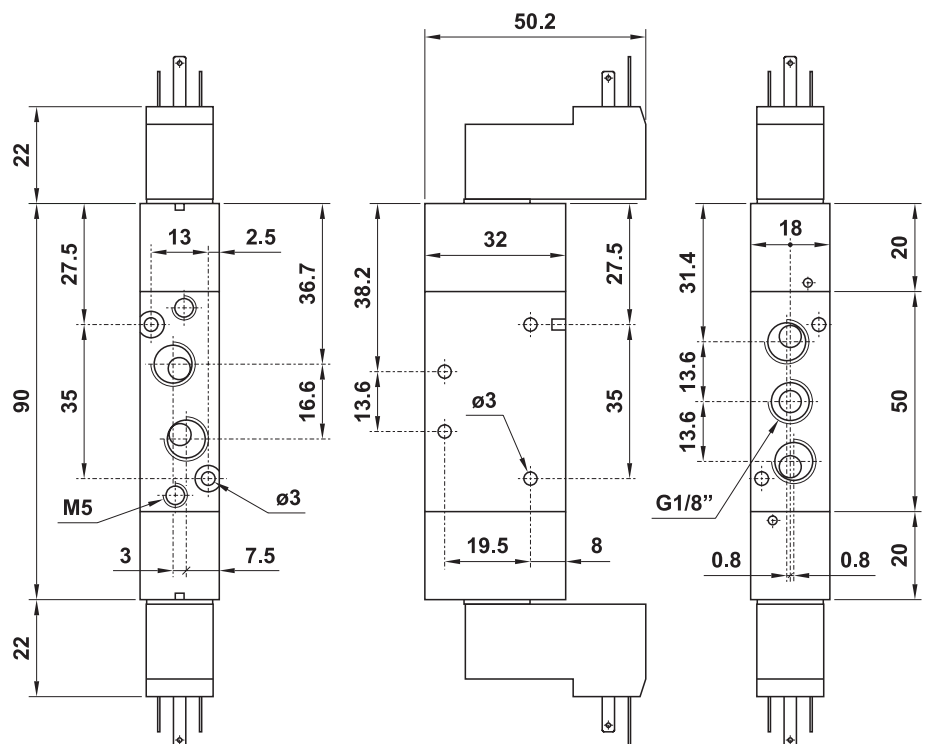
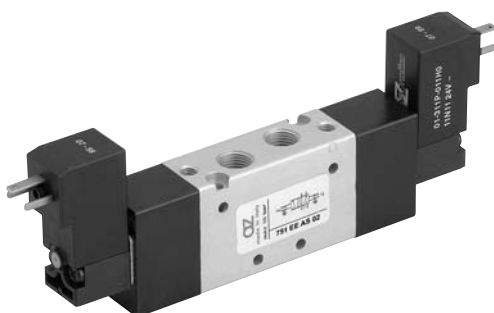
5/2 1/8" doppio comando elettrico alimentazione separata

5/2 1/8" double solenoid pilot with separate air supply



Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04

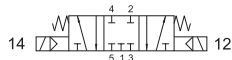


valvole 18 mm ad azion. elettropneumatico

solenoid actuated valves - 18 mm



7513C EE xx centri chiusi
closed centres



7513A EE xx centri aperti
open centres



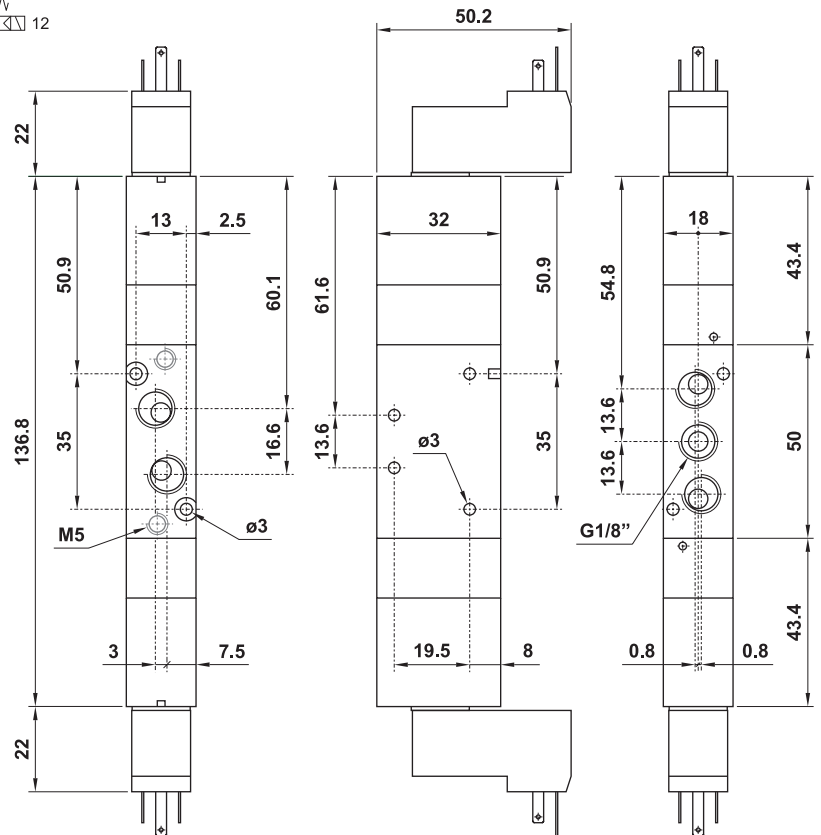
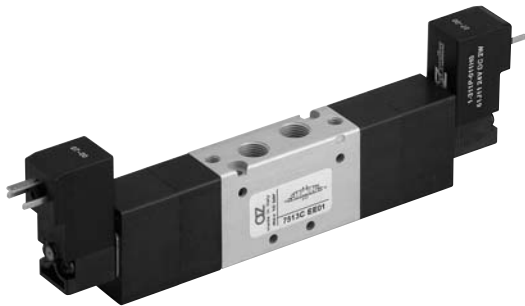
5/3 1/8" doppio comando elettrico

5/3 1/8" double solenoid pilot

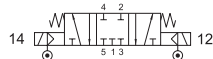
Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.

In the part number replace "xx" with the reference of the solenoid tension.

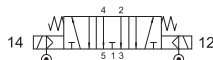
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



7513C EE AS xx centri chiusi
closed centres



7513A EE AS xx centri aperti
open centres



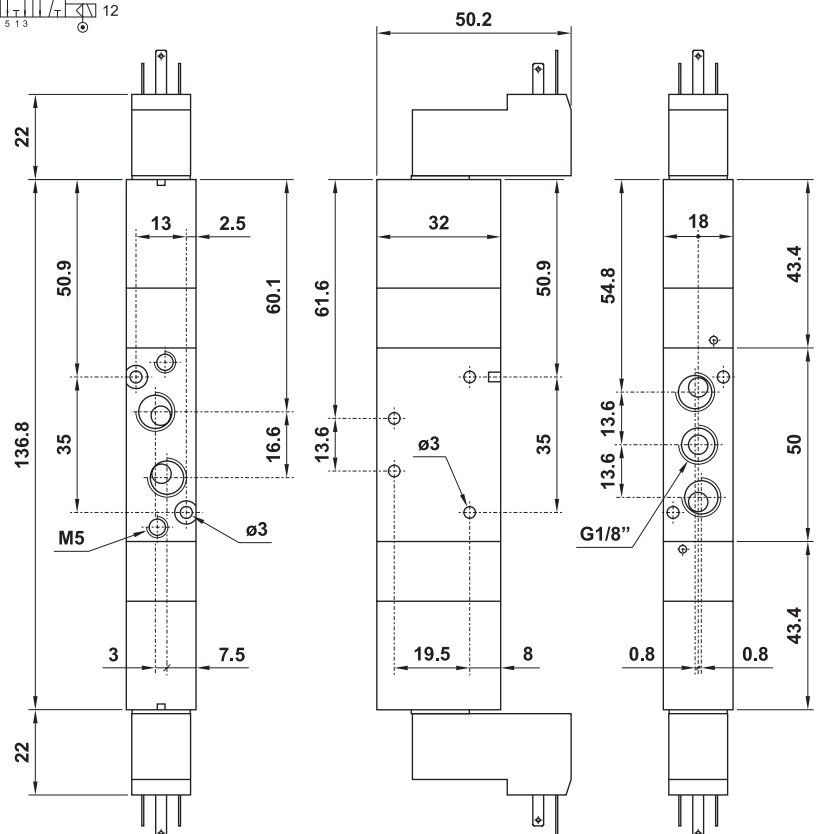
5/3 doppio comando elettrico alimentazione separata

5/3 double solenoid pilot with separate air supply

Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.

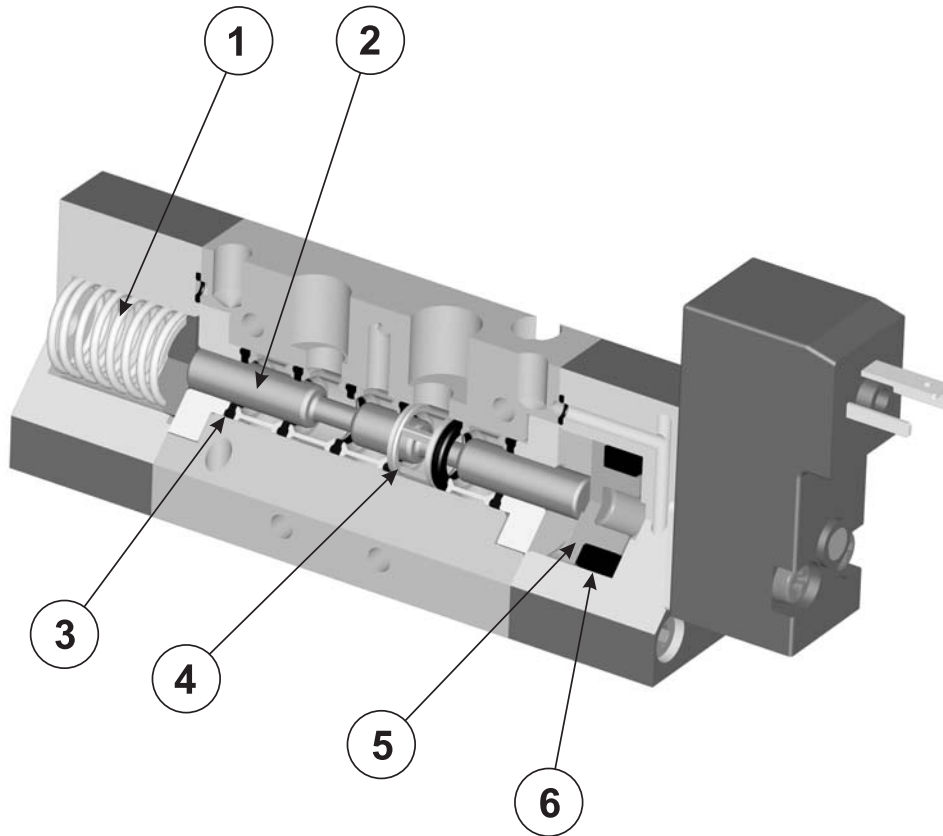
In the part number replace "xx" with the reference of the solenoid tension.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



ricambi per valvole a spola 18 mm

spare parts for 18 mm spool valves



1. Molla: acciaio [spring: steel]
2. Spola: alluminio nichelato [spool: nickel plated aluminium]
3. Guarnizione cassetto: NBR [seal for spool: NBR]
4. Distanziale cassetto: ottone [brass]
5. Pistone per comando spola: delrin [piston to actuate the spool: delrin]
6. Guarnizione DE per pistone: NBR [seal DE for piston: NBR]

codice kit code of kit	utilizzabile per suitable for		
05.057.2	731 MC	731 MCA	731 ME
	731 MEA	731 ME AS	
05.058.2	731 CC	731 EE	731 EE AS
05.059.2	731 CCD	731 CFP	731 EFP
05.053.2	751 MC	751 ME	751 ME AS
05.054.2	751 CC	751 EE	751 EE AS
05.056.2	751 CCD	751 CFP	751 EFP
05.055.2	7513C CC	7513A CC	7513C EE
	7513A EE	7513C EE AS	7513A EE AS

sottobasi modulari per valvole 18 mm

multiple sub-bases for 18 mm spool valves



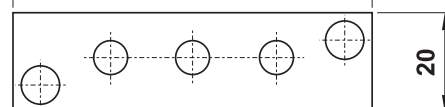
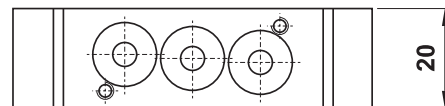
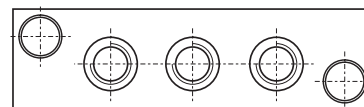
sottobase sub-base

CODICE DI ORDINAZIONE
ORDER CODE

BM751



È venduta in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.



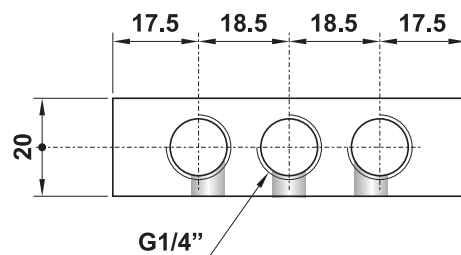
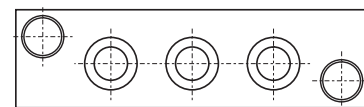
intermedio intermediate header

CODICE DI ORDINAZIONE
ORDER CODE

DR751



È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.



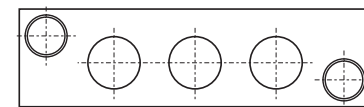
diaframma blanking piece

CODICE DI ORDINAZIONE
ORDER CODE

DC751



È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.



sottobasi modulari per valvole 18 mm

multiple sub-bases for 18 mm spool valves



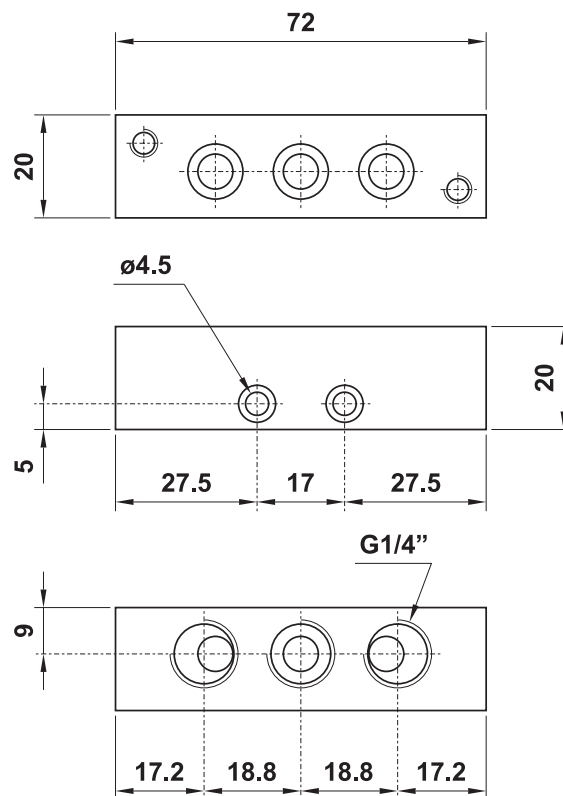
terminale sinistro left hand header

CODICE DI ORDINAZIONE
ORDER CODE

TS751



È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.



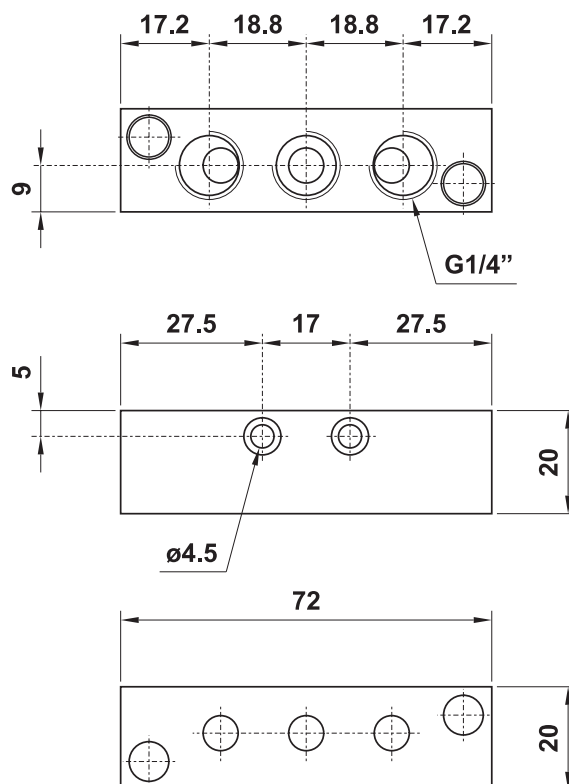
terminale destro right hand header

CODICE DI ORDINAZIONE
ORDER CODE

TD751



È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.



sottobasi modulari per valvole 18 mm

multiple sub-bases for 18 mm spool valves

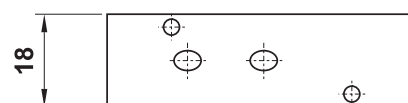
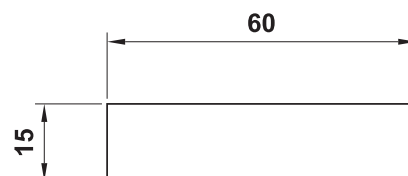
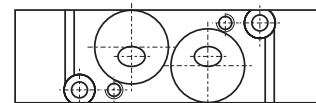


adattatore 3-5 vie

3-5 way adaptor

CODICE DI ORDINAZIONE
ORDER CODE

DD751



Per montare una valvola a 3 vie su una base per valvole a 5 vie è necessario interporre questo adattatore tra la base e la valvola.

To install a three way valve on a sub-base for five way valves it is necessary to mount this adaptor between the valve and the sub-base.

È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

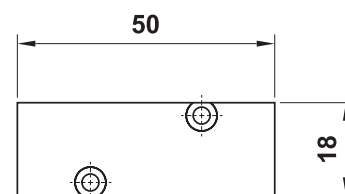
piastrina di chiusura

blanking plate

CODICE DI ORDINAZIONE
ORDER CODE

CS731

3 vie
ways



È venduta in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

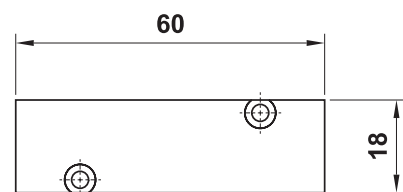
piastrina di chiusura

blanking plate

CODICE DI ORDINAZIONE
ORDER CODE

CS751

5 vie
ways



È venduta in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

accessori per sottob. modulari valvole 18 mm

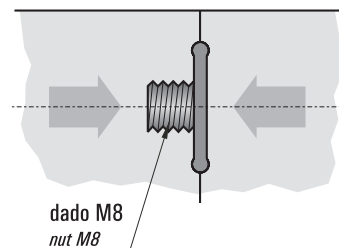
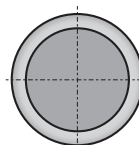
accessories for multiple sub-bases for 18 mm spool valves



guarnizione diaframma diaphragm gasket

CODICE DI ORDINAZIONE
ORDER CODE

DF851



Da inserirsi tra due sottobasi modulari per bloccare il flusso d'aria e dividere una batteria di valvole in zone alimentabili a pressioni diverse.

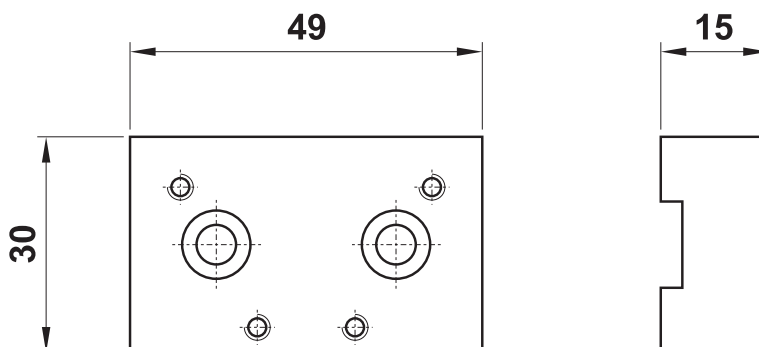
To be inserted between two sub-bases to stop the air flow and divide the manifold into separate zones.

adattatore per cilindro ISO 6431

interface for cylinder ISO 6431

CODICE DI ORDINAZIONE
ORDER CODE

05.035.2



È utilizzabile per l'installazione di una valvola della serie 751 su un cilindro ISO 6431 dall'alesaggio 32 all'alesaggio 100. Ogni pezzo è venduto con tutti i particolari necessari al suo assemblaggio.

It can be used to install a valve 751 on a cylinder ISO 6431 from bore 32 to bore 100. It is sold with all necessary pieces for installation.

Per l'installazione sul cilindro è necessario innanzi tutto smontare una delle due testate.

For the installation on the cylinder it is necessary to remove one end cap.

sottobasi a posti fissi per valvole 18 mm

manifolds for 18 mm spool valves



Le sottobasi a posti fissi sono disponibili nella versione per valvole a 3 o a 5 vie. Sulle sottobasi per valvole a 5 vie possono essere montate le valvole a 3 vie con l'ausilio dell'adattatore DD751.

Ogni sottobase è venduta con i particolari necessari per il fissaggio delle valvole. Eventuali posizioni non utilizzate possono essere tappate con la piastrina di chiusura.

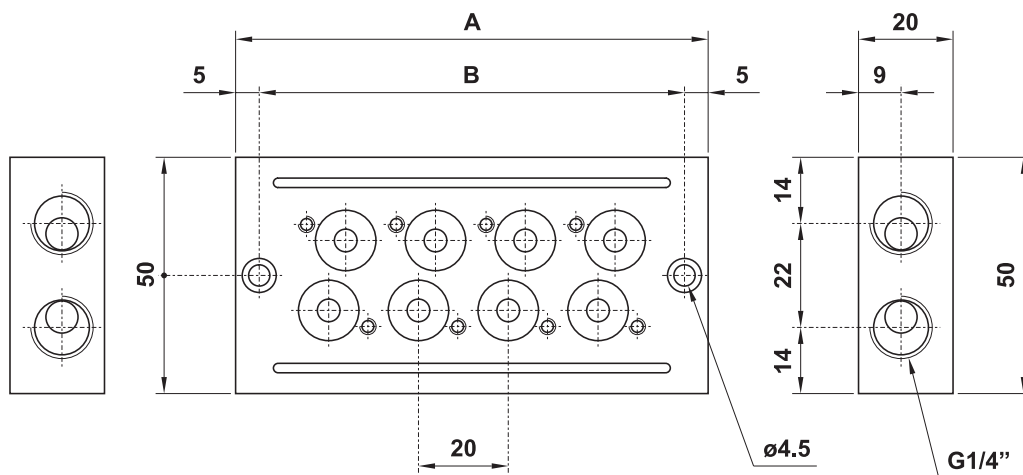
These manifolds are available in the version for three way valves and in the version for five way valves. On manifolds for five way valves it is possible to install three way valves using the adaptor DD751.

Each manifold is sold with all necessary pieces for installation. Unused stations can be closed with a blanking plate.



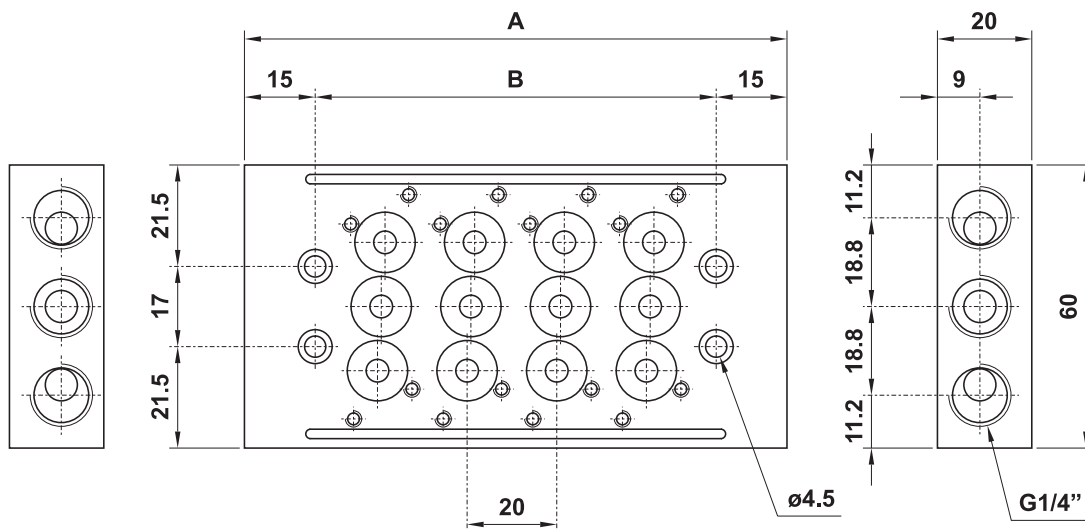
3 vie
ways

modello model	nr. posizioni no. stations	A	B
05.012.2	2	63	53
05.013.2	3	83	73
05.014.2	4	103	93
05.015.2	5	123	113
05.016.2	6	143	133
05.017.2	7	163	153
05.018.2	8	183	173
05.019.2	9	203	193
05.020.2	10	223	213
05.039.2	11	243	233
05.036.2	12	263	253



5 vie
ways

modello model	nr. posizioni no. stations	A	B
05.002.2	2	80	50
05.003.2	3	100	70
05.004.2	4	120	90
05.005.2	5	140	110
05.006.2	6	160	130
05.007.2	7	180	150
05.008.2	8	200	170
05.009.2	9	220	190
05.010.2	10	240	210
05.037.2	11	260	230
05.001.2	12	280	250



adattatore per profilo omega

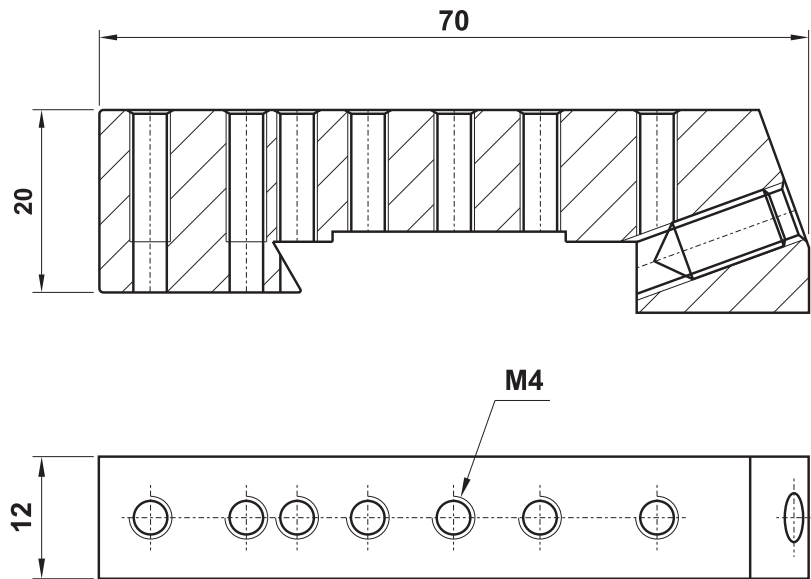
interface for omega-profile



adattatore per profilo omega interface for omega-profile

CODICE DI ORDINAZIONE
ORDER CODE

00.109.2



È utilizzabile per l'installazione di una sottobase a posti fissi per valvole della serie 751, 731, 521, 522, 851 su una barra a profilo Ω (omega).

Per il fissaggio è necessario utilizzare le viti (non incluse nel kit) qui indicate:

- sottobasi posti fissi e modulari per valvole 851: n. 2 viti a brugola zincate bianche M4x40
- sottobasi posti fissi e modulari per valvole 751 e 731: n. 2 viti a brugola zincate bianche M4x20
- sottobasi posti fissi per valvole 521: n. 2 viti a brugola zincate bianche M4x25
- sottobasi posti fissi per valvole 522: n. 2 viti a brugola zincate bianche M4x30

It can be used to install a manifold for valves 751, 731, 521, 522, 851 on a profile Ω (omega).

For installation use the following screws (screws are not supplied with the kit):

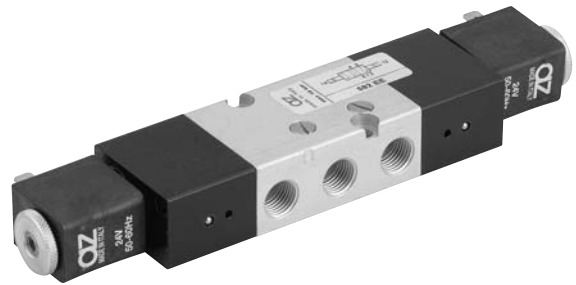
- manifolds and multiple sub-bases for valves 851: n. 2 screws M4x40
- manifolds and multiple sub-bases for valves 751 and 731: n. 2 screws M4x20
- manifolds for valves 521: n. 2 screws M4x25
- manifolds for valves 522: n. 2 screws M4x30

valvole Namur

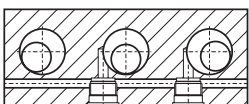
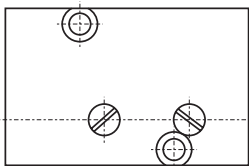
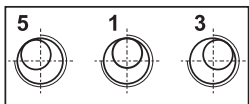
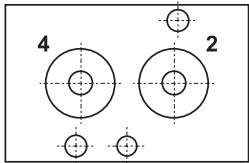
Namur valves



La funzione della valvola può essere variata in qualsiasi momento, secondo lo schema qui riportato, cambiando di posto la guarnizione collocata sotto a uno dei due tappi avvitati nel corpo.
 The function of the valve can be changed by repositioning the seal situated under one of the two plugs.



5 VIE - 5 WAYS

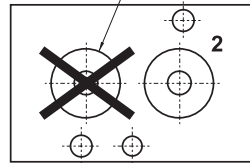


tappo senza guarnizione
plug without seal

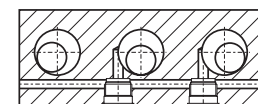
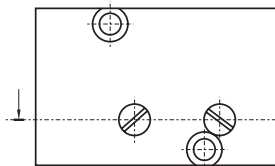
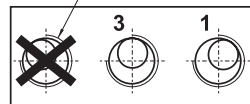
tappo con guarnizione
plug with seal

3 VIE - 3 WAYS

non utilizzato
unused



non utilizzato
unused



tappo con guarnizione
plug with seal

tappo senza guarnizione
plug without seal

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: alluminio nichelato

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

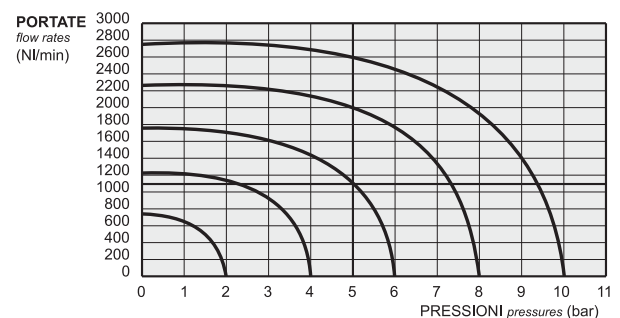
Seals: NBR

Spool: nickel plated aluminium

Internal parts: brass OT58

I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 177-178).

The following listed products are sold without coils, which are bought separately (refer to page 177-178).



Kit ricambi - spare parts

01.065.2 : per valvole [for valves] 382 MC, 382 ME, 582 MC, 582 ME

01.066.2 : per valvole [for valves] 382 CC, 382 EE, 582 CC, 582 EE

Diametro nominale Nominal orifice		7.5 mm		
Attacchi Ports		G1/4"		
Temperatura di esercizio Temperature range		max +60°C		
Pressione di esercizio Working pressure	el. monost. [electr. monost.]	el. bistabile [electr. bi-stable]	pn. monost. [pneum. monost.]	pn. bistabile [pneum. bist.]
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa	0 ... 10 bar 0 ... 1 MPa	0 ... 10 bar 0 ... 1 MPa
Pressione di comando Actuating pressure			pn. monost. [pneum. monost.]	pn. bistabile [pneum. bist.]
			2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa
Fluido Fluid		Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air		

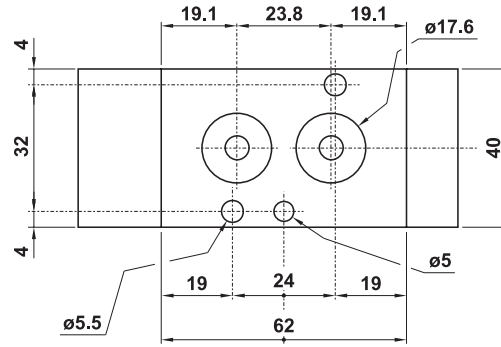
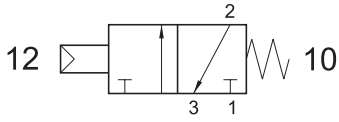
valvole Namur

Namur valves



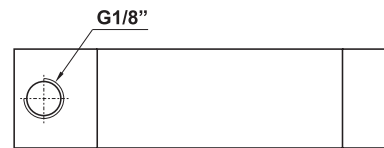
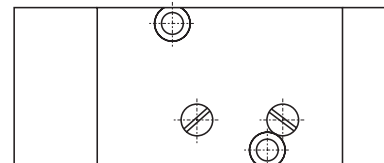
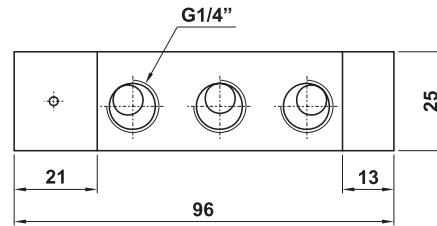
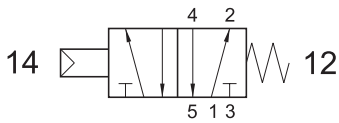
382 MC

3/2 NC comando pneumatico - ritorno a molla
3/2 NC pneumatic pilot - spring return



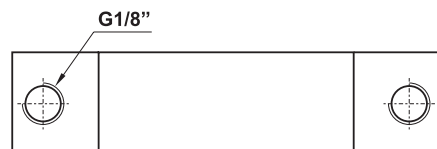
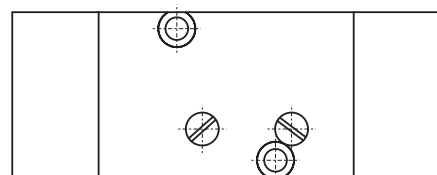
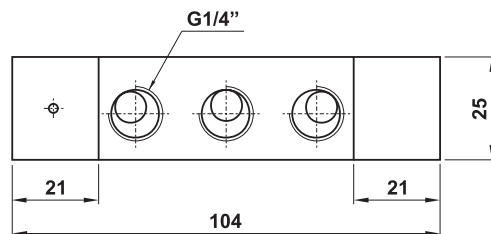
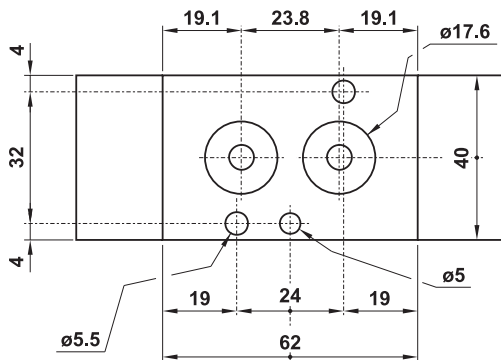
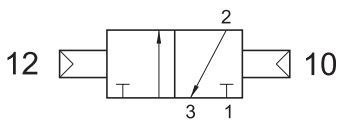
582 MC

5/2 comando pneumatico - ritorno a molla
5/2 pneumatic pilot - spring return



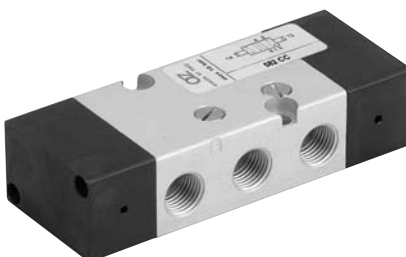
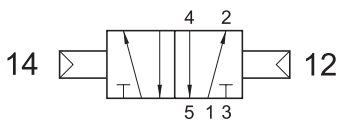
382 CC

3/2 doppio comando pneumatico
3/2 double pneumatic pilot



582 CC

5/2 doppio comando pneumatico
5/2 double pneumatic pilot



valvole Namur

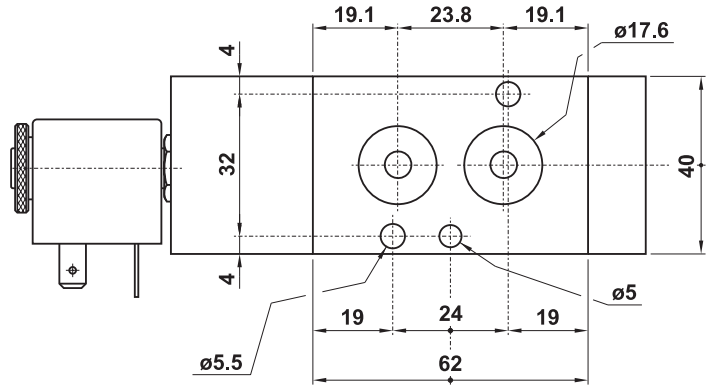
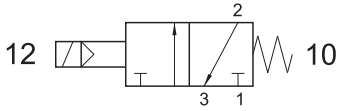
Namur valves



382 ME

3/2 NC comando elettrico - ritorno a molla

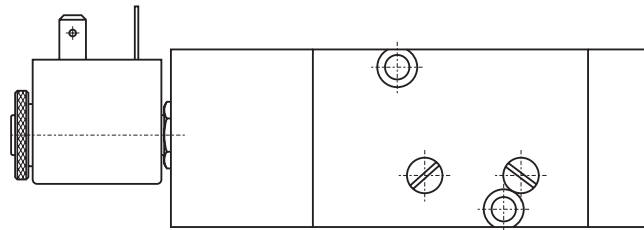
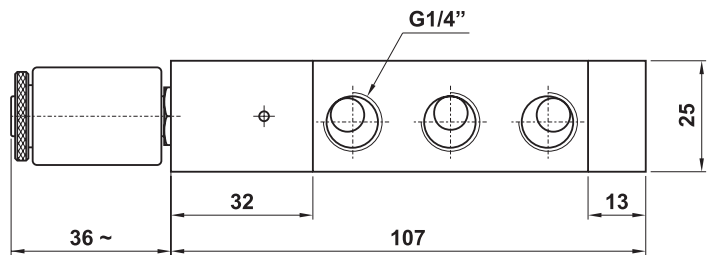
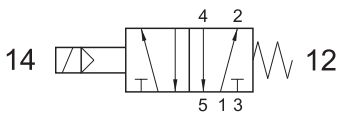
3/2 NC solenoid pilot - spring return



582 ME

5/2 comando elettrico - ritorno a molla

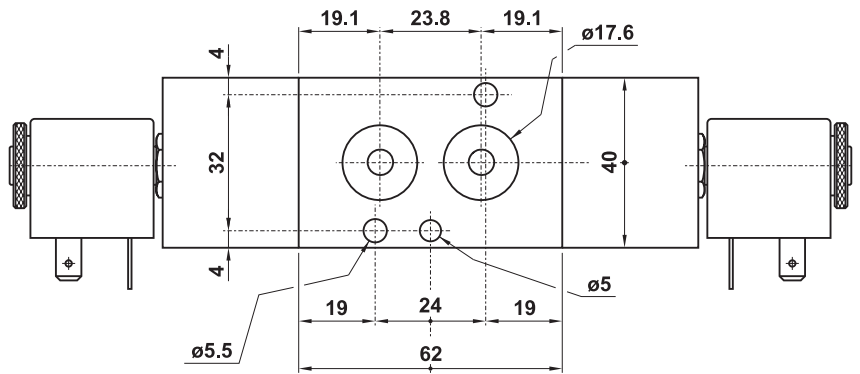
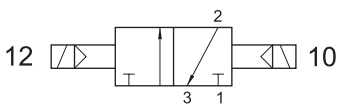
5/2 solenoid pilot - spring return



382 EE

3/2 doppio comando elettrico

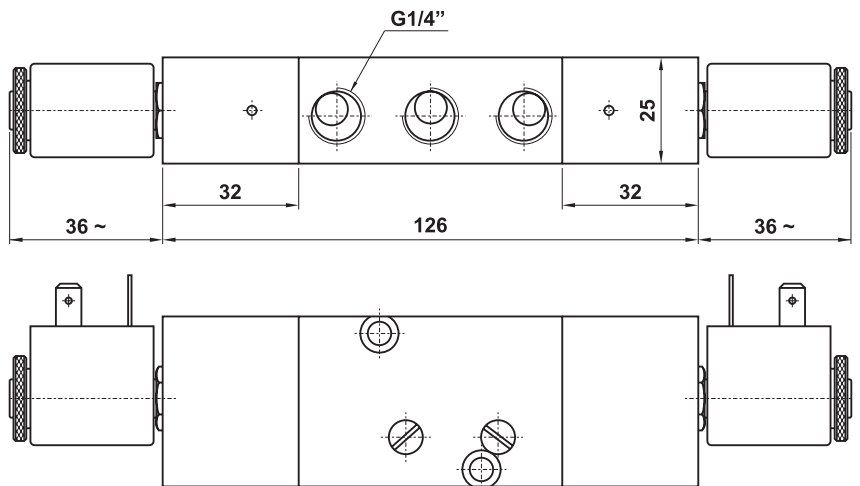
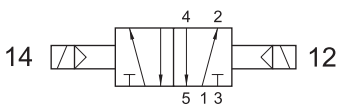
3/2 double solenoid pilot



582 EE

5/2 doppio comando elettrico

5/2 double solenoid pilot



bobine e connettori 22 mm

22 mm coils and connectors



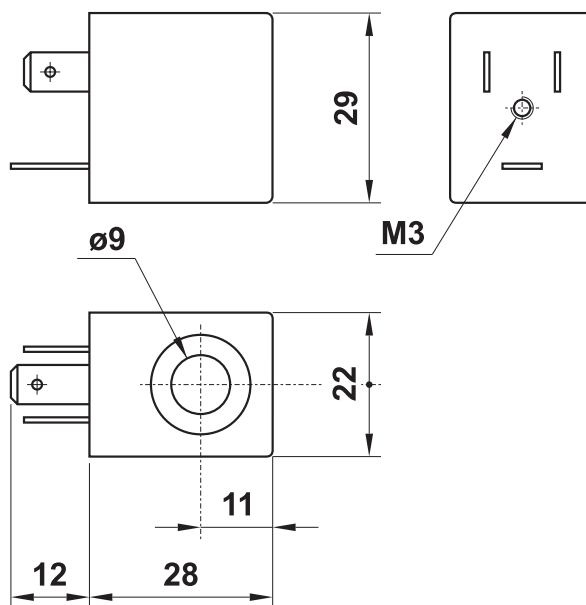
22 mm



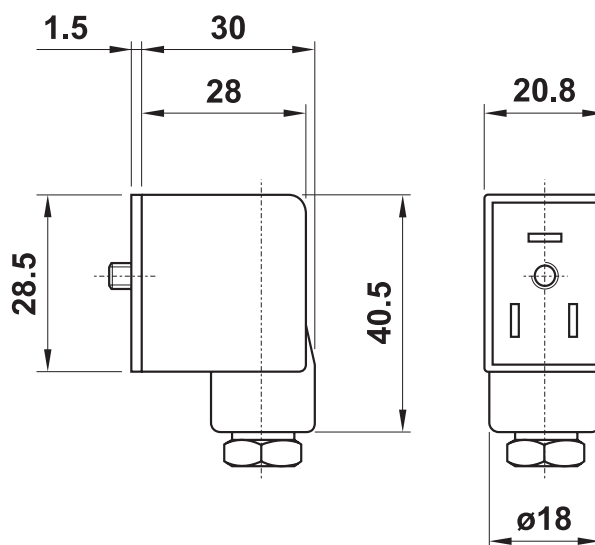
temperatura max di esercizio	+50°C	<i>max working temperature</i>
inserimento	ED 100%	<i>duty cycle</i>
protezione con connettore correttamente montato	IP 65	<i>protection with connector correctly mounted</i>
tolleranza di tensione	±10%	<i>tension tolerance</i>

- a richiesta basso assorbimento 1.5W
low consumption (1.5W) on request

codice <i>code</i>	tensione <i>tension</i>	consumo - power	
		a regime <i>rated</i>	di spunto <i>inrush</i>
00.167.0	12V DC	3W	
00.028.0	24V DC	3W	
00.029.0	24V 50/60Hz	5VA	7.5VA
00.030.0	110V 50/60Hz	5VA	7.5VA
00.031.0	220V 50/60Hz	5VA	7.5VA



codice <i>code</i>	colore <i>colour</i>	cavo <i>cable</i>	tipo <i>type</i>
00.197.0	nero <i>black</i>	PG09	normale <i>standard</i>
00.344.0	trasparente <i>transparent</i>	PG09	con LED 24V <i>with LED 24V</i>
00.345.0	trasparente <i>transparent</i>	PG09	con LED 24V e VDR <i>with LED 24V and VDR</i>
00.346.0	trasparente <i>transparent</i>	PG09	con LED 115V <i>with LED 115V</i>
00.347.0	trasparente <i>transparent</i>	PG09	con LED 115V e VDR <i>with LED 115V and VDR</i>
00.394.0	trasparente <i>transparent</i>	PG09	con LED 230V <i>with LED 230V</i>
00.395.0	trasparente <i>transparent</i>	PG09	con LED 230V e VDR <i>with LED 230V and VDR</i>



PEZZI DI RICAMBIO - spare parts
canotto per elettropilota
armature for solenoid pilot

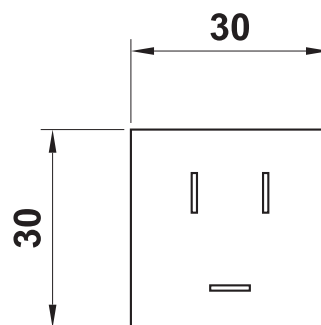
NC : 00.088.0
NA (NO) : 00.306.0

bobine e connettori 30 mm

30 mm coils and connectors

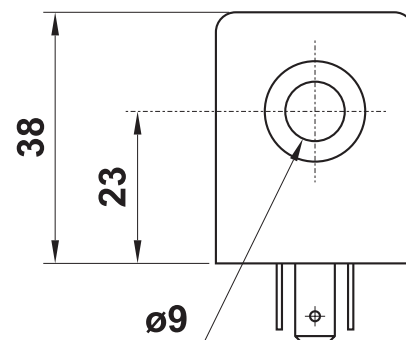


30 mm



temperatura max di esercizio	+50°C	max working temperature
inserimento	ED 100%	duty cycle
protezione con connettore correttamente montato	IP 65	protection with connector correctly mounted
tolleranza di tensione	±10%	tension tolerance

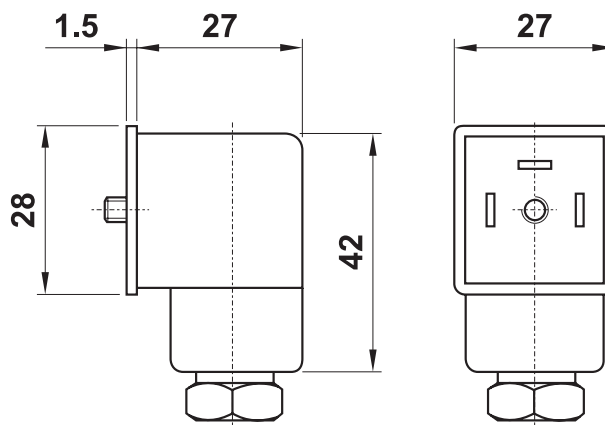
codice code	tensione tension	consumo - power	
		a regime rated	di spunto inrush
00.258.0	24V DC	2W	
00.259.0	24V 50/60Hz	5VA	9VA
00.260.0	110V 50/60Hz	5VA	9VA
00.261.0	220V 50/60Hz	5VA	9VA

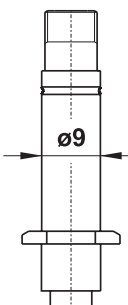


Per montare questo tipo di bobine sulle valvole Namur occorre acquistare il distanziale **01.055.2** che deve essere montato sotto la valvola, in modo da alzarla creando lo spazio necessario alla bobina da 30 mm.

The adaptor kit **01.055.2** is necessary to assemble this coil on Namur valves.

codice code	colore colour	cavo cable	tipo type
00.251.0	nero black	PG09	normale standard
00.348.0	trasparente transparent	PG09	con LED 24V with LED 24V
00.349.0	trasparente transparent	PG09	con LED 24V e VDR with LED 24V and VDR
00.350.0	trasparente transparent	PG09	con LED 115V with LED 115V
00.351.0	trasparente transparent	PG09	con LED 115V e VDR with LED 115V and VDR
00.396.0	trasparente transparent	PG09	con LED 230V with LED 230V
00.397.0	trasparente transparent	PG09	con LED 230V e VDR with LED 230V and VDR





PEZZI DI RICAMBIO - spare parts
canotto per elettropilota
armature for solenoid pilot

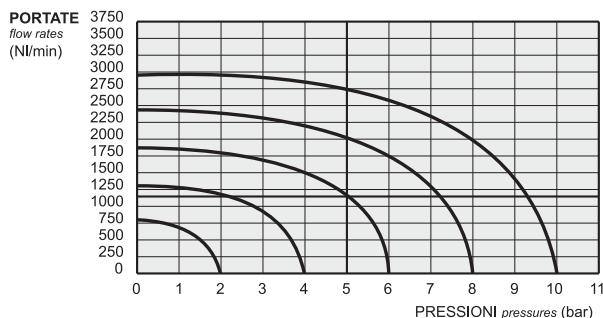
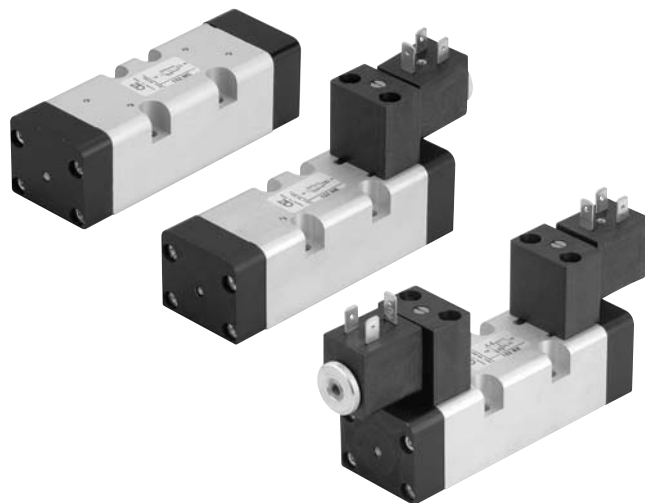
NC : 00.088.0
NA (NO) : 00.306.0

valvole ISO 5599/1 taglia 1

ISO 5599/1 valves - size 1



- Valvole a spola 5/2-5/3
5/2-5/3 spool valves
- Montaggio su basi modulari o a posti fissi
Installation on manifolds or multiple sub-bases
- Azionatore manuale bistabile sull'elettropilota
Detented manual override on the solenoid pilot
- Riarmo manuale della valvola
Manual reset



I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 184-185).
The following listed products are sold without coils, which are bought separately (refer to page 184-185).

Tempi di risposta - response times

	az. pneumatico <i>pneumatic pilot</i>	az. elettrico <i>solenoid pilot</i>
monostabile <i>mono-stable</i>	TRA (14): 12 ms TRR (12): 30 ms	TRA (14): 24 ms TRR (12): 50 ms
bistabile <i>bi-stable</i>	TRA (14): 20 ms TRR (12): 20 ms	TRA (14): 80 ms TRR (12): 80 ms

Materiali

Corpo: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Spola: alluminio nichelato
Parti interne: ottone OT58

Materials

*Body: aluminium 11S
Springs: stainless steel
Seals: NBR
Spool: nickel plated aluminium
Internal parts: brass OT58*

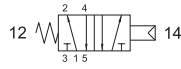
Diametro nominale <i>Nominal orifice</i>	7.5 mm		
Temperatura di esercizio <i>Temperature range</i>	max +60°C		
Pressione di esercizio <i>Working pressure</i>	al. interna monost. [<i>monost. internal air supply</i>]	al. interna bist. [<i>bi-stable internal air supply</i>]	alim. separata [<i>separate air supply</i>]
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa	max 10 bar max 1 MPa
Pressione di azionamento (per alimentazione separata) <i>Actuating pressure (for separate air supply)</i>	monostabile [<i>mono-stable</i>]		bistabile [<i>bi-stable</i>]
	2.5 ... 10 bar 0.25 ... 1 MPa		1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>		

valvole ISO 5599/1 taglia 1

ISO 5599/1 valves - size 1

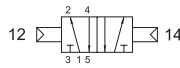


152 MC



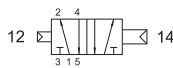
5/2 comando pneumatico - ritorno a molla
5/2 pneumatic pilot - spring return

152 CC



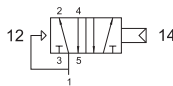
5/2 doppio comando pneumatico
5/2 double pneumatic pilot

152 CCD



5/2 doppio comando pneumatico - con differenziale
5/2 double pneumatic pilot - with differential

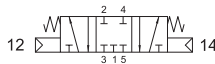
152 CFP



5/2 comando pneumatico - ritorno a molla pneumatica
5/2 pneumatic pilot - pneumatic spring return

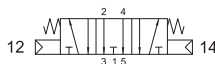
153C CC

centri chiusi
closed centres



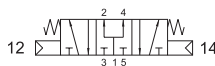
153A CC

centri aperti
open centres

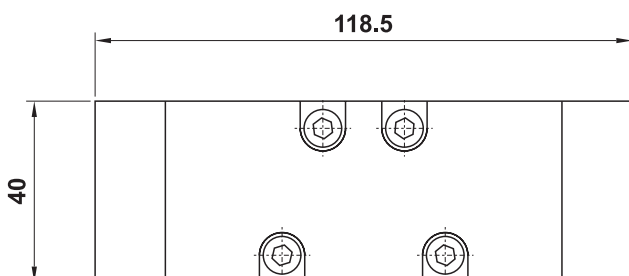
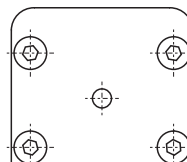
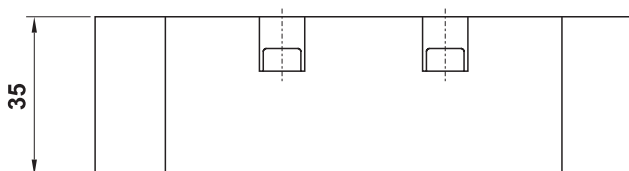
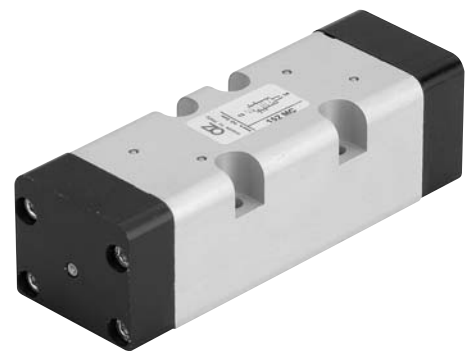


153P CC

centri in pressione
pressurized centres



5/3 doppio comando pneumatico
5/3 double pneumatic pilot



valvole ISO 5599/1 taglia 1

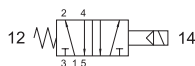
ISO 5599/1 valves - size 1



152 ME

5/2 comando elettrico - ritorno a molla

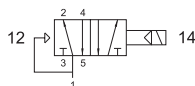
5/2 solenoid pilot - spring return



152 EFP

5/2 comando elettrico - ritorno a molla pneumatica

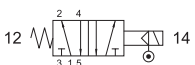
5/2 solenoid pilot - pneumatic spring return



152 ME AS

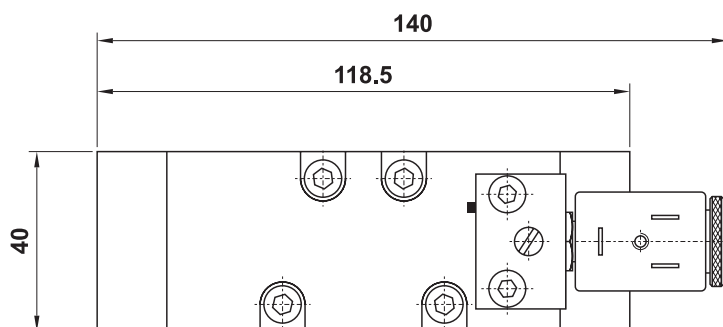
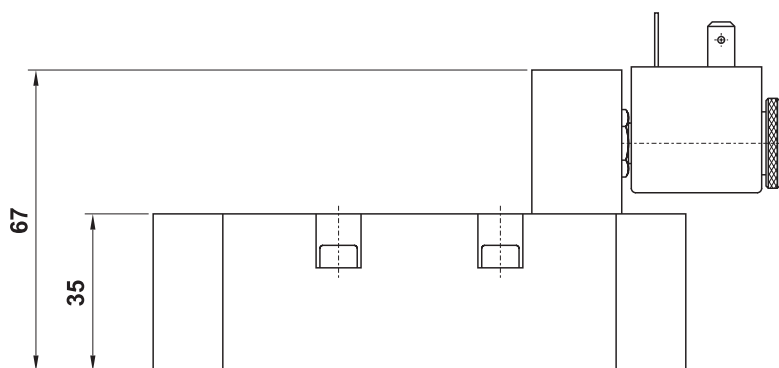
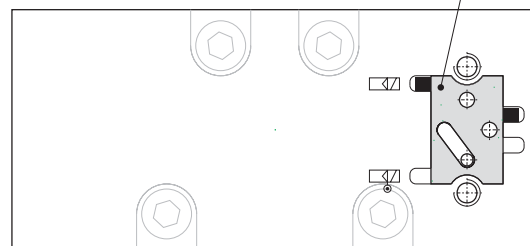
5/2 comando elettrico alimentazione separata - ritorno a molla

5/2 solenoid pilot with separate air supply - spring return



Per cambiare il tipo di alimentazione dell'elettropilota (alimentazione interna o separata) si deve riposizionare la guarnizione in modo che l'estremità evidenziata in nero sia collocata nella posizione corrispondente al simbolo della funzione desiderata.

To change between internal and external air supply it is necessary to align the seal end marked in black with the correct symbol.

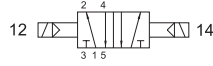


valvole ISO 5599/1 taglia 1

ISO 5599/1 valves - size 1

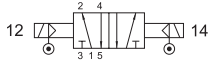


152 EE

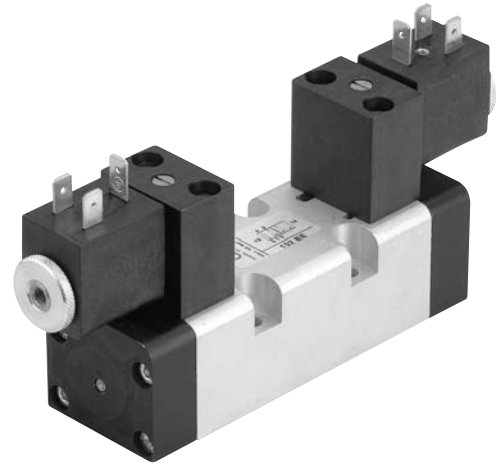


5/2 doppio comando elettrico
5/2 double solenoid pilot

152 EE AS

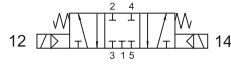


5/2 doppio comando elettrico alimentazione separata
5/2 double solenoid pilot with separate air supply



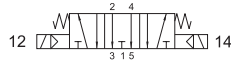
153C EE

centri chiusi
closed centres



153A EE

centri aperti
open centres



153P EE

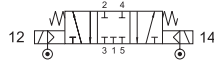
centri in pressione
pressurized centres



5/3 doppio comando elettrico
5/3 double solenoid pilot

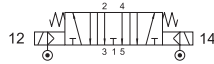
153C EE AS

centri chiusi
closed centres



153A EE AS

centri aperti
open centres



153P EE AS

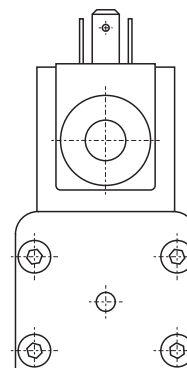
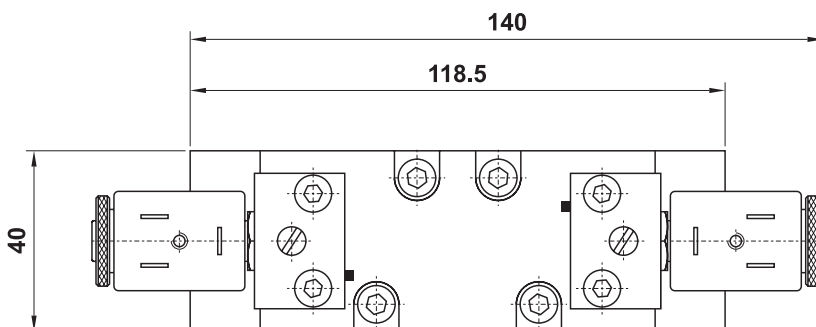
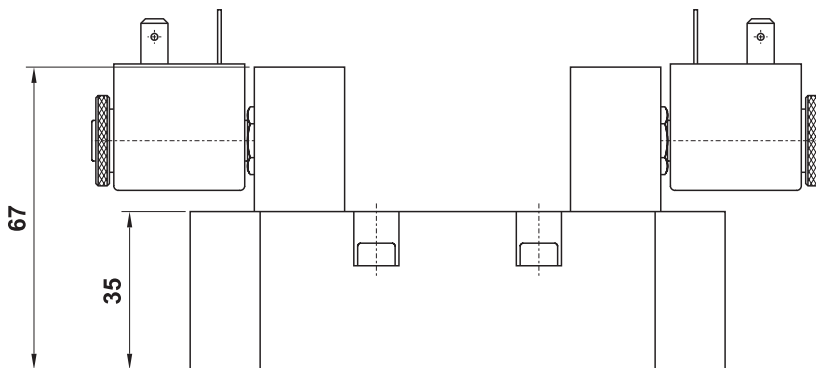
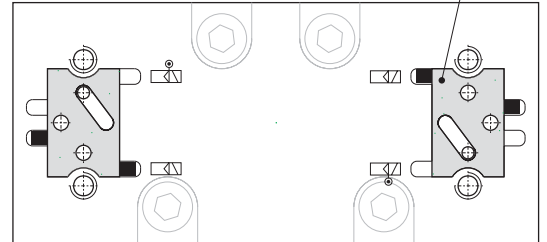
centri in pressione
pressurized centres



5/3 doppio comando elettrico alimentazione separata
5/3 double solenoid pilot with separate air supply

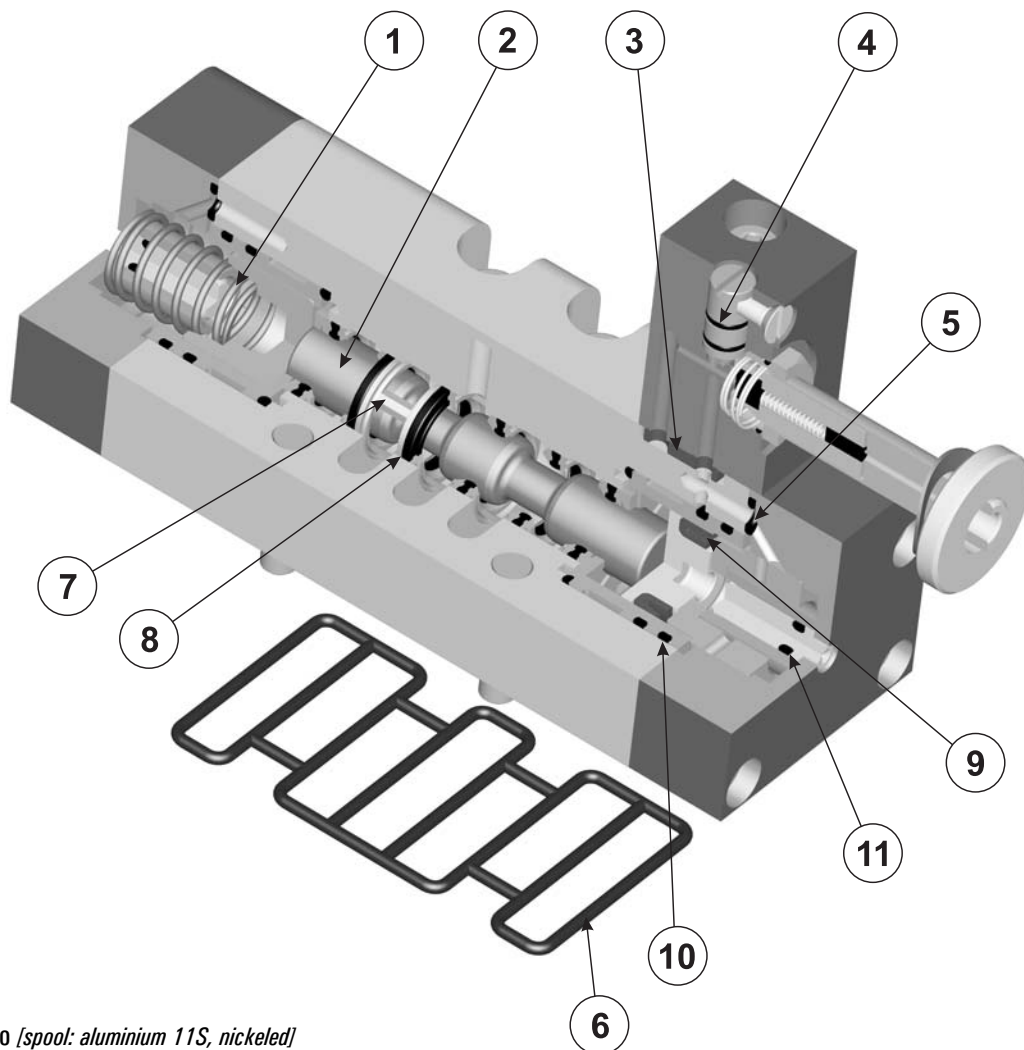
Per cambiare il tipo di alimentazione dell'elettropilota (alimentazione interna o separata) si deve riposizionare la guarnizione in modo che l'estremità evidenziata in nero sia collocata nella posizione corrispondente al simbolo della funzione desiderata.

To change between internal and external air supply it is necessary to align the seal end marked in black with the correct symbol.



ricambi per valvole a spola ISO 1

spare parts for ISO 1 spool valves



1. Molla: acciaio [spring: steel]
2. Spola: alluminio 11S nichelato [spool: aluminium 11S, nickelated]
3. Guarnizione multifunzione: NBR [multifunction seal: NBR]
4. Guarnizione O-Ring 4x1: NBR
5. Guarnizione O-Ring: NBR
6. Guarnizione corpo ISO 1: NBR [seal for valve body ISO 1: NBR]
7. Distanziale cassetto: ottone [brass]
8. Guarnizione cassetto: NBR [seal for spool: NBR]
9. Guarnizione DE per pistone: NBR [seal DE for piston: NBR]
10. Guarnizione O-Ring: NBR
11. Guarnizione O-Ring: NBR

codice kit code of kit	utilizzabile per suitable for		
00.048.2	152 CC	152 EE	152 EE AS
	153C CC	153A CC	153P CC
	153C EE	153A EE	153P EE
	153C EE AS	153A EE AS	153P EE AS
00.047.2	152 MC	152 ME	152 ME AS
00.049.2	152 CCD	152 CFP	152 EFP

bobine e connettori 22 mm

22 mm coils and connectors



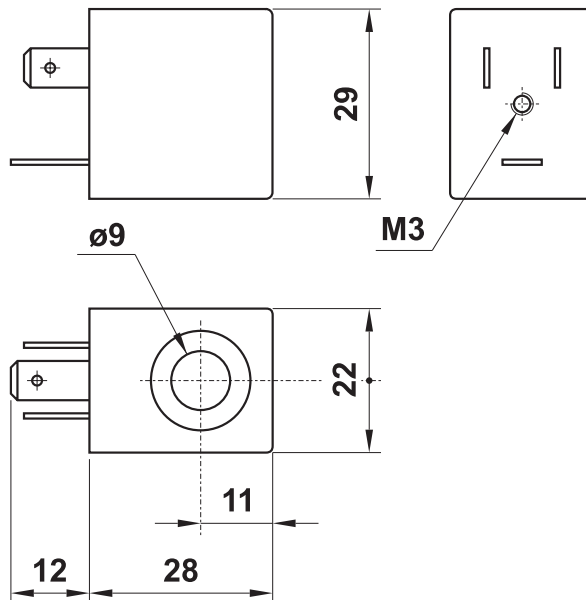
22 mm



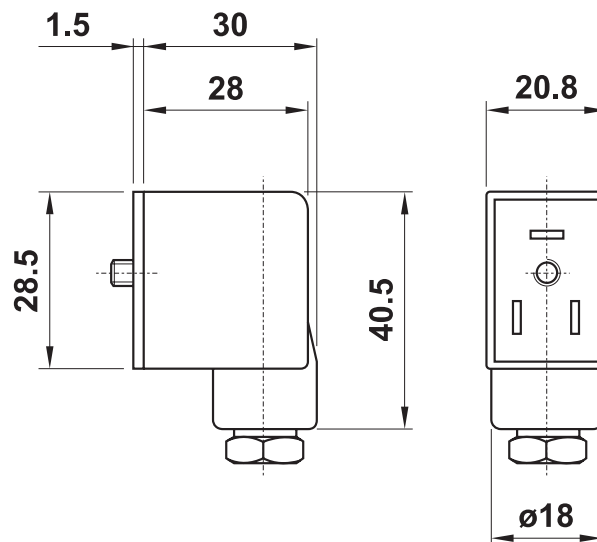
temperatura max di esercizio	+50°C	<i>max working temperature</i>
inserimento	ED 100%	<i>duty cycle</i>
protezione con connettore correttamente montato	IP 65	<i>protection with connector correctly mounted</i>
tolleranza di tensione	±10%	<i>tension tolerance</i>

- a richiesta basso assorbimento 1.5W
low consumption (1.5W) on request

codice <i>code</i>	tensione <i>tension</i>	consumo - power	
		a regime <i>rated</i>	di spunto <i>inrush</i>
00.167.0	12V DC	3W	
00.028.0	24V DC	3W	
00.029.0	24V 50/60Hz	5VA	7.5VA
00.030.0	110V 50/60Hz	5VA	7.5VA
00.031.0	220V 50/60Hz	5VA	7.5VA



codice <i>code</i>	colore <i>colour</i>	cavo <i>cable</i>	tipo <i>type</i>
00.197.0	nero <i>black</i>	PG09	normale <i>standard</i>
00.344.0	trasparente <i>transparent</i>	PG09	con LED 24V <i>with LED 24V</i>
00.345.0	trasparente <i>transparent</i>	PG09	con LED 24V e VDR <i>with LED 24V and VDR</i>
00.346.0	trasparente <i>transparent</i>	PG09	con LED 115V <i>with LED 115V</i>
00.347.0	trasparente <i>transparent</i>	PG09	con LED 115V e VDR <i>with LED 115V and VDR</i>
00.394.0	trasparente <i>transparent</i>	PG09	con LED 230V <i>with LED 230V</i>
00.395.0	trasparente <i>transparent</i>	PG09	con LED 230V e VDR <i>with LED 230V and VDR</i>



PEZZI DI RICAMBIO - spare parts
canotto per elettropilota
armature for solenoid pilot

NC : 00.088.0
NA (NO) : 00.306.0

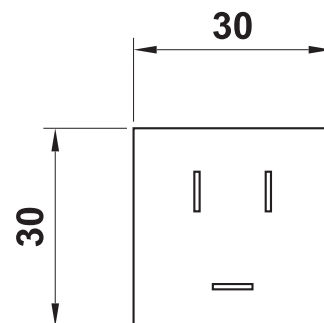
bobine e connettori 30 mm

30 mm coils and connectors

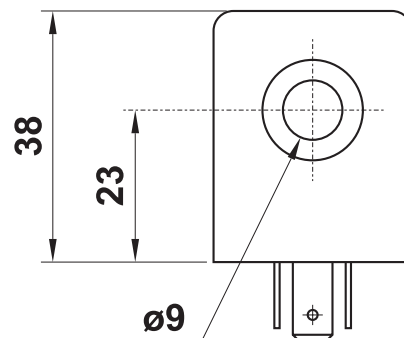


30 mm

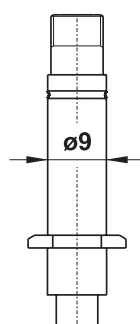
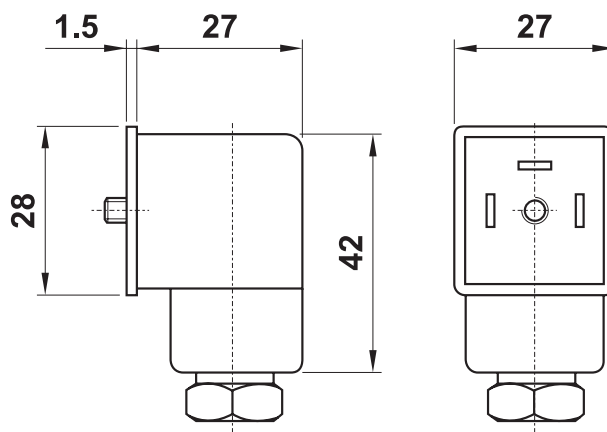
temperatura max di esercizio	+50°C	max working temperature
inserimento	ED 100%	duty cycle
protezione con connettore correttamente montato	IP 65	protection with connector correctly mounted
tolleranza di tensione	±10%	tension tolerance



codice code	tensione tension	consumo - power	
		a regime rated	di spunto inrush
00.258.0	24V DC	2W	
00.259.0	24V 50/60Hz	5VA	9VA
00.260.0	110V 50/60Hz	5VA	9VA
00.261.0	220V 50/60Hz	5VA	9VA



codice code	colore colour	cavo cable	tipo type
00.251.0	nero black	PG09	normale standard
00.348.0	trasparente transparent	PG09	con LED 24V with LED 24V
00.349.0	trasparente transparent	PG09	con LED 24V e VDR with LED 24V and VDR
00.350.0	trasparente transparent	PG09	con LED 115V with LED 115V
00.351.0	trasparente transparent	PG09	con LED 115V e VDR with LED 115V and VDR
00.396.0	trasparente transparent	PG09	con LED 230V with LED 230V
00.397.0	trasparente transparent	PG09	con LED 230V e VDR with LED 230V and VDR



PEZZI DI RICAMBIO - spare parts
canotto per elettropilota
armature for solenoid pilot

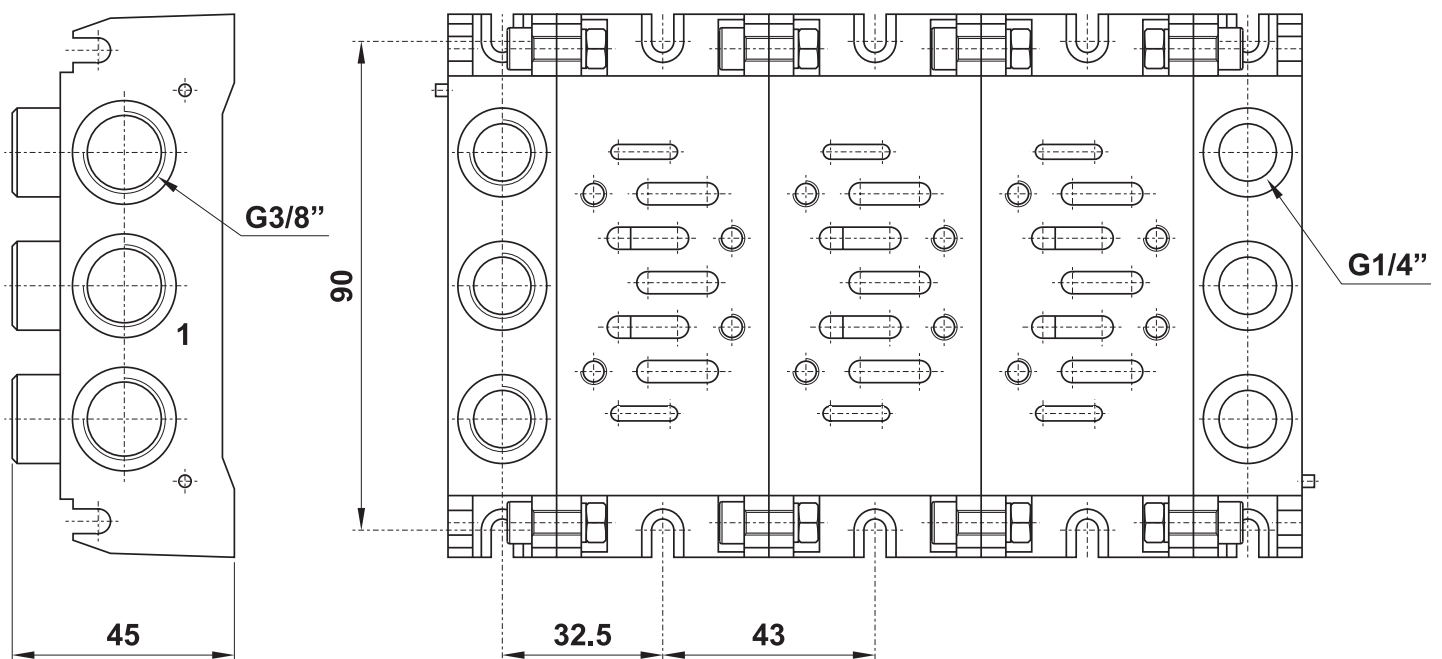
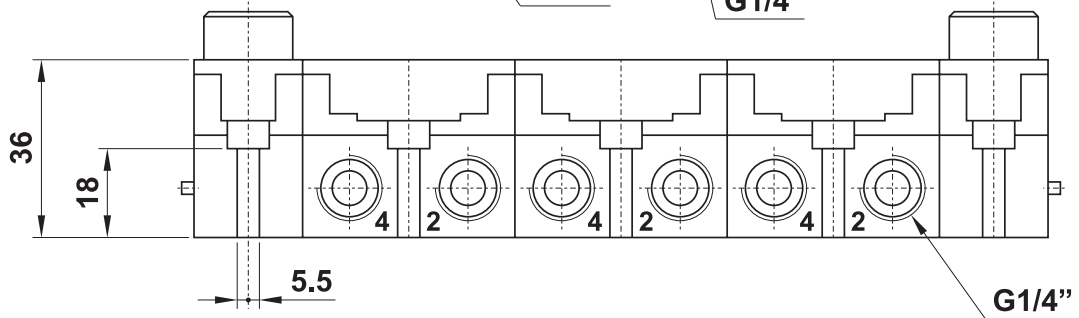
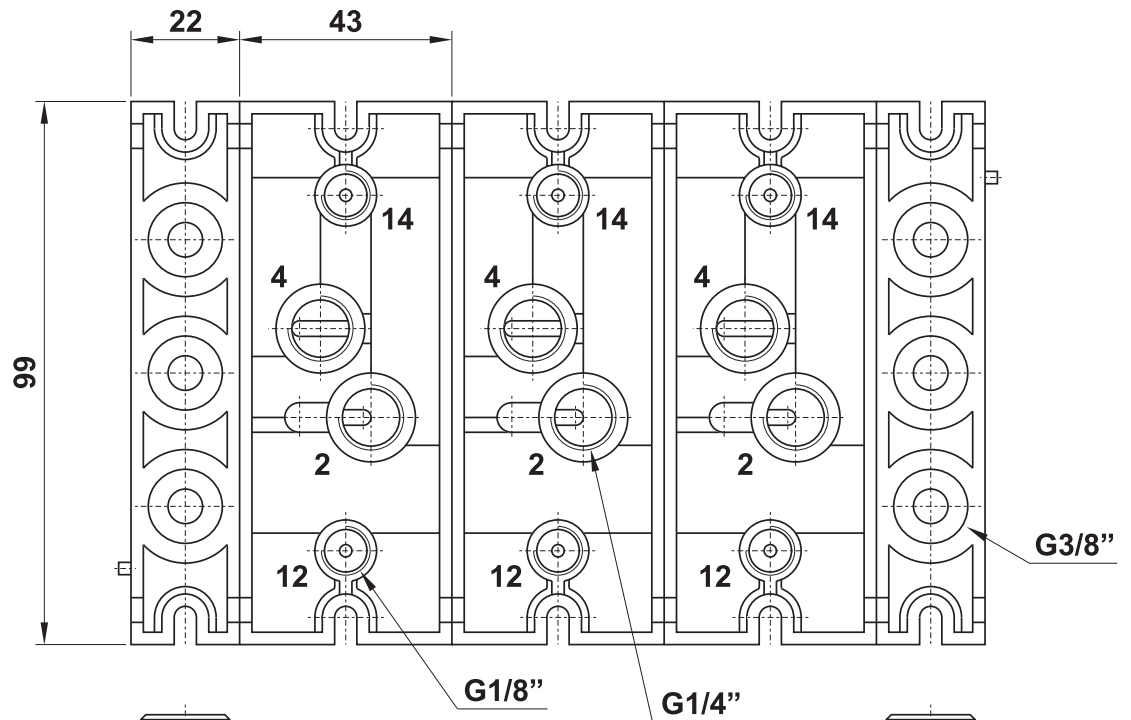
NC : 00.088.0
NA (NO) : 00.306.0

sottobasi modulari per valvole ISO 1

multiple sub-bases for ISO 1 valves



1



sottobasi modulari per valvole ISO 1

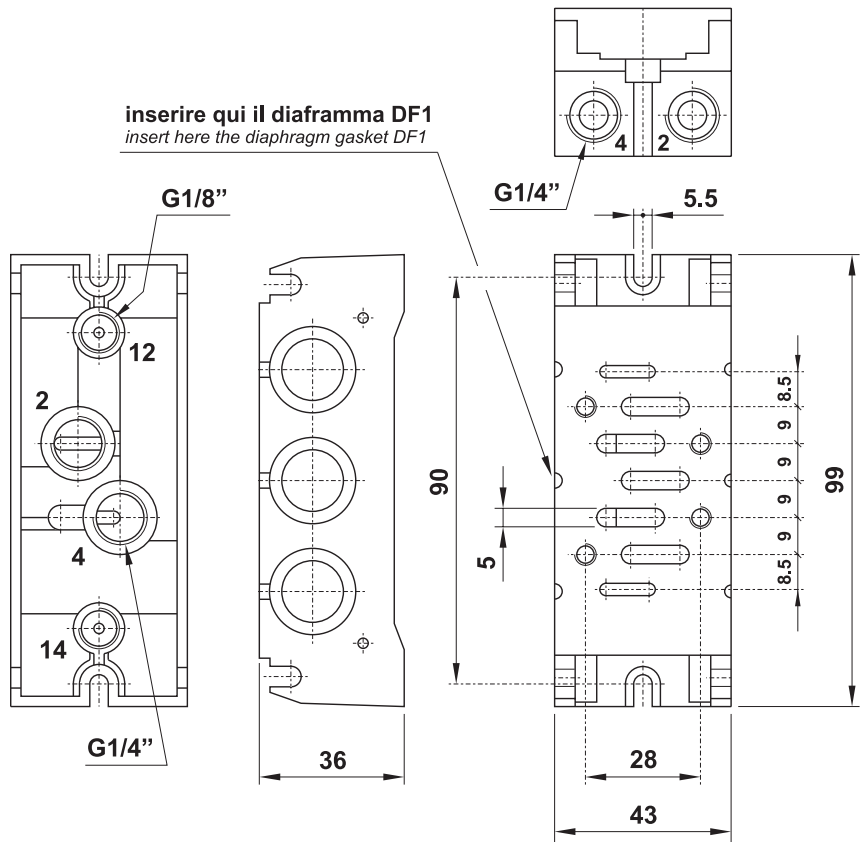
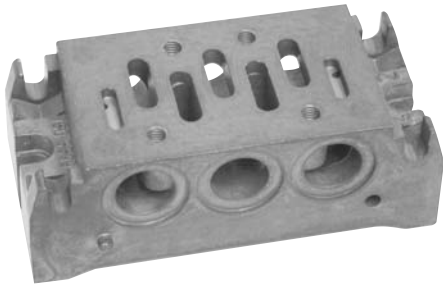
multiple sub-bases for ISO 1 valves



sottobase modulare modular sub-base

CODICE DI ORDINAZIONE
ORDER CODE

MLD1



inserire qui il diaframma DF1
insert here the diaphragm gasket DF1

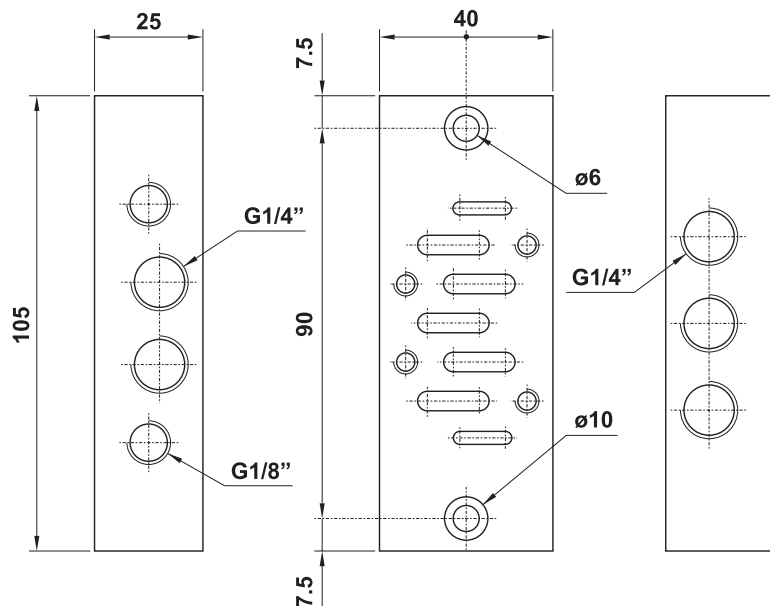
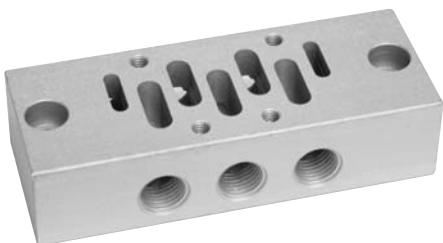
È venduta in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

sottobase singola individual sub-base

CODICE DI ORDINAZIONE
ORDER CODE

SL1

06.001.2 : Versione adattata per installazione su cilindro ISO 6431, fornita in kit con tutti i particolari necessari al suo assemblaggio.
06.001.2 : Adapted version for installation on cylinder ISO 6431. It is sold in kit with all necessary pieces for installation.



È venduta in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

sottobasi modulari per valvole ISO 1

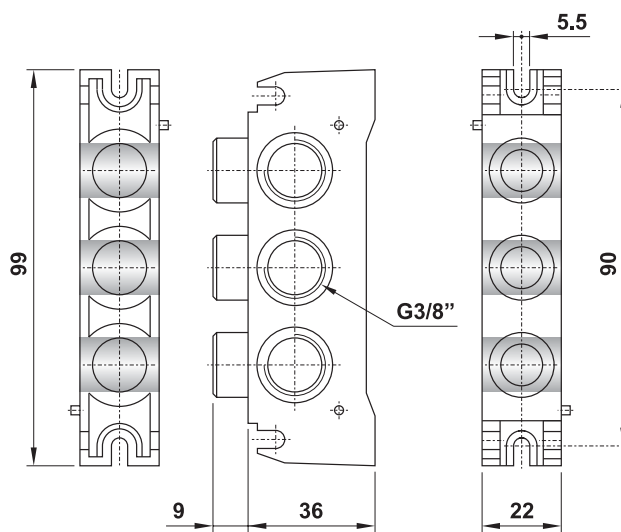
multiple sub-bases for ISO 1 valves



terminale di ingresso in asse side entry header

CODICE DI ORDINAZIONE
ORDER CODE

TL1

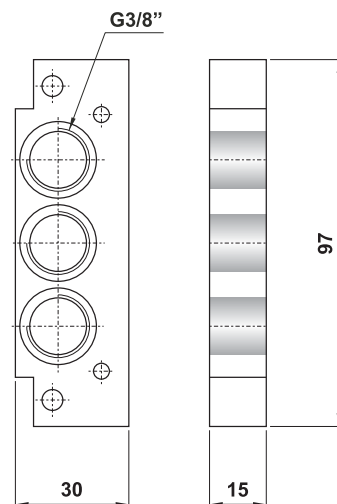


È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

terminale di ingresso in asse side entry header

CODICE DI ORDINAZIONE
ORDER CODE

TP1



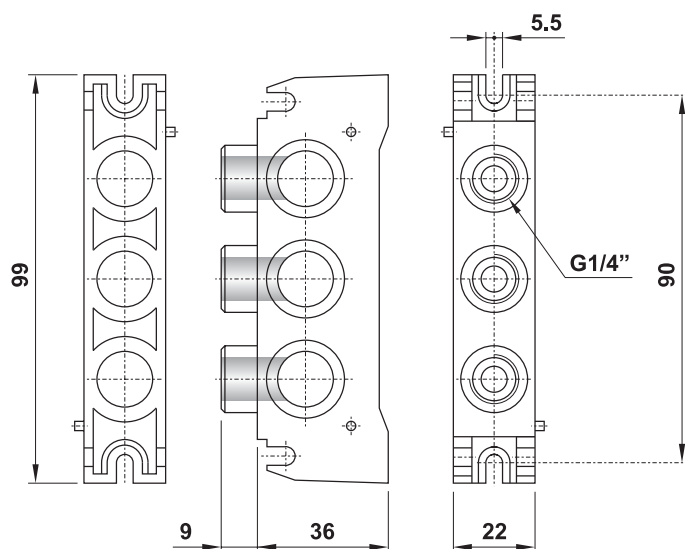
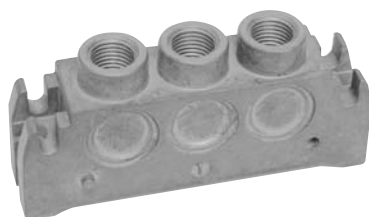
È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

terminale di ingresso superiore top entry header

CODICE DI ORDINAZIONE
ORDER CODE

TA1

utilizzabile anche come intermedio
it can be used also as intermediate header



È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

sottobasi modulari per valvole ISO 1

multiple sub-bases for ISO 1 valves



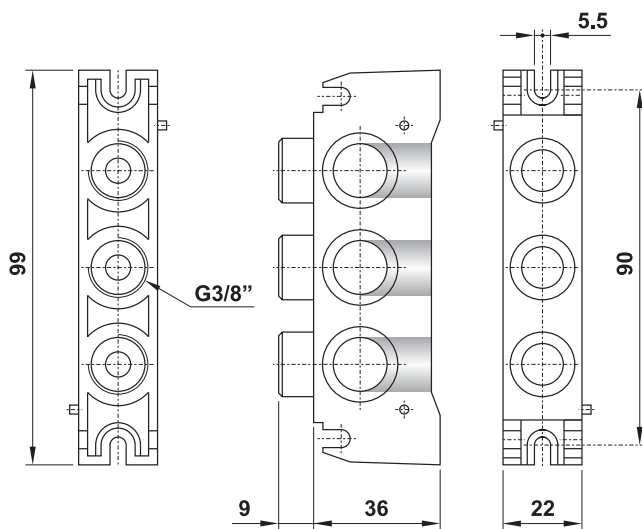
terminale di ingresso inferiore

bottom entry header

CODICE DI ORDINAZIONE
ORDER CODE

TB1

utilizzabile anche come intermedio
it can be used also as intermediate header



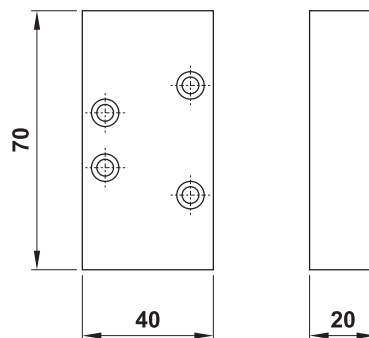
È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

piastrina di chiusura

blanking plate

CODICE DI ORDINAZIONE
ORDER CODE

TC1



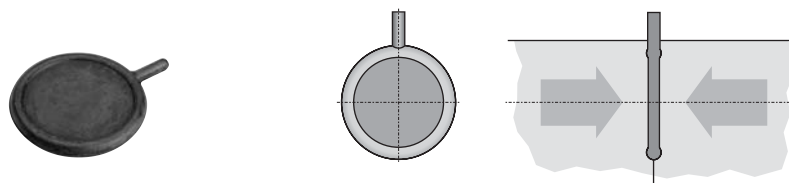
È venduta in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

guarnizione diaframma

diaphragm gasket

CODICE DI ORDINAZIONE
ORDER CODE

DF1



Da inserirsi tra due sottobasi modulari per bloccare il flusso d'aria e dividere una batteria di valvole in zone alimentabili a pressioni diverse.

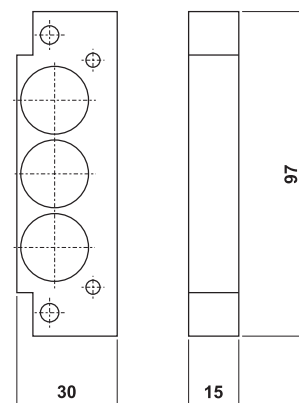
To be inserted between two sub-bases to stop the air flow and divide the manifold into separate zones.

terminale cieco

blind header

CODICE DI ORDINAZIONE
ORDER CODE

TPC1



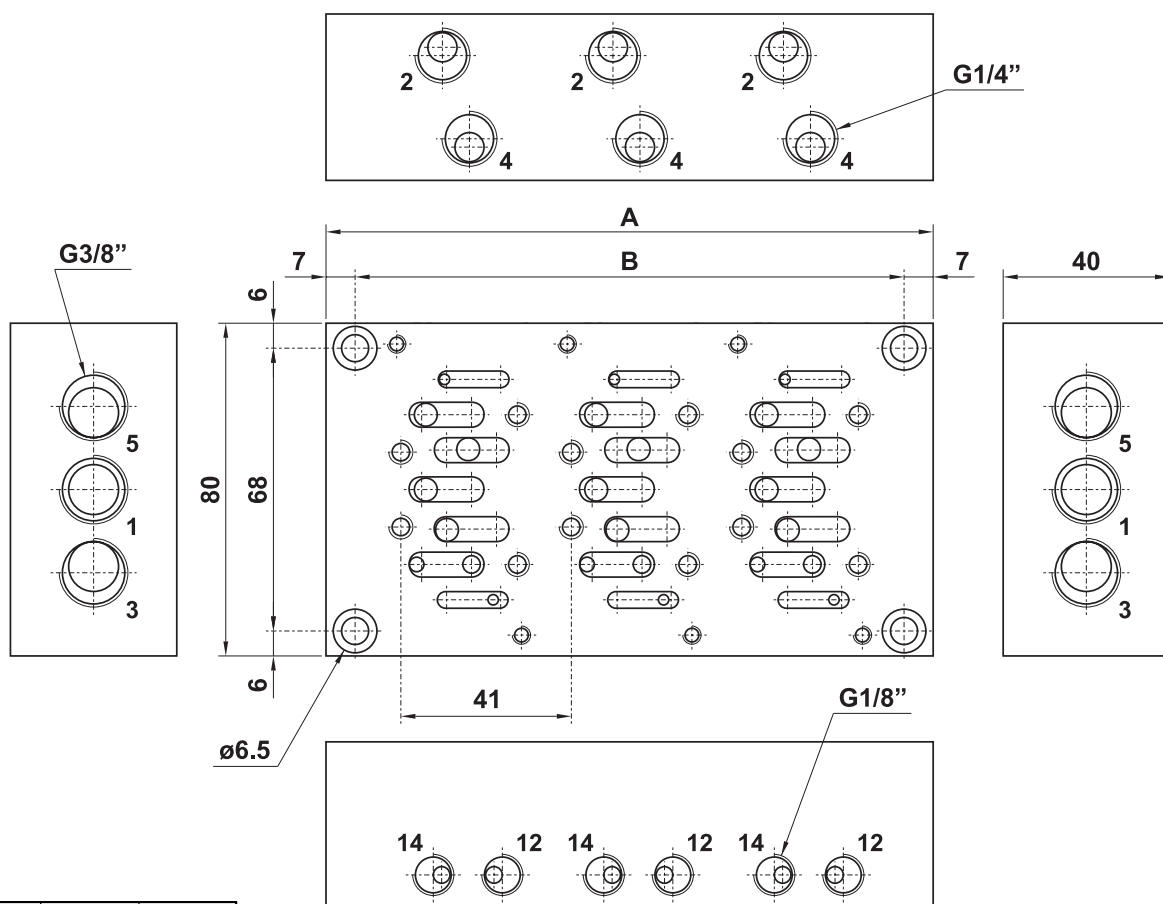
È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

sottobasi a posti fissi per valvole ISO 1

manifolds for ISO 1 valves



- Scarichi convogliati
Common exhaust
- Pilotaggi separati per ogni valvola
Individual pilot for each valve
- Materiale: alluminio anodizzato
Material: aluminium (anodize treatment)
- Sottobasi speciali a richiesta
Special manifolds on request



modello model	nr. posizioni no. stations	A	B
00.232.1	2	105	91
00.233.1	3	146	132
00.234.1	4	187	173
00.235.1	5	228	214
00.236.1	6	269	255
00.237.1	7	310	296

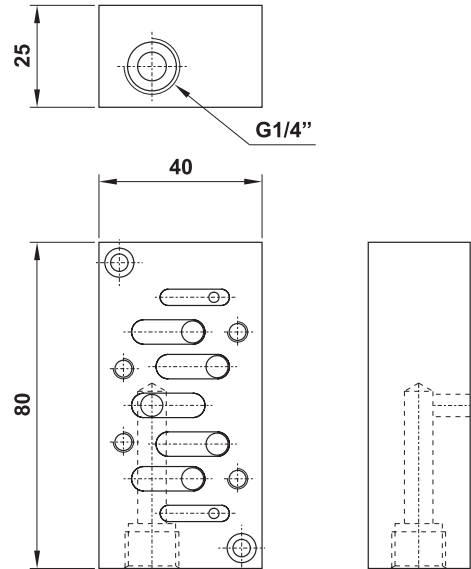
accessori per basi a posti fissi ISO 1

accessories for manifolds ISO 1



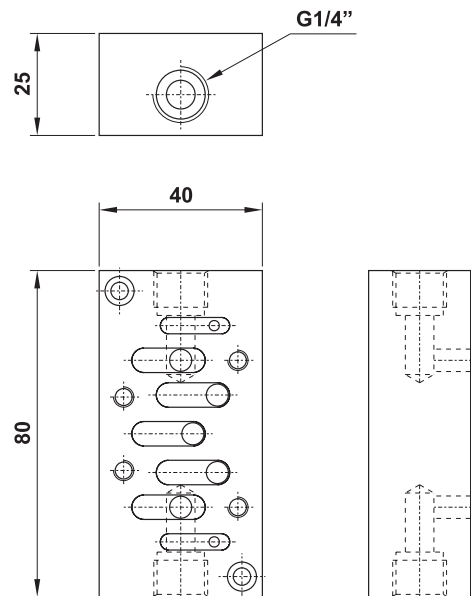
adattatore per entrata separata
adapting plate for separate air inlet

00.085.2



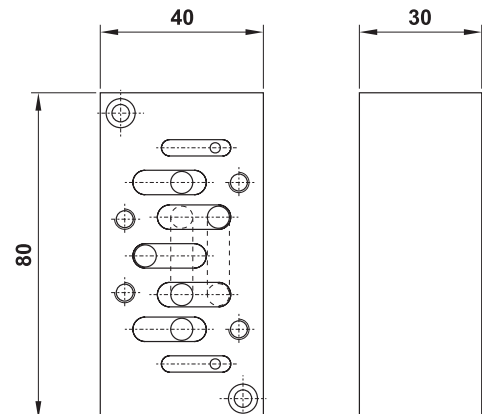
adattatore per scarichi separati
adapting plate for separate air exhaust

00.086.2



adattatore per inversione uscite
adapting plate for swapped air outlets

00.087.2



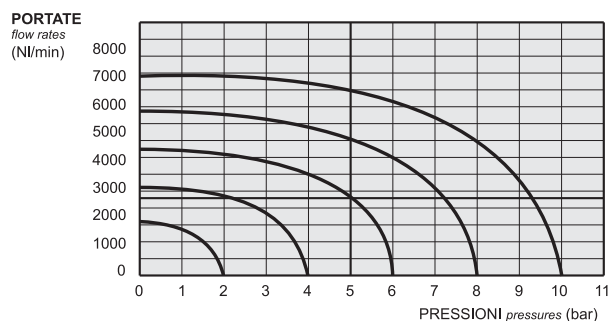
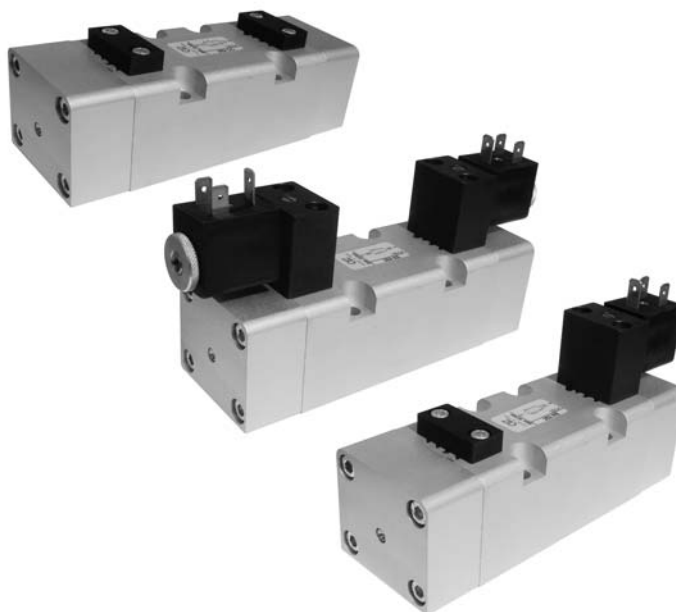
Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio.
Each element is sold in kit with all necessary pieces for installation.

valvole ISO 5599/1 taglia 2

ISO 5599/1 valves - size 2



- Valvole a spola 5/2-5/3
5/2-5/3 spool valves
- Montaggio su basi modulari
Installation on multiple sub-bases
- Azionatore manuale bistabile sull'elettropilota
Detented manual override on the solenoid pilot
- Riarmo manuale della valvola
Manual reset



I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 184-185).
The following listed products are sold without coils, which are bought separately (refer to page 184-185).

Tempi di risposta - response times

	az. pneumatico <i>pneumatic pilot</i>	az. elettrico <i>solenoid pilot</i>
monostabile <i>mono-stable</i>	TRA (14): 24 ms TRR (12): 43 ms	TRA (14): 39 ms TRR (12): 60 ms
bistabile <i>bi-stable</i>	TRA (14): 30 ms TRR (12): 30 ms	TRA (14): 90 ms TRR (12): 90 ms

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: alluminio nichelato

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spool: nickel plated aluminium

Internal parts: brass OT58

Diametro nominale <i>Nominal orifice</i>		9 mm	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Pressione di esercizio <i>Working pressure</i>	al. interna monost. [monost. internal air supply]	al. interna bist. [bi-stable internal air supply]	alim. separata [separate air supply]
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa	max 10 bar max 1 MPa
Pressione di azionamento (per alimentazione separata) <i>Actuating pressure (for separate air supply)</i>	monostabile [mono-stable]		bistabile [bi-stable]
	2.5 ... 10 bar 0.25 ... 1 MPa		1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>		

valvole ISO 5599/1 taglia 2

ISO 5599/1 valves - size 2

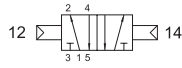


252 MC



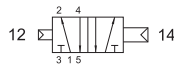
5/2 comando pneumatico - ritorno a molla
5/2 pneumatic pilot - spring return

252 CC



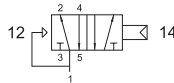
5/2 doppio comando pneumatico
5/2 double pneumatic pilot

252 CCD



5/2 doppio comando pneumatico - con differenziale
5/2 double pneumatic pilot - with differential

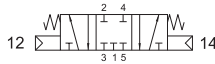
252 CFP



5/2 comando pneumatico - ritorno a molla pneumatica
5/2 pneumatic pilot - pneumatic spring return

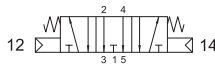
253C CC

centri chiusi
closed centres



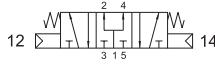
253A CC

centri aperti
open centres

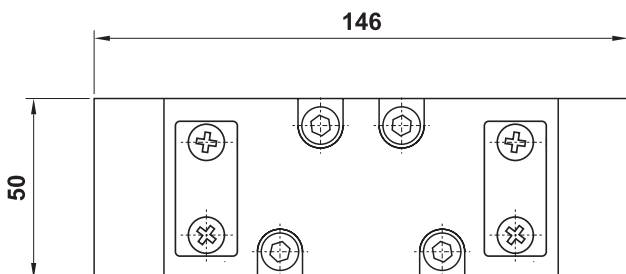
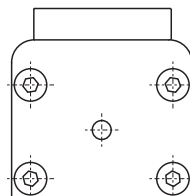
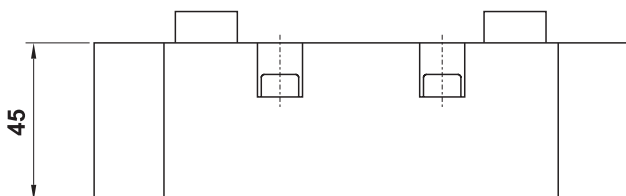
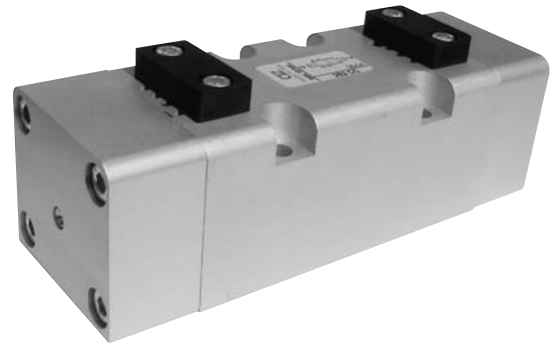


253P CC

centri in pressione
pressurized centres



5/3 doppio comando pneumatico
5/3 double pneumatic pilot



valvole ISO 5599/1 taglia 2

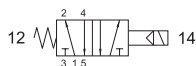
ISO 5599/1 valves - size 2



252 ME

5/2 comando elettrico - ritorno a molla

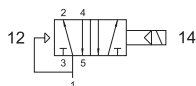
5/2 solenoid pilot - spring return



252 EFP

5/2 comando elettrico - ritorno a molla pneumatica

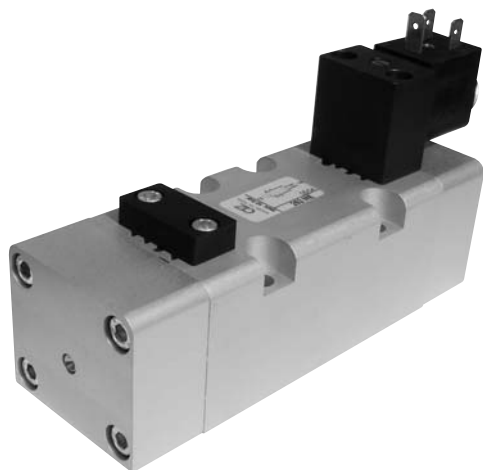
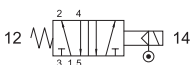
5/2 solenoid pilot - pneumatic spring return



252 ME AS

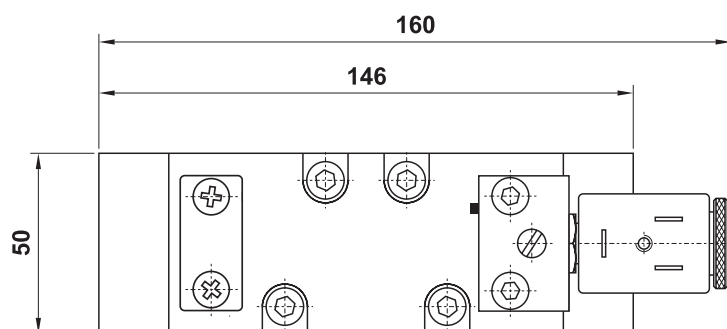
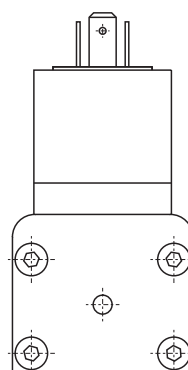
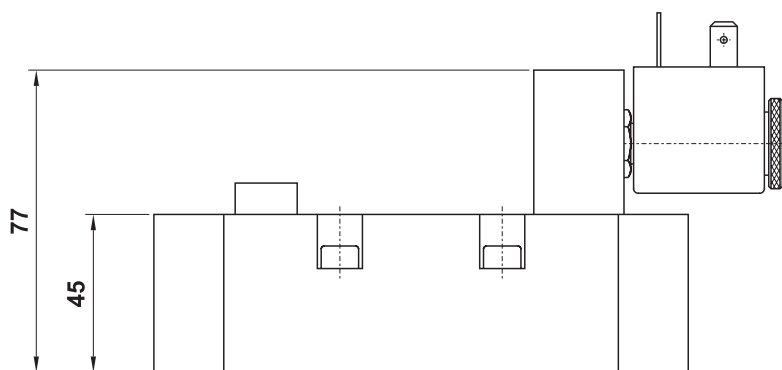
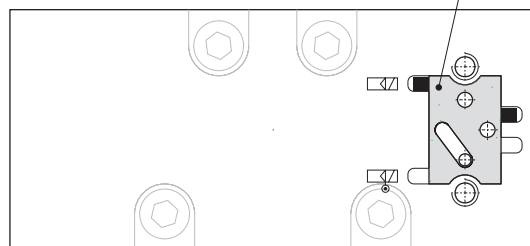
5/2 comando elettrico alimentazione separata - ritorno a molla

5/2 solenoid pilot with separate air supply - spring return



Per cambiare il tipo di alimentazione dell'elettropilota (alimentazione interna o separata) si deve riposizionare la guarnizione in modo che l'estremità evidenziata in nero sia collocata nella posizione corrispondente al simbolo della funzione desiderata.

To change between internal and external air supply it is necessary to align the seal end marked in black with the correct symbol.



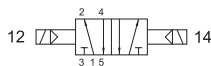
valvole ISO 5599/1 taglia 2

ISO 5599/1 valves - size 2



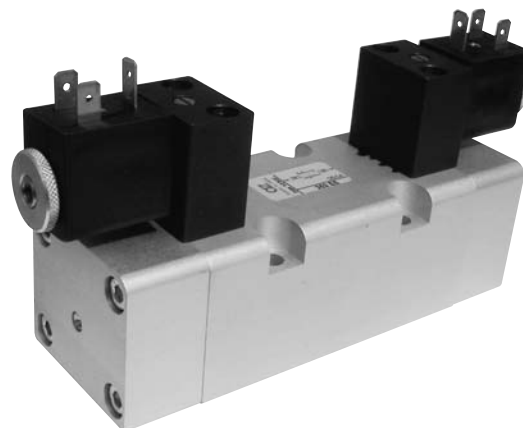
252 EE

5/2 doppio comando elettrico
5/2 double solenoid pilot



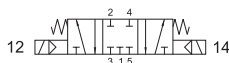
252 EE AS

5/2 doppio comando elettrico alimentazione separata
5/2 double solenoid pilot with separate air supply



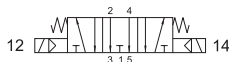
253C EE

centri chiusi
closed centres



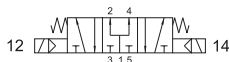
253A EE

centri aperti
open centres



253P EE

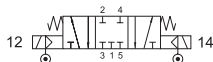
centri in pressione
pressurized centres



5/3 doppio comando elettrico
5/3 double solenoid pilot

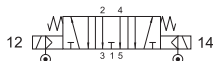
253C EE AS

centri chiusi
closed centres



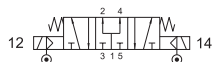
253A EE AS

centri aperti
open centres



253P EE AS

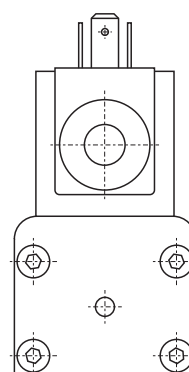
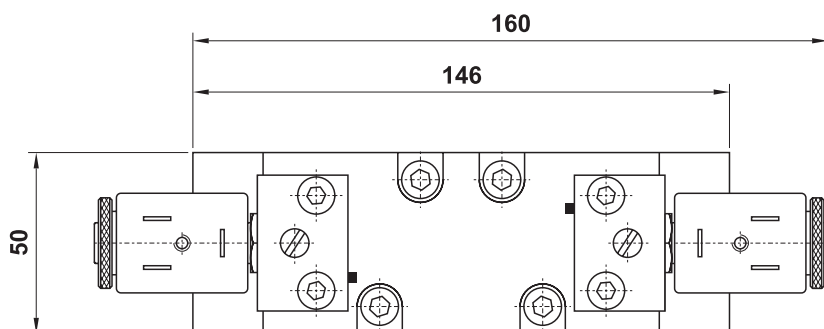
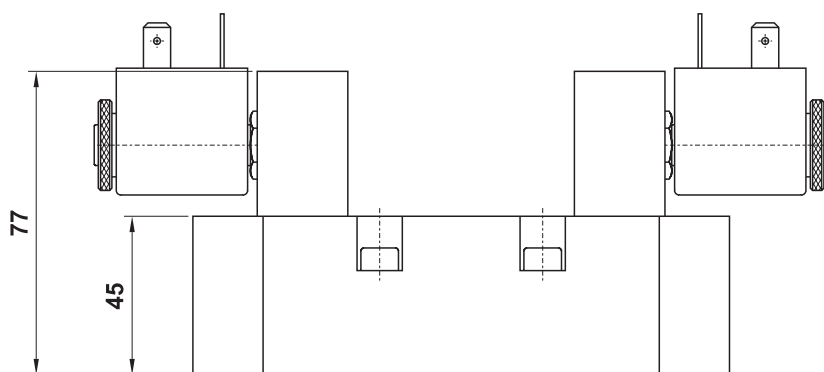
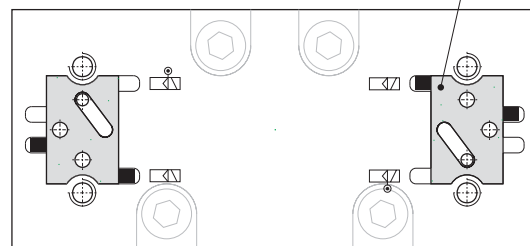
centri in pressione
pressurized centres



5/3 doppio comando elettrico alimentazione separata
5/3 double solenoid pilot with separate air supply

Per cambiare il tipo di alimentazione dell'elettropilota (alimentazione interna o separata) si deve riposizionare la guarnizione in modo che l'estremità evidenziata in nero sia collocata nella posizione corrispondente al simbolo della funzione desiderata.

To change between internal and external air supply it is necessary to align the seal end marked in black with the correct symbol.



sottobasi modulari per valvole ISO 2

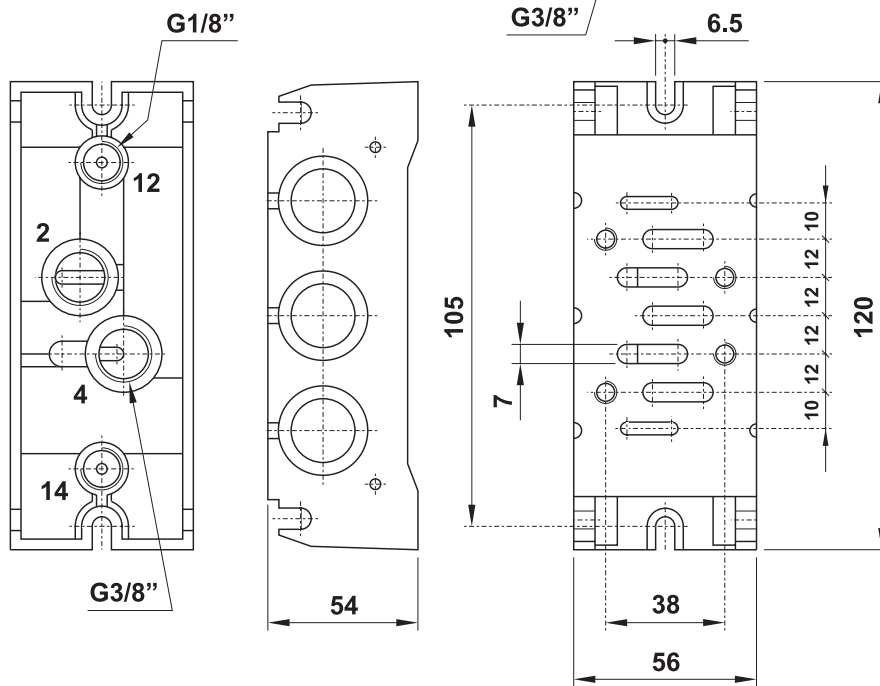
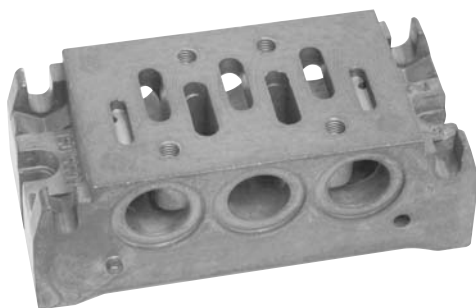
multiple sub-bases for ISO 2 valves



sottobase modulare
modular sub-base

CODICE DI ORDINAZIONE
ORDER CODE

MLD2

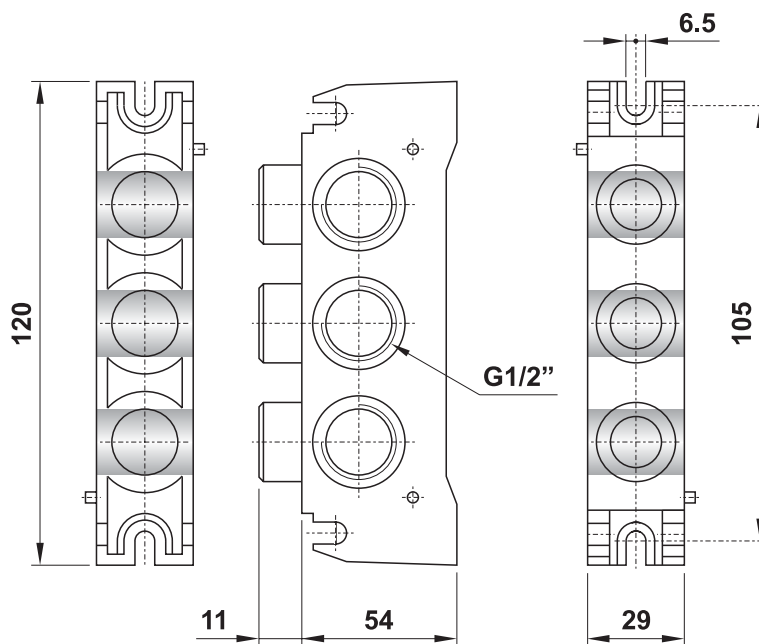
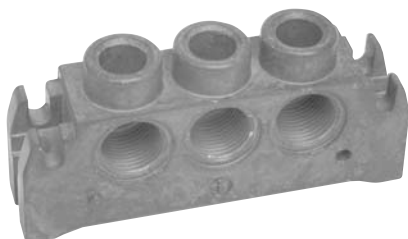


È venduta in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

terminale di ingresso in asse
side entry header

CODICE DI ORDINAZIONE
ORDER CODE

TL2



È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

sottobasi modulari per valvole ISO 2

multiple sub-bases for ISO 2 valves

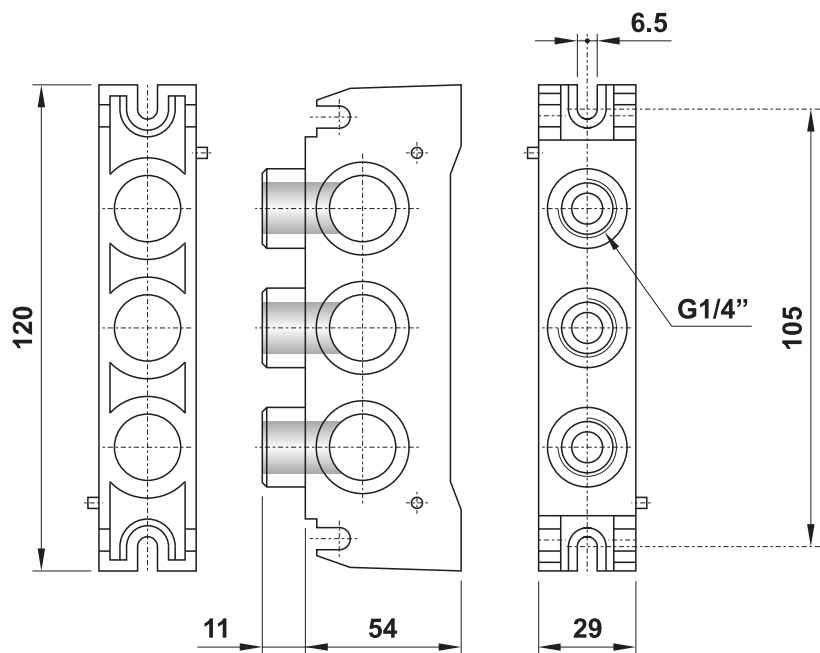


terminale di ingresso superiore top entry header

CODICE DI ORDINAZIONE
ORDER CODE

TA2

utilizzabile anche come intermedio
it can be used also as intermediate header



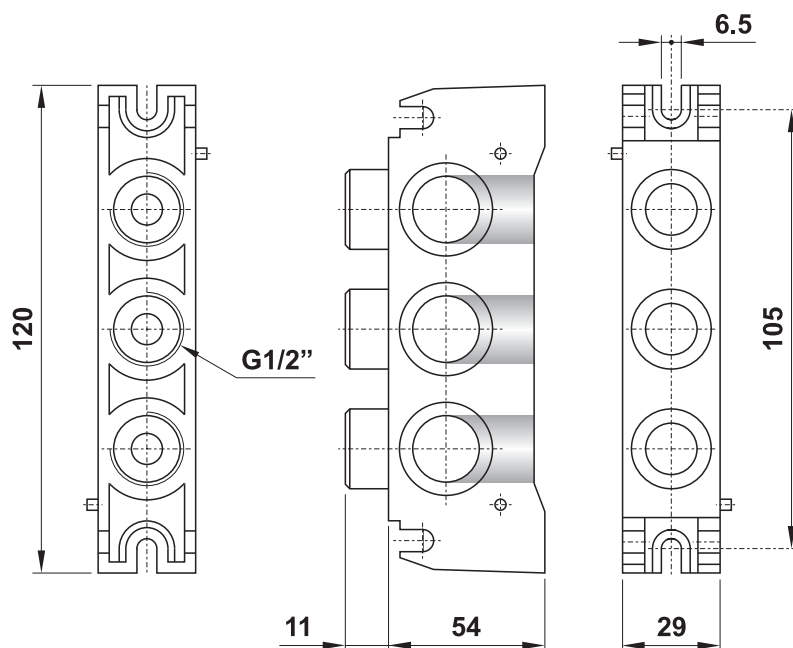
È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.

terminale di ingresso inferiore bottom entry header

CODICE DI ORDINAZIONE
ORDER CODE

TB2

utilizzabile anche come intermedio
it can be used also as intermediate header



È venduto in kit con i particolari necessari al suo assemblaggio.
It is sold in kit with all necessary pieces for installation.



	pagina <i>page</i>
• Regolatori di flusso <i>Flow regulators</i>	200
• Valvole di non ritorno <i>Non-return valves</i>	204
• Elementi logici <i>Logic elements</i>	207
• Valvole di scarico rapido <i>Quick exhaust valves</i>	212
• Pressostati, vuotostati e trasduttore pneumo-elettrico <i>Pressure and vacuum switches</i>	214
• Regolatori di scarico <i>Exhaust regulators</i>	219
• Collettori <i>Distribution manifolds</i>	220
• Silenziatori <i>Silencers</i>	222
• Valvole a corsoio <i>Slide valves</i>	224

regolatori di flusso

flow regulators



- Regolatori unidirezionali e bidirezionali
Uni-directional and bi-directional flow regulators
- Attacchi filettati da M5 a G1/2"
Threaded ports from M5 to G1/2"
- Montaggio in linea o a pannello
In-line or panel mounting
- Versione per regolazione fine
Version for precision regulation



Materiali

Corpo: alluminio 11S
Molla: INOX
Guarnizioni: NBR
Parti interne: ottone OT58

Materials

Body: aluminium 11S
Spring: stainless steel
Seals: NBR
Internal parts: brass OT58

Regolatori unidirezionali - uni-directional flow regulators

Modello <i>Model</i>		RFU M5	RFU 1/8.1	RFU 1/8.2 RFUM 1/8	RFU 1/8.3	RFU 1/4 RFUM 1/4	RFU 3/8	RFU 1/2	RFP 1/8.2
Attacchi <i>Ports</i>		M5	G1/8"	G1/8"	G1/8"	G1/4"	G3/8"	G1/2"	G1/8"
Diametro nominale <i>Nominal orifice</i>	1-2 2-1	1.2 mm 2.2 mm	1.2 mm 4.2 mm	2 mm 4.2 mm	3.2 mm 4.2 mm	3.5 mm 6.5 mm	7 mm 10 mm	7 mm 11 mm	2 mm 4.2 mm
Portata nominale a 6 bar <i>Nominal flow rate at 6 bar</i>	1-2 2-1	60 NI/min 130 NI/min	60 NI/min 450 NI/min	120 NI/min 450 NI/min	210 NI/min 450 NI/min	300 NI/min 600 NI/min	600 NI/min 1100 NI/min	600 NI/min 1400 NI/min	120 NI/min 450 NI/min
Temperatura di esercizio <i>Temperature range</i>	max +60°C								
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa								0.5 ... 10 bar 0.05 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>								

Regolatori bidirezionali - bi-directional flow regulators

Modello <i>Model</i>	RFB M5	RFB 1/8	RFB 1/4	RFB 3/8	RFB 1/2
Attacchi <i>Ports</i>	M5	G1/8"	G1/4"	G3/8"	G1/2"
Diametro nominale <i>Nominal orifice</i>	1.2 mm	3.2 mm	3.5 mm	7 mm	7 mm
Portata nominale a 6 bar <i>Nominal flow rate at 6 bar</i>	60 NI/min	210 NI/min	300 NI/min	500 NI/min	500 NI/min
Temperatura di esercizio <i>Temperature range</i>	max +60°C				
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa				
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>				

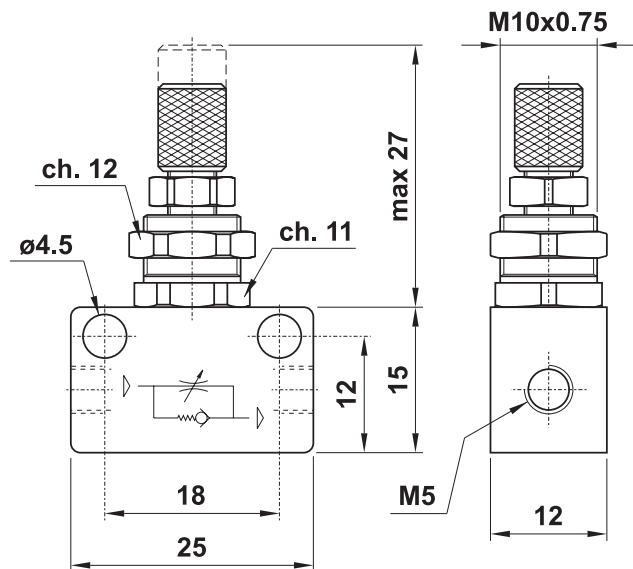
regolatori di flusso unidirezionali

uni-directional flow regulators

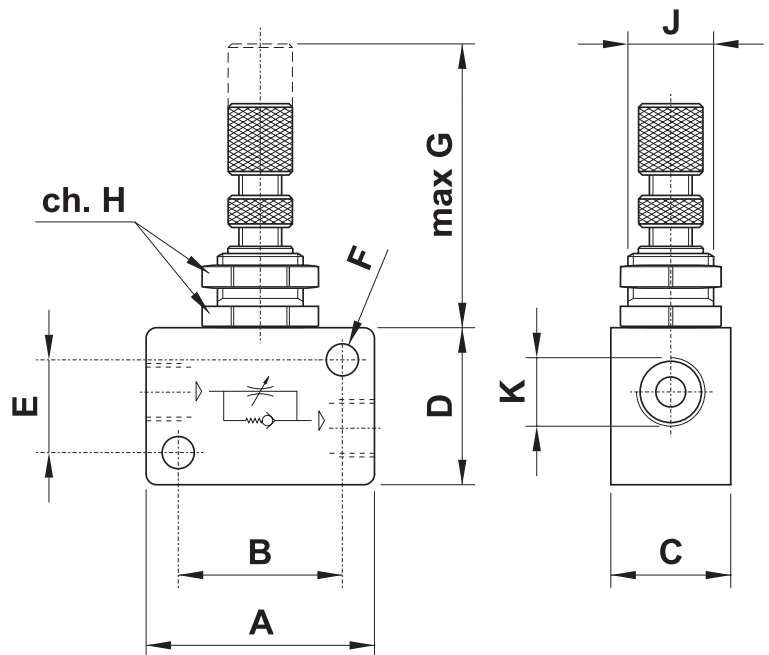


M5

RFU M5



G1/8"
G1/4"
G3/8"
G1/2"



Modello Model	A	B	C	D	E	F	G	H	J	K
RFU 1/8.1 RFU 1/8.2 RFU 1/8.3	32	23	16.8	22	13	$\phi 4.5$	35	15	M12x0.75	G1/8"
RFU 1/4	40	30	22	32	22	$\phi 4.5$	35	15	M12x0.75	G1/4"
RFU 3/8	56	43	27	42	27	$\phi 6.5$	43	24	M18x1	G3/8"
RFU 1/2	56	43	27	42	27	$\phi 6.5$	43	24	M18x1	G1/2"

regolatori di flusso unidirezionali

uni-directional flow regulators



con manopola
with knob

RFUM 1/8
RFUM 1/4

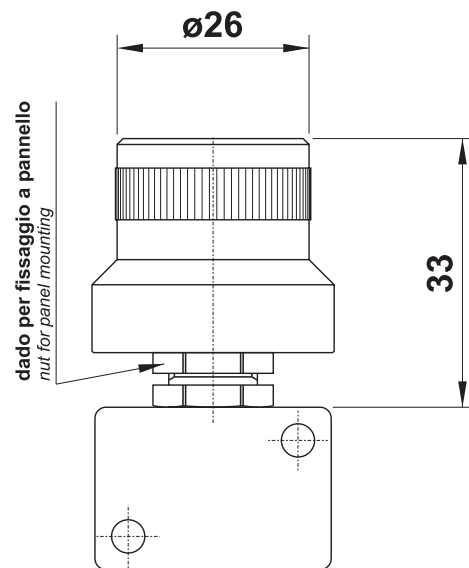


I modelli RFU 1/8.2 e RFU 1/4 sono disponibili nella versione con regolazione a **manopola**. Bloccando l'apposito dado per il fissaggio a pannello la manopola non si sposta, ruotando, rispetto al piano di fissaggio.

Fissando il regolatore in altra maniera la manopola si alza o si abbassa durante la regolazione.

The models RFU 1/8.2 and RFU 1/4 are available also with knob for manual adjustment.

Two locking nuts are provided to panel mount the regulator. Once the locking nuts have been tightened adjustment can be made without the risk of body turning.



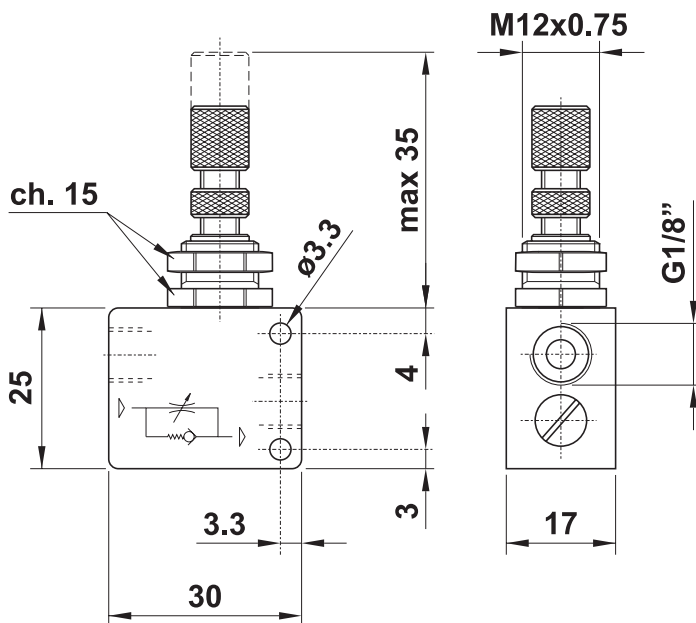
sensibile
sensitive

RFP 1/8.2



Il modello RFP è caratterizzato da una maggiore sensibilità alle basse pressioni di esercizio.

The model RFP is used for low working pressures.



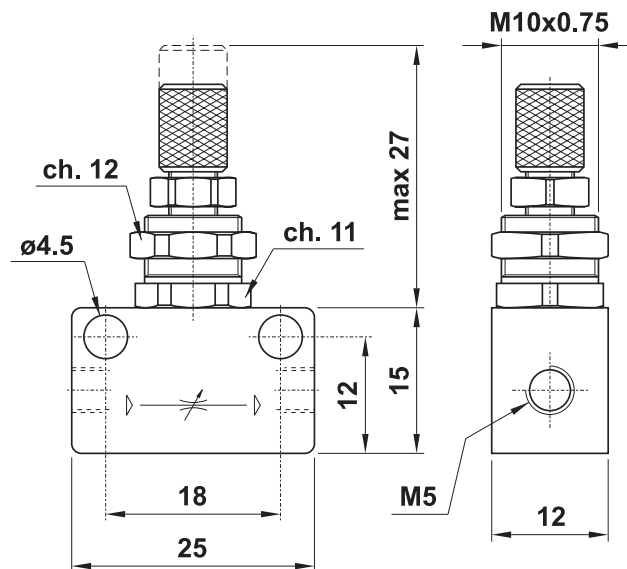
regolatori di flusso bidirezionali

bi-directional flow regulators

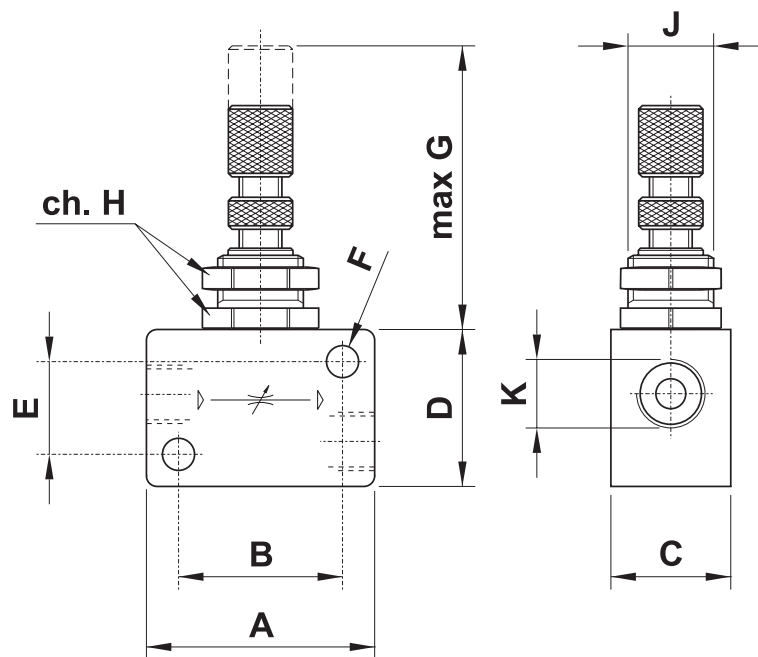


M5

RFB M5



G1/8"
G1/4"
G3/8"
G1/2"



Modello Model	A	B	C	D	E	F	G	H	J	K
RFB 1/8	32	23	16.8	22	13	$\phi 4.5$	35	15	M12x0.75	G1/8"
RFB 1/4	40	30	22	32	22	$\phi 4.5$	35	15	M12x0.75	G1/4"
RFB 3/8	56	43	27	42	27	$\phi 6.5$	43	24	M18x1	G3/8"
RFB 1/2	56	43	27	42	27	$\phi 6.5$	43	24	M18x1	G1/2"

valvole di non ritorno

non-return valves



- Attacchi filettati femmina-femmina e maschio-femmina
Threaded ports female-female and male-female
- Da M5 a G1/4"
From M5 to G1/4"
- A richiesta corpo nichelato
Nickel plated valve body on request
- Guarnizioni in Viton per temperature più elevate
Viton seals for higher temperatures



Materiali

Corpo: ottone OT58

Molla: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: brass OT58

Spring: stainless steel

Seals: NBR

Internal parts: brass OT58

Modello <i>Model</i>	VNR 1/8 FF VNR 1/8 MF	VNR 1/4 FF VNR 1/4 MF	VNR M5 FF	VNR 1/8 MFR
Attacchi <i>Ports</i>	G1/8"	G1/4"	M5	G1/8"
Diametro nominale <i>Nominal orifice</i>	5.2 mm	7 mm	2.2 mm	4 mm
Portata nominale a 6 bar <i>Nominal flow rate at 6 bar</i>	500 NI/min	900 NI/min	100 NI/min	350 NI/min
Temperatura di esercizio <i>Temperature range</i>	max +60°C VITON: max +110°C			
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa			
Fluido <i>Fluid</i>	Aria filtrata 50μ con o senza lubrificazione 50μ filtered, lubricated or non lubricated air			

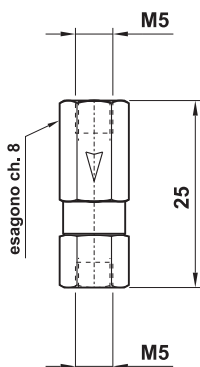
valvole di non ritorno

non-return valves



VNR M5 FF

valvola di non ritorno femmina-femmina M5
non-return valve female-female M5

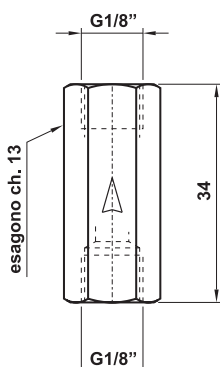


Versioni disponibili - Available versions

codice - code	descrizione - description
11.010.4	standard: corpo in ottone, guarnizioni in NBR <i>standard: valve body in brass, seals in NBR</i>
11.011.4	corpo in ottone, guarnizioni in NBR, senza molla <i>valve body in brass, seals in NBR, without spring</i>
11.024.4	corpo in ottone nichelato, guarnizioni in NBR <i>valve body in nickel plated brass, seals in NBR</i>
11.046.4	corpo in ottone, guarnizioni in VITON <i>valve body in brass, seals in VITON</i>
11.050.4	corpo in ottone nichelato, guarnizioni in VITON <i>valve body in nickel plated brass, seals in VITON</i>

VNR 1/8 FF

valvola di non ritorno femmina-femmina 1/8"
non-return valve female-female 1/8"

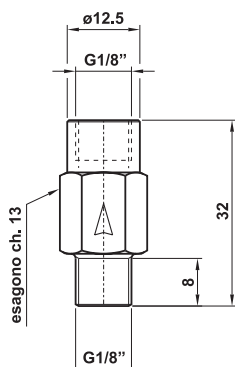


Versioni disponibili - Available versions

codice - code	descrizione - description
11.000.4	standard: corpo in ottone, guarnizioni in NBR <i>standard: valve body in brass, seals in NBR</i>
11.002.4	corpo in ottone, guarnizioni in VITON <i>valve body in brass, seals in VITON</i>
11.004.4	corpo in ottone nichelato, guarnizioni in NBR <i>valve body in nickel plated brass, seals in NBR</i>
11.009.4	corpo in ottone, guarnizioni in SILICONE <i>valve body in brass, seals in SILICONE</i>
11.027.4	corpo in ottone, guarnizioni in NBR, senza molla <i>valve body in brass, seals in NBR, without spring</i>
11.031.4	corpo in ottone nichelato, guarnizioni in VITON <i>valve body in nickel plated brass, seals in VITON</i>
11.035.4	corpo in ottone, guarnizioni in NBR, molla tenera <i>valve body in brass, seals in NBR, light duty spring</i>
11.034.4	corpo in ottone, guarnizioni in VITON, molla tenera <i>valve body in brass, seals in VITON, light duty spring</i>

VNR 1/8 MF

valvola di non ritorno maschio-femmina 1/8"
non-return valve male-female 1/8"



Versioni disponibili - Available versions

codice - code	descrizione - description
11.006.4	standard: corpo in ottone, guarnizioni in NBR <i>standard: valve body in brass, seals in NBR</i>
11.007.4	corpo in ottone, guarnizioni in VITON <i>valve body in brass, seals in VITON</i>
11.042.4	corpo in ottone, guarnizioni in NBR, molla dura <i>valve body in brass, seals in NBR, heavy duty spring</i>
11.055.4	corpo in ottone nichelato, guarnizioni in NBR <i>valve body in nickel plated brass, seals in NBR</i>
11.045.4	corpo in ottone nichelato, guarnizioni in VITON <i>valve body in nickel plated brass, seals in VITON</i>

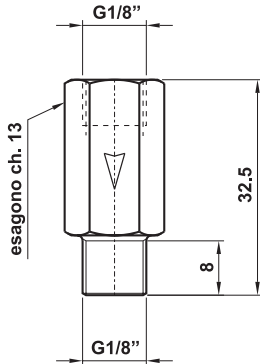
valvole di non ritorno

non-return valves



VNR 1/8 MFR

valvola di non ritorno maschio-femmina 1/8" rovesciata
non-return valve female-male 1/8"

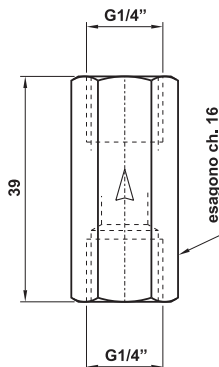


Versioni disponibili - Available versions

codice - code	descrizione - description
11.008.4	standard: corpo in ottone, guarnizioni in NBR <i>standard: valve body in brass, seals in NBR</i>
11.032.4	corpo in ottone, guarnizioni in VITON <i>valve body in brass, seals in VITON</i>
11.049.4	corpo in ottone nichelato, guarnizioni in NBR <i>valve body in nickel plated brass, seals in NBR</i>
11.056.4	corpo in ottone nichelato, guarnizioni in VITON <i>valve body in nickel plated brass, seals in VITON</i>

VNR 1/4 FF

valvola di non ritorno femmina-femmina 1/4"
non-return valve female-female 1/4"

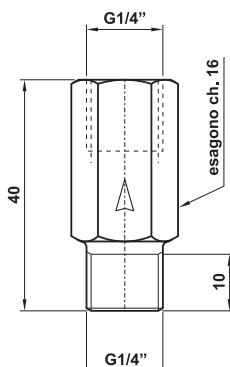


Versioni disponibili - Available versions

codice - code	descrizione - description
11.001.4	standard: corpo in ottone, guarnizioni in NBR <i>standard: valve body in brass, seals in NBR</i>
11.003.4	corpo in ottone, guarnizioni in VITON <i>valve body in brass, seals in VITON</i>
11.005.4	corpo in ottone nichelato, guarnizioni in NBR <i>valve body in nickel plated brass, seals in NBR</i>
11.030.4	corpo in ottone nichelato, guarnizioni in VITON <i>valve body in nickel plated brass, seals in VITON</i>
11.028.4	corpo in ottone, guarnizioni in NBR, senza molla <i>valve body in brass, seals in NBR, without spring</i>
11.037.4	corpo in ottone, guarnizioni in VITON, senza molla <i>valve body in brass, seals in VITON, without spring</i>
11.036.4	corpo in ottone, guarnizioni in NBR, molla tenera <i>valve body in brass, seals in NBR, light duty spring</i>
11.033.4	corpo in ottone, guarnizioni in VITON, molla tenera <i>valve body in brass, seals in VITON, light duty spring</i>
11.040.4	corpo in ottone, guarnizioni in VITON, molla dura <i>valve body in brass, seals in VITON, heavy duty spring</i>

VNR 1/4 MF

valvola di non ritorno maschio-femmina 1/4"
non-return valve male-female 1/4"



Versioni disponibili - Available versions

codice - code	descrizione - description
11.047.4	standard: corpo in ottone, guarnizioni in NBR <i>standard: valve body in brass, seals in NBR</i>
11.048.4	corpo in ottone nichelato, guarnizioni in NBR <i>valve body in nickel plated brass, seals in NBR</i>
11.059.4	corpo in ottone nichelato, guarnizioni in VITON <i>valve body in nickel plated brass, seals in VITON</i>

elementi logici

logic elements



- Ampia gamma
Wide range
- Dimensioni ridotte
Small dimensions
- Possibilità di montaggio su squadretta di supporto
Mountable on bracket
- Attacchi filettati M5 o raccordi automatici per tubo $\varnothing 4$
M5 threaded ports or push-in fittings for $\varnothing 4$ tube



Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

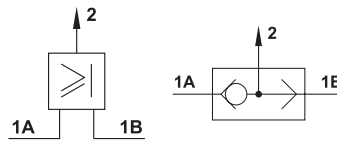
Seals: NBR

Internal parts: brass OT58

Diametro nominale <i>Nominal orifice</i>	2.5 mm
Portata nominale a 6 bar <i>Nominal flow rate at 6 bar</i>	100 Nl/min
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>

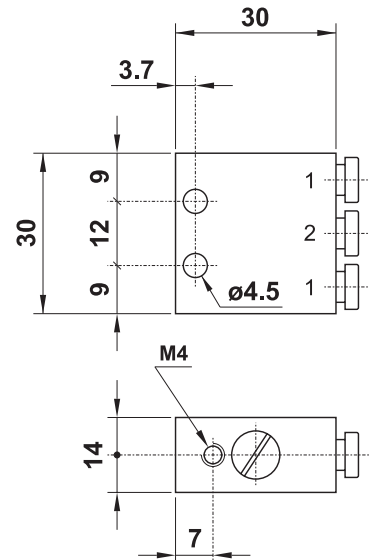
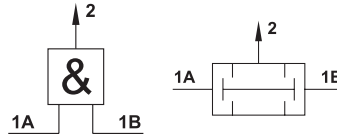
08.021.4 - OR PER LOGICA

elemento OR, raccordi automatici per tubo $\varnothing 4$, fissabile su squadretta
OR element, push-in fittings for $\varnothing 4$ tube, mountable on bracket



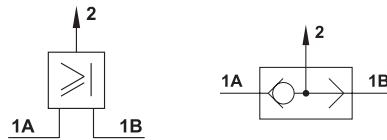
08.025.4 - AND PER LOGICA

elemento AND, raccordi automatici per tubo $\varnothing 4$, fissabile su squadretta
AND element, push-in fittings for $\varnothing 4$ tube, mountable on bracket



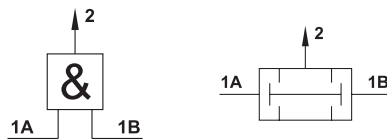
08.022.4 - OR SINGOLO M5

elemento OR, attacchi filettati M5
OR element, M5 threaded ports



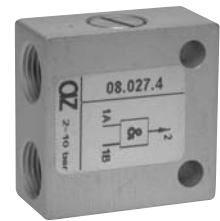
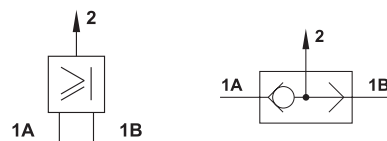
08.026.4 - AND SINGOLO M5

elemento AND, attacchi filettati M5
AND element, M5 threaded ports



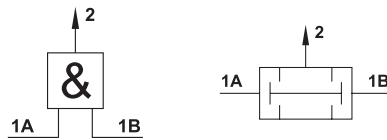
08.023.4 - OR SINGOLO 1/8

elemento OR, attacchi filettati G1/8"
OR element, G1/8" threaded ports

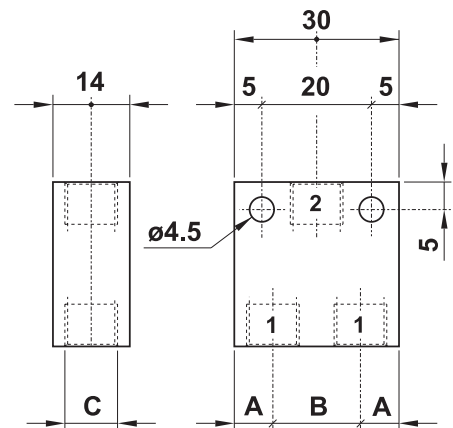


08.027.4 - AND SINGOLO 1/8

elemento AND, attacchi filettati G1/8"
AND element, G1/8" threaded ports

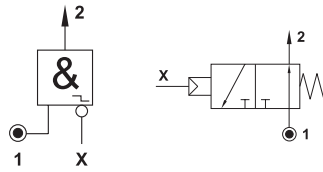


Modello Model	A	B	C
08.022.4	5.2	19.6	M5
08.026.4	5.2	19.6	M5
08.023.4	7	16	G1/8"
08.027.4	7	16	G1/8"



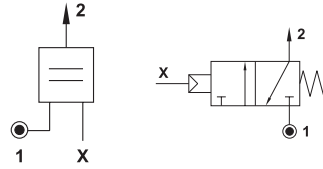
08.039.4 - NOT PER LOGICA

elemento NOT, raccordi automatici per tubo $\varnothing 4$, fissabile su squadretta
NOT element, push-in fittings for $\varnothing 4$ tube, mountable on bracket



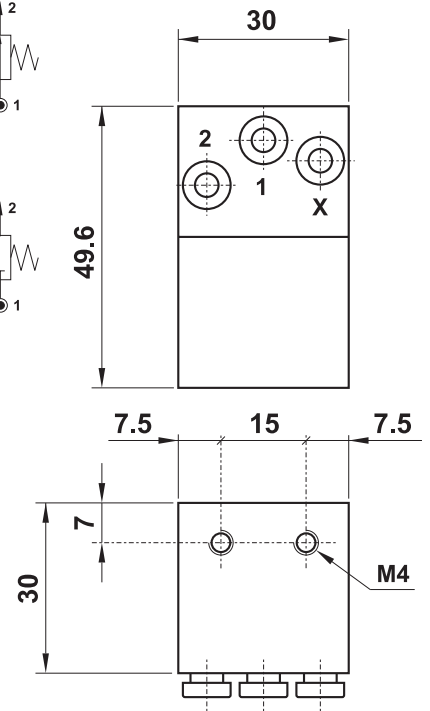
08.049.4 - YES PER LOGICA

elemento YES, raccordi automatici per tubo $\varnothing 4$, fissabile su squadretta
YES element, push-in fittings for $\varnothing 4$ tube, mountable on bracket



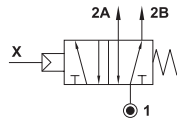
Pressione di azionamento a 6 bar
Actuating pressure at 6 bar

08.039.4 : 1.2 bar
08.049.4 : 1 bar



04.003.4 - MEMORIA C/M

MEMORIA monostabile, raccordi automatici per tubo $\varnothing 4$
mono-stable MEMORY element, push-in fittings for $\varnothing 4$ tube

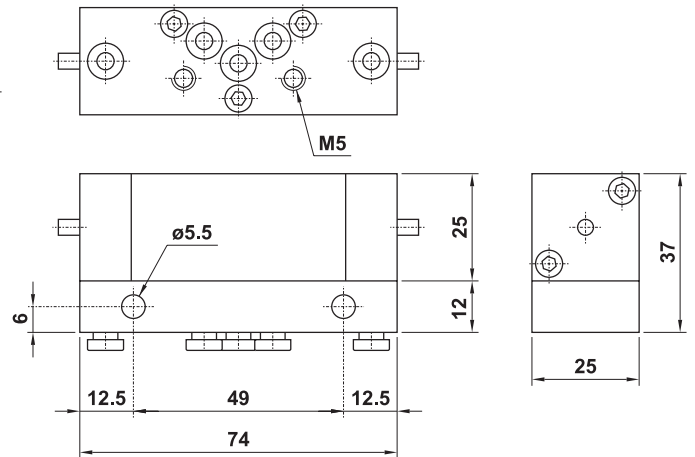
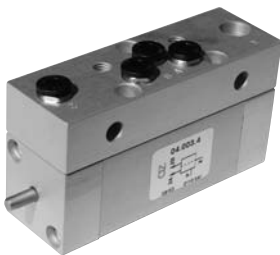
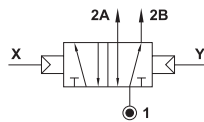


Pressione di azionamento a 6 bar
Actuating pressure at 6 bar

04.002.4 : 1.5 bar
04.003.4 : 2 bar

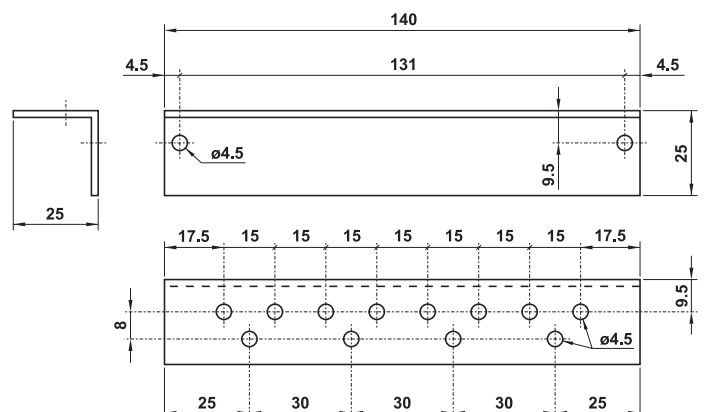
04.002.4 - MEMORIA C/C

MEMORIA bistabile, raccordi automatici per tubo $\varnothing 4$
bi-stable MEMORY element, push-in fittings for $\varnothing 4$ tube



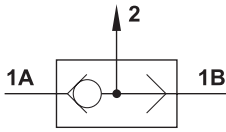
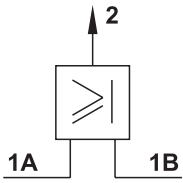
08.092.1 - SQUADRETTA

squadretta per il fissaggio degli elementi logici
mounting bracket for logic elements



OR in linea

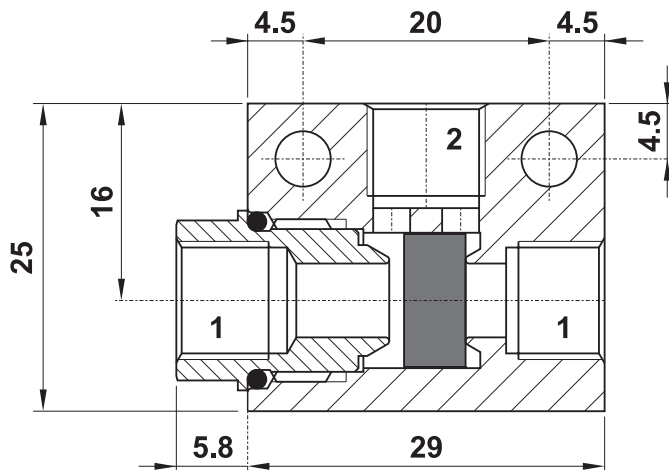
in-line OR logic element



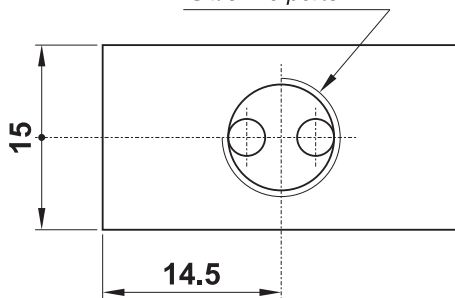
G1/8"

CODICE DI ORDINAZIONE
ORDER CODE

08.133.4



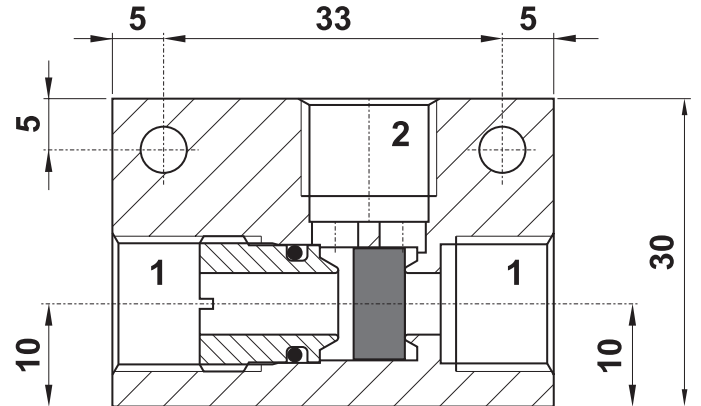
n. 3 fori G1/8"
G1/8" - 3 ports



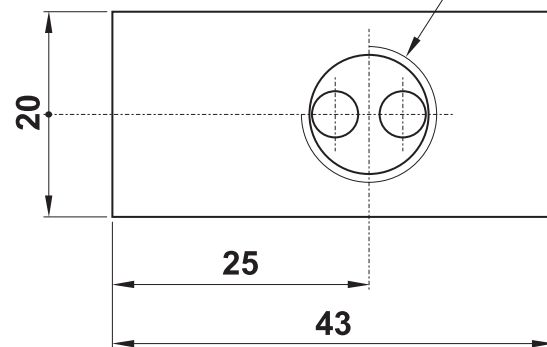
G1/4"

CODICE DI ORDINAZIONE
ORDER CODE

08.127.4



n. 3 fori G1/4"
G1/4" - 3 ports



Materiali

Corpo: alluminio 11S

Parti interne: ottone OT58

Guarnizioni: NBR

Materials

Valve body: aluminium 11S

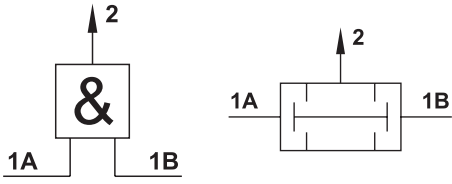
Internal parts: brass OT58

Seals: NBR

Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

AND in linea

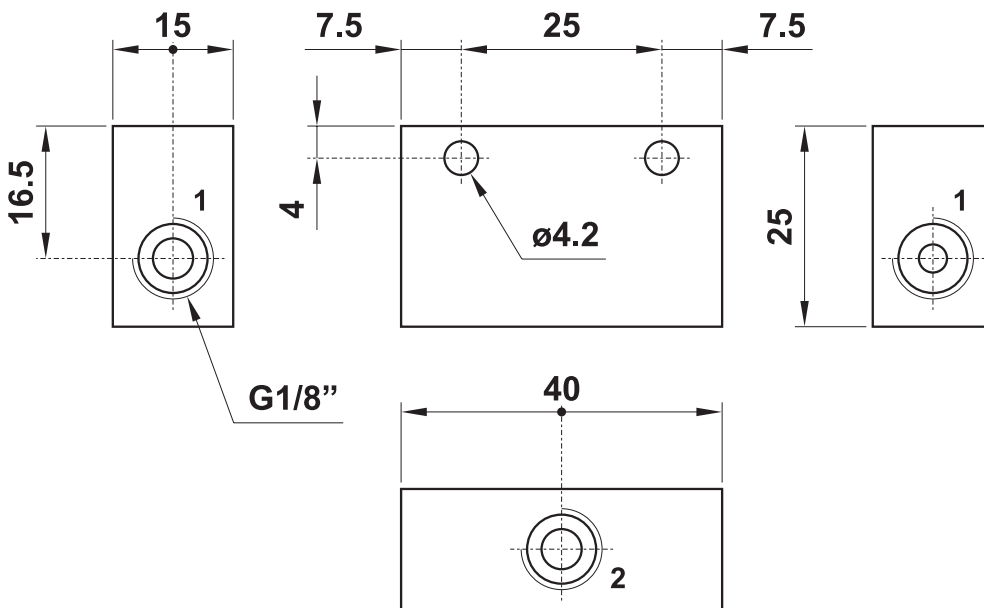
in-line AND logic element



G1/8"

CODICE DI ORDINAZIONE
ORDER CODE

08.121.4



Materiali
Corpo: alluminio 11S
Parti interne: ottone OT58
Guarnizioni: NBR

Materials
Valve body: aluminium 11S
Internal parts: brass OT58
Seals: NBR

Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

valvole di scarico rapido

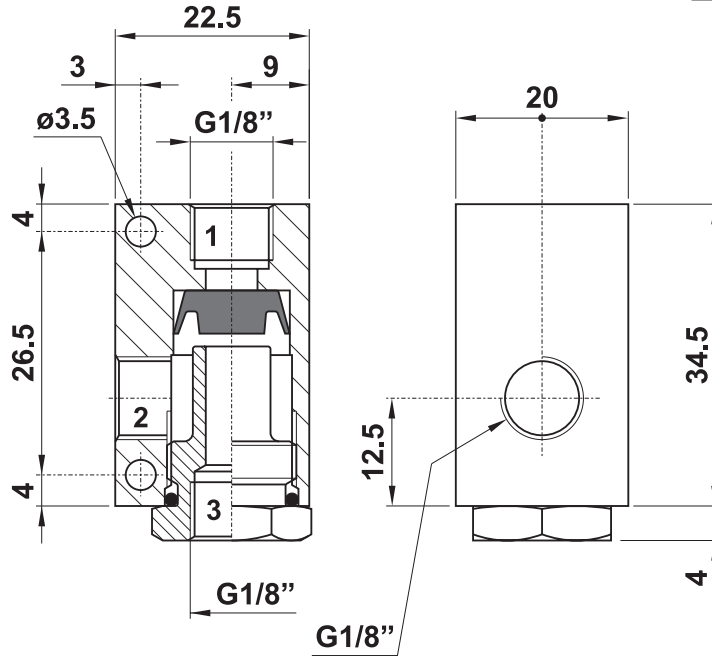
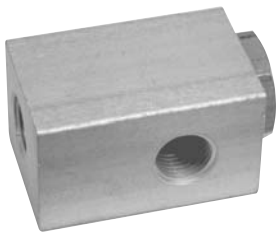
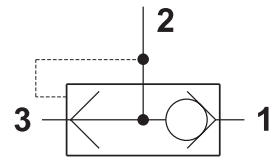
quick exhaust valves



G1/8"

CODICE DI ORDINAZIONE
ORDER CODE

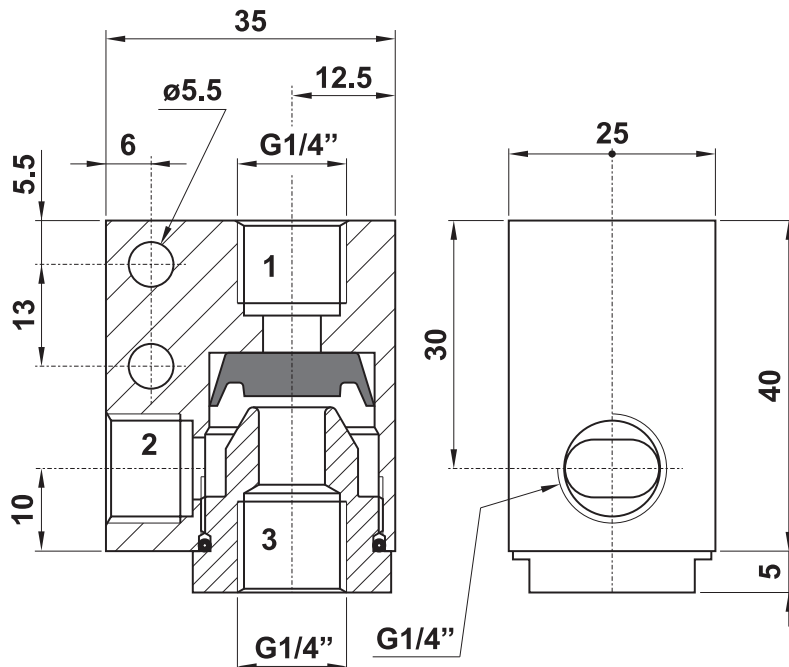
08.180.4



G1/4"

CODICE DI ORDINAZIONE
ORDER CODE

08.181.4



Materiali

Corpo: alluminio 11S

Parti interne: ottone OT58

Guarnizioni: NBR

Materials

Valve body: aluminium 11S

Internal parts: brass OT58

Seals: NBR

Temperatura di esercizio Temperature range	max +60°C
Pressione di esercizio Working pressure	2 ... 10 bar 0.2 ... 1 MPa
Fluido Fluid	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

valvole di scarico rapido

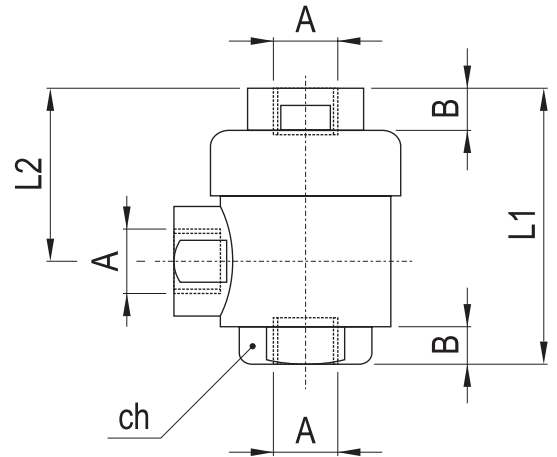
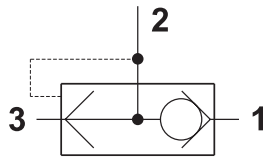
quick exhaust valves



G1/2"

CODICE DI ORDINAZIONE
ORDER CODE

36.625.0



A	B	L1	L2	ch	confez. package
G1/2"	14	71	44	26	10

Materiali

Corpo: ottone nichelato

Parti interne: ottone OT58

Guarnizioni: NBR

Materials

Valve body: nickeled brass

Internal parts: brass OT58

Seals: NBR

Attacchi <i>Ports</i>	G1/2"
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

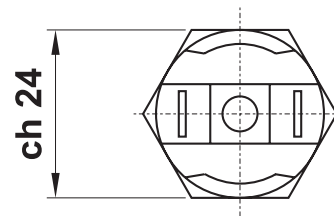
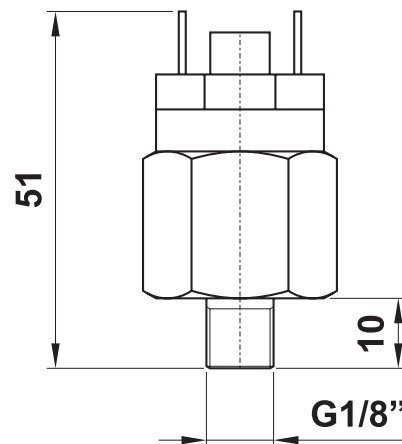
pressostati

pressure switches



CODICI DI ORDINAZIONE - ORDER CODES	
NC (NC)	NA (NO)
17.005.0	17.004.0

Temperatura di esercizio <i>Temperature range</i>	max +60°C
Campo di taratura <i>Setting range</i>	1 ... 10 bar 0.1 ... 1 MPa
Tolleranza a 20°C <i>Tolerance at 20°C</i>	0.5 bar 0.05 MPa
Tensione massima <i>Max. tension</i>	48V AC
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>



Materiali

Corpo: ottone OT 58
Membrana: gomma FKM
Contatti: argentati

Materials

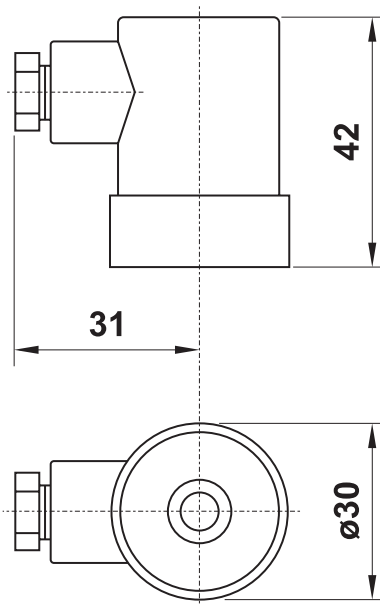
Body: brass OT 58
Diaphragm: rubber FKM
Electrical contacts: silver plated

cappucci

caps

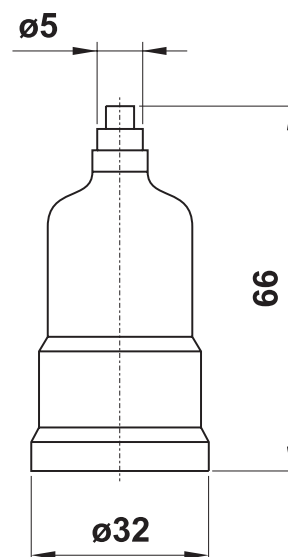
IP 65

17.007.0



IP 54

17.008.0



pressostati

pressure switches



CODICE DI ORDINAZIONE - ORDER CODE
NC-NA [NC-NO]
17.011.0

Temperatura di esercizio <i>Temperature range</i>	max +60°C
Campo di taratura <i>Setting range</i>	1 ... 10 bar 0.1 ... 1 MPa
Tolleranza a 20°C <i>Tolerance at 20°C</i>	0.5 bar 0.05 MPa
Tensione massima <i>Max. tension</i>	250V AC
Isteresi standard <i>Standard hysteresis</i>	10%
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

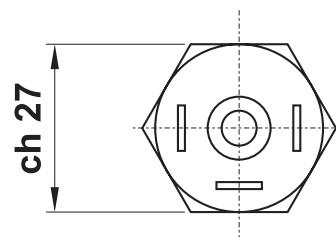
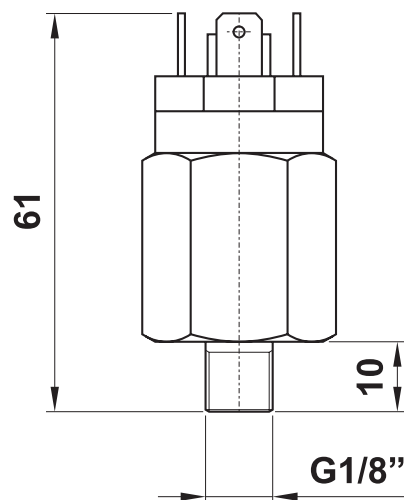
L'isteresi è regolabile fino al 30%.
The hysteresis can be adjusted, max 30%.

Materiali

Corpo: ottone OT 58
Membrana: gomma FKM
Contatti: argentati

Materials

Body: brass OT 58
Diaphragm: rubber FKM
Electrical contacts: silver plated



2

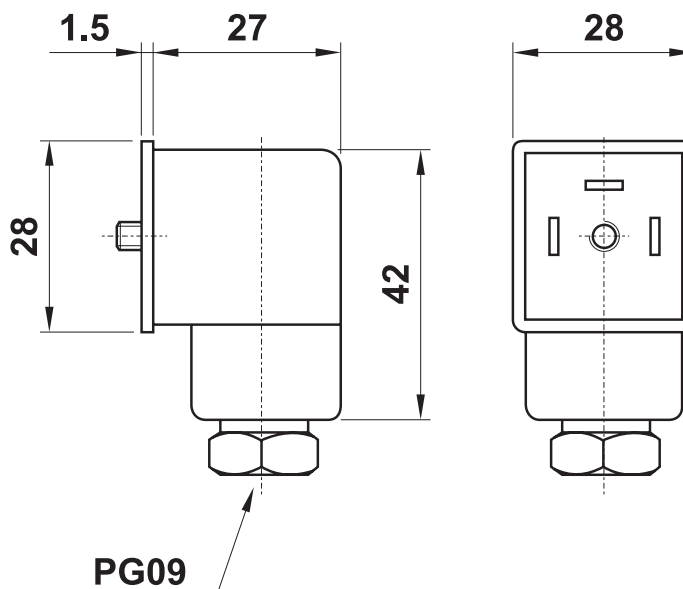
cappucci

caps

IP 65

17.012.0

Da utilizzare con il pressostato 17.011.0
To be used with pressure switch 17.011.0



CODICE DI ORDINAZIONE - ORDER CODE
NC-NA [NC-NO]
17.006.0

Temperatura di esercizio <i>Temperature range</i>	max +60°C
Campo di taratura <i>Setting range</i>	1 ... 10 bar 0.1 ... 1 MPa
Tolleranza a 20°C <i>Tolerance at 20°C</i>	0.2 bar 0.02 MPa
Tensione massima <i>Max. tension</i>	250V AC
Grado di protezione <i>Protection degree</i>	IP 65
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

Il prodotto è fornito con connettore.
The product is sold with connector.

Materiali

Corpo: alluminio anodizzato e AVP passivato

Membrana: gomma FKM

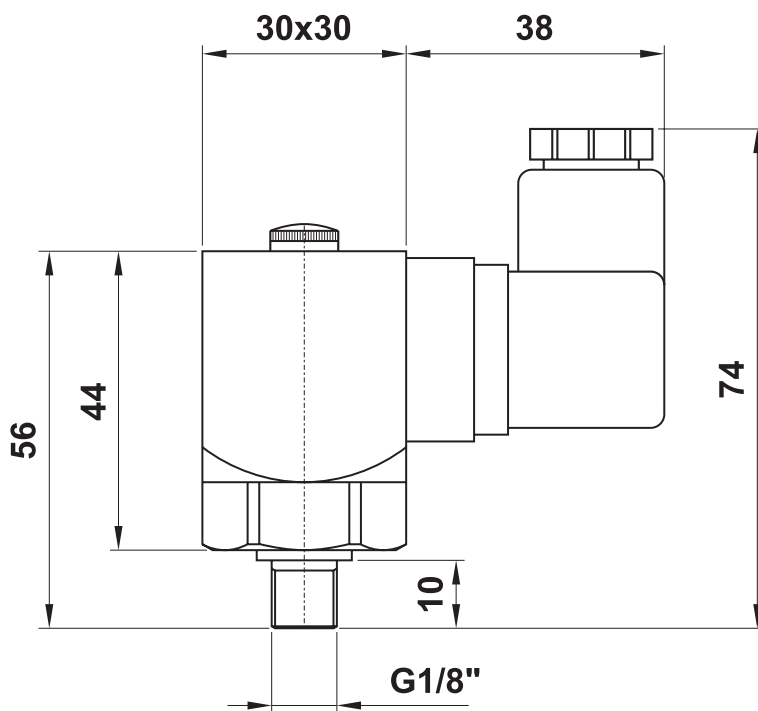
Scatola elettrica: alluminio anodizzato

Materials

Body: aluminium and iron AVP

Diaphragm: rubber FKM

Electrical box: aluminium (anodize treatment)

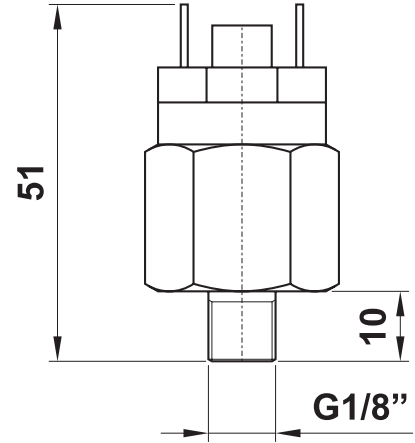


vuotostati

vacuum switches



CODICI DI ORDINAZIONE - ORDER CODES	
NC (NC)	NA (NO)
17.010.0	17.009.0



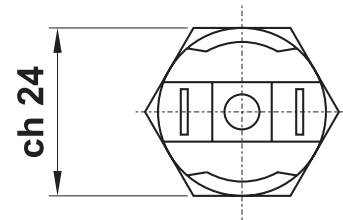
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Campo di taratura <i>Setting range</i>	-0.2 ... -0.9 bar -0.02 ... -0.09 MPa
Tolleranza a 20°C <i>Tolerance at 20°C</i>	0.1 bar 0.01 MPa
Tensione massima <i>Max. tension</i>	48V AC
Fluido <i>Fluid</i>	Aria filtrata 50μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>

Materiali

Corpo: ottone OT58
Membrana: gomma FKM
Contatti: argentati

Materials

Body: brass OT58
Diaphragm: rubber FKM
Electrical contacts: silver plated

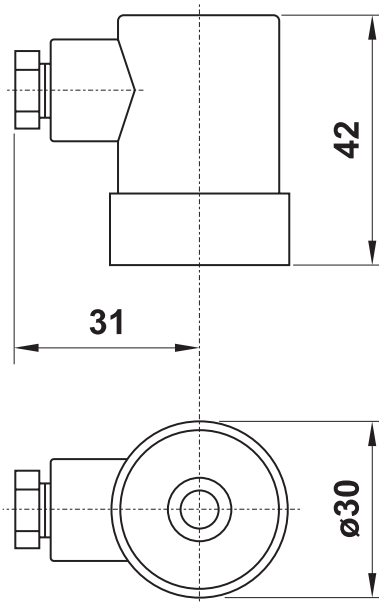


cappucci

caps

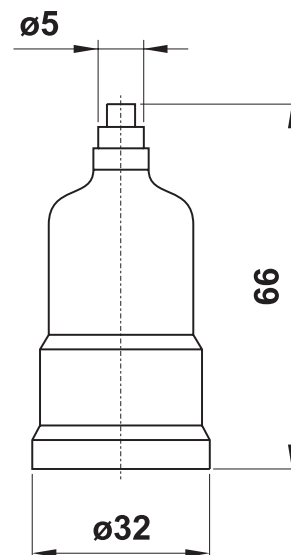
IP 65

17.007.0



IP 54

17.008.0



trasduttore pneumo-elettrico

pressure switches

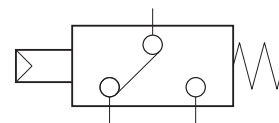


Permette di trasformare un segnale pneumatico in un segnale elettrico. L'interruttore dispone sia del contatto normalmente aperto sia di quello normalmente chiuso.

Su richiesta disponibile anche in versione passa parete (codice 03.025.4).

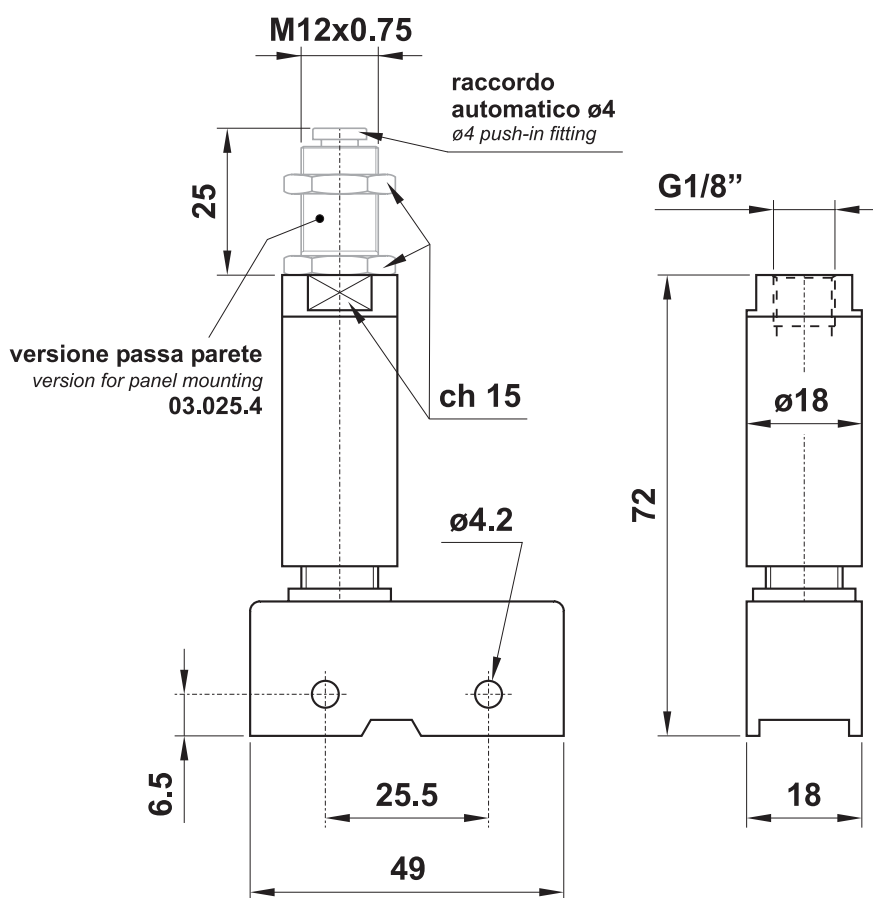
It can be used to change a pneumatic signal into an electric signal. The switch has both the normally open and the normally closed contact.

On request available for panel mounting (order code 03.025.4).



CODICE DI ORDINAZIONE
ORDER CODE

TRP 8



parametri di impiego
utilization parameters

DC

V	24	125	250
A	6	1.1	0.4

AC 50-60 Hz

V	24	120	250
A	7	6	5

durata cicli	10.000.000	life time (cycles)
frequenza massima (cicli/ora)	6000	max frequency (cycles/hour)
grado di isolamento IP con protezione montata	IP 40	IP degree with mounted protection cover
tensione di isolamento	250 V ~	rated insulation voltage
corrente nominale termica	16 A	rated thermal current
protezione contro i corto circuiti (fusibile)	16 A	protection against short circuits (fuse)

Il trasduttore è fornito con il cappuccio di protezione per il contatto elettrico.

The switch is supplied with the protection cover for the electric contact.

Attacchi <i>Ports</i>	G1/8"
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

regolatori di scarico

exhaust regulators



con silenziatore with silencer



Materiali

Ottone OT 58

Molla: acciaio zincato

Guarnizioni: NBR (max +60°C)

Silenziatore: bronzo sinterizzato

Materials

Brass OT 58

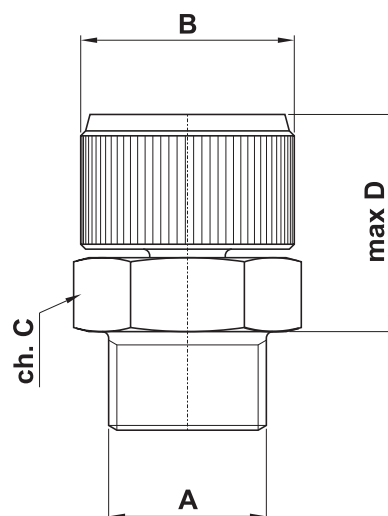
Spring: zinc-coated steel

Seals: NBR (max +60°C)

Silencer: sintered bronze



modello model	A	B	C	D
RSW 1/8	G1/8"	ø13	12	22
RSW 1/4	G1/4"	ø16	16	19
RSW 3/8	G3/8"	ø20	20	20
RSW 1/2	G1/2"	ø26	26	22



regolazione di precisione precision regulation



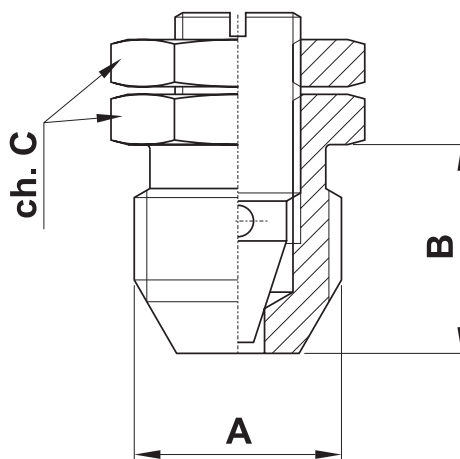
Materiale

Ottone OT 58

Material

Brass OT 58

modello model	A	B	C
RSTC 1/8	G1/8"	11	12
RSTC 1/4	G1/4"	13.3	14

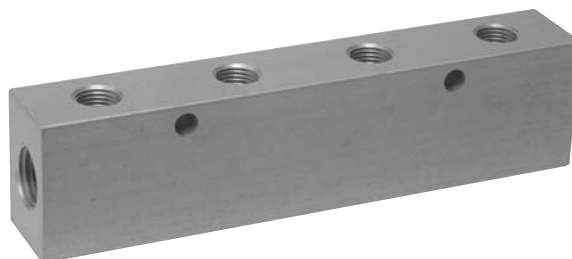


collettori

distribution manifolds



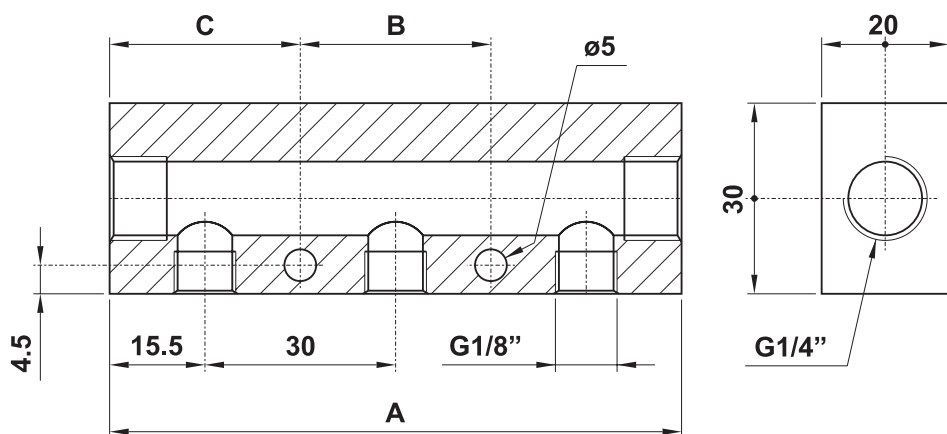
- Collettori lineari con uscite G1/8" o G1/4"
In-line manifolds with G1/8" or G1/4" user ports
- Blocchetti a 4 fori
Four port manifolds
- Collettori speciali a richiesta
Special manifolds on request
- Materiale: alluminio anodizzato
Material: aluminium (anodize treatment)



2

collettori 1/8" con foro passante 1/4"

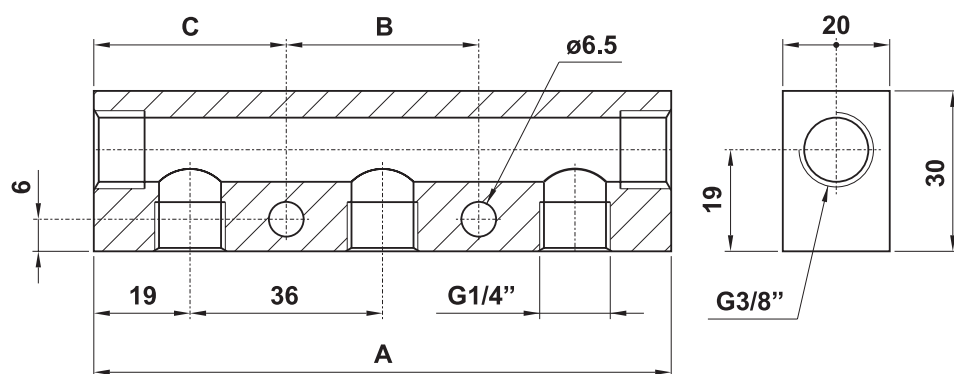
in-line manifolds with 1/8" user ports and 1/4" feed ports



modello model	n. fori no. ports	A	B	C
AU.002.1	2	61	50	5.5
AU.003.1	3	91	30	30.5
AU.004.1	4	121	60	30.5
AU.005.1	5	151	90	30.5
AU.006.1	6	181	120	30.5

collettori 1/4" con foro passante 3/8"

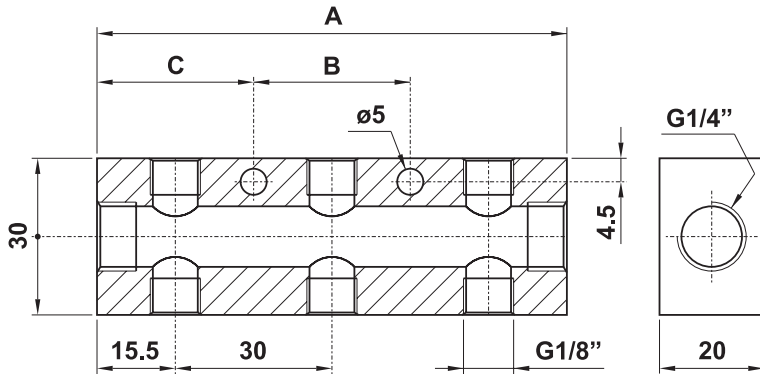
in-line manifolds with 1/4" user ports and 3/8" feed ports



modello model	n. fori no. ports	A	B	C
AU.011.1	2	74	61	6.5
AU.013.1	3	110	36	37
AU.014.1	4	146	72	37
AU.015.1	5	182	108	37
AU.016.1	6	218	144	37

collettori doppi 1/8" con foro passante 1/4"

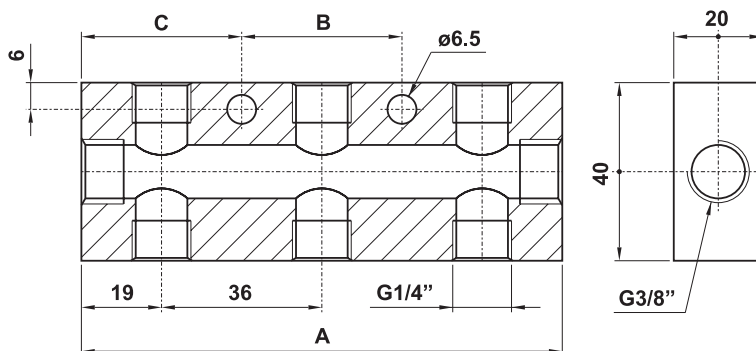
in-line double manifolds with 1/8" user ports and 1/4" feed ports



modello model	n. fori no. ports	A	B	C
AU.000.1	2	61	50	5.5
AU.001.1	3	91	30	30.5
AU.008.1	4	121	60	30.5
AU.009.1	5	151	90	30.5

collettori doppi 1/4" con foro passante 3/8"

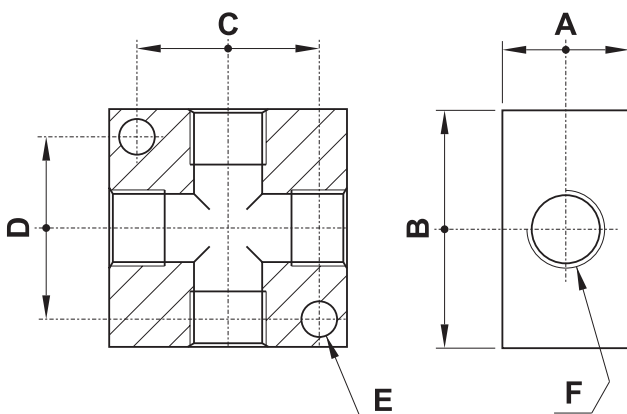
in-line double manifolds with 1/4" user ports and 3/8" feed ports



modello model	n. fori no. ports	A	B	C
AU.022.1	2	74	61	6.5
AU.023.1	3	110	36	37
AU.024.1	4	146	72	37
AU.025.1	5	182	108	37
AU.027.1	6	218	144	37

blocchetti 4 fori

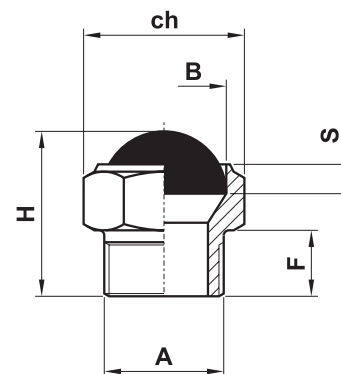
four port manifolds



modello model	A	B	C	D	E	F
AU.017.1	10	20	12	12	4.5	M5
AU.018.1	16	30	23	22	4.5	G1/8"
AU.019.1	20	40	30	27	5.5	G1/4"
AU.021.1	25	50	38	39	6.5	G3/8"
AU.020.1	25	50	38	39	6.5	G1/2"

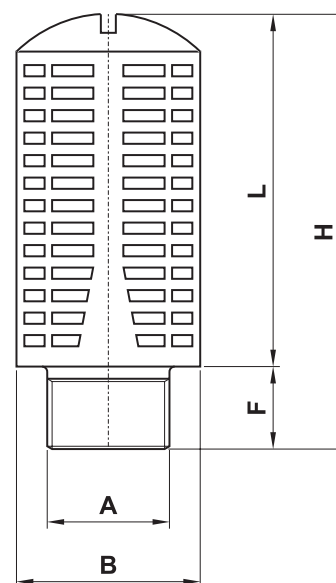
AZ-SFE

modello model	A	B	ch	S	F	H
AZ-SFE1	M5	ø6.5	8	3	3.5	8
AZ-SFE2	G1/8"	ø11	13	4	6	16
AZ-SFE3	G1/4"	ø14	16	4	8	19
AZ-SFE4	G3/8"	ø17	19	4	9	21
AZ-SFE5	G1/2"	ø22	24	4	10	23



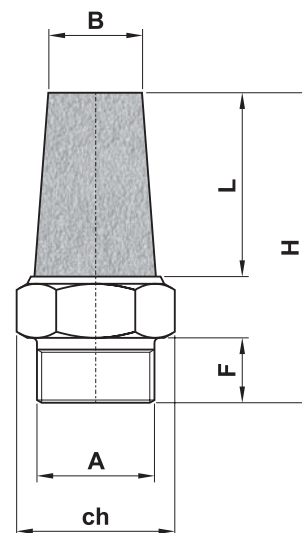
AZ-SPL

modello model	A	B	F	L	H
AZ-SPL2	G1/8"	ø15	6	26.5	32.5
AZ-SPL3	G1/4"	ø19.5	8	35	43
AZ-SPL4	G3/8"	ø24.5	11	47	58
AZ-SPL5	G1/2"	ø24.5	11	47	58



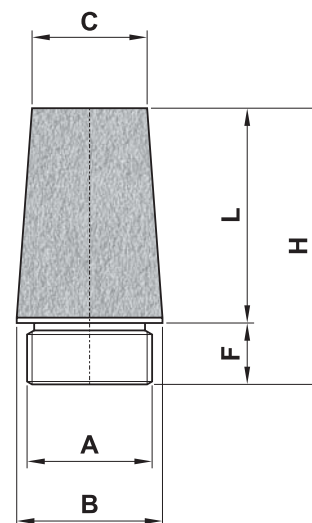
AZ-SE

modello model	A	B	ch	F	L	H
AZ-SE1	M5	ø5	8	4	14	22
AZ-SE2	G1/8"	ø7	13	6	16	29
AZ-SE3	G1/4"	ø9	16	8	16.5	32
AZ-SE4	G3/8"	ø13	19	9	25.5	43
AZ-SE5	G1/2"	ø16	24	11	33	53



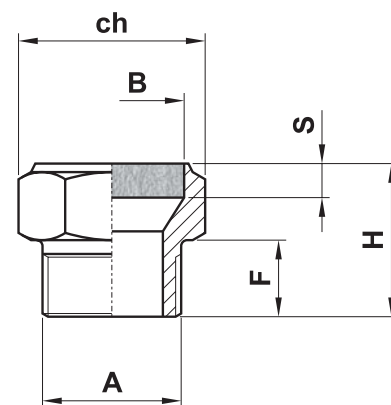
AZ-SC

modello model	A	B	C	F	L	H
AZ-SC1	M5	ø6	ø5	4.5	8.5	13
AZ-SC2	G1/8"	ø12	ø8	6	15	21
AZ-SC3	G1/4"	ø15	ø11	6	19	25
AZ-SC4	G3/8"	ø19	ø15	8	28	36
AZ-SC5	G1/2"	ø23	ø18	10	33	43



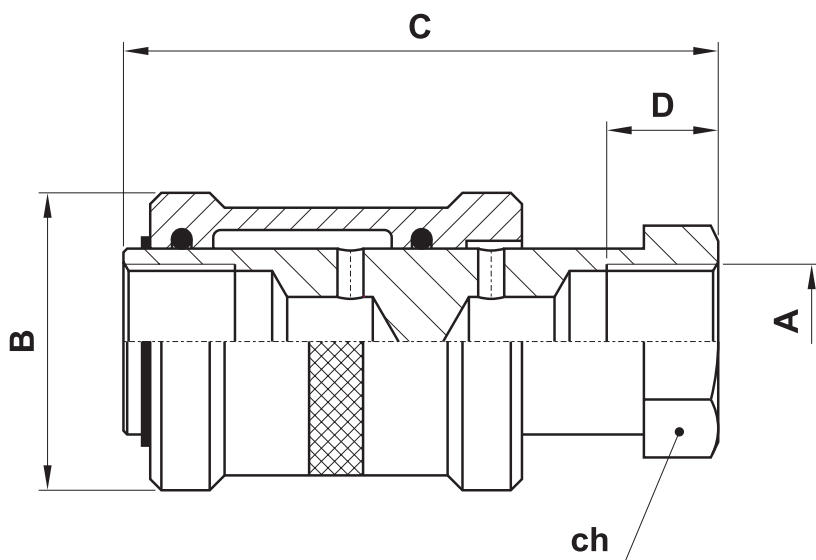
AZ-SEP

modello model	A	B	ch	F	S	H
AZ-SEP1	M5	ø6.5	8	3.5	3	8
AZ-SEP2	G1/8"	ø11	13	6	4	13
AZ-SEP3	G1/4"	ø14	16	8	4	16
AZ-SEP4	G3/8"	ø17	19	9	4	18
AZ-SEP5	G1/2"	ø22	24	11	4	20



valvole a corsoio

slide valves



2

modello model	A	B	C	D	ch
AZ-CRS1	G1/8"	ø25	48	10	14
AZ-CRS2	G1/4"	ø30	58	12	17
AZ-CRS3	G3/8"	ø35	68	12	22
AZ-CRS4	G1/2"	ø40	75	15	27

Materiali

Corpo: ottone OT58

Guarnizioni: NBR

Corsoio: alluminio 11S

Materials

Body: brass OT58

Seals: NBR

Slide: aluminium 11S

Attacchi Ports	G1/8"; G1/4"; G3/8"; G1/2"
Temperatura di esercizio Temperature range	max +60°C
Pressione di esercizio Working pressure	1 ... 10 bar 0.1 ... 1 MPa
Fluido Fluid	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air



	pagina <i>page</i>
• Avviatore progressivo <i>Slow-start valve</i>	226
• Flip-flop <i>Flip-flop</i>	228
• Oscillatore <i>Oscillating valve</i>	231
• Oscillatori con NOT <i>Oscillating valves with NOT logic elements</i>	235
• Valvola a due pressioni <i>Dual-pressure valve</i>	240
• Generatore di impulso normalmente aperto <i>Normally open impulse generator</i>	243
• Generatore di impulso normalmente chiuso <i>Normally closed impulse generator</i>	244
• Generatore di impulso fisso <i>Non adjustable impulse generator</i>	245
• Limitatore di pressione <i>Pressure limiter</i>	246
• Minioscillatore 3/2 G1/8" <i>Mini oscillating valve 3/2 G1/8"</i>	247
• Temporizzatore di potenza <i>High-flow pneumatic timer for automatic return</i>	248
• Temporizzatore ad azionamento differito <i>High-flow pneumatic timer for delayed actuation</i>	250
• Sicurezza bimanuale <i>Two-hand safety valve</i>	252
• Valvole di blocco a comando pneumatico <i>Pneumatically piloted stop valves</i>	254
• Valvole di blocco con RFU integrato <i>Pneumatically piloted stop valves with integrated RFU</i>	256
• Elemento integrato con RFU e valvola di scarico rapido <i>Integrated element with RFU and quick exhaust valve</i>	257
• Valvole a depressione <i>Vacuum generators</i>	258

avviatore progressivo

slow-start valve



Modalità di funzionamento

L'avviatore progressivo è una valvola compatta e precisa che consente di alimentare un circuito pneumatico in due fasi.

(a) Dopo aver attivato l'avviatore eccitando l'elettropilota **X**, viene fornita al circuito una pressione progressivamente crescente fino al limite fissato agendo sulla vite di regolazione **R** (max 4 bar). Il raggiungimento della pressione impostata si effettua nel tempo determinato con la vite di regolazione **S**.

(b) Raggiunta tale pressione, l'avviatore progressivo passa ad alimentare il circuito con la pressione fornita dalla rete. Questa commutazione avviene in modo automatico senza intervento dell'operatore.

Togliendo il comando elettrico di attivazione, l'avviatore progressivo consente lo scarico del circuito senza dover togliere l'alimentazione di rete al punto 1.

Valve operation

The slow-start valve is a very compact and sensitive valve which is designed to apply pressure to a pneumatic circuit in two phases.

(a) When the pilot solenoid valve (**X**) is energised a progressively increasing pressure is applied to the circuit over a period of time set by screw (**S**). The progressive start pressure is set by adjusting screw (**R** - max 4 bar).

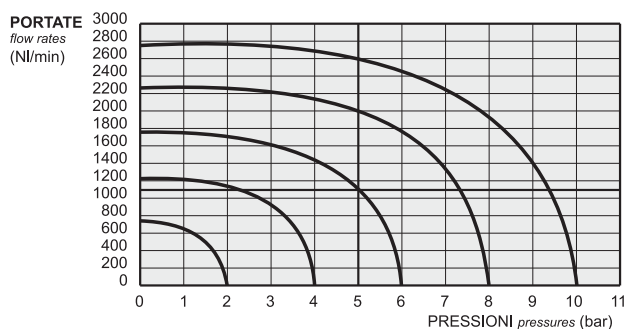
(b) Once the set pressure (screw **R**) has been reached, the slow-start valve begins to automatically feed the circuit with the system pressure.

When the solenoid is de-energised the system pressure is exhausted without disconnecting system pressure at point 1.

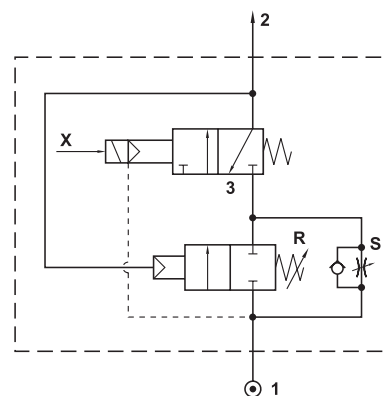
3

CODICE DI ORDINAZIONE
ORDER CODE

10.003.3



Attacchi <i>Ports</i>	G1/4"
Massima portata nella fase (a) <i>Maximum flow rate in the phase (a)</i>	300 NI/min
Portata nella fase (b) <i>Flow rate in the phase (b)</i>	vedi grafico <i>see graphic</i>
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>



Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spole: alluminio nichelato

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spools: nickel plated aluminium

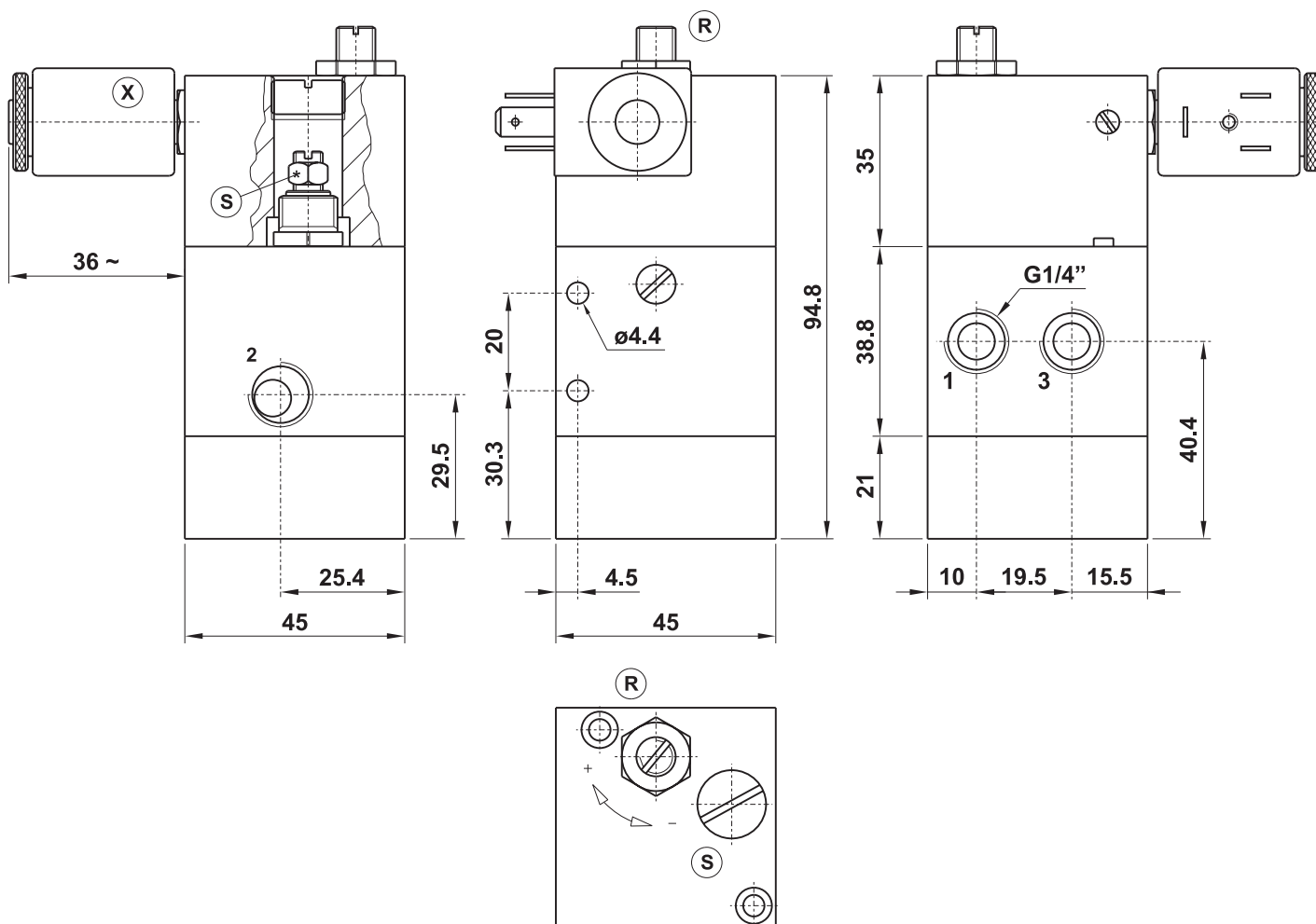
Internal parts: brass OT58

avviatore progressivo

slow-start valve



Il prodotto è venduto senza bobina, da acquistarsi separatamente (vedi pag. 242).
The product is sold without coil, which is bought separately (refer to page 242).



3

Modalità di funzionamento

È un dispositivo di potenza che, generando in sequenza due impulsi distinti, consente a un cilindro a doppio effetto o a un analogo impianto pneumatico di effettuare la fase di andata e ritorno.

Diversamente da una normale valvola a 5 vie, che ne ha due ("14" e "12"), il flip-flop presenta un unico punto di comando, a partire dal quale vengono generati gli impulsi relativi ad ambedue le fasi del ciclo del cilindro. Per il funzionamento del flip-flop è necessario dunque inviare un segnale di comando, pneumatico o elettrico, al punto X; questo segnale genera un solo impulso.

Il flip-flop non consente la ripetitività dell'impulso generato, ovvero non è possibile, perdurando il segnale di comando, produrre nuovi impulsi dopo il primo (a questo scopo è necessario inviare un nuovo segnale). Affinché il cilindro effettui un ciclo completo di andata e ritorno è pertanto necessario inviare al flip-flop due distinti segnali di comando.

In caso di blocco del flip-flop dovuto a un'interruzione di pressione è possibile ripristinarne la normale funzionalità tramite i due riarmi manuali.

Esistono due tipi di flip-flop:

cod. **10.035.4** L'impulso è attivato da un segnale pneumatico inviato al punto X. La pressione del segnale di comando può essere differente rispetto a quella utilizzata per azionare il cilindro.

cod. **10.018.3** L'impulso è attivato da un comando elettrico.

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spole: alluminio nichelato

Parti interne: ottone OT58

Valve operation

This is a high-flow device which, by applying a pilot pressure either pneumatic or electrical to point X, will, for example, extend and retract a double acting cylinder.

The "flip-flop" valve requires two pilot signals for a complete cycle: one momentary signal to extend the cylinder stroke and one momentary signal to retract. A maintained pilot signal will generate one half of the cycle. The valve will stay in this position until the signal is exhausted and then applied again.

In the event of pilot pressure failure or system maintenance a manual override facility is provided.

Two types of flip-flop valves are available:

code 10.035.4 The valve is actuated by applying a pneumatic signal to point X. The signal pressure can be different to the pressure at port 1.

code 10.018.3 The valve is actuated by an electrical signal.

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

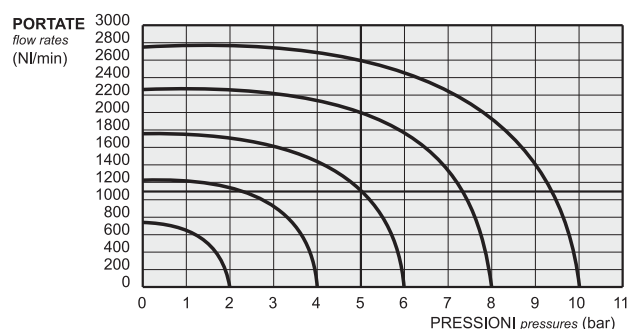
Spools: nickel plated aluminium

Internal parts: brass OT58

I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 242).

The following listed products are sold without coils, which are bought separately (refer to page 242).

Attacchi Parts	G1/4"
Pressione di esercizio Working pressure	3 ... 10 bar 0.3 ... 1 MPa
Pressione di azionamento pneumatico (X) Pneumatic actuating pressure (X)	2 ... 10 bar 0.2 ... 1 MPa
Temperatura di esercizio Temperature range	max +60°C
Fluido Fluid	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air



flip-flop

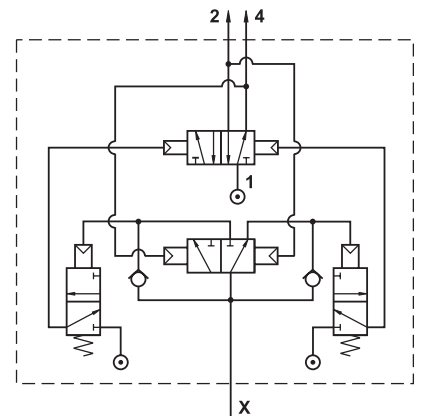
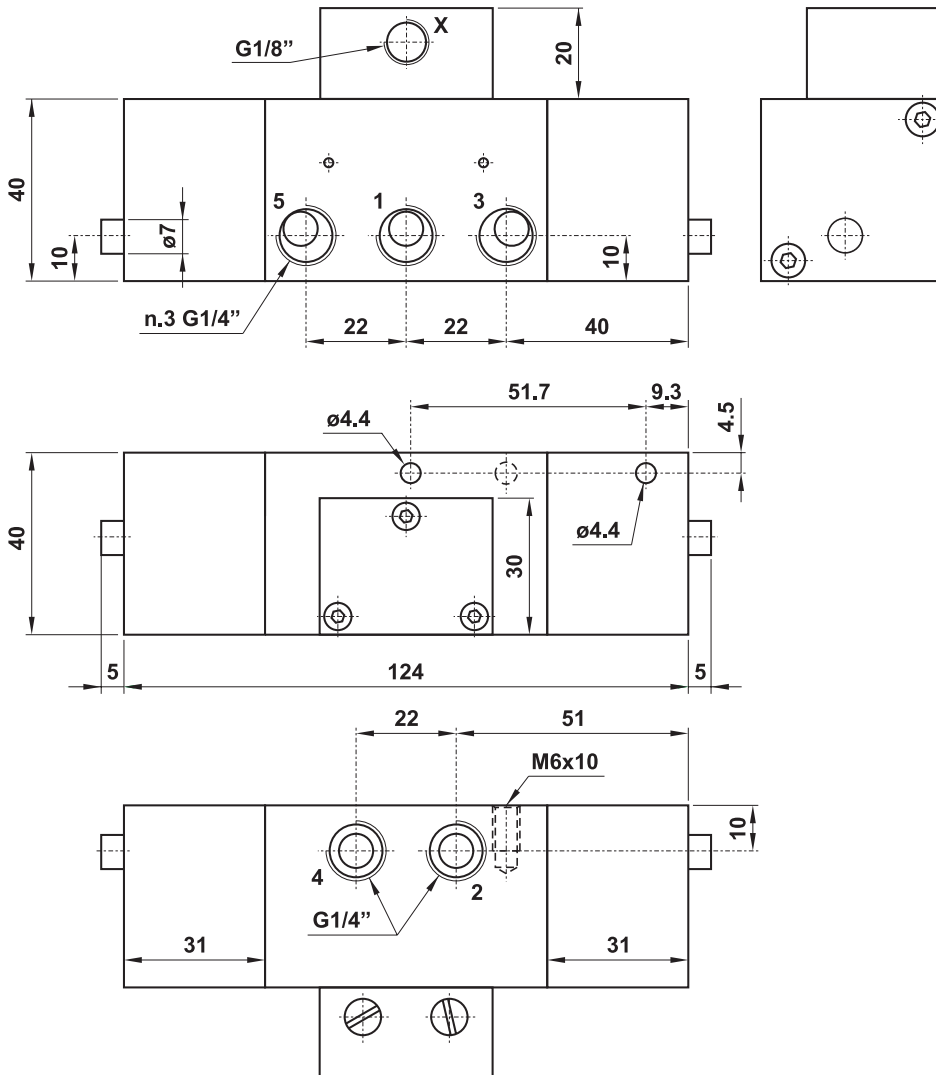
flip-flop



a comando pneumatico
pneumatically piloted

CODICE DI ORDINAZIONE
ORDER CODE

10.035.4



3

flip-flop

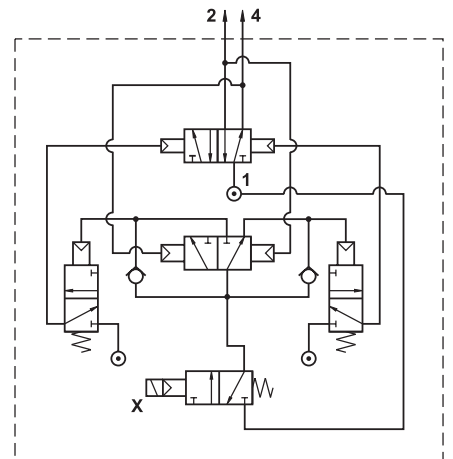
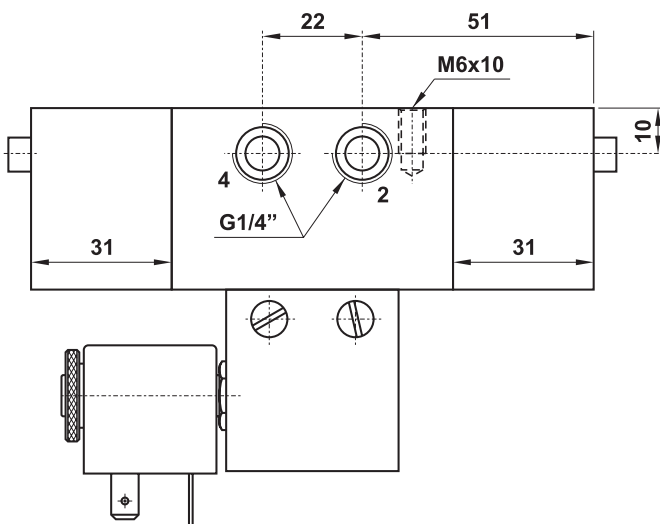
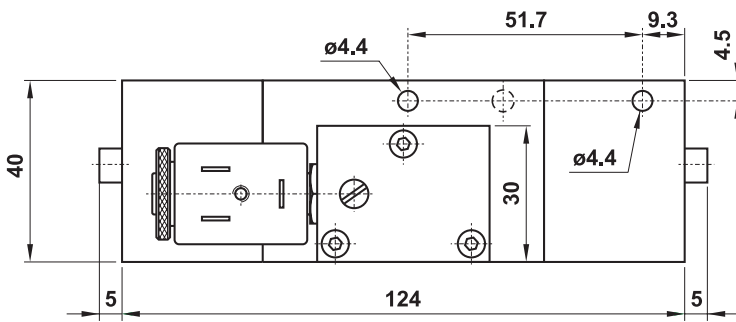
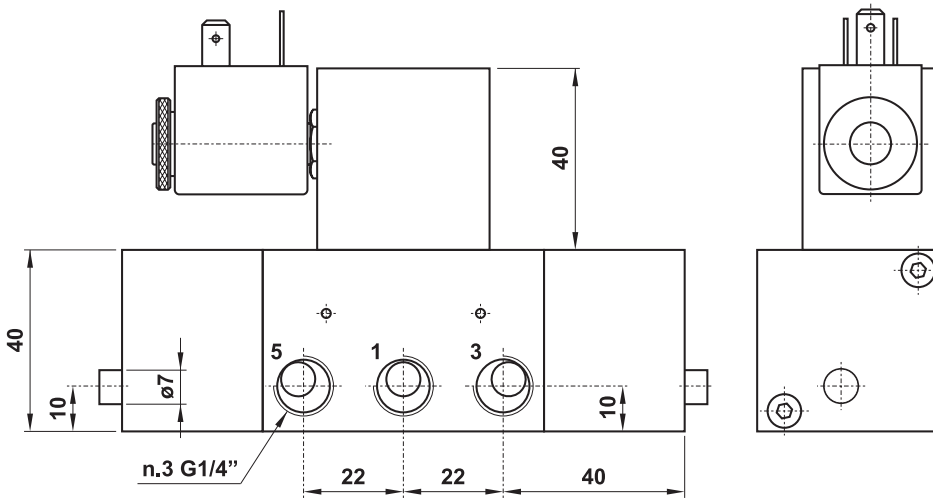
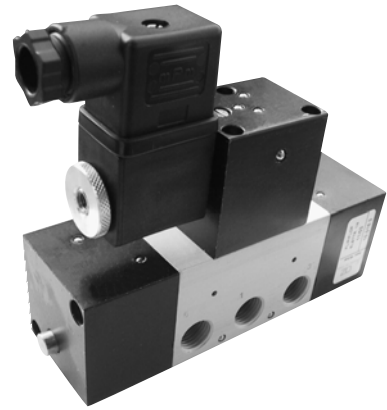
flip-flop



a comando elettrico
solenoid piloted

CODICE DI ORDINAZIONE
ORDER CODE

10.018.3



3



Modalità di funzionamento

È una valvola di potenza che consente a un cilindro a doppio effetto o a un analogo impianto pneumatico di effettuare la fase di andata e ritorno in modo automatico e senza l'ausilio di fine corsa. La frequenza con cui si susseguono le fasi è determinata agendo sulle due viti di regolazione collocate a un'estremità laterale dell'oscillatore e protette da un coperchio. Le viti di regolazione determinano l'una il tempo di sosta nello stato di riposo, l'altra il tempo di sosta nello stato di massima corsa. A richiesta la regolazione può essere effettuata a distanza collocando i regolatori a pannello.

In presenza di alimentazione di rete, l'oscillatore, essendo dotato di un dispositivo antistallo, non consente l'arresto del cilindro in una posizione casuale diversa dalle due terminali. Nel caso di mancanza della pressione di rete, al suo ripristino la valvola si pone immediatamente alla posizione di partenza.

Esistono tre tipi di oscillatore:

cod. **01.044.4** È il tipo più semplice. Per attivare le oscillazioni è sufficiente la pressione di rete.

cod. **01.046.4** Per rendere possibili le oscillazioni è necessario inviare e mantenere un segnale pneumatico di comando al punto **X**. La pressione del segnale di comando può essere differente rispetto a quella utilizzata per alimentare la valvola.

cod. **01.008.3** Le oscillazioni sono attivate da un comando elettrico con alimentazione separata. È necessaria quindi la presenza di aria al punto **X** e di un segnale elettrico all'elettropilota ivi situato. La pressione dell'aria al punto **X** può essere differente rispetto a quella utilizzata per alimentare la valvola.

Valve operation

It is a high-flow device which allows a double acting cylinder or analogue pneumatic equipment to automatically extend and retract without the need for limit switches. The frequency of the phases is set through the two adjusting screws which are placed at the end of the oscillating valve and protected by a cover. One screw is to set the retract dwell time and the other is to set the extend dwell time. On request the adjusting screws can be mounted on a panel in remote position.

When system pressure is applied or removed the valve automatically moves to the start position ensuring no device is left in a semi-actuated position.

Three types of oscillating valve are available:

code **01.044.4** Which requires system pressure only.

code **01.046.4** Which requires a constant pilot signal at point **X**. This pressure can be independent to the pressure at port **1**.

code **01.008.3** Oscillations are activated by an electrical signal with separate air supply. It is therefore necessary to apply to point **X** a pilot pressure (that can be of a different value to port **1**) and an electrical signal at the solenoid pilot.

I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 242).

The following listed products are sold without coils, which are bought separately (refer to page 242).

Attacchi Ports	G1/4"
Pressione di esercizio Working pressure	2 ... 10 bar 0.2 ... 1 MPa
Pressione di azionamento (X) Actuating pressure (X)	3 ... 10 bar 0.3 ... 1 MPa
Temperatura di esercizio Temperature range	max +60°C
Intervallo di regolazione Time regulation range	0 ... 15 s
Fluido Fluid	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spole: alluminio nichelato

Parti interne: ottone OT58

Materials

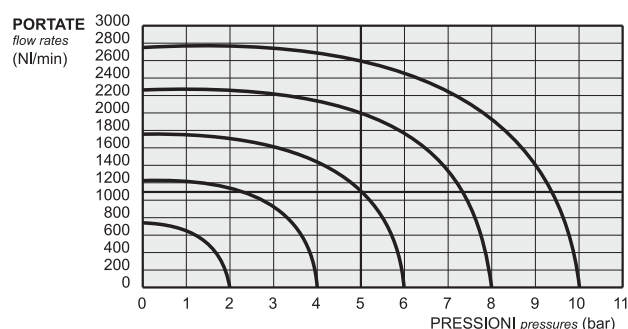
Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spools: nickel plated aluminium

Internal parts: brass OT58



oscillatore

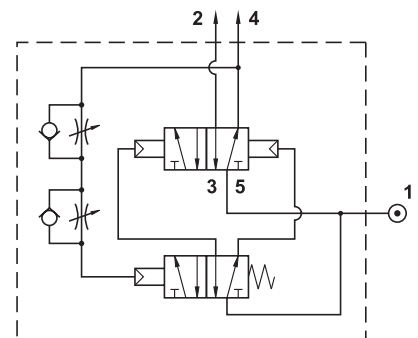
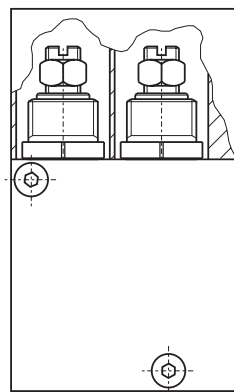
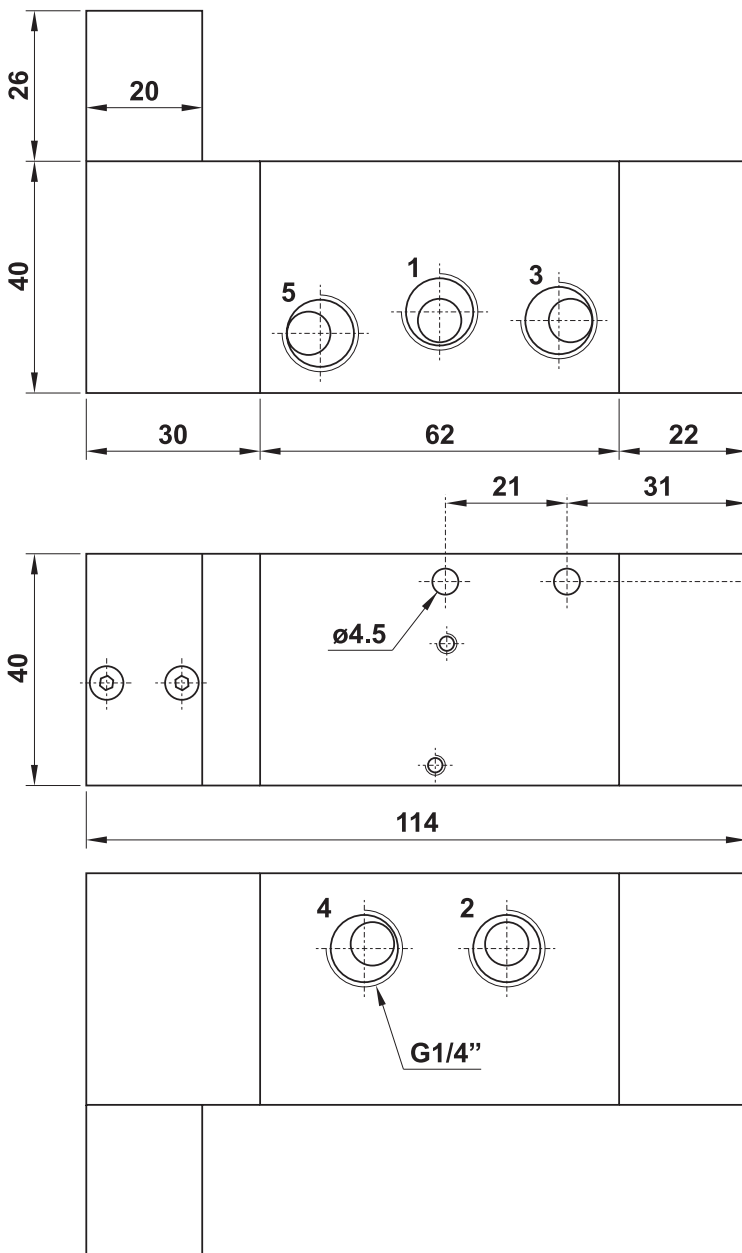
oscillating valve



a ciclo continuo
continuous cycle

CODICE DI ORDINAZIONE
ORDER CODE

01.044.4



oscillatore

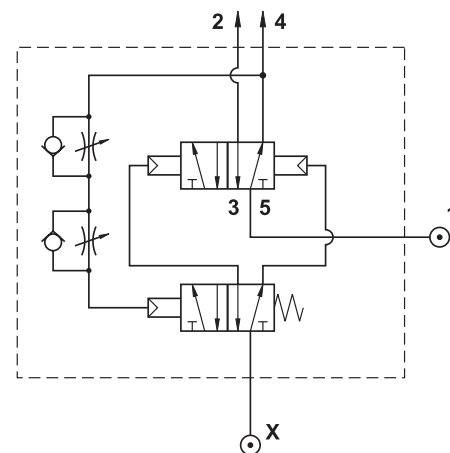
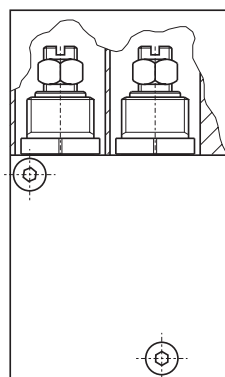
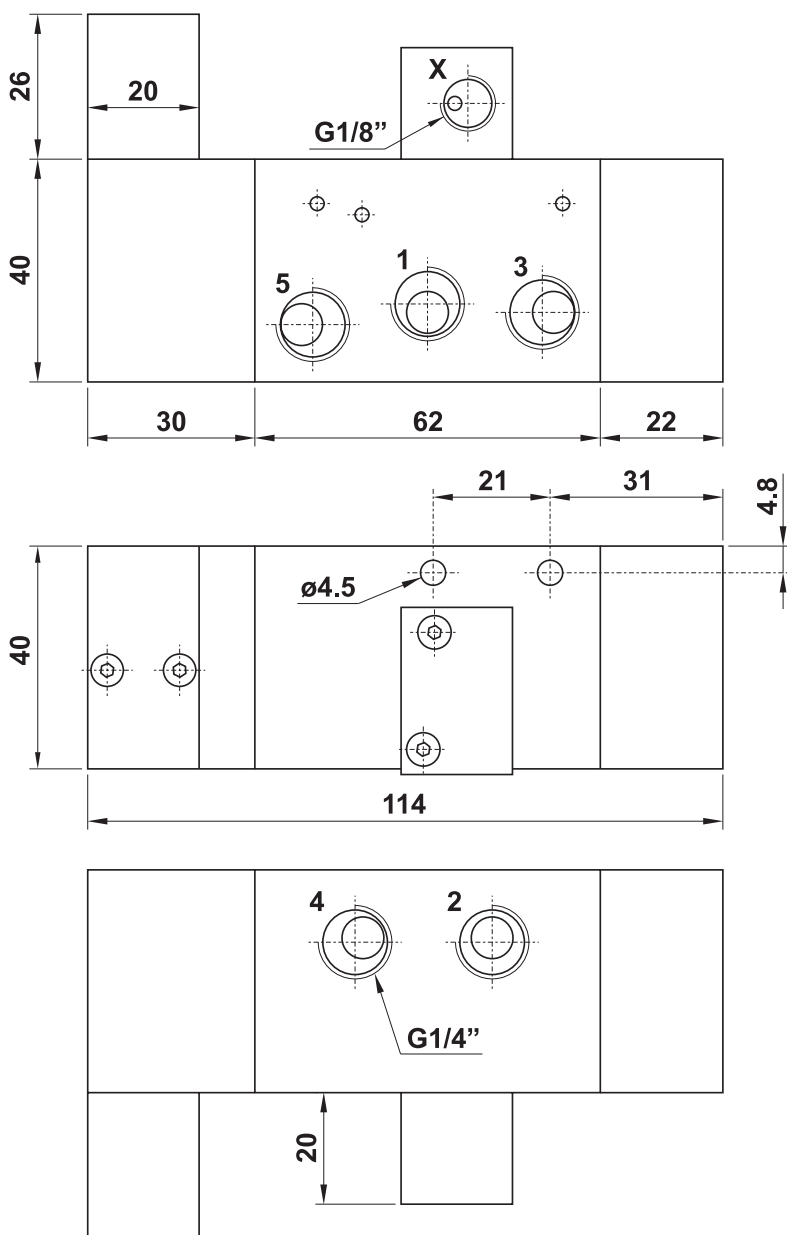
oscillating valve



a comando pneumatico
pneumatically piloted

CODICE DI ORDINAZIONE
ORDER CODE

01.046.4



3

oscillatore

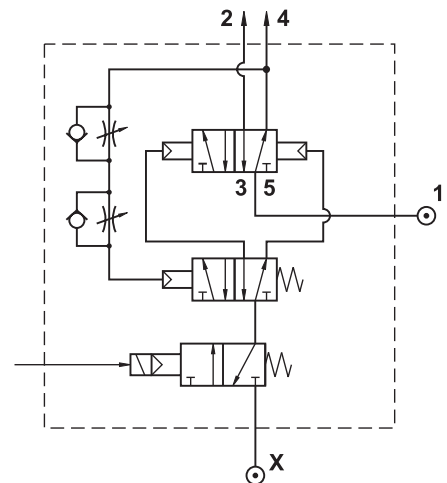
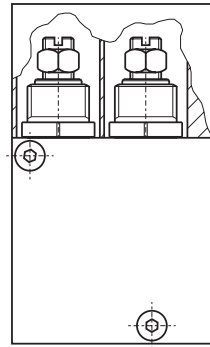
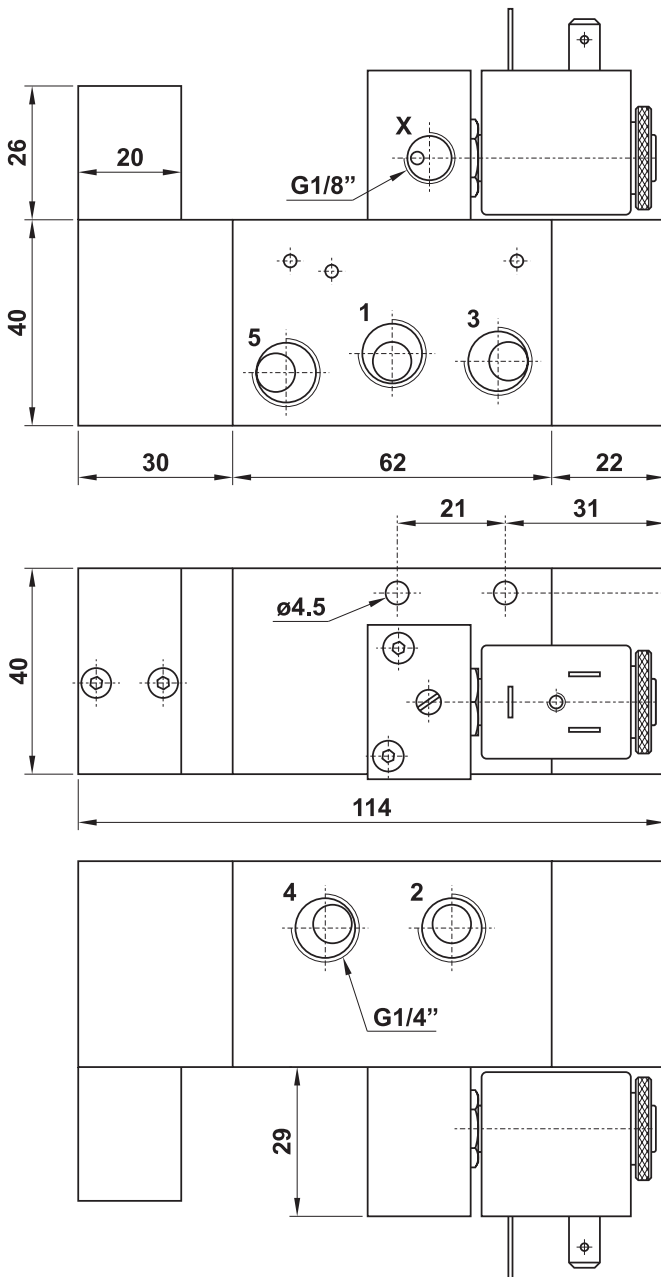
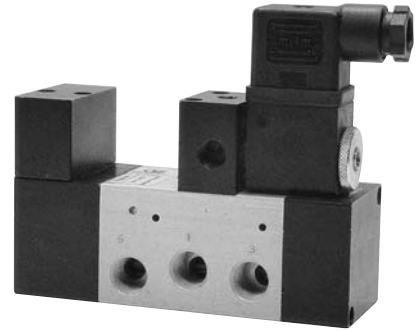
oscillating valve



a comando elettrico - alimentazione separata
solenoid pilot - separate air supply

CODICE DI ORDINAZIONE
ORDER CODE

01.008.3



3



Modalità di funzionamento

È una valvola di potenza che consente ad un cilindro a doppio effetto di effettuare la fase di andata e ritorno in modo automatico e senza l'ausilio di fine corsa.

La frequenza con cui si susseguono le fasi si determina regolando gli scarichi 3 e 5 con appositi regolatori, mod. RSW 1/8" e RSW 1/4" (da acquistare separatamente).

I riarmi manuali posti alle estremità dell'oscillatore ne consentono il ripristino qualora, per motivi accidentali, venga a trovarsi in una posizione intermedia di centro chiuso.

La presenza di una alimentazione esterna (X) consente al cilindro pneumatico di posizionarsi sempre nello stesso punto.

Qualora l'alimentazione al punto X venga meno in qualsiasi momento, il ciclo viene comunque completato.

Esistono quattro tipi di oscillatore, due a comando pneumatico e due a comando elettrico.

cod. **10.017.3** Oscillatore G1/8" con NOT a comando elettrico.

Le oscillazioni sono attivate dal comando elettrico.

In caso di cessazione del segnale elettrico di comando, la valvola si riposiziona al punto di partenza.

cod. **10.019.3** Oscillatore G1/4" con NOT a comando elettrico.

Le oscillazioni sono attivate dal comando elettrico.

In caso di cessazione del segnale elettrico di comando, la valvola si riposiziona al punto di partenza.

cod. **10.029.4** Oscillatore G1/8" con NOT a comando pneumatico.

Per rendere possibili le oscillazioni è necessario inviare e mantenere al punto X un segnale pneumatico di comando.

In caso di cessazione del segnale, la valvola si riposiziona al punto di partenza.

cod. **10.027.4** Oscillatore G1/4" con NOT a comando pneumatico.

Per rendere possibili le oscillazioni è necessario inviare e mantenere al punto X un segnale pneumatico di comando.

In caso di cessazione del segnale, la valvola si riposiziona al punto di partenza.

I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 242).

The following listed products are sold without coils, which are bought separately (refer to page 242).

Attacchi <i>Ports</i>	G1/8" - G1/4"
Pressione di esercizio <i>Working pressure</i>	2 ... 7 bar 0.2 ... 0.7 MPa
Pressione di azionamento (X) <i>Actuating pressure (X)</i>	3 ... 7 bar 0.3 ... 0.7 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

Valve operation

It is a high-flow device which allows a double acting cylinder or analogue pneumatic equipment to automatically extend and retract without the need for limit switches. The frequency of the phases is set by regulation of the exhausts 3 and 5 using RSW 1/8" and RSW 1/4", which are bought separately. When actuating signal is applied or removed the valve automatically moves to the start position ensuring no device is left in a semi-actuated position. A manual override is integrated to re-activate the oscillator if it gets accidentally blocked.

Four types of oscillating valve are available:

code **10.017.3** G1/8" with NOT, solenoid actuated.

It requires a solenoid signal to activate the oscillations.

code **10.019.3** G1/4" with NOT, solenoid actuated.

It requires a solenoid signal to activate the oscillations.

code **10.029.4** G1/8" with NOT, pneumatically piloted.

It requires a pneumatic signal at point X to activate the oscillations.

code **10.027.4** G1/4" with NOT, pneumatically piloted.

It requires a pneumatic signal at point X to activate the oscillations.

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spole: alluminio nichelato

Parti interne: ottone OT58

Materials

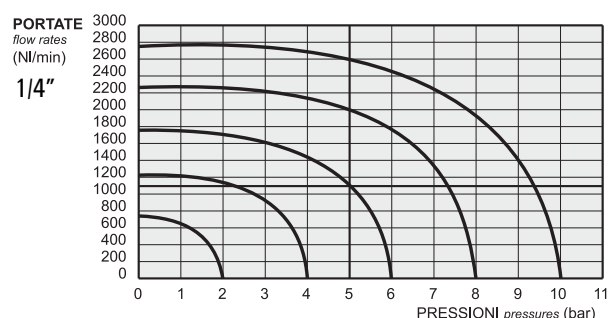
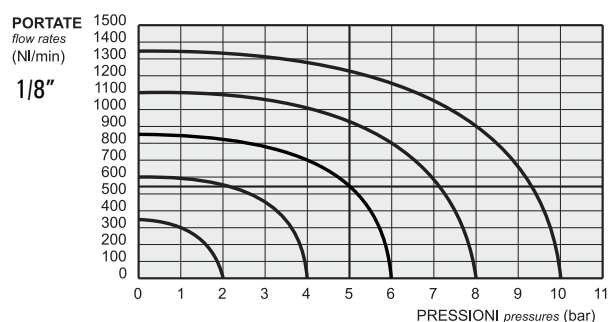
Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spools: nickel plated aluminium

Internal parts: brass OT58



oscillatori con NOT

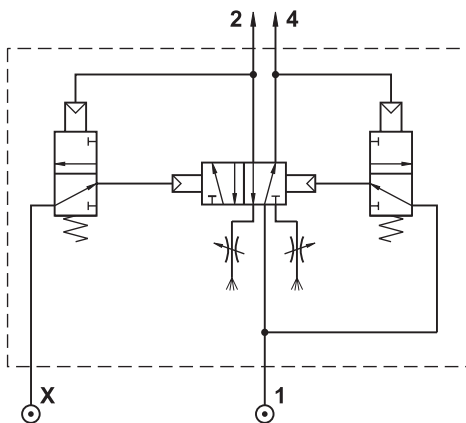
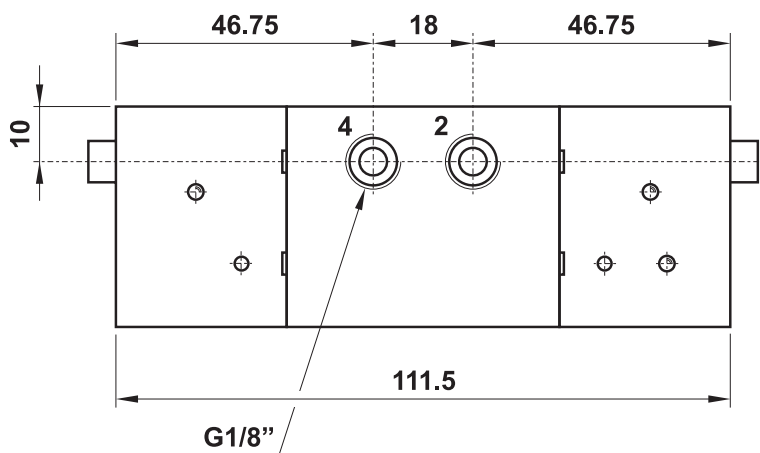
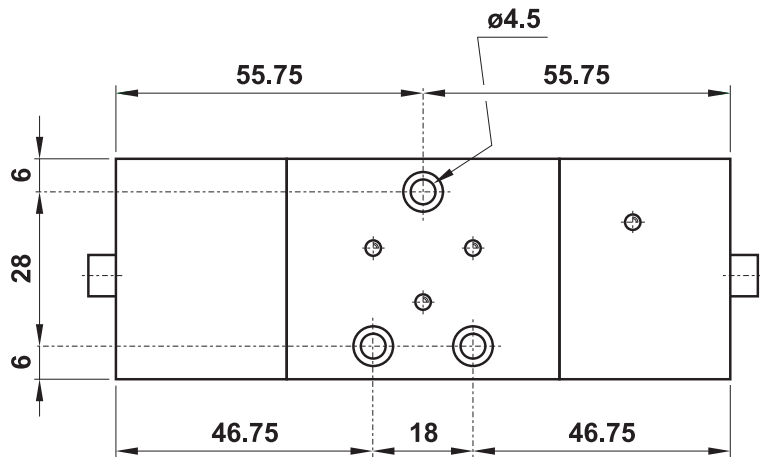
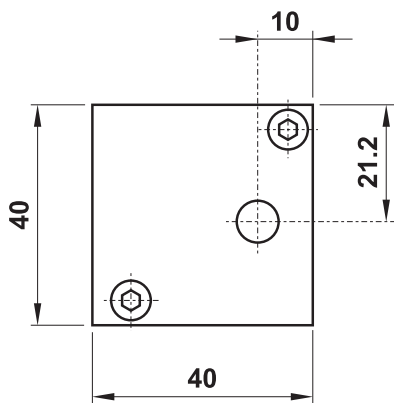
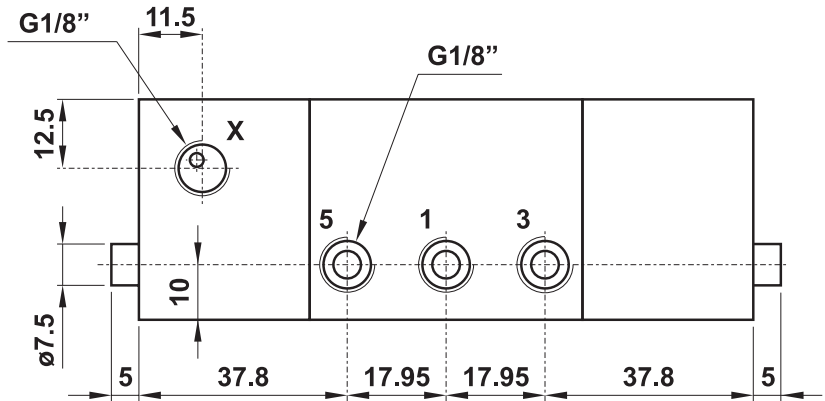
oscillating valves with NOT logic elements



G1/8" a comando pneumatico
G1/8" pneumatically piloted

CODICE DI ORDINAZIONE
ORDER CODE

10.029.4



3

oscillatori con NOT

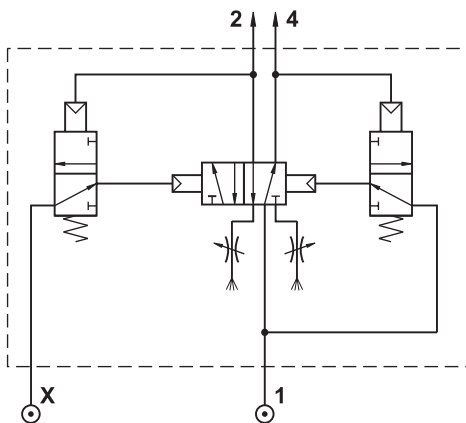
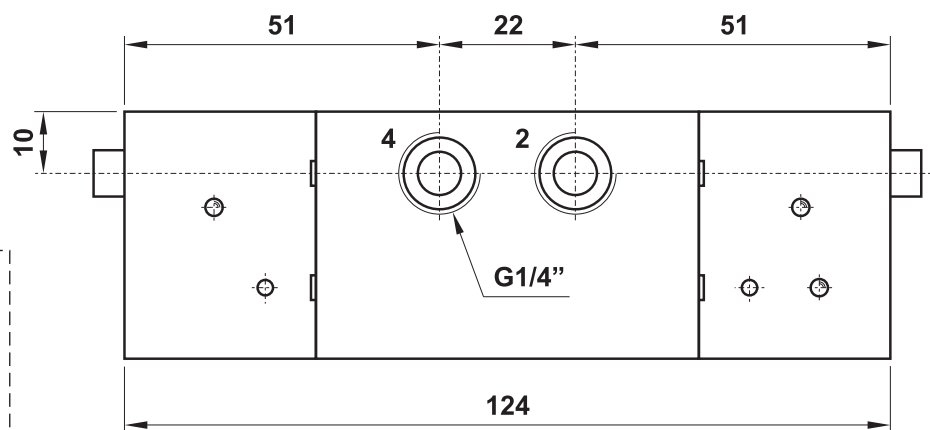
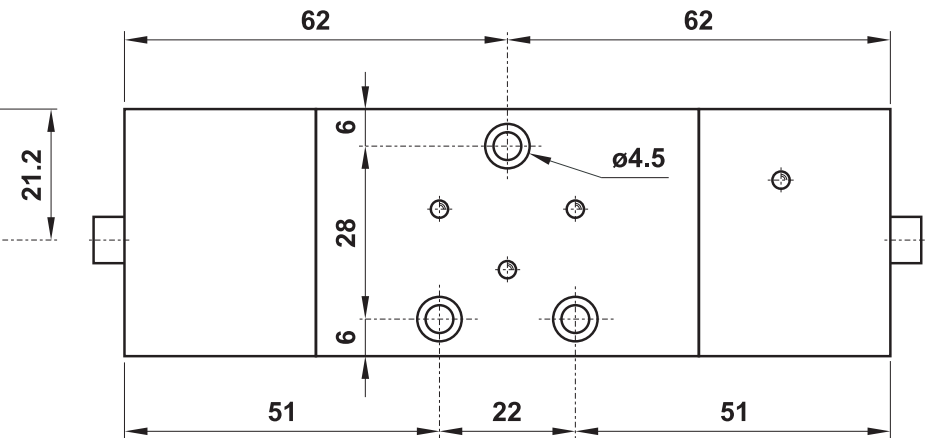
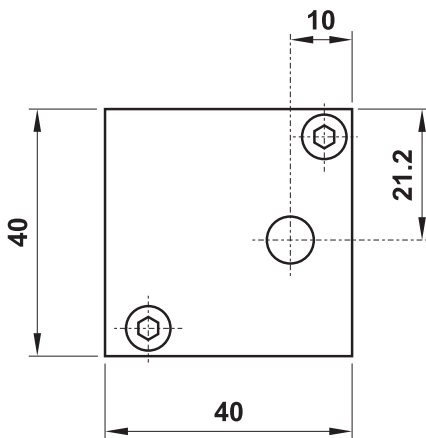
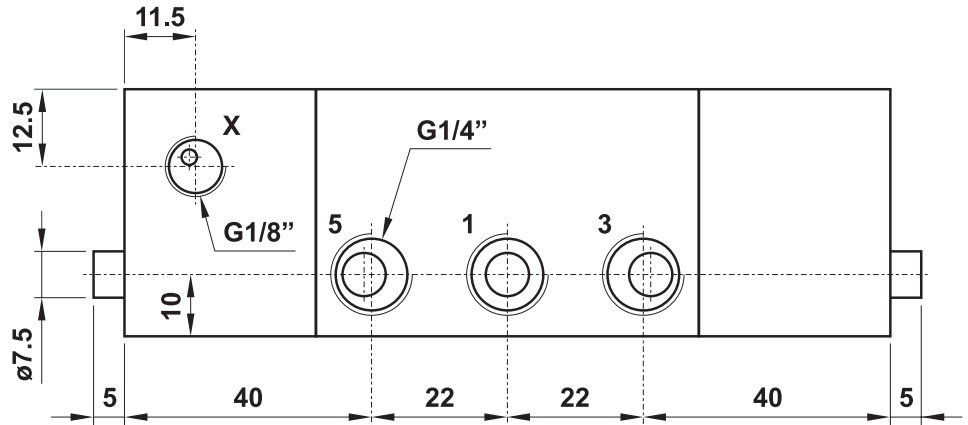
oscillating valves with NOT logic elements



G1/4" a comando pneumatico
G1/4" pneumatically piloted

CODICE DI ORDINAZIONE
ORDER CODE

10.027.4



3

oscillatori con NOT

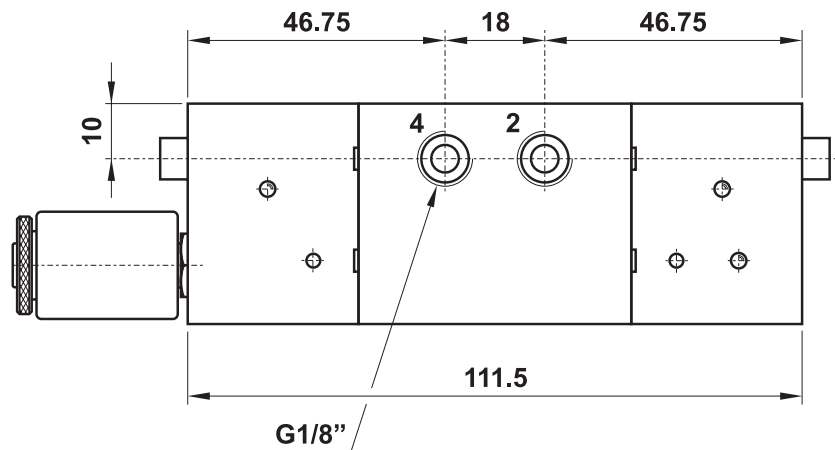
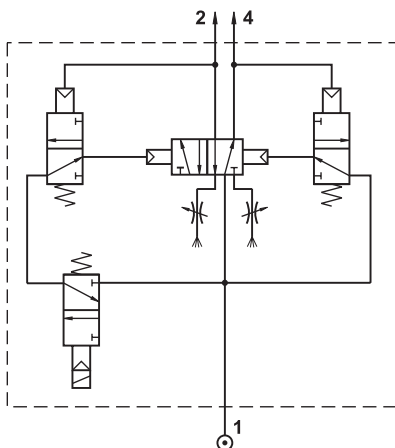
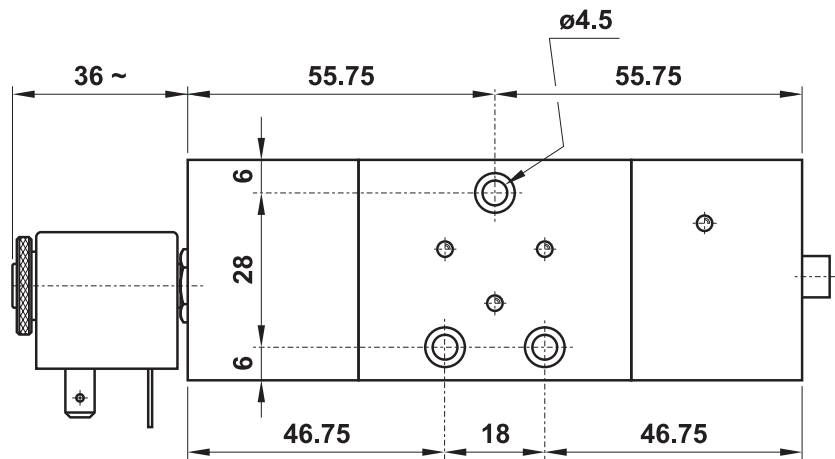
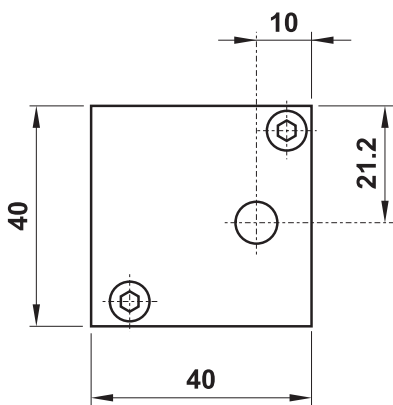
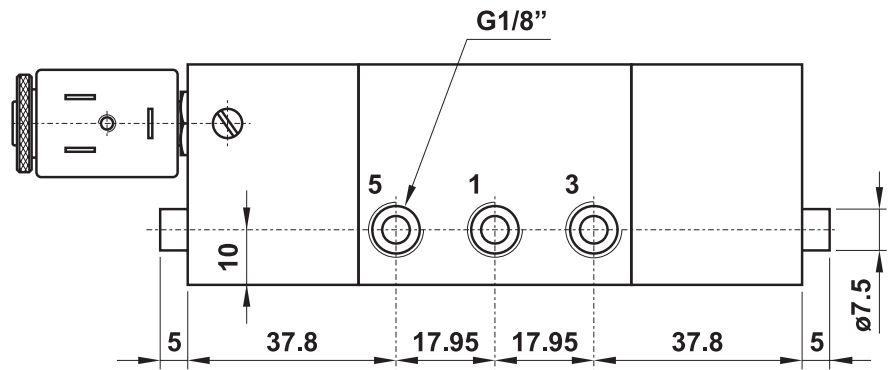
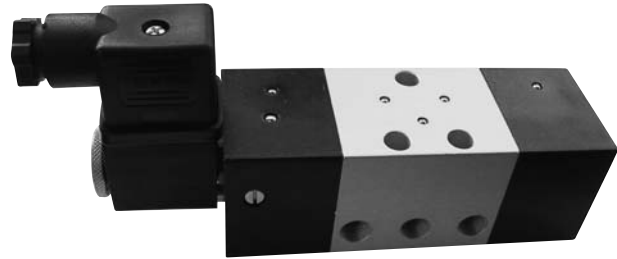
oscillating valves with NOT logic elements



G1/8" a comando elettrico
G1/8" solenoid actuated

CODICE DI ORDINAZIONE
ORDER CODE

10.017.3



3

oscillatori con NOT

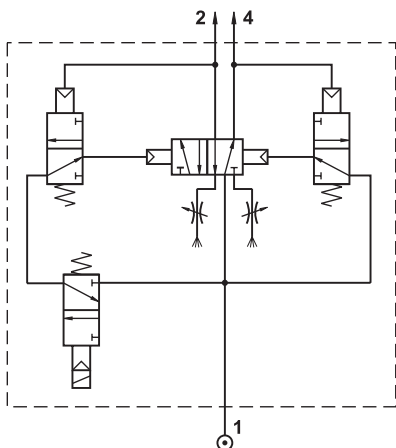
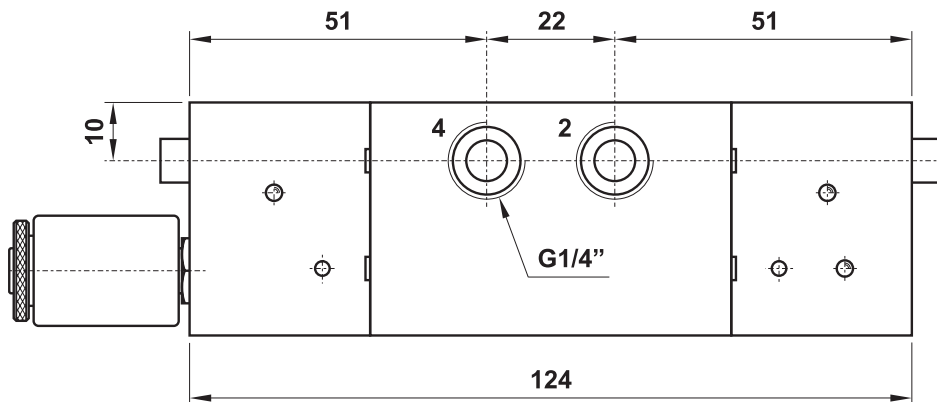
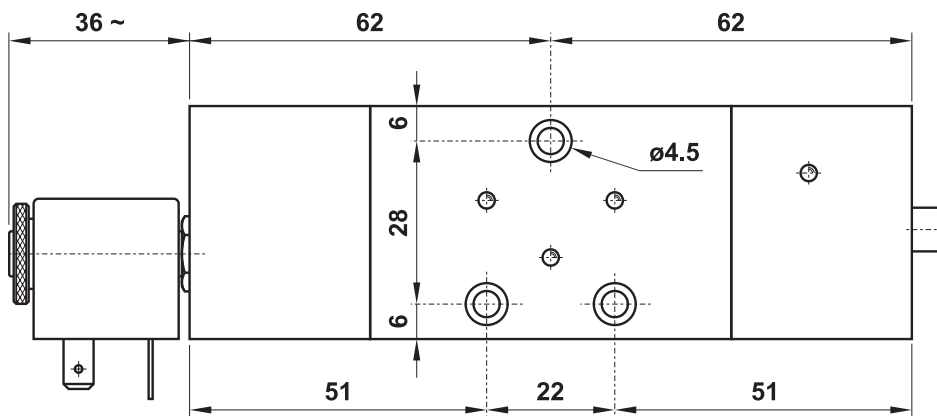
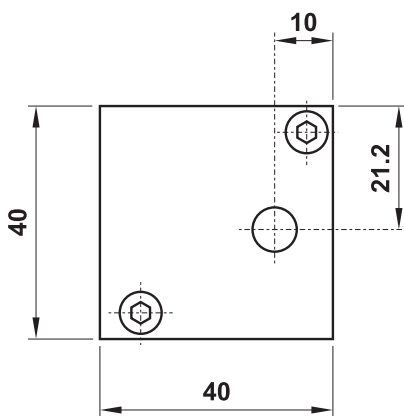
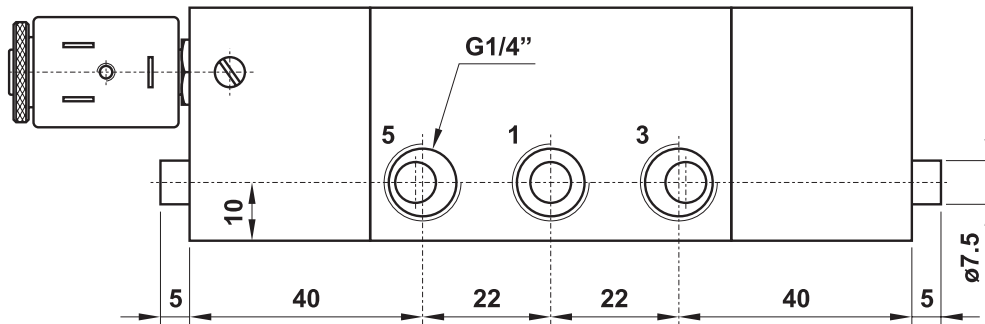
oscillating valves with NOT logic elements



G1/4" a comando elettrico
G1/4" solenoid actuated

CODICE DI ORDINAZIONE
ORDER CODE

10.019.3



3

valvola a due pressioni

dual-pressure valve



Modalità di funzionamento

È una valvola a due vie in grado di fornire in uscita due pressioni distinte.

Una delle due pressioni (**a**) è quella di rete, l'altra (**b**) può essere regolata da 0 a 3 bar agendo sulla vite di regolazione **R**.

Poiché questa valvola è a due vie, non consente in proprio lo scarico del cilindro o del circuito cui è connessa; a tale scopo deve essere collegata a una valvola di potenza a tre vie.

È possibile leggere con un manometro collegato al punto **M** la pressione impostata mediante la vite di regolazione **R**.

La valvola è fornita nella versione a comando elettrico o pneumatico ed è disponibile nella modalità "normalmente chiusa".

NORMALMENTE CHIUSA

In mancanza di segnale al punto **X** la valvola emette aria alla pressione **b**.

Valve operation

*This two way valve offers two pressure settings at the user port: system pressure or regulated pressure (0-3 bar) by adjusting screw **R**.*

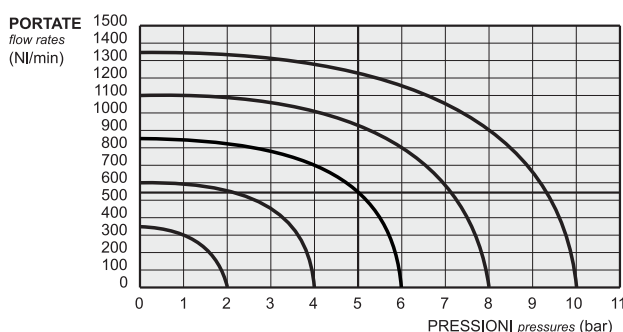
A three way directional control valve must be fitted downstream of this valve if the circuit is required to exhaust.

*The regulated pressure can be read by connecting a manometer at point **M**.*

The valve is available either electrically or pneumatically operated, "normally closed".

NORMALLY CLOSED

*Without signal at point **X** the output is regulated pressure.*



CODICI DI ORDINAZIONE

ORDER CODES

	NORM. CHIUSA <i>norm. closed</i>
ELETTRICO <i>solenoid</i>	00.008.3
PNEUMATICO <i>pneumatic</i>	00.047.4

Attacchi <i>Ports</i>	G1/8"
Pressione di esercizio <i>Working pressure</i>	2.5 ... 10 bar 0.25 ... 1 MPa
Pressione regolabile tramite la vite R <i>Adjustable pressure range (screw R)</i>	0 ... 3 bar 0 ... 0.3 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Fluido <i>Fluid</i>	Aria filtrata 50μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: alluminio nichelato

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spool: nickel plated aluminium

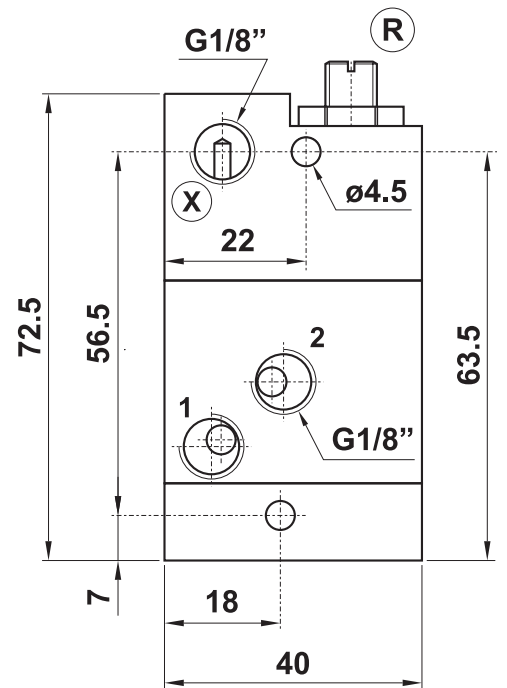
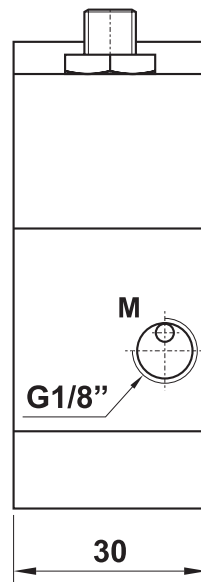
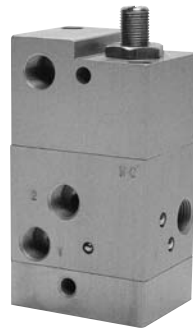
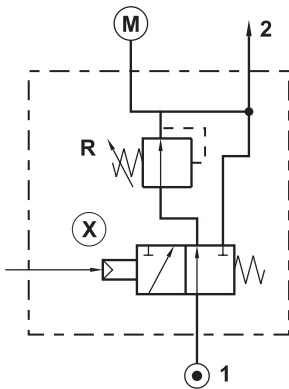
Internal parts: brass OT58

valvola a due pressioni (NC)

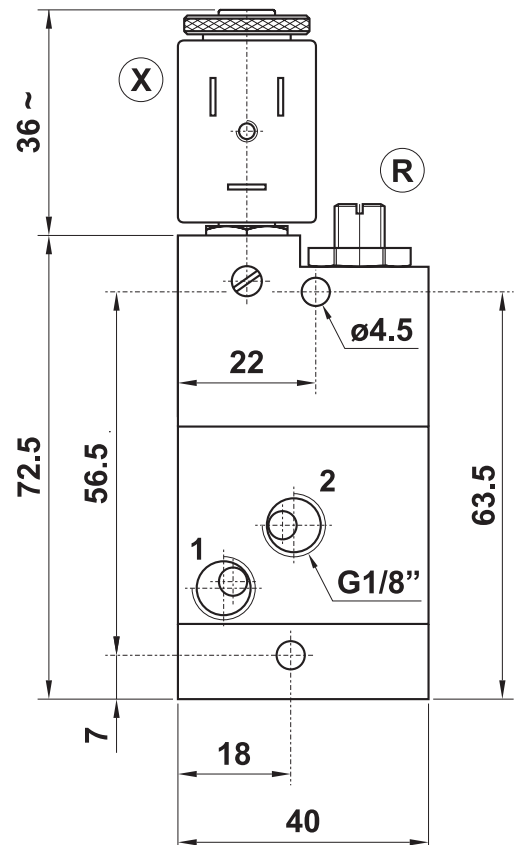
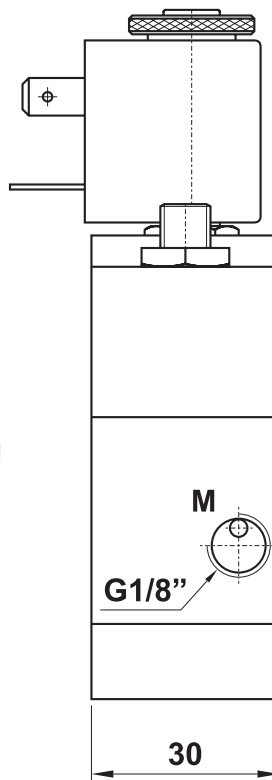
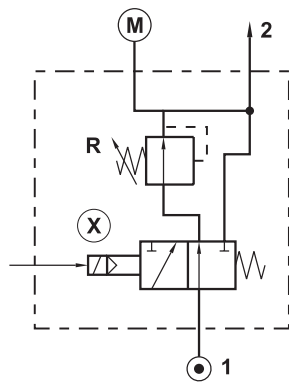
dual-pressure valve (NC)



00.047.4



00.008.3



Il prodotto è venduto senza bobina, da acquistarsi separatamente (vedi pag. 242).
The product is sold without coil, which is bought separately (refer to page 242).

bobine e connettori 22 mm

22 mm coils and connectors



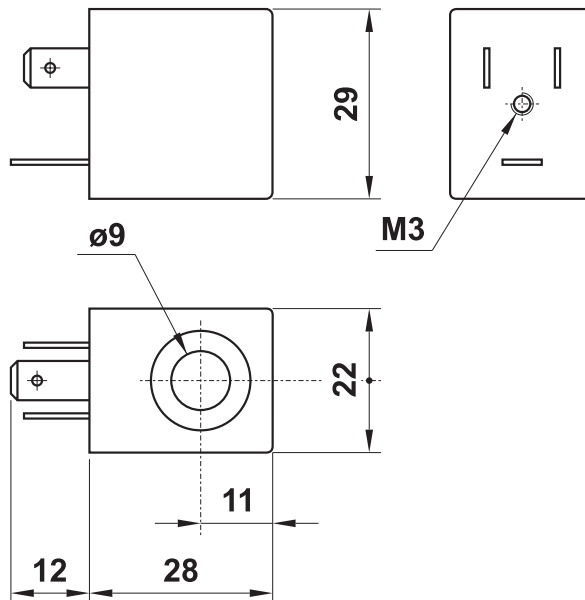
22 mm



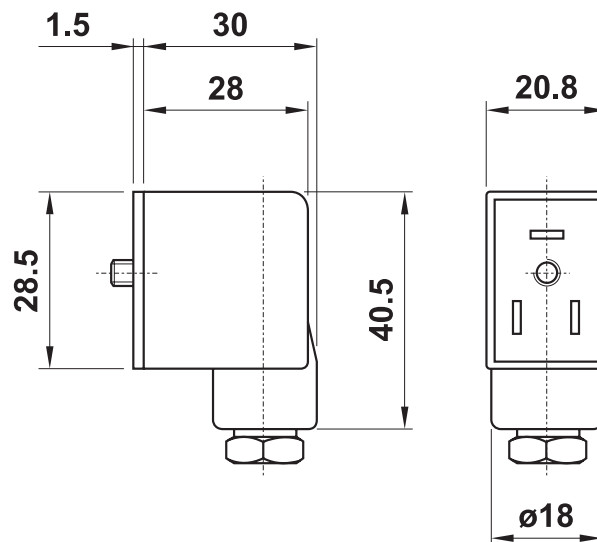
temperatura max di esercizio	+50°C	<i>max working temperature</i>
inserimento	ED 100%	<i>duty cycle</i>
protezione con connettore correttamente montato	IP 65	<i>protection with connector correctly mounted</i>
tolleranza di tensione	±10%	<i>tension tolerance</i>

- a richiesta basso assorbimento 1.5W
low consumption (1.5W) on request

codice <i>code</i>	tensione <i>tension</i>	consumo - power	
		a regime <i>rated</i>	di spunto <i>inrush</i>
00.167.0	12V DC	3W	
00.028.0	24V DC	3W	
00.029.0	24V 50/60Hz	5VA	7.5VA
00.030.0	110V 50/60Hz	5VA	7.5VA
00.031.0	220V 50/60Hz	5VA	7.5VA



codice <i>code</i>	colore <i>colour</i>	cavo <i>cable</i>	tipo <i>type</i>
00.197.0	nero <i>black</i>	PG09	normale <i>standard</i>
00.344.0	trasparente <i>transparent</i>	PG09	con LED 24V <i>with LED 24V</i>
00.345.0	trasparente <i>transparent</i>	PG09	con LED 24V e VDR <i>with LED 24V and VDR</i>
00.346.0	trasparente <i>transparent</i>	PG09	con LED 115V <i>with LED 115V</i>
00.347.0	trasparente <i>transparent</i>	PG09	con LED 115V e VDR <i>with LED 115V and VDR</i>
00.394.0	trasparente <i>transparent</i>	PG09	con LED 230V <i>with LED 230V</i>
00.395.0	trasparente <i>transparent</i>	PG09	con LED 230V e VDR <i>with LED 230V and VDR</i>



PEZZI DI RICAMBIO - spare parts
canotto per elettropilota
armature for solenoid pilot

NC : 00.088.0
NA (NO) : 00.306.0

generatore di impulso normalmente aperto

normally open impulse generator



Modalità di funzionamento

È un dispositivo atto a produrre un impulso di durata prefissata, impostata agendo sulla vite di regolazione **R**. L'impulso viene emesso quando il generatore viene attivato inviando e mantenendo un segnale di comando, proveniente da una valvola a 3 vie, al punto 1. Il generatore non consente la ripetitività dell'impulso, ossia non è possibile, perdurando il segnale di comando, produrre nuovi impulsi dopo il primo (a questo scopo è necessario inviare un nuovo segnale). La durata dell'impulso prodotto dal generatore è pertanto indipendente dalla durata del segnale di comando; solo nel caso in cui venga meno il segnale di comando durante la generazione dell'impulso quest'ultimo ha una durata minore rispetto a quanto impostato.

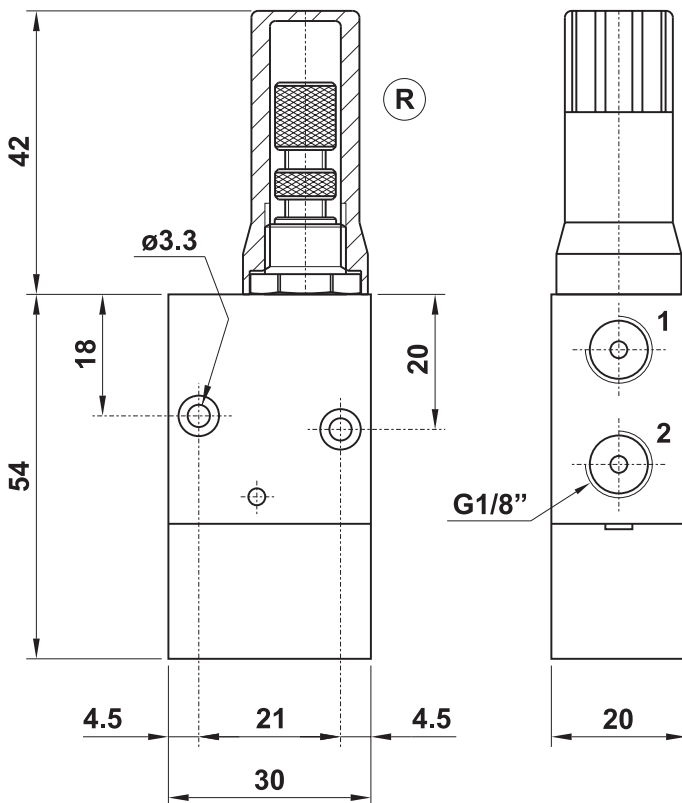
Valve operation

It is a device which produces an adjustable impulse of fixed duration by adjusting screw **(R)**.

When a signal is applied from a three way valve and maintained at port 1 the impulse generator is activated and will generate an impulse period which was pre-set by screw **R**.

If the signal is interrupted the duration of the impulse is terminated.

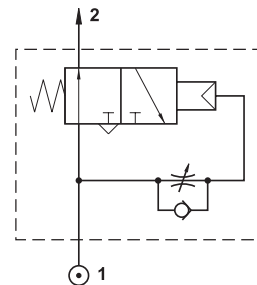
To repeat the cycle the pilot signal must be exhausted and applied again.



CODICE DI ORDINAZIONE

ORDER CODE

10.001.4



Attacchi <i>Ports</i>	G1/8"
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Intervallo di regolazione <i>Time regulation range</i>	0 ... 15 s
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Internal parts: brass OT58

generatore di impulso normalmente chiuso

normally closed impulse generator



Modalità di funzionamento

È un dispositivo che, se alimentato al punto 1, fornisce aria in uscita (punto 2) quando è trascorso l'intervallo di tempo prefissato agendo sulla vite di regolazione R. Il flusso di aria in uscita può essere successivamente interrotto togliendo l'alimentazione al punto 1. Rispetto alla versione normalmente aperta (10.001.4), questo dispositivo permette di regolare la durata del tempo di sosta e non dell'impulso in uscita.

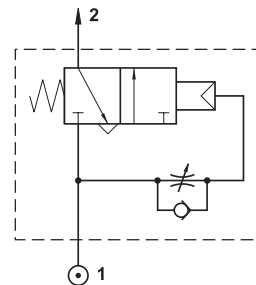
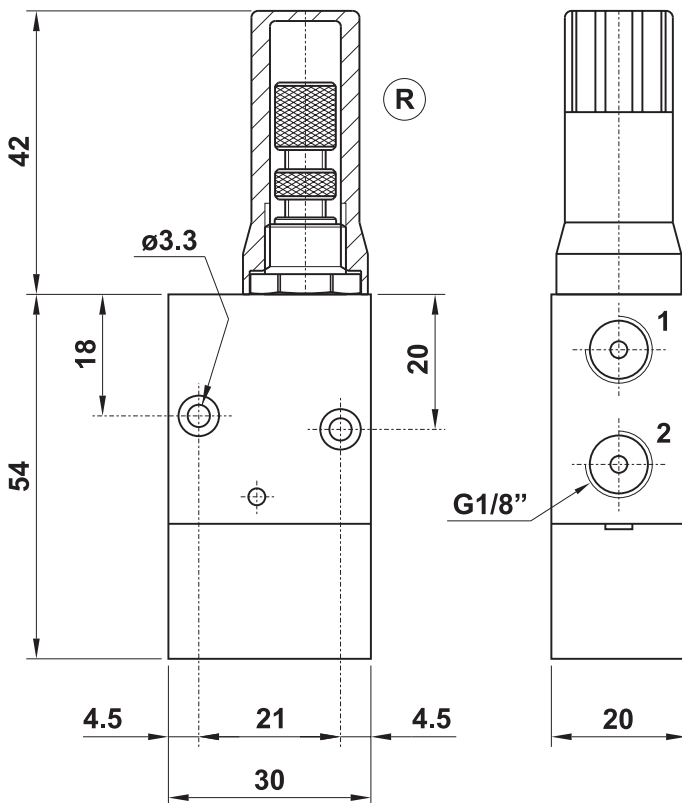
Valve operation

This device, if air is supplied at port 1, lets the air go out from port 2 when the adjustable dwell time (pre-set by screw R) has elapsed. The air flow can then be interrupted by removing the air supply from port 1. The difference from the normally open version (10.001.4) is that the screw R adjusts the dwell time and not the duration of the air impulse.

CODICE DI ORDINAZIONE

ORDER CODE

10.009.4



Attacchi <i>Ports</i>	G1/8"
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Intervallo di regolazione <i>Time regulation range</i>	0 ... 15 s
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Internal parts: brass OT58

generatore di impulso fisso

non adjustable impulse generator



Modalità di funzionamento

È un dispositivo atto a produrre un impulso di durata prefissata e non regolabile (molto breve, circa 0.2 s). L'impulso viene emesso quando il generatore viene attivato inviando e mantenendo un segnale di comando, proveniente da una valvola a 3 vie, al punto 1. Il generatore non consente la ripetitività dell'impulso, ossia non è possibile, perdurando il segnale di comando, produrre nuovi impulsi dopo il primo (a questo scopo è necessario inviare un nuovo segnale).

Valve operation

It is a device which produces an impulse of fixed and not adjustable duration (very short, about 0.2 s).

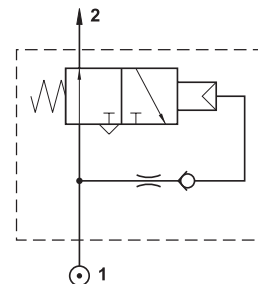
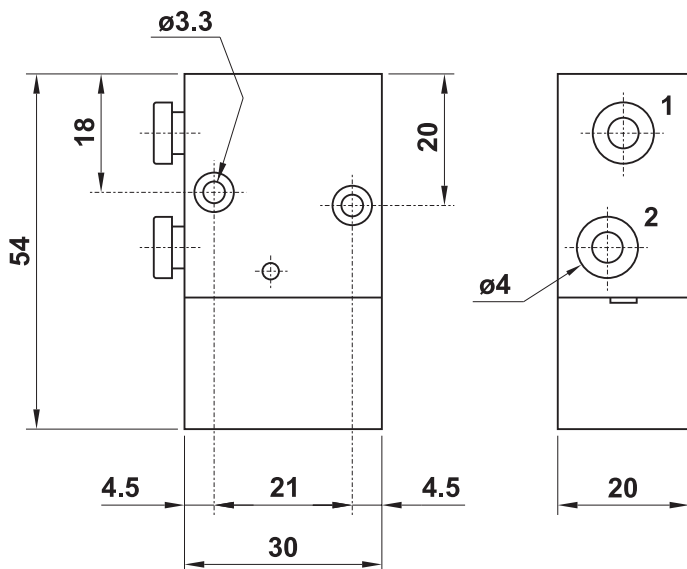
When a signal is applied from a three way valve and maintained at port 1 the impulse generator is activated.

To repeat the cycle the pilot signal must be exhausted and applied again.

CODICE DI ORDINAZIONE

ORDER CODE

10.003.4



Attacchi <i>Ports</i>	raccordi automatici per tubo ø4 <i>ø4 push-in fittings</i>
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Internal parts: brass OT58

limitatore di pressione

pressure limiter



Modalità di funzionamento

È un dispositivo che, se alimentato al punto 1, fornisce in uscita al punto 2 una pressione uguale o inferiore a quella di alimentazione.

Il valore della pressione in uscita è determinato mediante la vite di regolazione V posta sulla sommità del dispositivo.

Il comportamento del limitatore di pressione è identico a quello di un normale regolatore di pressione, con la differenza che è privo di relieving e quindi non ha la possibilità di scaricare la sovrappressione che si accumula a valle.

Valve operation

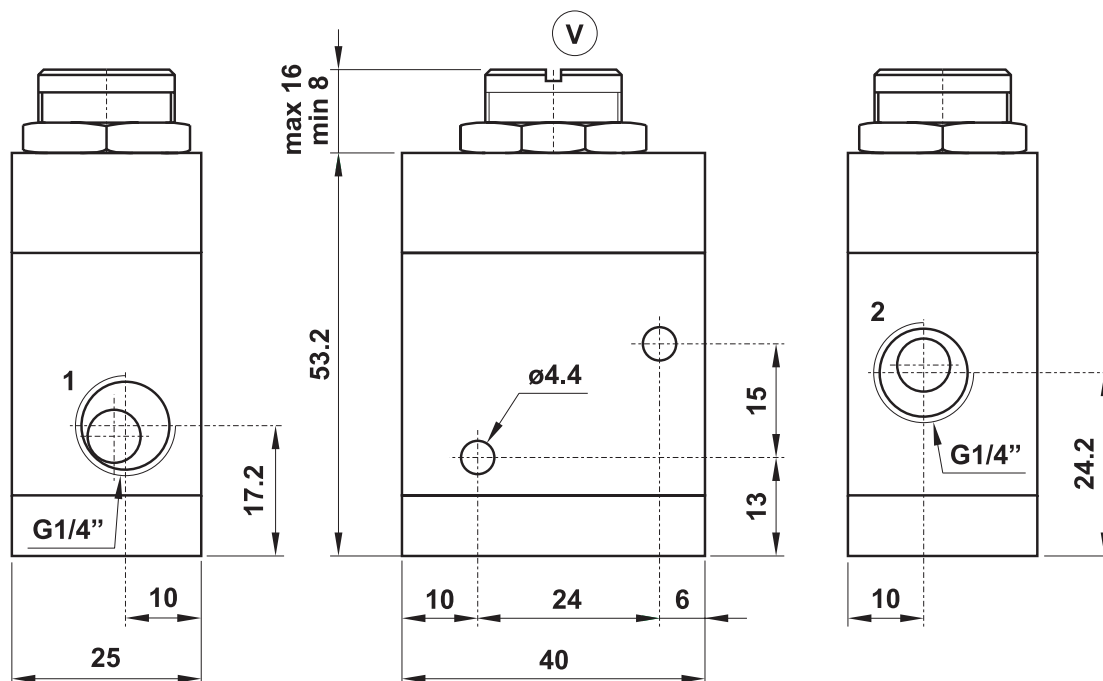
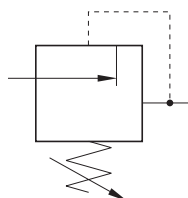
It is a device which, when air is present at port 1, gives at port 2 a pressure which is the same or lower than the main pressure.

The output pressure is regulated by the screw V, which is located on the top of the valve.

The pressure limiter is the same as a pressure regulator, with the difference that the limiter has no relieving and it cannot exhaust the overpressure from downstream.

CODICE DI ORDINAZIONE
ORDER CODE

10.021.4



Attacchi Ports	G1/4"
Pressione di esercizio Working pressure	2 ... 10 bar 0.2 ... 1 MPa
Temperatura di esercizio Temperature range	max +60°C
Fluido Fluid	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Internal parts: brass OT58

minioscillatore 3/2 G1/8"

mini oscillating valve 3/2 G1/8"



Modalità di funzionamento

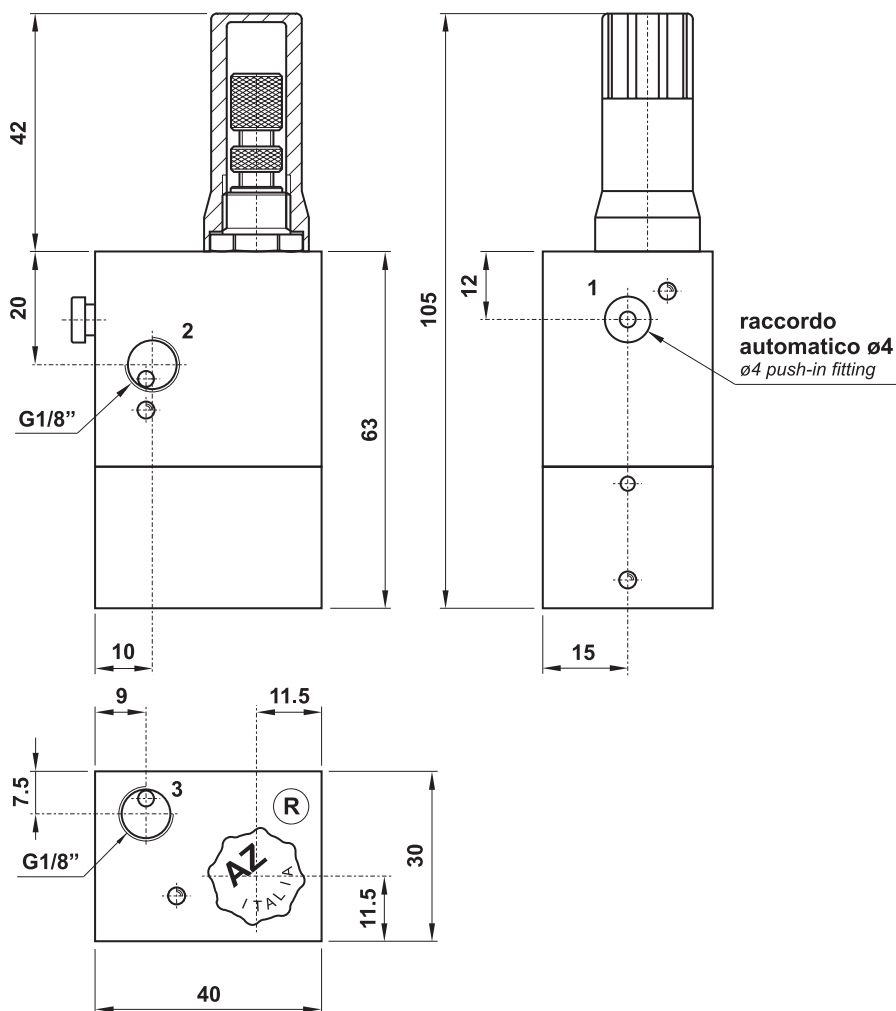
È un dispositivo che, se alimentato al punto 1, fornisce in uscita impulsi a frequenza regolabile. La frequenza si stabilisce agendo sulla vite di regolazione R.

Per un funzionamento corretto è necessario che la pressione di alimentazione sia uguale o superiore a 3 bar, diversamente il dispositivo si può bloccare.

Valve operation

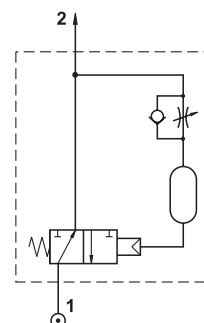
It is a device which, when air is present at port 1, gives as output impulses with variable frequency. The frequency can be regulated by the screw R.

For a correct operation the minimum main pressure must be 3 bar, otherwise the valve can get blocked.



CODICE DI ORDINAZIONE
ORDER CODE

AX.007.4



Attacchi <i>Ports</i>	raccordi automatici per tubo ø4 <i>ø4 push-in fittings</i>
Pressione di esercizio <i>Working pressure</i>	3 ... 10 bar 0.3 ... 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Intervallo di regolazione <i>Time regulation range</i>	0 ... 15 s
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Internal parts: brass OT58

temporizzatore di potenza

high-flow pneumatic timer for automatic return



Modalità di funzionamento

È una valvola di potenza a 5 vie dotata di un temporizzatore che ne permette il riposizionamento automatico dopo il tempo preimpostato. Delle due fasi che caratterizzano un ciclo completo della valvola, la prima, quella di "andata", viene attivata immediatamente all'invio di un segnale pneumatico al punto X tramite una valvola a 3 vie NC. L'inizio della seconda fase, quella di "ritorno", subisce invece un ritardo (Δt) regolabile con la vite di regolazione R.

- La sosta al termine della fase di "andata" è effettiva soltanto se il segnale di comando al punto X viene mantenuto per tutta la durata del ciclo, altrimenti si attiva immediatamente la fase di "ritorno", annullando l'effetto della temporizzazione. Pertanto, in presenza di un segnale ad impulso, la temporizzazione è inefficace e la valvola si comporta come una normale 5/2 monostabile.
- Qualora il segnale di comando al punto X si prolunghi dopo la fine del ciclo diventa ininfluente: per dare inizio a un nuovo ciclo occorre un nuovo segnale.
- Anche se si invia aria all'alimentazione 1, senza alcun segnale al punto X la valvola non entra in funzione.

Valve operation

This is a high-flow 5 way valve with a pneumatic timer which allows the automatic return of the valve after a preset time. The time is adjusted by screw (R).

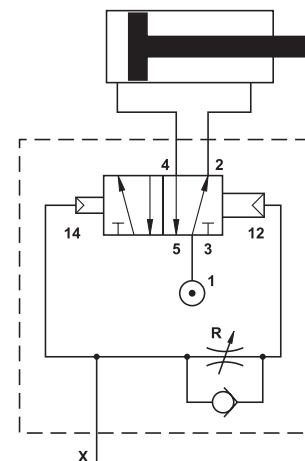
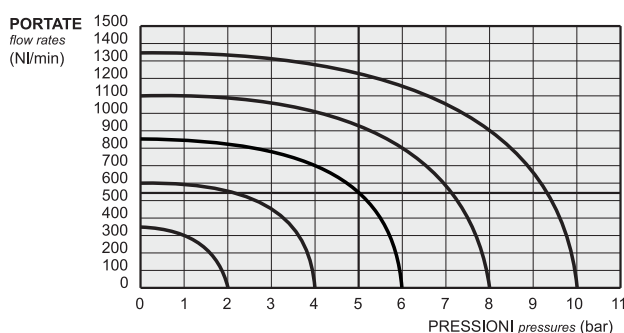
When a signal is applied to X the valve will stay operated until the time which was set at R has elapsed, and then the valve will automatically re-set. To repeat the cycle the signal must be exhausted and then applied again.

If a momentary signal is applied the valve will operate as a conventional 5 way mono-stable valve without the time delay function.

The valve will only operate when pressure signal is applied to X.

CODICE DI ORDINAZIONE
ORDER CODE

00.074.4



Attacchi Ports	G1/8"
Pressione di esercizio Working pressure	2 ... 10 bar 0.2 ... 1 MPa
Pressione di azionamento Actuating pressure	3 ... 10 bar 0.3 ... 1 MPa
Temperatura di esercizio Temperature range	max +60°C
Intervallo di regolazione Time regulation range	0 ... 15 s
Fluido Fluid	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

Materiali

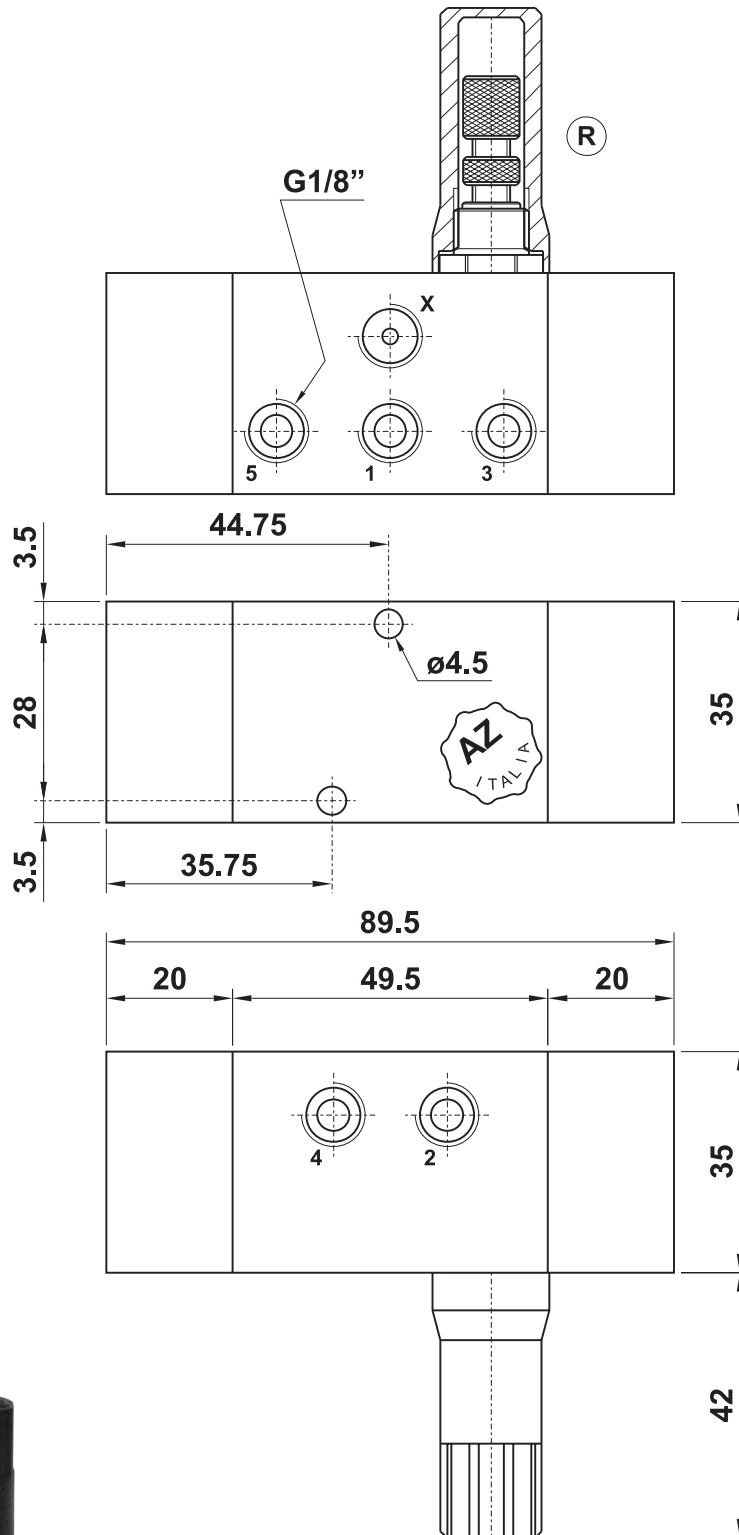
Corpo: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Spola: alluminio nichelato
Parti interne: ottone OT58

Materials

Body: aluminium 11S
Springs: stainless steel
Seals: NBR
Spool: nickel plated aluminium
Internal parts: brass OT58

temporizzatore di potenza

high-flow pneumatic timer for automatic return



temporizzatore ad azionamento differito

high-flow pneumatic timer for delayed actuation



Modalità di funzionamento

È una valvola di potenza a 5 vie dotata di un temporizzatore che ritarda l'efficacia del comando pneumatico.

In presenza di alimentazione al punto 1, inviando tramite una valvola a 3 vie NC un segnale di comando pneumatico al punto X, la valvola non si aziona fino a che non sia trascorso il periodo di tempo determinato agendo sulla vite di regolazione R.

- Il ciclo della valvola ha inizio solo se il segnale di comando al punto X viene mantenuto per un tempo superiore a quello impostato con la vite di regolazione R.
- Una volta scaduto il tempo prefissato, la valvola permane nello stato eccitato per tutto il tempo in cui il segnale di comando al punto X è attivo; al suo cessare la valvola torna nella posizione di riposo.
- Anche se si invia aria all'alimentazione 1, senza alcun segnale al punto X la valvola non entra in funzione.

Valve operation

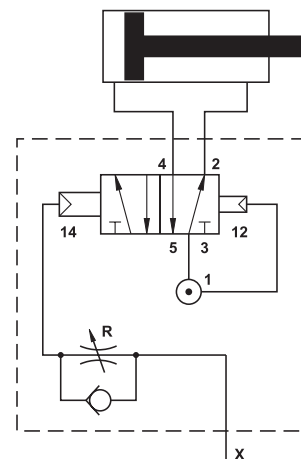
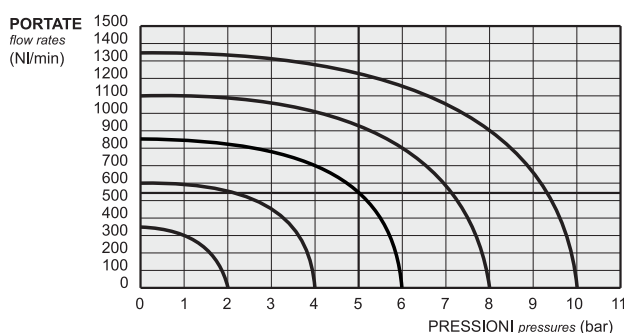
This is a high-flow 5 way valve with a pneumatic timer which delays the effect of the pneumatic pilot after a preset time. The time is adjusted by screw (R).

When a signal is applied to X the valve will stay in the quiet position until the time which was set at R has elapsed, and then the valve will automatically switch to the actuated position. Then the valve will remain in the actuated position. When the pilot signal stops, the valve returns to the quiet position.

The valve will only operate when pressure signal is applied to X.

CODICE DI ORDINAZIONE
ORDER CODE

00.177.4



Attacchi Ports	G1/8"
Pressione di esercizio Working pressure	2 ... 10 bar 0.2 ... 1 MPa
Pressione di azionamento Actuating pressure	3 ... 10 bar 0.3 ... 1 MPa
Temperatura di esercizio Temperature range	max +60°C
Intervallo di regolazione Time regulation range	0 ... 15 s
Fluido Fluid	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

Materiali

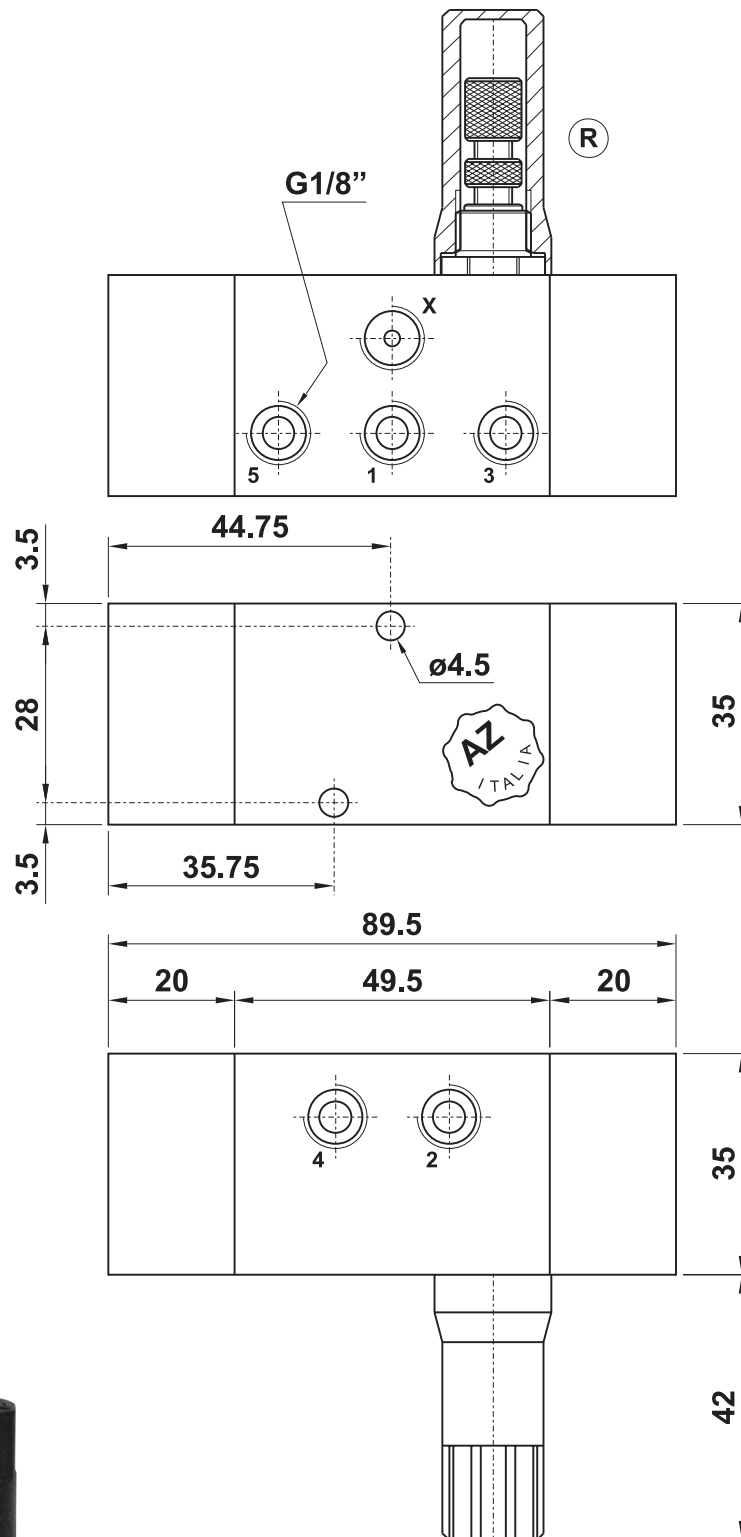
Corpo: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Spola: alluminio nichelato
Parti interne: ottone OT58

Materials

Body: aluminium 11S
Springs: stainless steel
Seals: NBR
Spool: nickel plated aluminium
Internal parts: brass OT58

temporizzatore ad azionamento differito

high-flow pneumatic timer for delayed actuation



3

sicurezza bimanuale

two-hand safety valve



Modalità di funzionamento

È utilizzabile per il comando di valvole di potenza connesse a macchine che presentano un elevato rischio di infortunio alle mani. Impone all'operatore di utilizzare entrambe le mani per inviare l'impulso alla valvola di potenza, evitando in questo modo che esse vengano accidentalmente a trovarsi nell'area dei meccanismi in movimento.

L'impulso di comando viene generato dalla sicurezza bimanuale solo in presenza di due segnali di azionamento contemporanei provenienti da microvalvole a tre vie NC da collegare ai due attacchi indicati con 1. L'intervallo Δt tra questi due segnali, comunque inferiore a 0.5 secondi, varia a seconda della pressione di alimentazione e può essere determinato facendo riferimento al grafico "risposta tempo-pressione" riportato in questa pagina.

La sicurezza bimanuale è dotata di un dispositivo antiripetitivo che garantisce la generazione di un solo impulso in presenza dei due segnali contemporanei. Affinché essa possa generare un successivo impulso è necessario far cessare entrambi i segnali e procedere a un nuovo azionamento.

La sicurezza bimanuale garantisce un'alta affidabilità ed è venduta con il certificato CE (conformità alle Direttive Macchine CEE 89/392, 91/368, 93/44, 96/68 e alla Norma EN 574 livello 1).

Valve operation

This valve is used to pilot high-flow directional control valves connected to machines which have a high risk of injuries to the hands.

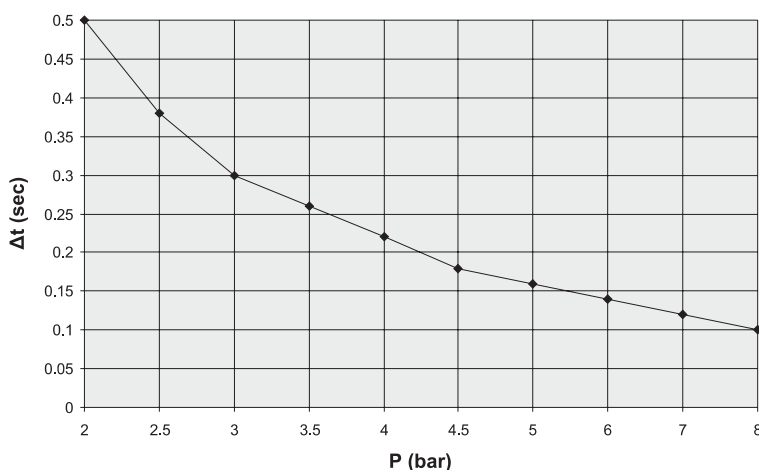
The machine operator must simultaneously operate, in a safe area, two three-way manual valves for correct operation. The safety valve will ignore a single depression of one of the manual valves. To repeat the cycle both pilot signals must be exhausted and the manual valves simultaneously actuated again.

The two-hand safety valve is sold with CE-certification (compliant to Machinery Directives EEC 89/392, 91/368, 93/44, 96/68 and to Norm EN 574, level 1).

CODICE DI ORDINAZIONE
ORDER CODE

08.156.4

RISPOSTA TEMPO-PRESSIONE
reaction time related to pressure



Portata massima Maximum flow rate	100 NI/min
Attacchi Ports	G1/8"
Pressione di esercizio Working pressure	2 ... 8 bar 0.2 ... 0.8 MPa
Intervallo di tempo tra i due segnali di comando Delay between two actuating signals	$\Delta t < 0.5$ s
Temperatura di esercizio Temperature range	max +60°C
Fluido Fluid	Aria filtrata 50 μ con o senza lubrificazione 50 μ filtered, lubricated or non lubricated air

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

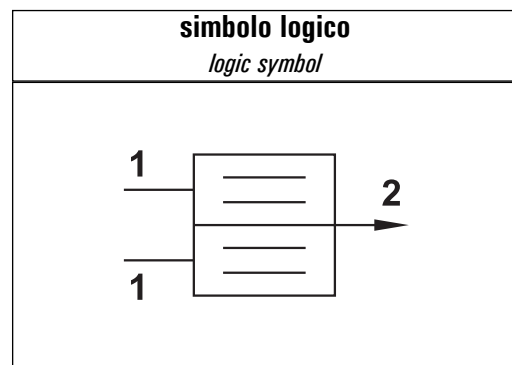
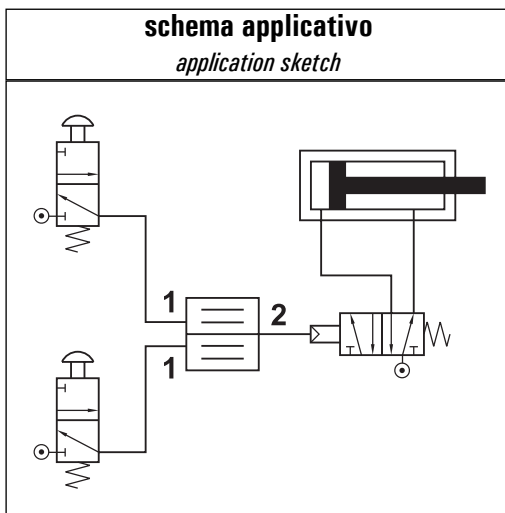
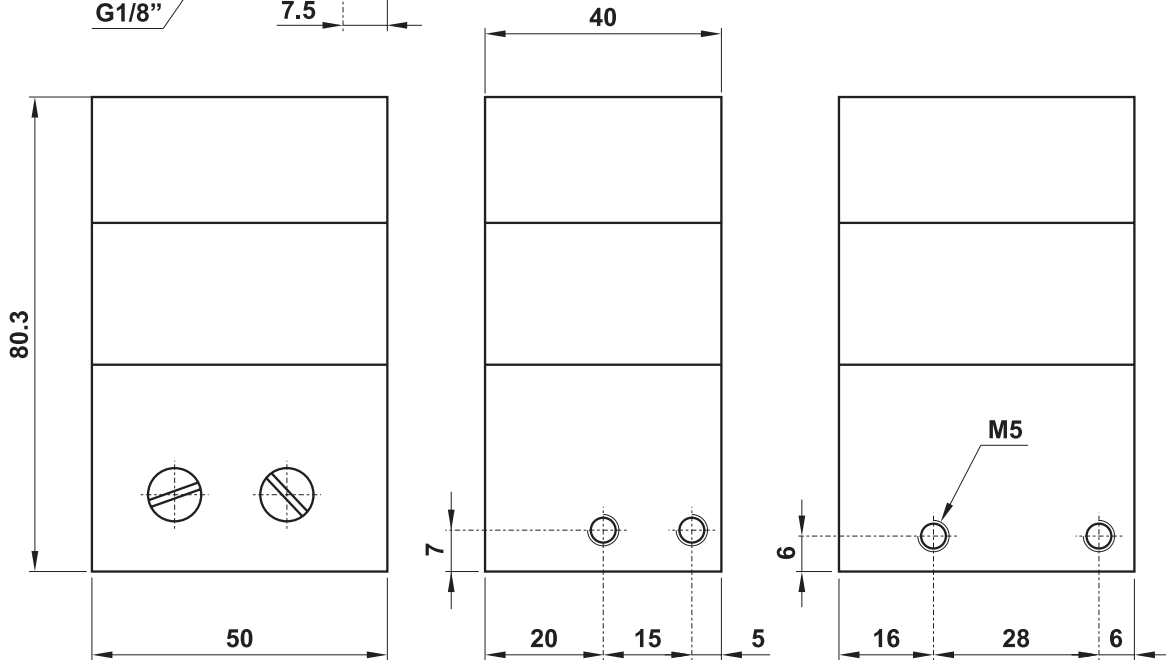
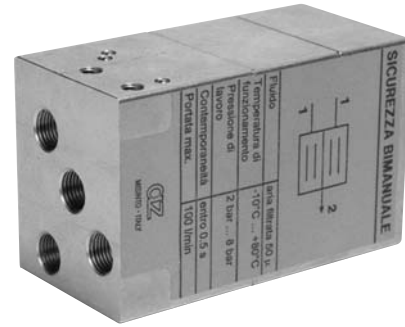
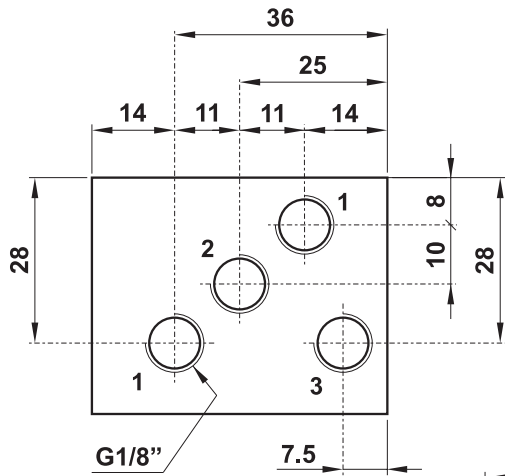
Springs: stainless steel

Seals: NBR

Internal parts: brass OT58

sicurezza bimanuale

two-hand safety valve



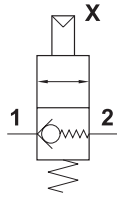
valvole di blocco a comando pneumatico G1/8"

pneumatically piloted stop valves - G1/8"



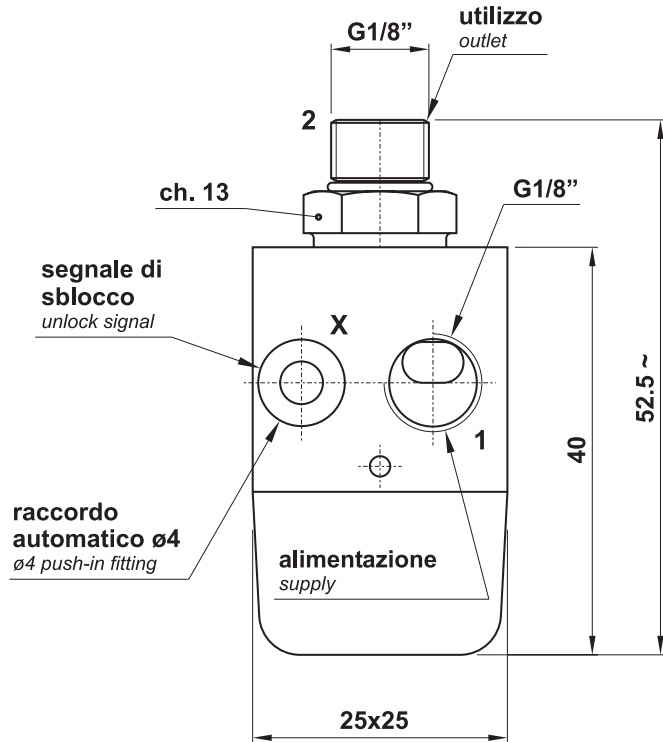
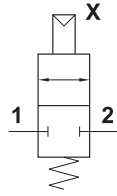
11.044.4

valvola di non ritorno a sblocco pneumatico con attacchi G1/8"
non-return valve with pneumatic unlock - ports G1/8"

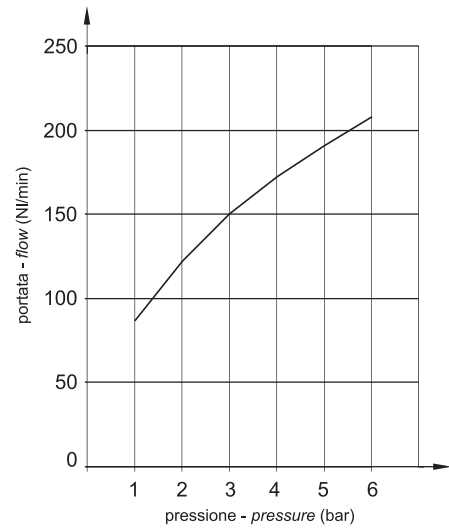


11.066.4

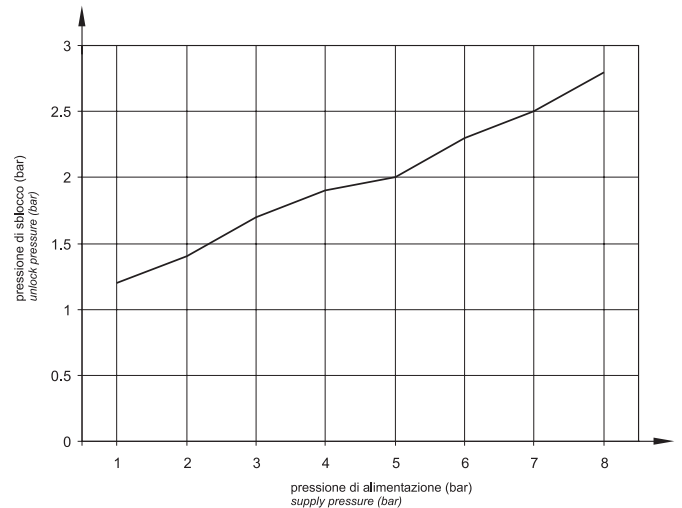
valvola di blocco a comando pneumatico con attacchi G1/8"
pneumatically piloted stop valve - ports G1/8"



Portata della valvola in funzione della pressione di alimentazione.
Flow rate related to supply pressure.



Pressione di sblocco in funzione della pressione di alimentazione.
Unlock pressure related to supply pressure.



Materiali

Corpo: alluminio 11S
Fondello: DELRIN
Molle: INOX
Guarnizioni: NBR
Parti interne: ottone OT58

Materials

Main body: aluminium 11S
Lower body: DELRIN
Springs: stainless steel
Seals: NBR
Internal parts: brass OT58

Attacchi: alimentazione e utilizzo <i>Ports: supply and outlet</i>	G1/8"
Attacchi: segnale di sblocco <i>Ports: unlock signal</i>	automatico ø4 ø4 push-in
Diametro nominale <i>Nominal orifice</i>	3.5 mm
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

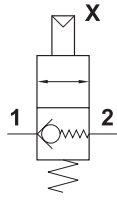
valvole di blocco a comando pneumatico G1/4"

pneumatically piloted stop valves - G1/4"



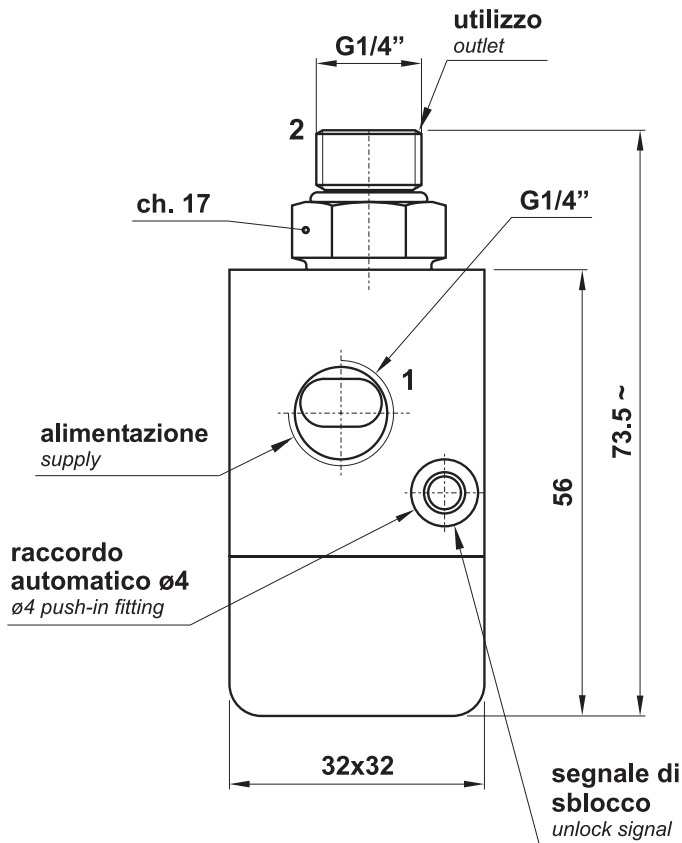
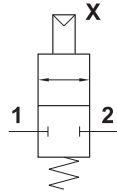
11.076.4

valvola di non ritorno a sblocco pneumatico con attacchi G1/4"
non-return valve with pneumatic unlock - ports G1/4"

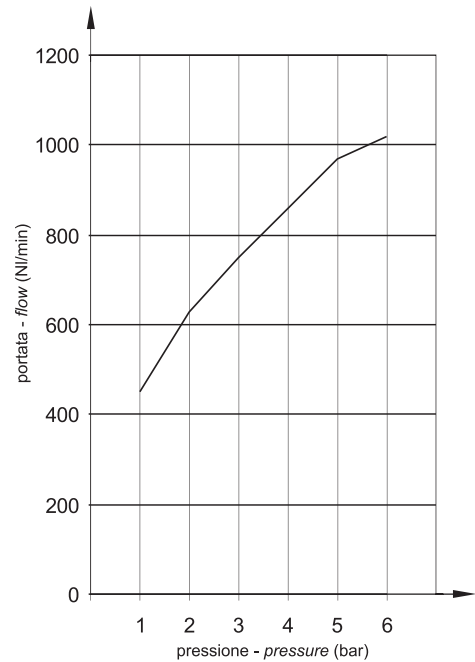


11.077.4

valvola di blocco a comando pneumatico con attacchi G1/4"
pneumatically piloted stop valve - ports G1/4"



Portata della valvola in funzione della pressione di alimentazione.
Flow rate related to supply pressure.



Materiali

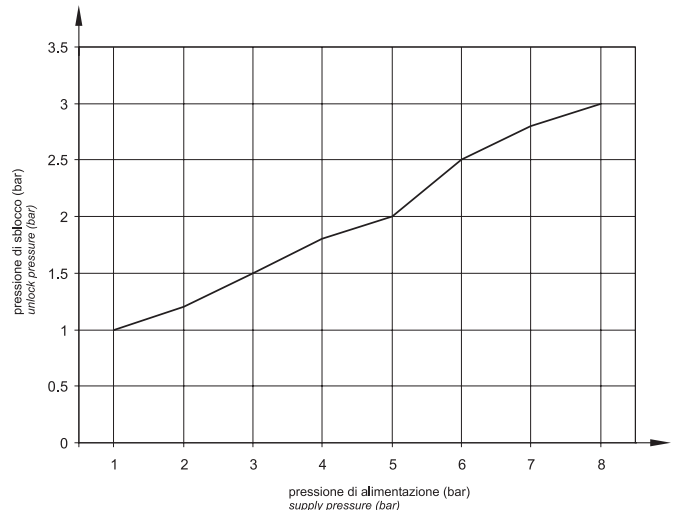
Corpo: alluminio 11S
Fondello: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Parti interne: ottone OT58

Materials

Main body: aluminium 11S
Lower body: aluminium 11S
Springs: stainless steel
Seals: NBR
Internal parts: brass OT58

Attacchi: alimentazione e utilizzo <i>Ports: supply and outlet</i>	G1/4"
Attacchi: segnale di sblocco <i>Ports: unlock signal</i>	automatico ø4 ø4 push-in
Diametro nominale <i>Nominal orifice</i>	7 mm
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

Pressione di sblocco in funzione della pressione di alimentazione.
Unlock pressure related to supply pressure.



valvole di blocco con RFU integrato

pneumatically piloted stop valves with integrated RFU

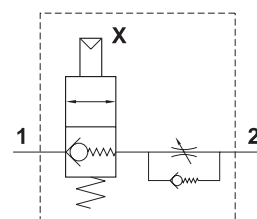
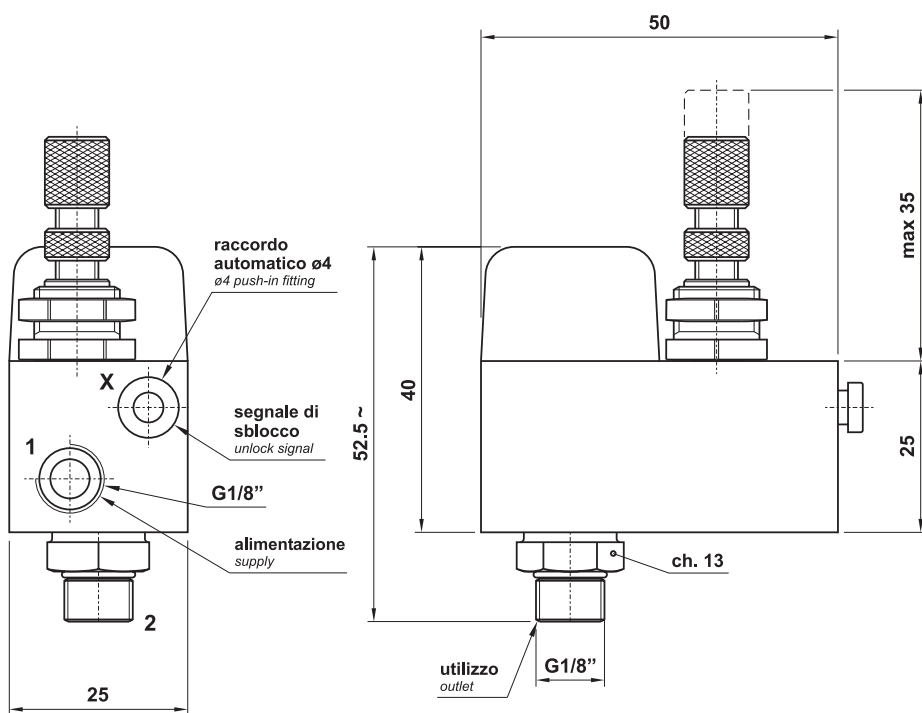


- Modulo di controllo con funzione di intercettazione e regolazione
Stop and regulation function
- Valvola di blocco unidirezionale o bidirezionale
Stop valve with or without non-return valve
- Regolatore di flusso unidirezionale integrato
Integrated unidirectional flow regulator
- Versioni speciali a richiesta
Special versions on request



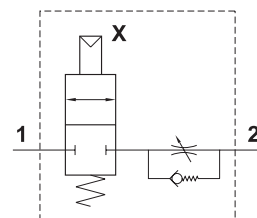
CODICE DI ORDINAZIONE
ORDER CODE

10.013.4



CODICE DI ORDINAZIONE
ORDER CODE

10.014.4



Attacchi: alimentazione e utilizzo <i>Ports: supply and outlet</i>	G1/8"
Attacchi: segnale di sblocco <i>Ports: unlock signal</i>	automatico ø4 ø4 push-in
Portata massima a 6 bar <i>Maximum flow rate at 6 bar</i>	250 NI/min
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

Materiali

Corpo: alluminio 11S
Fondello superiore: DELRIN
Molle: INOX
Guarnizioni: NBR
Parti interne: ottone OT58

Materials

*Main body: aluminium 11S
Upper body: DELRIN
Springs: stainless steel
Seals: NBR
Internal parts: brass OT58*

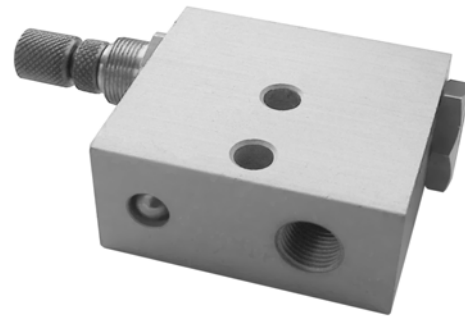
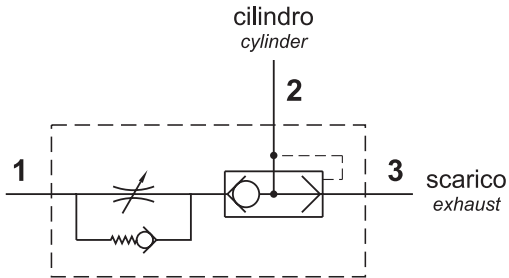
integrato RFU e valvola scarico rapido

integrated element with RFU and quick exhaust valve



Permette di rallentare la corsa di andata o di ritorno di un cilindro consentendo però la massima velocità nella direzione opposta a quella regolata.

It allows to slow down the speed of either the extend or the retract phase of a cylinder. In the opposite phase (not regulated) the cylinder goes at the maximum speed.



G1/8"

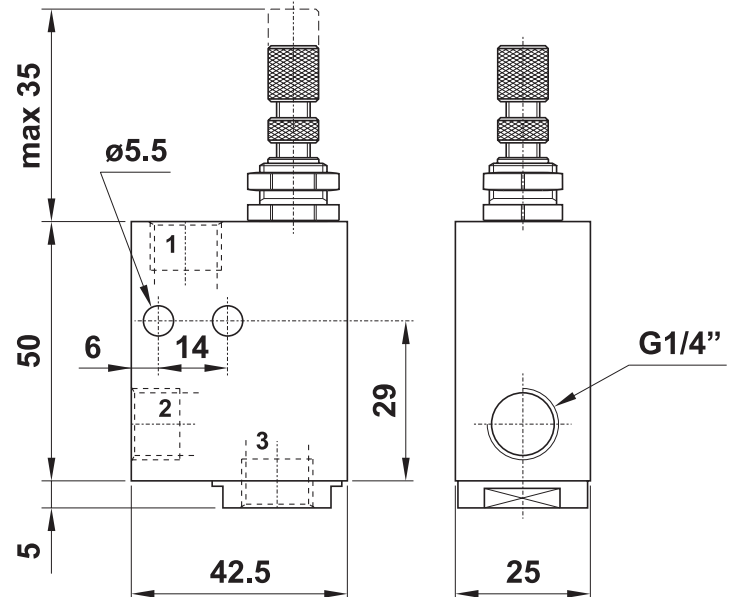
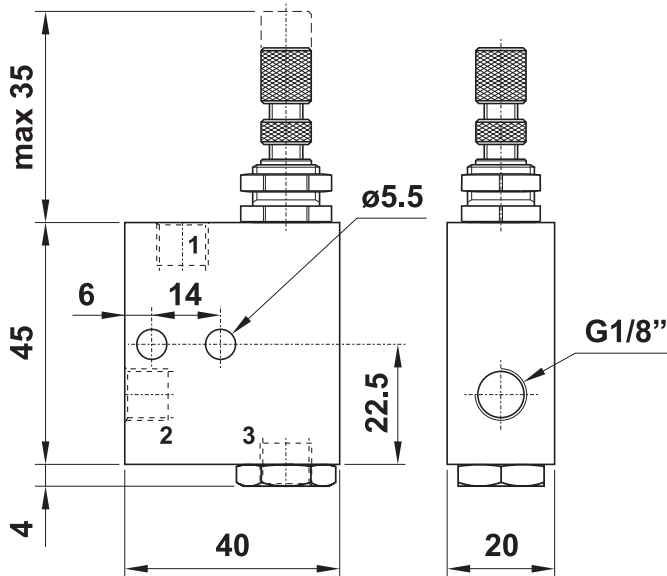
CODICE DI ORDINAZIONE
ORDER CODE

10.015.4

G1/4"

CODICE DI ORDINAZIONE
ORDER CODE

10.016.4



Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Internal parts: brass OT58

Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

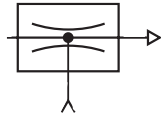
valvole a depressione

vacuum generators



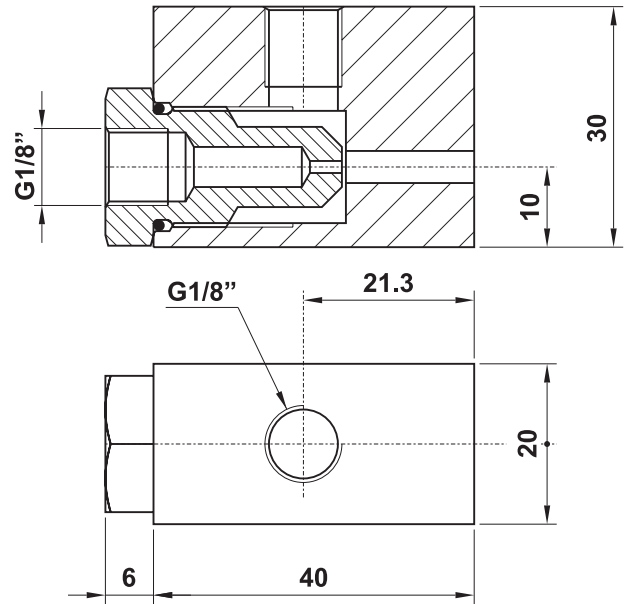
DP 2010 E

depressore diretto
direct vacuum generator



È una valvola di semplice e compatta costruzione che genera il vuoto all'immissione di aria compressa. Il vuoto cessa immediatamente al venir meno del flusso d'aria.

It is a simple valve of compact construction which generates a vacuum when compressed air is applied. The vacuum ceases immediately when the air supply is removed.



Materiali

Corpo: alluminio 11S

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Seals: NBR

Internal parts: brass OT58

Attacchi <i>Ports</i>	G1/8"
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Massimo vuoto ottenibile (tra 4 e 6 bar) <i>Maximum vacuum capability (between 4 and 6 bar)</i>	0.75 bar 0.075 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

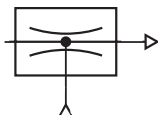
valvole a depressione

vacuum generators



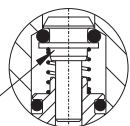
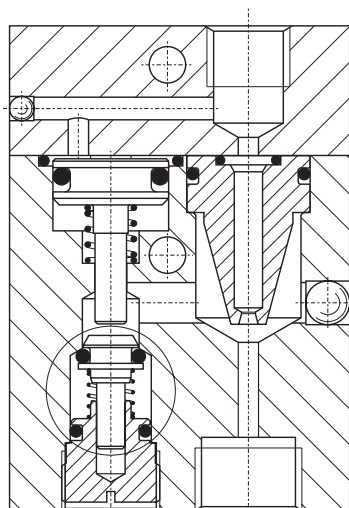
DP 2018 F

valvola a 2 vie con depressore
two way vacuum generator



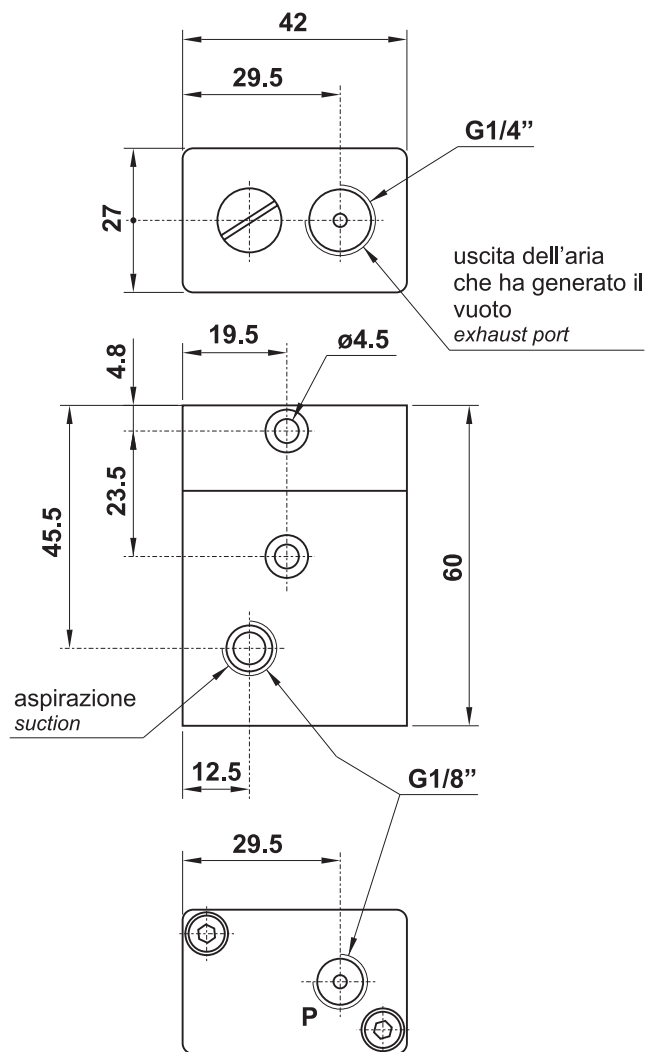
È una valvola a due vie che genera il vuoto se alimentata con aria compressa. La valvola di non ritorno integrata permette di mantenere il vuoto anche in mancanza di aria in entrata. Per applicazioni che non richiedono la permanenza del vuoto ma la sua immediata scomparsa al venir meno dell'alimentazione, è possibile asportare la valvola di non ritorno come da schema qui riportato.

This two-way valve with integral non-return valve generates a vacuum when air is applied to the pressure port. For applications that do not require a sustained vacuum the valve can be used without the integral non-return valve.



Valvola di intercettazione del vuoto: fa sì che il vuoto si conservi anche in mancanza di aria al punto P. Togliendo l'otturatore e la molla il vuoto cessa immediatamente al venir meno della pressione al punto P.

Vacuum check valve: it maintains the vacuum when the air at point P has been removed. By removing the poppet valve and the spring, the vacuum will decay when pressure ceases.



Consumo di aria a 6 bar <i>Air consumption at 6 bar</i>	100 NI/min
Capacità di aspirazione a 6 bar <i>Suction capability at 6 bar</i>	16 NI/min
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Massimo vuoto ottenibile (tra 4 e 8 bar) <i>Maximum vacuum capability (between 4 and 8 bar)</i>	0.75 bar 0.075 MPa
Fluido <i>Fluid</i>	Aria filtrata 50μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>

Materiali
Corpo: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Parti interne: ottone OT58

Materials
Body: aluminium 11S
Springs: stainless steel
Seals: NBR
Internal parts: brass OT58

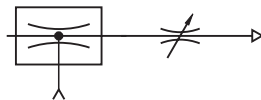
valvole a depressione

vacuum generators



DP 2005

spruzzatore a depressione
vacuum driven liquid sprayer

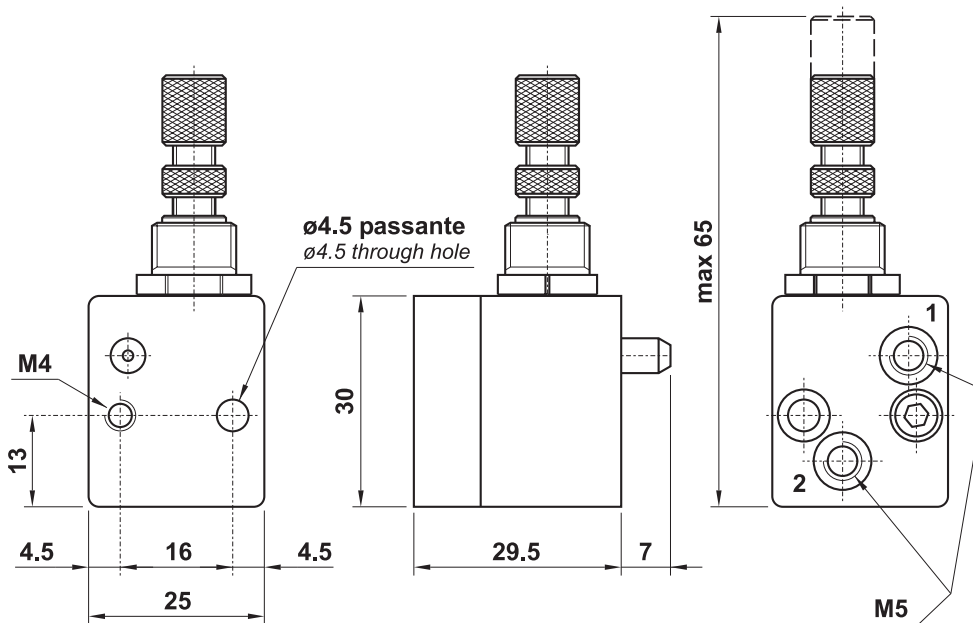


È una valvola basata sul principio del venturi e primariamente utilizzata per spruzzare e nebulizzare liquido.

This valve works on the venturi principal and is primarily used for air driven liquid spraying applications such as conveyor lubrication and sawing machines.



- 1 = attacco per l'aria
air inlet
- 2 = attacco per il liquido da aspirare
liquid inlet



Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

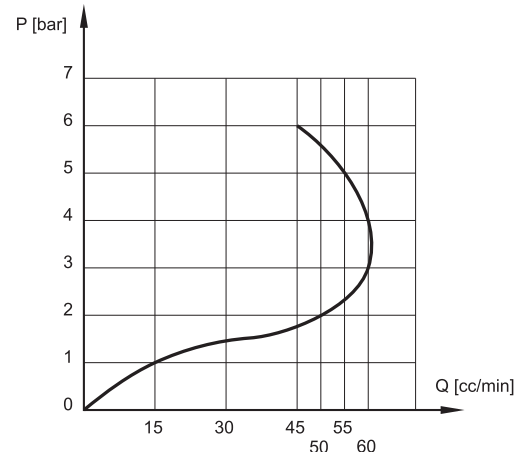
Springs: stainless steel

Seals: NBR

Internal parts: brass OT58

Viscosità del liquido <i>Viscosity of liquid</i>	3°E ... 5°E
Attacchi <i>Ports</i>	M5
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	3 ... 8 bar 0.3 ... 0.8 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

Quantità di liquido aspirato in funzione della pressione di alimentazione
Quantity of liquid in relation to line pressure



valvole a depressione

vacuum generators

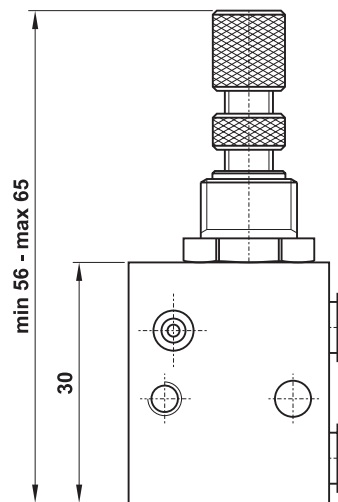
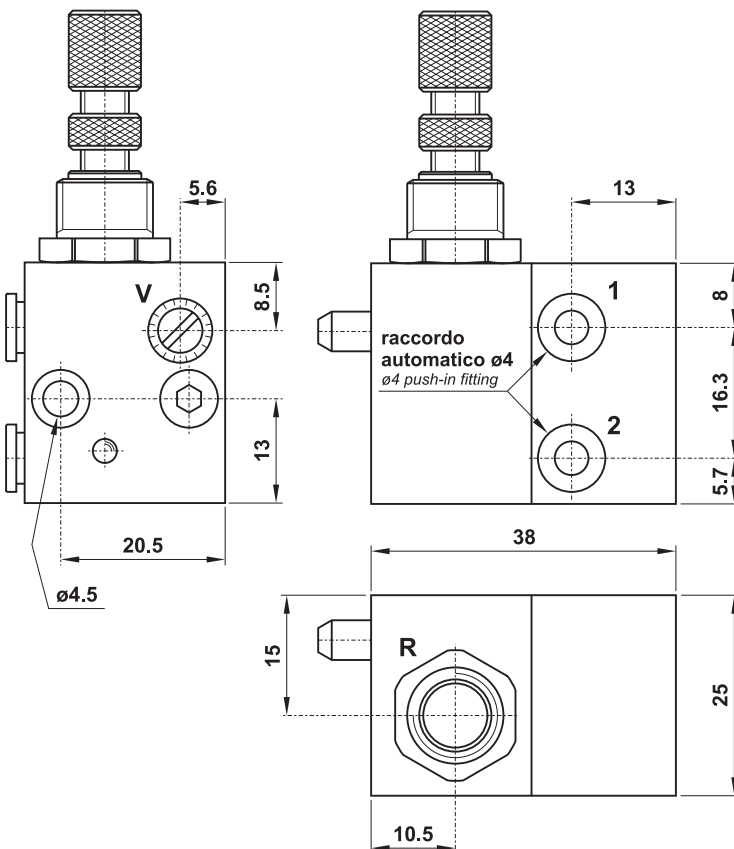
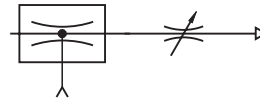


AT.005.4

spruzzatore a depressione con raccordi automatici per tubo $\varnothing 4$
vacuum driven liquid sprayer with push-in fittings for $\varnothing 4$ tube

È una valvola basata sul principio del venturi e primariamente utilizzata per spruzzare e nebulizzare liquido.

This valve works on the venturi principle and is primarily used for air driven liquid spraying applications such as conveyor lubrication and sawing machines.



- R** = regolazione quantità di liquido aspirato
regulation of sprayed fluid
- V** = regolazione portata d'aria in entrata
regulation of inlet air

Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

Materials

Body: aluminium 11S

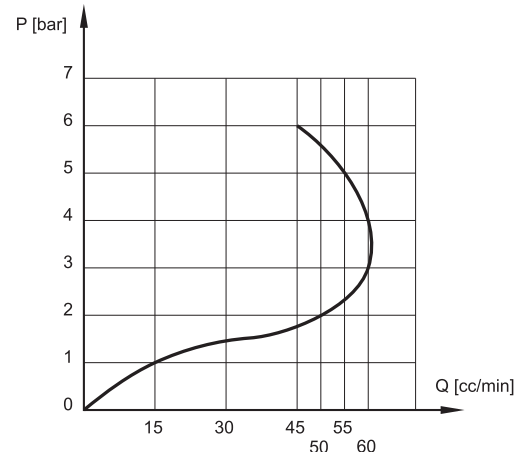
Springs: stainless steel

Seals: NBR

Internal parts: brass OT58

Viscosità del liquido <i>Viscosity of liquid</i>	3°E ... 5°E
Attacchi <i>Ports</i>	automatici $\varnothing 4$ push-in $\varnothing 4$
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	3 ... 8 bar 0.3 ... 0.8 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 μ con o senza lubrificazione 50 μ filtered, lubricated or non lubricated air

Quantità di liquido aspirato in funzione della pressione di alimentazione con la vite V totalmente aperta
Quantity of sprayed liquid in relation to line pressure with screw V totally open





	pagina page
• Microcilindri ISO 6432 <i>Minicylinders ISO 6432</i>	265
• Fissaggi per microcilindri ISO 6432 <i>Fixing elements for minicylinders ISO 6432</i>	271
• Cilindri a cartuccia <i>Cartridge cylinders</i>	276
• Cilindri tondi <i>Round cylinders</i>	278
• Fissaggi per cilindri tondi <i>Fixing elements for round cylinders</i>	285
• Cilindri ISO 6431 VDMA <i>Cylinders ISO 6431 VDMA</i>	287
• Fissaggi per cilindri ISO 6431 VDMA <i>Fixing elements for cylinders ISO 6431 VDMA</i>	301
• Cilindri compatti <i>Compact cylinders</i>	312
• Fissaggi per cilindri compatti <i>Fixing elements for compact cylinders</i>	328
• Cilindri corsa breve <i>Short stroke cylinders</i>	333
• Cilindri ad asta gemellata <i>Twin rod cylinders</i>	344
• Bloccastelo <i>Rod blocking device</i>	351
• Accessori per cilindri <i>Accessories for cylinders</i>	354
• Unità di guida <i>Guiding units</i>	358
• Sensori per cilindri <i>Magnetic sensors for cylinders</i>	364

microcilindri ISO 6432

minicylinders ISO 6432



- Conformi alla norma ISO 6432
Compliant to norm ISO 6432
- Grande affidabilità e lunga durata
High reliability and long life time
- Versione a doppio effetto, magnetica o non magnetica
Magnetic or non-magnetic double acting version
- Versione a semplice effetto non magnetica
Non-magnetic single acting version
- Esecuzioni speciali a richiesta
Special versions on request



Materiali

Camicia: INOX

Stelo: INOX

Testate: alluminio anodizzato

Guarnizioni: NBR o VITON

Magnete: plastroferrite

Materials

Barrel: stainless steel

Piston-rod: stainless steel

End-cups: aluminium (anodize treatment)

Sealings: NBR or VITON

Magnet: magnetic iron compound

Forze di ritorno della molla per cilindri a semplice effetto

Return spring forces for single acting cylinders

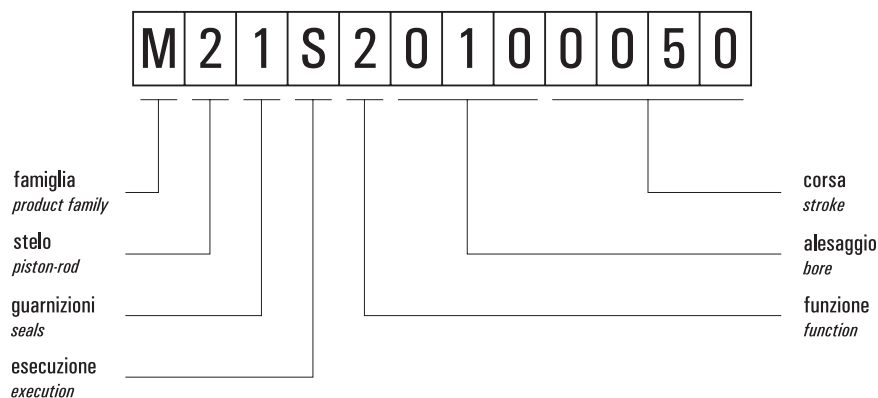
alesaggio <i>bore</i>	forza di ritorno della molla <i>return spring force</i>			stato della molla <i>spring status</i>
	corsa 10 [stroke]	corsa 25 [stroke]	corsa 50 [stroke]	
10	4.1 N	3.5 N	2.6 N	a riposo [at rest]
	4.5 N	4.5 N	4.5 N	compressa [compressed]
12	5.5 N	4.8 N	3.5 N	a riposo [at rest]
	6 N	6 N	6 N	compressa [compressed]
16	16.5 N	13.7 N	9 N	a riposo [at rest]
	18.3 N	18.3 N	18.3 N	compressa [compressed]
20	19 N	15.5 N	9.5 N	a riposo [at rest]
	21.5 N	21.5 N	21.5 N	compressa [compressed]
25	27 N	24 N	13.5 N	a riposo [at rest]
	29 N	29 N	29 N	compressa [compressed]

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Alesaggi <i>Bores</i>	10; 12; 16; 20; 25 mm
Corse <i>Strokes</i>	10 ... 320 mm
Paracolpi meccanici <i>Mechanical cushioning</i>	Standard su tutta la gamma <i>Standard on the whole range</i>
Ammortizzo pneumatico <i>Pneumatic cushioning</i>	Disponibile per alesaggio 20 e 25 <i>Available for bore 20 and 25</i>
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>



chiave di codifica

key to codes



Famiglia *[product family]*

M microcilindri ISO 6432 *[minicylinders ISO 6432]*

Stelo *[piston-rod]*

2 INOX *[stainless steel]*

Guarnizioni *[seals]*

1 NBR

2 VITON

Esecuzione *[execution]*

S non magnetico *[non-magnetic]*

M magnetico *[magnetic]*

A non magnetico predisposto per bloccastelo *[non-magnetic with rod lock adaptor]*

B magnetico predisposto per bloccastelo *[magnetic with rod lock adaptor]*

Funzione *[function]*

1 semplice effetto non ammortizzato molla anteriore
[single acting front spring without pneumatic cushioning]

2 doppio effetto non ammortizzato
[double acting without pneumatic cushioning]

3 doppio effetto ammortizzato
[double acting with pneumatic cushioning]

4 doppio effetto non ammortizzato stelo passante
[double acting without pneumatic cushioning, with passing-through rod]

5 doppio effetto ammortizzato stelo passante
[double acting with pneumatic cushioning and passing-through rod]

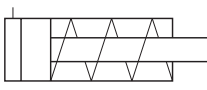
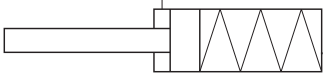
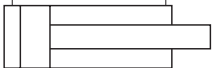
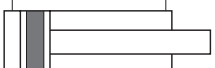
6 semplice effetto non ammortizzato molla posteriore
[single acting back spring without pneumatic cushioning]

4



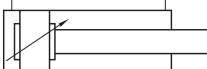
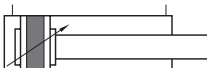
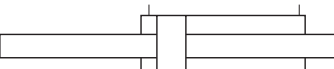
versioni disponibili

available versions

	alesaggio		10	12	16	20	25		
	corsa	bore							
semplice effetto molla anteriore <i>single acting front spring</i> non magnetico <i>non-magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>								OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>	
	10	X	X	X	X	X	X		materiale stelo [piston-rod material] INOX <i>stainless steel</i> materiale guarnizioni [seals material] NBR VITON
	25	X	X	X	X	X	X		
	50	X	X	X	X	X	X		
								pre-disposizione per bloccastelo <i>rod lock adaptor</i> non disponibile per l'alesaggio 10 <i>not available for bore 10</i>	
semplice eff. molla posteriore <i>single acting back spring</i> non magnetico <i>non-magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>				X	X	X			
	10				X	X	X		
	25				X	X	X		
	50				X	X	X		
									
doppio effetto <i>double acting</i> non magnetico <i>non-magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>								OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>	
	10	X	X	X	X	X	X		materiale stelo [piston-rod material] INOX <i>stainless steel</i> materiale guarnizioni [seals material] NBR VITON
	25	X	X	X	X	X	X		
	50	X	X	X	X	X	X		
	80	X	X	X	X	X	X		pre-disposizione per bloccastelo <i>rod lock adaptor</i> non disponibile per l'alesaggio 10 <i>not available for bore 10</i>
	100	X	X	X	X	X	X		
	125	X	X	X	X	X	X		
	160	X	X	X	X	X	X		
	200	X	X	X	X	X	X		
	250			X	X	X			
320			X	X	X				
									
doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>								OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>	
	10	X	X	X	X	X	X		materiale stelo [piston-rod material] INOX <i>stainless steel</i> materiale guarnizioni [seals material] NBR VITON
	25	X	X	X	X	X	X		
	50	X	X	X	X	X	X		
	80	X	X	X	X	X	X		pre-disposizione per bloccastelo <i>rod lock adaptor</i> non disponibile per l'alesaggio 10 <i>not available for bore 10</i>
	100	X	X	X	X	X	X		
	125	X	X	X	X	X	X		
	160	X	X	X	X	X	X		
	200	X	X	X	X	X	X		
	250			X	X	X			
320			X	X	X				
									

versioni disponibili

available versions

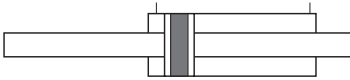
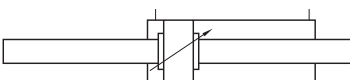
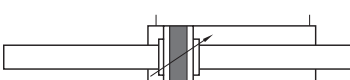
	alesaggio		10	12	16	20	25	
	corsa	bore						
	stroke							
<p>doppio effetto <i>double acting</i> non magnetico <i>non-magnetic</i> ammortizzato <i>with pneumatic cushioning</i></p> 								<p>OPZIONI <i>options</i></p> <p>Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i></p> <p>materiale stelo <i>[piston-rod material]</i></p> <p>INOX <i>stainless steel</i></p> <p>materiale guarnizioni <i>[seals material]</i></p> <p>NBR VITON</p> <p>predisposizione per bloccastelo <i>rod lock adaptor</i></p>
	10							
	25					X	X	
	50					X	X	
	80					X	X	
	100					X	X	
	125					X	X	
	160					X	X	
	200					X	X	
	250					X	X	
320					X	X		
<p>doppio effetto <i>double acting</i> magnetico <i>non-magnetic</i> ammortizzato <i>with pneumatic cushioning</i></p> 								<p>OPZIONI <i>options</i></p> <p>Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i></p> <p>materiale stelo <i>[piston-rod material]</i></p> <p>INOX <i>stainless steel</i></p> <p>materiale guarnizioni <i>[seals material]</i></p> <p>NBR VITON</p> <p>predisposizione per bloccastelo <i>rod lock adaptor</i></p>
	10							
	25					X	X	
	50					X	X	
	80					X	X	
	100					X	X	
	125					X	X	
	160					X	X	
	200					X	X	
	250					X	X	
320					X	X		
<p>doppio effetto <i>double acting</i> non magnetico <i>non-magnetic</i> non ammortizzato <i>without pneumatic cushioning</i> stelo passante <i>passing-through rod</i></p> 								<p>OPZIONI <i>options</i></p> <p>Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i></p> <p>materiale stelo <i>[piston-rod material]</i></p> <p>INOX <i>stainless steel</i></p> <p>materiale guarnizioni <i>[seals material]</i></p> <p>NBR VITON</p> <p>predisposizione per bloccastelo <i>rod lock adaptor</i></p>
	10			X	X	X		
	25			X	X	X		
	50			X	X	X		
	80			X	X	X		
	100			X	X	X		
	125			X	X	X		
	160			X	X	X		
	200			X	X	X		
	250			X	X	X		
320			X	X	X			

4



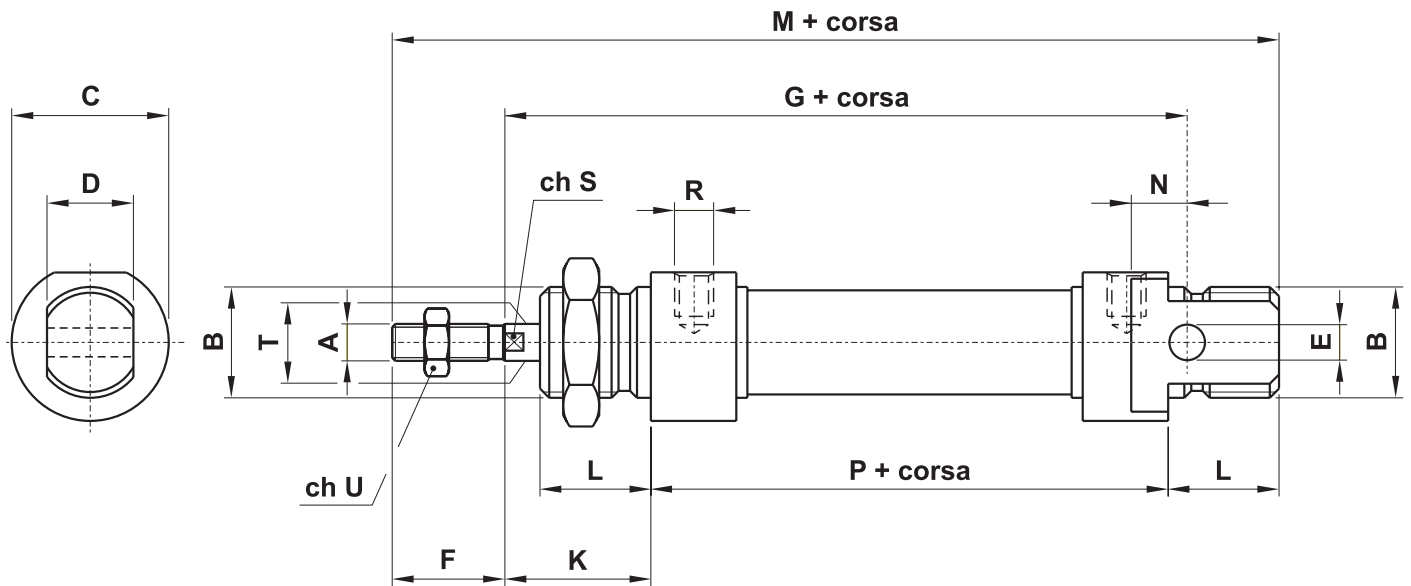
versioni disponibili

available versions

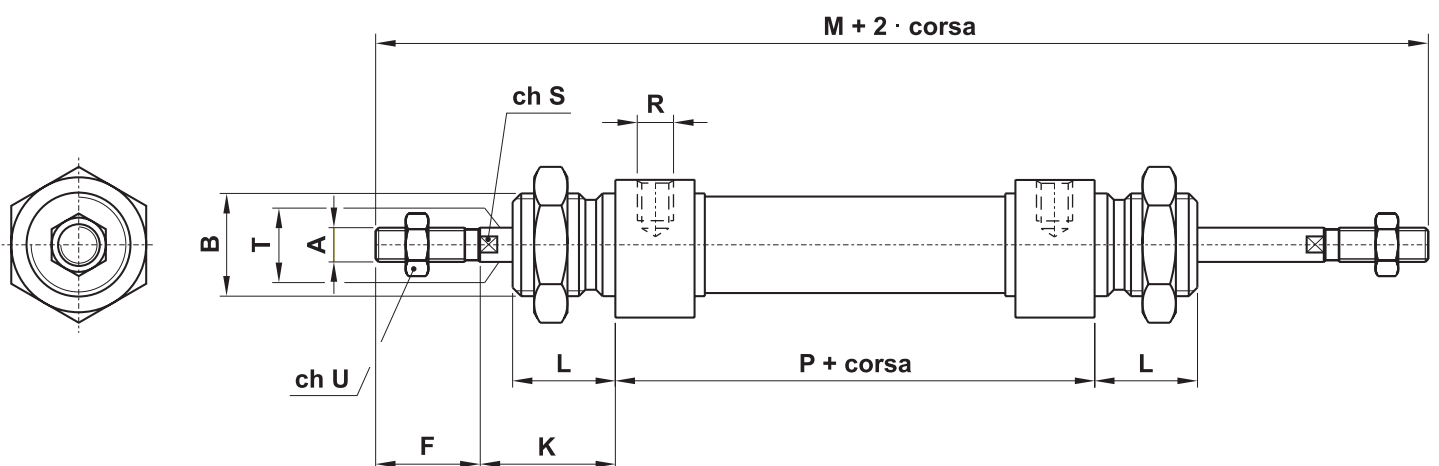
	alesaggio		10	12	16	20	25	
	corsa	bore						
	stroke							
<p>doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i> stelo passante <i>passing-through rod</i></p> 	10				X	X	X	<p>OPZIONI <i>options</i></p> <p>Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i></p> <p>materiale stelo [piston-rod material]</p> <p>INOX <i>stainless steel</i></p> <p>materiale guarnizioni [seals material]</p> <p>NBR VITON</p> <p>predisposizione per bloccastelo <i>rod lock adaptor</i></p>
	25				X	X	X	
	50				X	X	X	
	80				X	X	X	
	100				X	X	X	
	125				X	X	X	
	160				X	X	X	
	200				X	X	X	
	250				X	X	X	
	320				X	X	X	
<p>doppio effetto <i>double acting</i> non magnetico <i>non-magnetic</i> ammortizzato <i>with pneumatic cushioning</i> stelo passante <i>passing-through rod</i></p> 	10							<p>OPZIONI <i>options</i></p> <p>Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i></p> <p>materiale stelo [piston-rod material]</p> <p>INOX <i>stainless steel</i></p> <p>materiale guarnizioni [seals material]</p> <p>NBR VITON</p> <p>predisposizione per bloccastelo <i>rod lock adaptor</i></p>
	25					X	X	
	50					X	X	
	80					X	X	
	100					X	X	
	125					X	X	
	160					X	X	
	200					X	X	
	250					X	X	
	320					X	X	
<p>doppio effetto <i>double acting</i> magnetico <i>magnetic</i> ammortizzato <i>with pneumatic cushioning</i> stelo passante <i>passing-through rod</i></p> 	10							<p>OPZIONI <i>options</i></p> <p>Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i></p> <p>materiale stelo [piston-rod material]</p> <p>INOX <i>stainless steel</i></p> <p>materiale guarnizioni [seals material]</p> <p>NBR VITON</p> <p>predisposizione per bloccastelo <i>rod lock adaptor</i></p>
	25					X	X	
	50					X	X	
	80					X	X	
	100					X	X	
	125					X	X	
	160					X	X	
	200					X	X	
	250					X	X	
	320					X	X	

microcilindri ISO 6432

minicylinders ISO 6432



∅	A	B	C	D	E	F	G	K	L	M	N	P	R	S	T	U
10	M4	M12x1.25	∅16	8	∅4	12	64	16	12	86	6	46	M5	-	∅4	7
12	M6	M16x1.5	∅19	12	∅6	16	75	22	18	104	9	48	M5	5	∅6	10
16	M6	M16x1.5	∅19	12	∅6	16	82	22	18	109	9	53	M5	5	∅6	10
20	M8	M22x1.5	∅27	16	∅8	20	95	24	20	131	12	67	G1/8"	7	∅8	13
25	M10x1.25	M22x1.5	∅30	16	∅8	22	104	28	22	140	12	68	G1/8"	9	∅10	17



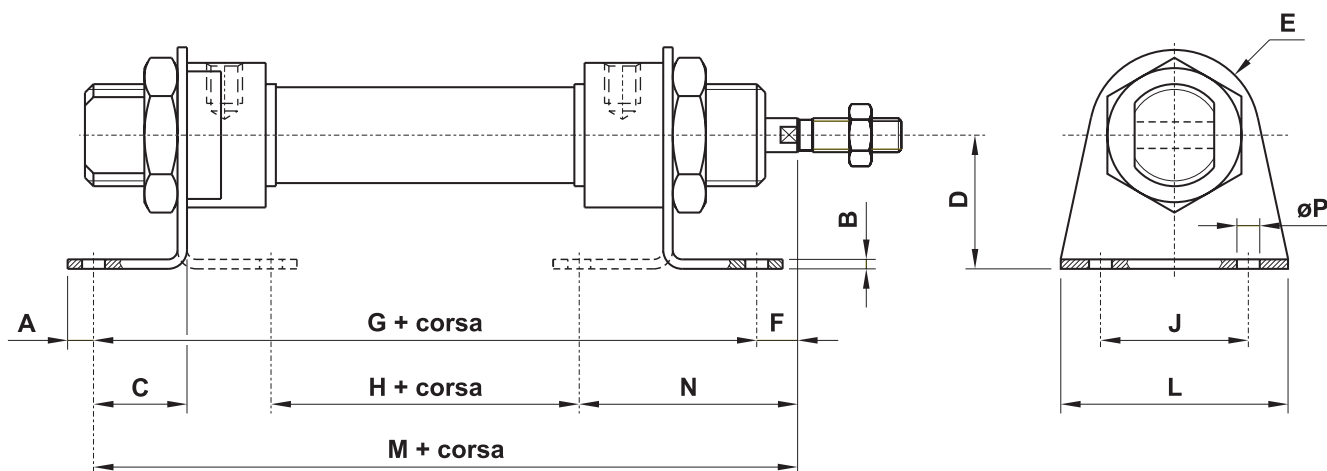
∅	A	B	F	K	L	M	P	R	S	T	U
16	M6	M16x1.5	16	22	18	129	53	M5	5	∅6	10
20	M8	M22x1.5	20	24	20	155	67	G1/8"	7	∅8	13
25	M10x1.25	M22x1.5	22	28	22	168	68	G1/8"	9	∅10	17

fissaggi per microcilindri ISO 6432

fixing elements for minicylinders ISO 6432

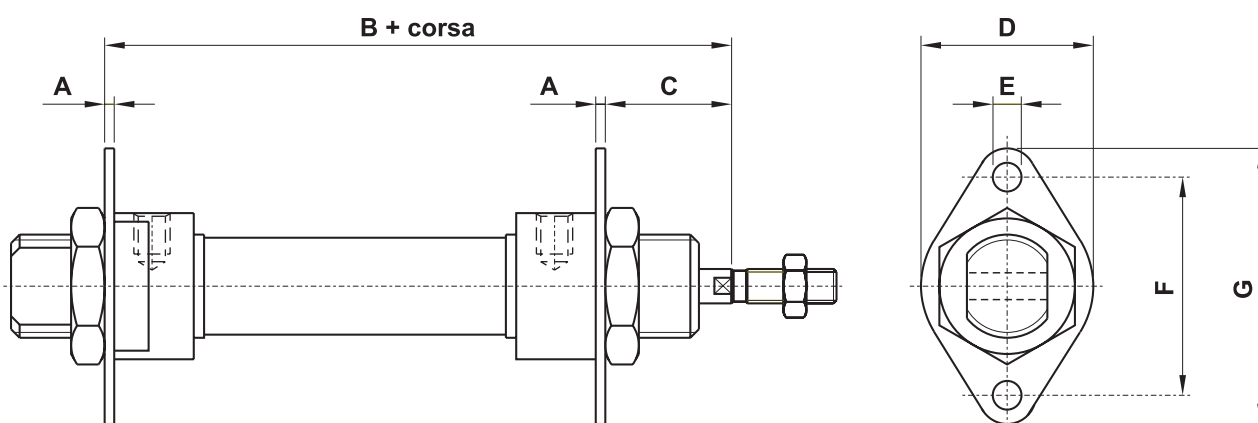


PIEDINO



\varnothing	A	B	C	D	E	F	G	H	J	L	M	N	P
10	5	3	11	16	10	5	68	30	25	32	73	24	4.5
12	6	4	14	20	12.5	8	76	28	32	42	84	32	5.5
16	6	4	14	20	12.5	8	81	33	32	42	89	32	5.5
20	8	5	17	25	20	7	101	43	40	54	108	36	6.6
25	8	5	17	25	20	11	102	44	40	54	113	40	6.6

FLANGIA



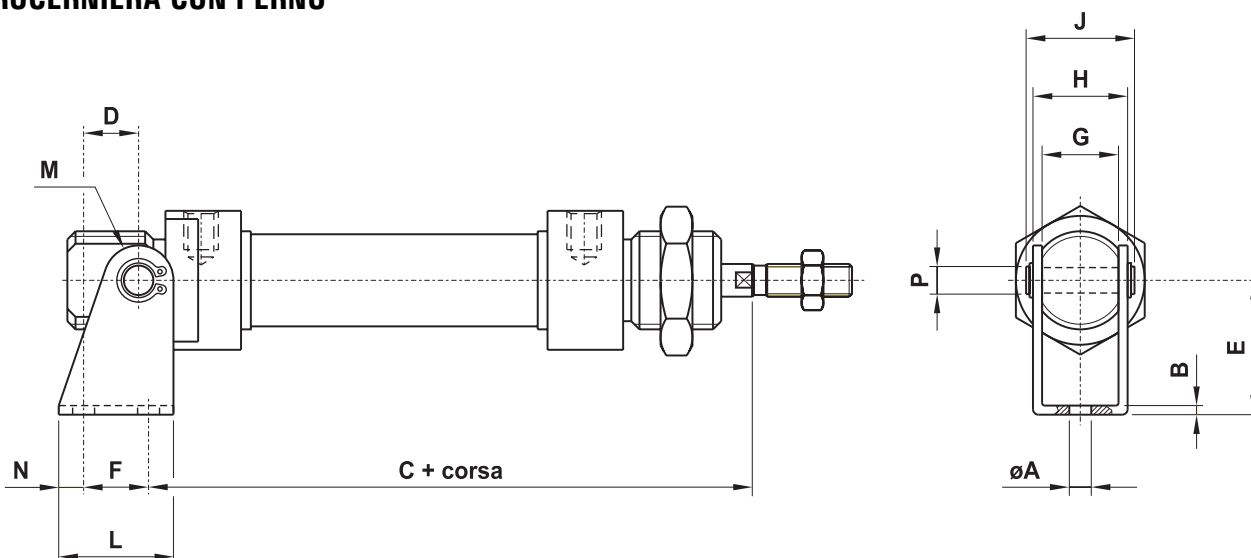
\varnothing	A	B	C	D	E	F	G
10	3	65	13	22	$\varnothing 4.5$	30	40
12	4	74	18	30	$\varnothing 5.5$	40	52
16	4	79	18	30	$\varnothing 5.5$	40	52
20	5	96	19	40	$\varnothing 6.6$	50	66
25	5	101	23	40	$\varnothing 6.6$	50	66

fissaggi per microcilindri ISO 6432

fixing elements for minicylinders ISO 6432

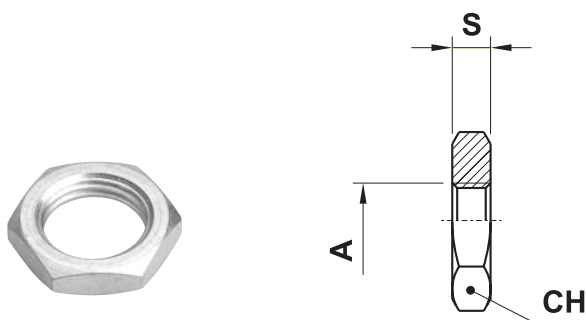


CONTROCERNIERA CON PERNO



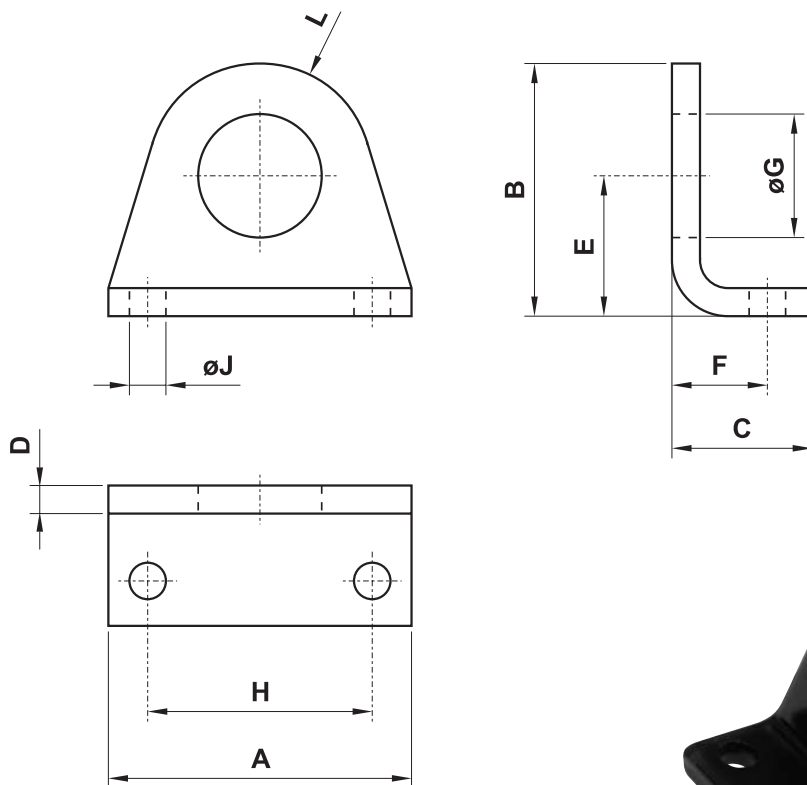
ø	A	B	C	D	E	F	G	H	J	L	M	N	P
10	4.5	2.5	62.5	12.25	24	12.5	8.1	13.1	17	22	5	4.75	ø4
12	5.5	3	73	13	27	15	12.1	18.1	23	25	7	5	ø6
16	5.5	3	80	13	27	15	12.1	18.1	23	25	7	5	ø6
20	6.6	4	91	16	30	20	16.1	24.1	30	32	10	6	ø8
25	6.6	4	100	16	30	20	16.1	24.1	30	32	10	6	ø8

DADO PER TESTATA



sigla part number	per alesaggio for bore	A	CH	S
GPM010	10	M12x1.25	19	6
GPM12-16	12-16	M16x1.5	22	8
GPM20-25	20-25	M22x1.5	27	8

PIEDINO

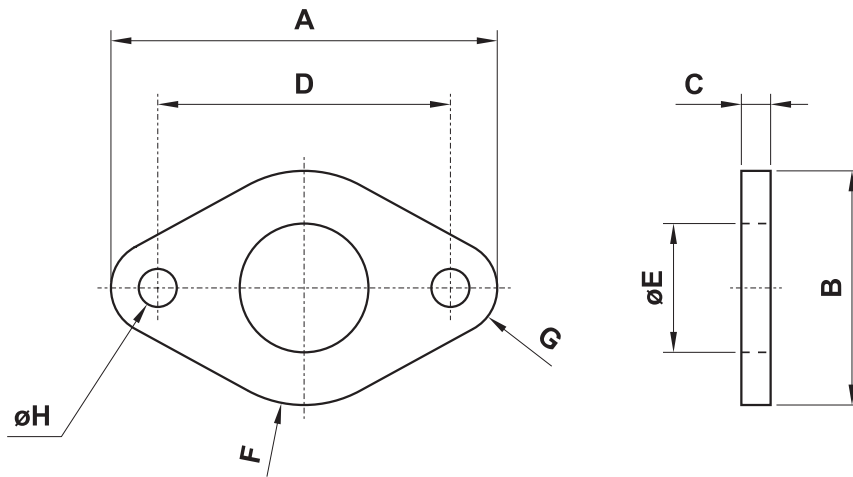


sigla* part number*	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L
PDMC08-10	8-10	35	26	16	3	16	11	12	25	4.5	10
PDMC12-16	12-16	42	32.5	20	4	20	14	16	32	5.5	12.5
PDMC20-25	20-25	54	45	25	5	25	17	22	40	6.6	20

* La sigla si riferisce a un solo piedino e non alla coppia

* The part number is referred to only one element and not to the couple

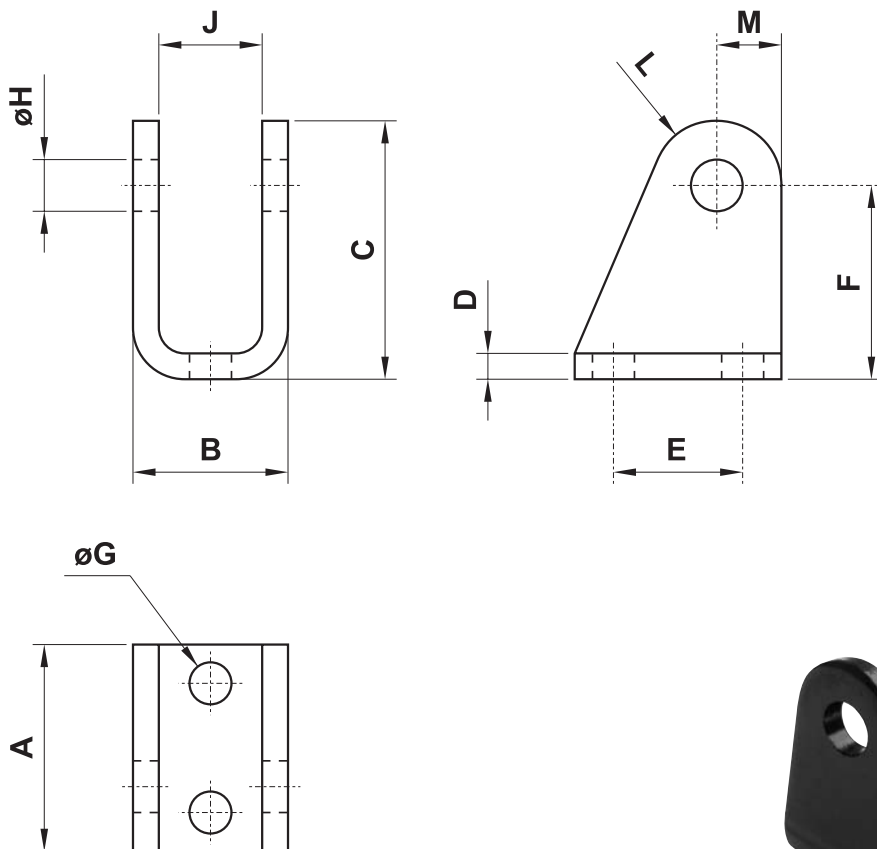
FLANGIA



sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	H
FLMC08-10	8-10	40	22	3	30	12	11	5	4.5
FLMC12-16	12-16	52	30	4	40	16	15	6	5.5
FLMC20-25	20-25	66	40	5	50	22	20	8	6.6

4

CONTROCERNIERA CON PERNO



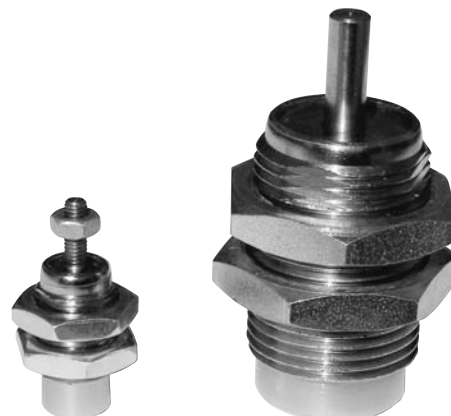
sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L	M
CCMC08-10	8-10	22	13.1	29	2.5	12.5	24	4.5	4	8.1	5	5
CCMC12-16	12-16	25	18.1	34	3	15	27	5.5	6	12.1	7	7
CCMC20-25	20-25	32	24.1	40	4	20	30	6.6	8	16.1	10	10

cilindri a cartuccia

cartridge cylinders



- Cilindri a semplice effetto con molla anteriore
Single acting cylinders with front spring
- Non magnetico
Non-magnetic
- Versione con stelo filettato o non filettato
Version with threaded or non-threaded piston rod
- Grande affidabilità e lunga durata
High reliability and long life time



Materiali

Camicia: ottone nichelato

Stelo: INOX

Dadi: acciaio zincato

Guarnizioni: poliuretano

Molla: acciaio

Materials

Barrel: nickel plated brass

Piston-rod: stainless steel

Nuts: zinc coated steel

Sealings: polyurethane

Spring: steel

AVVERTENZE - WARNING

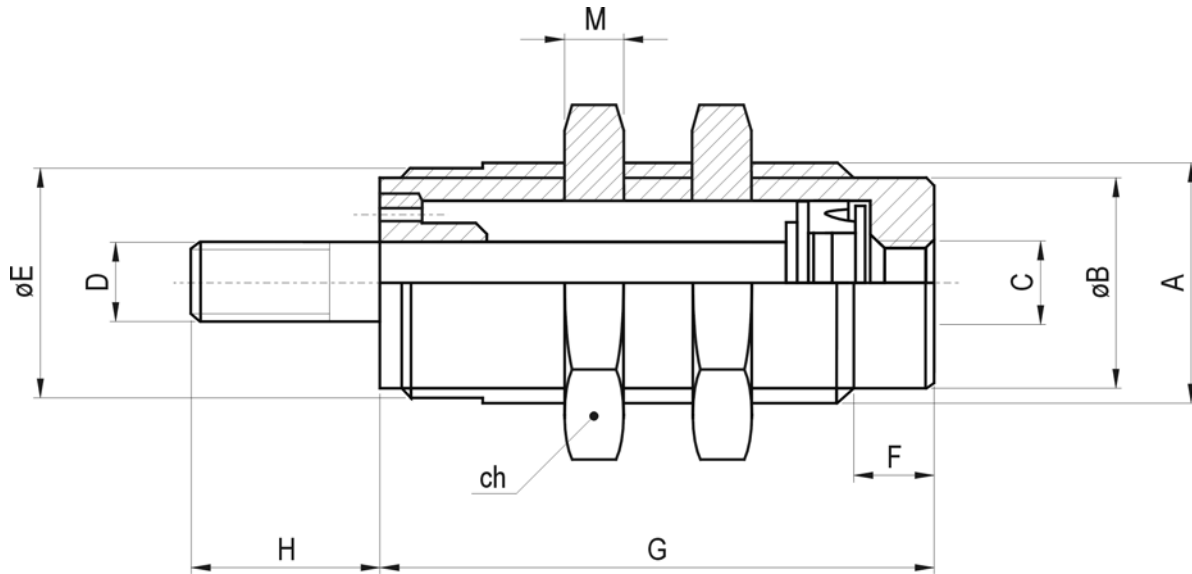
- Evitare carichi radiali sullo stelo
Avoid side loads on the piston rod

- Evitare di caricare lo stelo quando viene richiamato dalla molla
Do not load the piston rod during the spring retraction

Pressione di esercizio <i>Working pressure</i>	2 ... 7 bar 0.2 ... 0.7 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Alesaggi <i>Bores</i>	6; 10; 16 mm
Corse <i>Strokes</i>	5; 10; 15 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

cilindri a cartuccia

cartridge cylinders



alesaggio bore	A	B	C	D		øE	F	H	M	ch	G		
				con stelo filettato threaded piston rod	con stelo non filettato non-threaded piston rod						corsa cilindro [cyl. stroke]		
6	M10x1	8.5	M5	M3	ø3	9	5	8	3	14	5	10	15
10	M15x1.5	13	M5	M4	ø5	14	5	11.5	4	19	20.5	27	34
16	M22x1.5	19	M5	M5	ø5	20	6	14	5	27	23.5	29.5	36

FORZE a 6 bar - forces at 6 bar

alesaggio bore	forza in spinta press force	forza di ritorno della molla return spring force	
		corsa 0 [stroke 0]	fondo corsa [stroke end]
6	12 N	1.2 N	3.8 N
10	35 N	2.7 N	7.3 N
16	101 N	3.3 N	6.6 N

PESI - weights

alesaggio bore	corsa cilindro [cyl. stroke]		
	5	10	15
6	10 g	13 g	15 g
10	27 g	32 g	36 g
16	71 g	78 g	87 g

CODICI DI ORDINAZIONE - order codes

cilindri con stelo filettato - cylinders with threaded piston rod			
alesaggio bore	corsa - stroke		
	5	10	15
6	20.100.4	20.101.4	20.102.4
10	20.103.4	20.104.4	20.105.4
16	20.106.4	20.107.4	20.108.4

cilindri con stelo non filettato - cylinders with non-threaded piston rod			
alesaggio bore	corsa - stroke		
	5	10	15
6	20.109.4	20.110.4	20.111.4
10	20.112.4	20.113.4	20.114.4
16	20.115.4	20.116.4	20.117.4

cilindri tondi

round cylinders



- Valida alternativa alle esecuzioni tradizionali
Up-to-date alternative to traditional versions
- Grande affidabilità e lunga durata
High reliability and long life time
- Versione magnetica standard
Standard magnetic version
- Esecuzioni speciali a richiesta
Special versions on request



Materiali

Camicia: alluminio

Stelo: C45 cromato o INOX

Testate: alluminio

Pistone: alluminio

Guarnizioni: NBR o VITON

Magnete: plastroferrite

Guida pistone: teflon PTFE

Materials

Barrel: aluminium

Piston-rod: C45 (chromium plated) or stainless steel

End-cups: aluminium

Piston: aluminium

Sealings: NBR or VITON

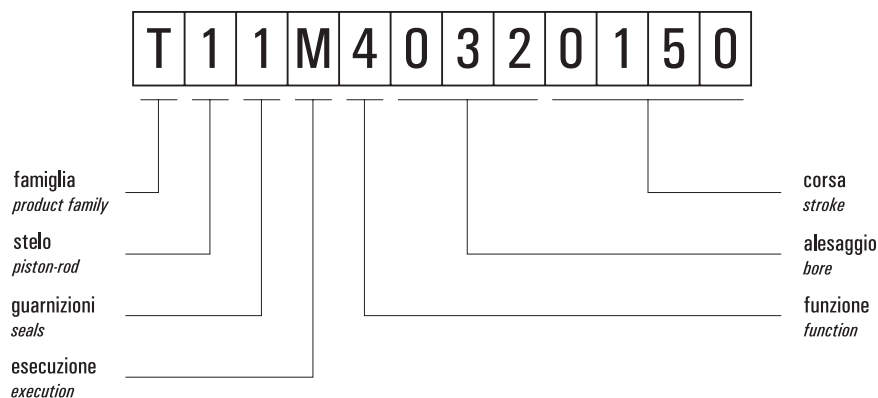
Magnet: magnetic iron compound

Piston guide ring: teflon PTFE

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Alesaggi <i>Bores</i>	32; 40; 50 mm
Corse <i>Strokes</i>	25 ... 500 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

chiave di codifica

key to codes



Famiglia *[product family]*

T cilindri tondi *[round cylinders]*

Stelo *[piston-rod]*

1 C45 cromato *[C45 chromium plated]*

2 INOX *[stainless steel]*

Guarnizioni *[seals]*

1 NBR

2 tutte le guarnizioni in VITON *[all seals in VITON]*

3 guarnizioni dello stelo in VITON *[rod seals in VITON]*

Esecuzione *[execution]*

M magnetico *[magnetic]*

Funzione *[function]*

2 doppio effetto non ammortizzato

[double acting without pneumatic cushioning]

3 doppio effetto ammortizzato

[double acting with pneumatic cushioning]

4 doppio effetto non ammortizzato stelo passante

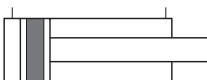
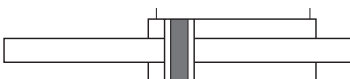
[double acting without pneumatic cushioning, with passing-through rod]

5 doppio effetto ammortizzato stelo passante

[double acting with pneumatic cushioning, with passing-through rod]

versioni disponibili

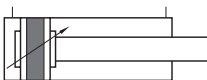
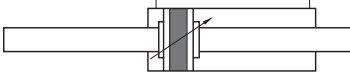
available versions

doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio		32	40	50	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>
	corsa	bore				
	25		X	X	X	materiale stelo [piston-rod material] C45 cromato <i>C45 chromium plated</i> INOX <i>stainless steel</i> materiale guarnizioni [seals material] NBR tutte in VITON <i>all seals in VITON</i> guarnizioni stelo in VITON <i>rod seals in VITON</i>
	50		X	X	X	
	75		X	X	X	
	80		X	X	X	
	100		X	X	X	
	125		X	X	X	
	150		X	X	X	
	160		X	X	X	
	200		X	X	X	
	250		X	X	X	
	300		X	X	X	
	320		X	X	X	
	400		X	X	X	
	500		X	X	X	
	doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i> stelo passante <i>passing-through rod</i>	alesaggio		32	40	
corsa		bore				
	25		X	X	X	materiale stelo [piston-rod material] C45 cromato <i>C45 chromium plated</i> INOX <i>stainless steel</i> materiale guarnizioni [seals material] NBR tutte in VITON <i>all seals in VITON</i> guarnizioni stelo in VITON <i>rod seals in VITON</i>
	50		X	X	X	
	75		X	X	X	
	80		X	X	X	
	100		X	X	X	
	125		X	X	X	
	150		X	X	X	
	160		X	X	X	
	200		X	X	X	
	250		X	X	X	
	300		X	X	X	
	320		X	X	X	
	400		X	X	X	
	500		X	X	X	

4

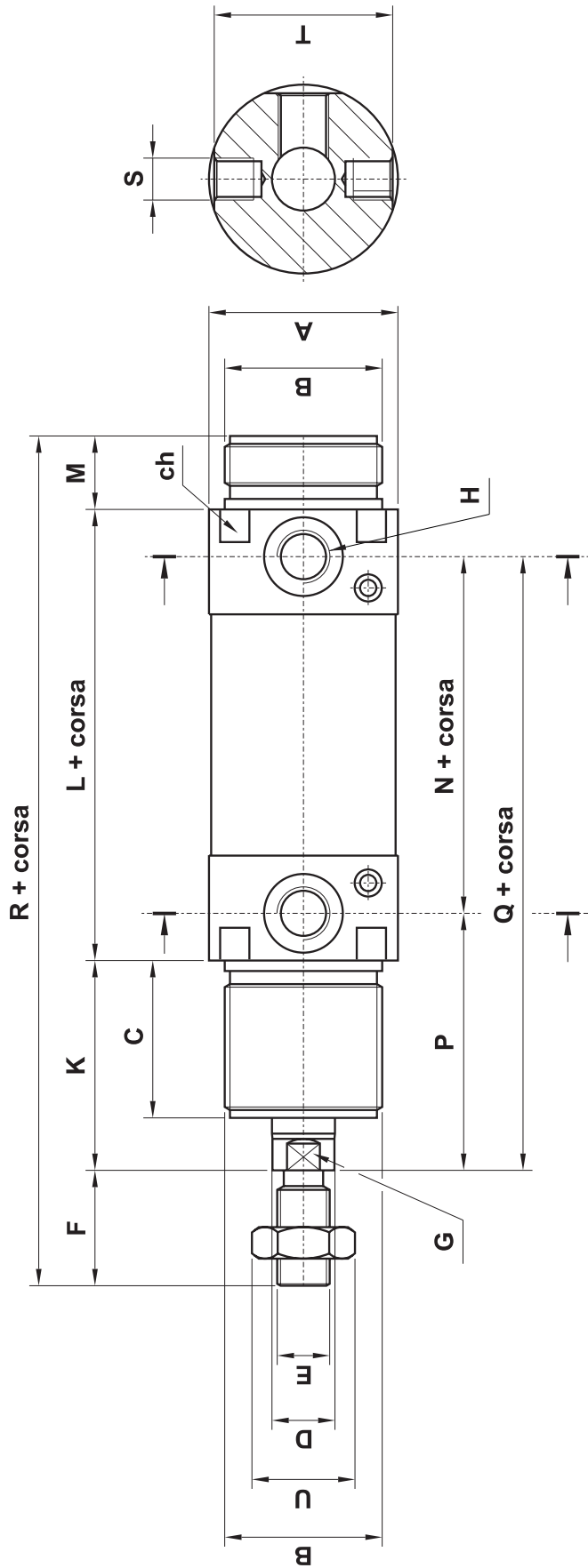
versioni disponibili

available versions

doppio effetto <i>double acting</i> magnetico <i>magnetic</i> ammortizzato <i>with pneumatic cushioning</i>	alesaggio		32	40	50	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>					
	corsa	bore									
	25		X	X	X	materiale stelo [piston-rod material] <table border="1"> <tr> <td>C45 cromato <i>C45 chromium plated</i></td> <td>INOX <i>stainless steel</i></td> </tr> </table> materiale guarnizioni [seals material] <table border="1"> <tr> <td>NBR</td> <td>tutte in VITON <i>all seals in VITON</i></td> <td>guarnizioni stelo in VITON <i>rod seals in VITON</i></td> </tr> </table>	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>
	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>									
	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>								
	50		X	X	X						
	75		X	X	X						
	80		X	X	X						
	100		X	X	X						
	125		X	X	X						
	150		X	X	X						
	160		X	X	X						
	200		X	X	X						
	250		X	X	X						
	300		X	X	X						
	320		X	X	X						
	400		X	X	X						
500		X	X	X							
doppio effetto <i>double acting</i> magnetico <i>magnetic</i> ammortizzato <i>with pneumatic cushioning</i> stelo passante <i>passing-through rod</i>	alesaggio		32	40	50	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>					
	corsa	bore									
	25		X	X	X	materiale stelo [piston-rod material] <table border="1"> <tr> <td>C45 cromato <i>C45 chromium plated</i></td> <td>INOX <i>stainless steel</i></td> </tr> </table> materiale guarnizioni [seals material] <table border="1"> <tr> <td>NBR</td> <td>tutte in VITON <i>all seals in VITON</i></td> <td>guarnizioni stelo in VITON <i>rod seals in VITON</i></td> </tr> </table>	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>
	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>									
	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>								
	50		X	X	X						
	75		X	X	X						
	80		X	X	X						
	100		X	X	X						
	125		X	X	X						
	150		X	X	X						
	160		X	X	X						
	200		X	X	X						
	250		X	X	X						
	300		X	X	X						
	320		X	X	X						
	400		X	X	X						
500		X	X	X							

cilindri tondi

round cylinders



\varnothing	A	B	C	D	E	F	G	H	ch	K	L	M	N	P	Q	R	S	T	U
32	$\varnothing 38$	M30x1.5	30	$\varnothing 12$	M10x1.25	20	CH 10	G1/8"	36	38	96	14	78	47	125	168	M8x1	35	CH 17
40	$\varnothing 46$	M38x1.5	35	$\varnothing 16$	M12x1.25	24	CH 13	G1/4"	45	45	113	16	89	57	146	198	M10x1	42	CH 19
50	$\varnothing 57$	M45x1.5	38	$\varnothing 20$	M16x1.5	32	CH 17	G1/4"	55	50	120	18	96	62	158	220	M12x1.5	53	CH 24

4

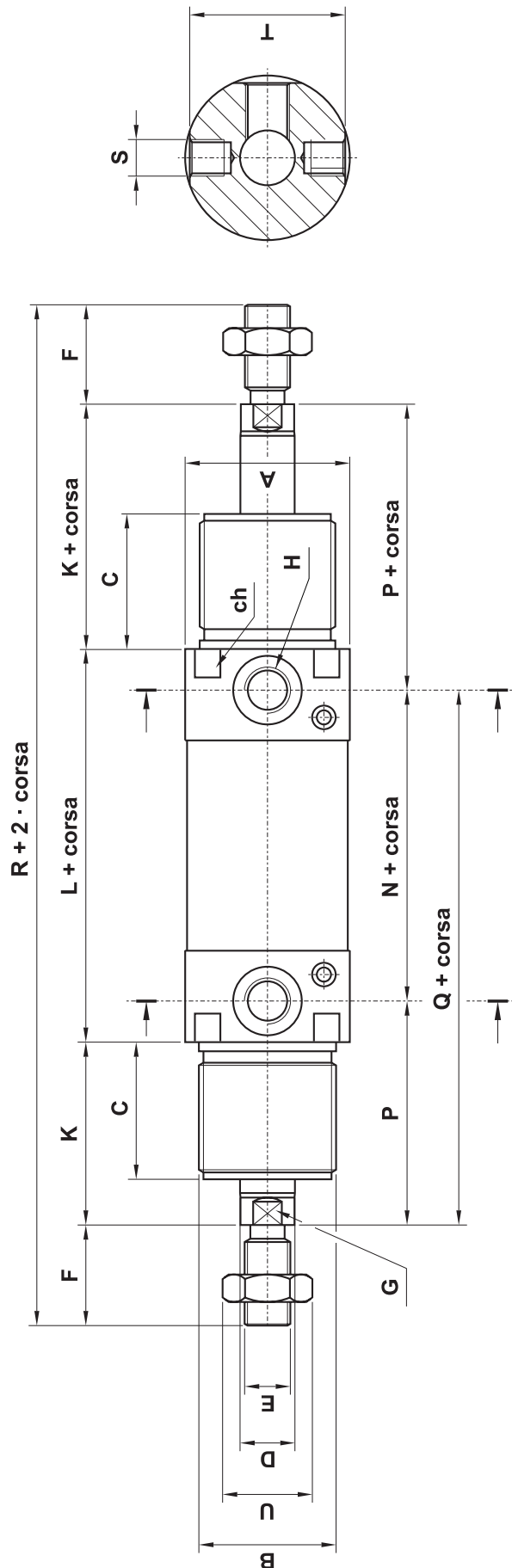
cilindri tondi

round cylinders



VERSIONE STELO PASSANTE

Version with passing-through rod



Ø	A	B	C	D	E	F	G	H	ch	K	L	N	P	Q	R	S	T	U
32	ø38	M30x1.5	30	ø12	M10x1.25	20	CH 10	G1/8"	36	38	96	78	47	125	212	M8x1	35	CH 17
40	ø46	M38x1.5	35	ø16	M12x1.25	24	CH 13	G1/4"	45	45	113	89	57	146	251	M10x1	42	CH 19
50	ø57	M45x1.5	38	ø20	M16x1.5	32	CH 17	G1/4"	55	50	120	96	62	158	284	M12x1.5	53	CH 24

kit guarnizioni di ricambio
seals kit

NBR - MAGNETICO

non ammortizzato			ammortizzato		
per alesaggio for bore	sigla part number	codice code	per alesaggio for bore	sigla part number	codice code
32	SGT032	26.192.2N	32	SGT032A	26.430.2
40	SGT040	26.193.2N	40	SGT040A	26.431.2
50	SGT050	26.194.2N	50	SGT050A	26.432.2

VITON - MAGNETICO

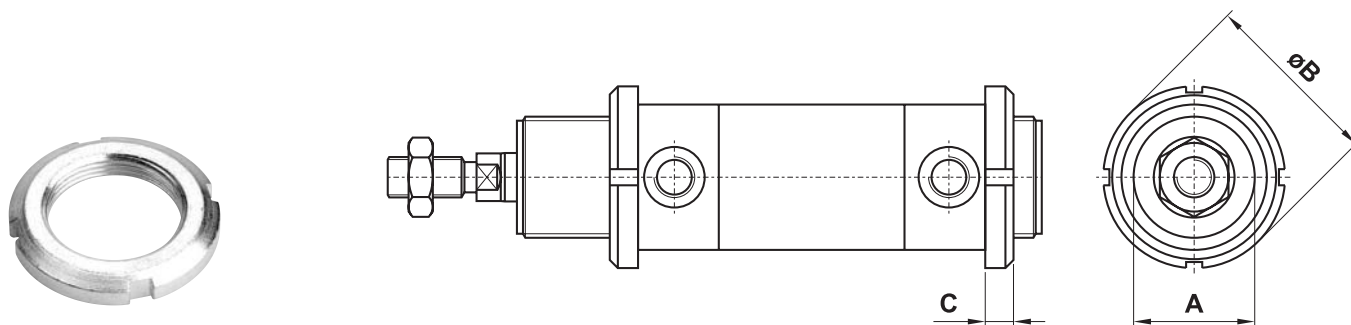
non ammortizzato			ammortizzato		
per alesaggio for bore	sigla part number	codice code	per alesaggio for bore	sigla part number	codice code
32	SGT032V	26.360.2N	32	SGT032AV	26.433.2
40	SGT040V	26.361.2N	40	SGT040AV	26.434.2
50	SGT050V	26.362.2N	50	SGT050AV	26.435.2

fissaggi per cilindri tondi

fixing elements for round cylinders

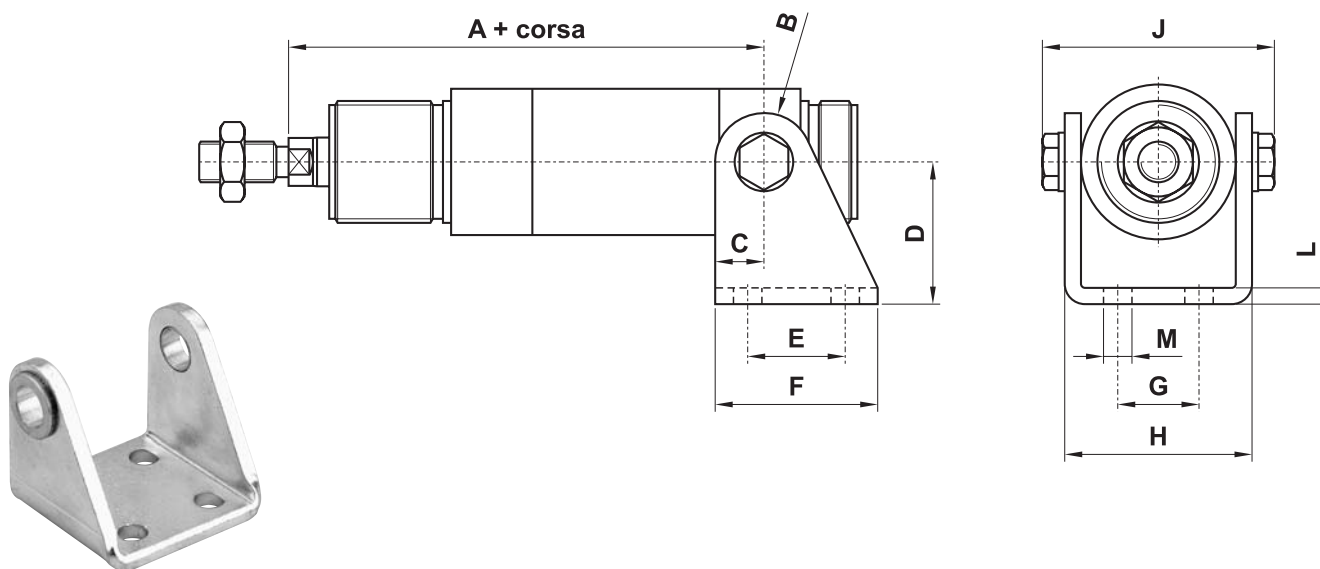


GHIERA



sigla part number	per alesaggio for bore	A	B	C
GPT032	32	M30x1.5	45	7
GPT040	40	M38x1.5	50	8
GPT050	50	M45x1.5	58	9

CONTROCERNIERA CON PERNO



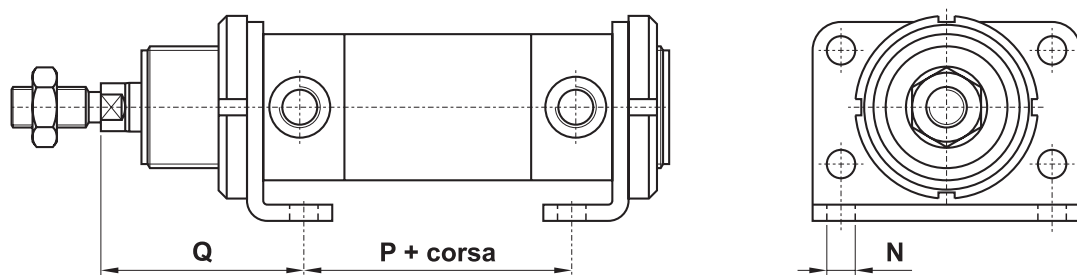
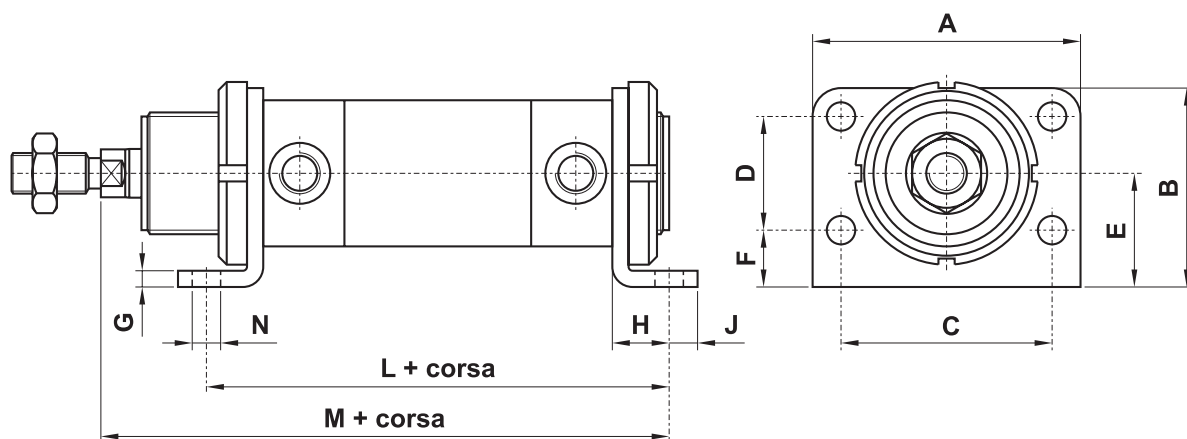
sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L	M
CCR032	32	125	12	12	35	24	40	20	46.1	58	4	ø7
CCR040	40	146	13	13	40	30	50	28	56.1	70	5	ø9
CCR050	50	158	14	14	45	34	54	36	69.1	86	6	ø9

fissaggi per cilindri tondi

fixing elements for round cylinders



PIEDINO



sigla* part number*	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L	M	N	P	Q
FPT032	32	66	49	52	28	28	14	4	14	7	124	148	ø7	76	48
FPT040	40	80	58	60	30	33	18	5	20	10	153	178	ø9	83	60
FPT050	50	90	70	70	40	40	20	6	20	10	160	190	ø9	92	64

* La sigla si riferisce a un solo piedino e non alla coppia

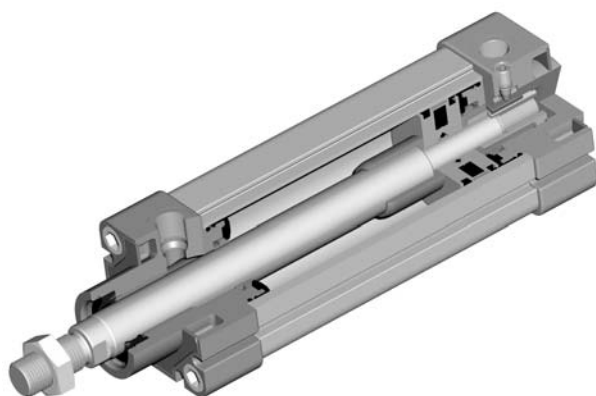
* The part number is referred to only one element and not to the couple

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



- Conformi alla norma ISO 6431 VDMA
Compliant to norm ISO 6431 VDMA
- Grande affidabilità e lunga durata
High reliability and long life time
- Versione magnetica standard
Standard magnetic version
- Esecuzioni e corse speciali a richiesta
Special versions and strokes on request



Materiali

Camicia: alluminio

Stelo: C45 cromato o INOX AISI 304

Testate: alluminio

Pistone: alluminio

Guarnizioni: NBR o VITON

Guarnizione stelo: poliuretano o VITON

Magnete: plastroferrite

Materials

Barrel: aluminium

Piston-rod: C45 (chromium plated) or stainless steel

End-cups: aluminium

Piston: aluminium

Sealings: NBR or VITON

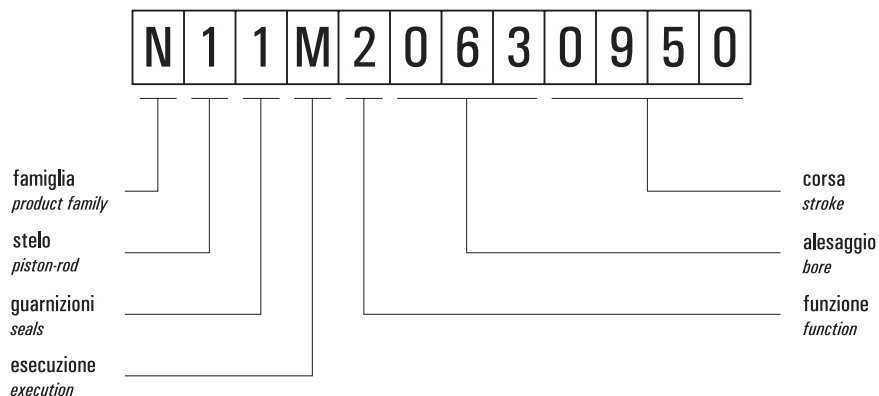
Piston-rod sealing: polyurethane or VITON

Magnet: magnetic iron compound

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	NBR: max +60°C VITON: max +110°C
Alesaggi <i>Bores</i>	32; 40; 50; 63; 80; 100; 125; 160; 200 mm
Tipo di costruzione <i>Construction type</i>	ø32 ... 125 : profilo quadro con cava centrale e cave laterali <i>ø32 ... 125 : square aluminium profile</i>
	ø160-200 : tubo tondo con tiranti INOX <i>ø160-200 : round profile with tie-rods in stainless steel</i>
Corse <i>Strokes</i>	25 ... 1000 mm
Ammortizzo pneumatico <i>Pneumatic cushioning</i>	Standard su tutta la gamma <i>Standard on the whole range</i>
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

chiave di codifica

key to codes



Famiglia *[product family]*

N cilindri ISO 6431 \varnothing 32 ... 200

Stelo *[piston-rod]*

- 1 C45 cromato *[C45 chromium plated]*
- 2 INOX *[stainless steel]*

Guarnizioni *[seals]*

- 1 NBR
- 2 tutte le guarnizioni in VITON *[all seals in VITON]*
- 3 guarnizioni dello stelo in VITON *[rod seals in VITON]*

Esecuzione *[execution]*

- M** magnetico *[magnetic]*
- B** magnetico predisposto per bloccastelo *[magnetic with rod lock adaptor]*

Funzione *[function]*

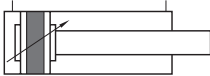
- 2** doppio effetto ammortizzato
[double acting with pneumatic cushioning]
- 4** doppio effetto ammortizzato stelo passante
[double acting with pneumatic cushioning, with passing-through rod]

4



versioni disponibili

available versions

doppio effetto <i>double acting</i> magnetico <i>magnetic</i> ammortizzato <i>with pneumatic cushioning</i>	alesaggio											
	corsa	bore	32	40	50	63	80	100	125	160	200	
	25		X	X	X	X	X	X	X			
	50		X	X	X	X	X	X	X	X	X	
	75		X	X	X	X	X	X	X			
	80		X	X	X	X	X	X	X	X	X	
	100		X	X	X	X	X	X	X	X	X	
	125		X	X	X	X	X	X	X			
	150		X	X	X	X	X	X	X	X	X	
	160		X	X	X	X	X	X	X	X	X	
	200		X	X	X	X	X	X	X	X	X	
	250		X	X	X	X	X	X	X	X	X	
	300		X	X	X	X	X	X	X	X	X	
	320		X	X	X	X	X	X	X	X	X	
	350		X	X	X	X	X	X	X			
	400		X	X	X	X	X	X	X	X	X	
	450		X	X	X	X	X	X	X			
	500		X	X	X	X	X	X	X	X	X	
	550		X	X	X	X	X	X	X			
	600		X	X	X	X	X	X	X	X	X	
	650		X	X	X	X	X	X	X			
	700		X	X	X	X	X	X	X	X	X	
750		X	X	X	X	X	X	X				
800		X	X	X	X	X	X	X	X	X		
850		X	X	X	X	X	X	X				
900		X	X	X	X	X	X	X	X	X		
950		X	X	X	X	X	X	X				
1000		X	X	X	X	X	X	X	X	X		
		corsa	bore	32	40	50	63	80	100	125	160	200
doppio effetto <i>double acting</i> magnetico <i>magnetic</i> ammortizzato <i>with pneumatic cushioning</i> stelo passante <i>passing-through rod</i>	25		X	X	X	X	X	X	X			
	50		X	X	X	X	X	X	X	X	X	X
	75		X	X	X	X	X	X	X			
	80		X	X	X	X	X	X	X	X	X	X
	100		X	X	X	X	X	X	X	X	X	X
	125		X	X	X	X	X	X	X			
	150		X	X	X	X	X	X	X	X	X	X
	160		X	X	X	X	X	X	X	X	X	X
	200		X	X	X	X	X	X	X	X	X	X
	250		X	X	X	X	X	X	X	X	X	X
	300		X	X	X	X	X	X	X	X	X	X
	320		X	X	X	X	X	X	X	X	X	X
	350		X	X	X	X	X	X	X			
	400		X	X	X	X	X	X	X	X	X	X
	450		X	X	X	X	X	X	X			
	500		X	X	X	X	X	X	X	X	X	X
	550		X	X	X	X	X	X	X			
	600		X	X	X	X	X	X	X	X	X	X
	650		X	X	X	X	X	X	X			
	700		X	X	X	X	X	X	X	X	X	X
750		X	X	X	X	X	X	X				
800		X	X	X	X	X	X	X	X	X	X	
850		X	X	X	X	X	X	X				
900		X	X	X	X	X	X	X	X	X	X	
950		X	X	X	X	X	X	X				
1000		X	X	X	X	X	X	X	X	X	X	

OPZIONI

options

Lo standard è evidenziato in grigio
 The standard is marked with grey background

materiale stelo [piston-rod material]

C45 cromato
C45 chromium plated

INOX
stainless steel

materiale guarnizioni [seals material]

NBR
 (*)

tutte in VITON
all seals in VITON

guarnizioni stelo
 in VITON
rod seals in VITON

predisposizione per bloccastelo

rod lock adaptor

non disponibile per l'alesaggio 160 e 200
not available for bore 160 and 200

(*) per maggiori informazioni vedi pag. 290-291
 (*) for more information see page 290-291

OPZIONI

options

Lo standard è evidenziato in grigio
 The standard is marked with grey background

materiale stelo [piston-rod material]

C45 cromato
C45 chromium plated

INOX
stainless steel

materiale guarnizioni [seals material]

NBR
 (*)

tutte in VITON
all seals in VITON

guarnizioni stelo
 in VITON
rod seals in VITON

predisposizione per bloccastelo

rod lock adaptor

non disponibile per l'alesaggio 160 e 200
not available for bore 160 and 200

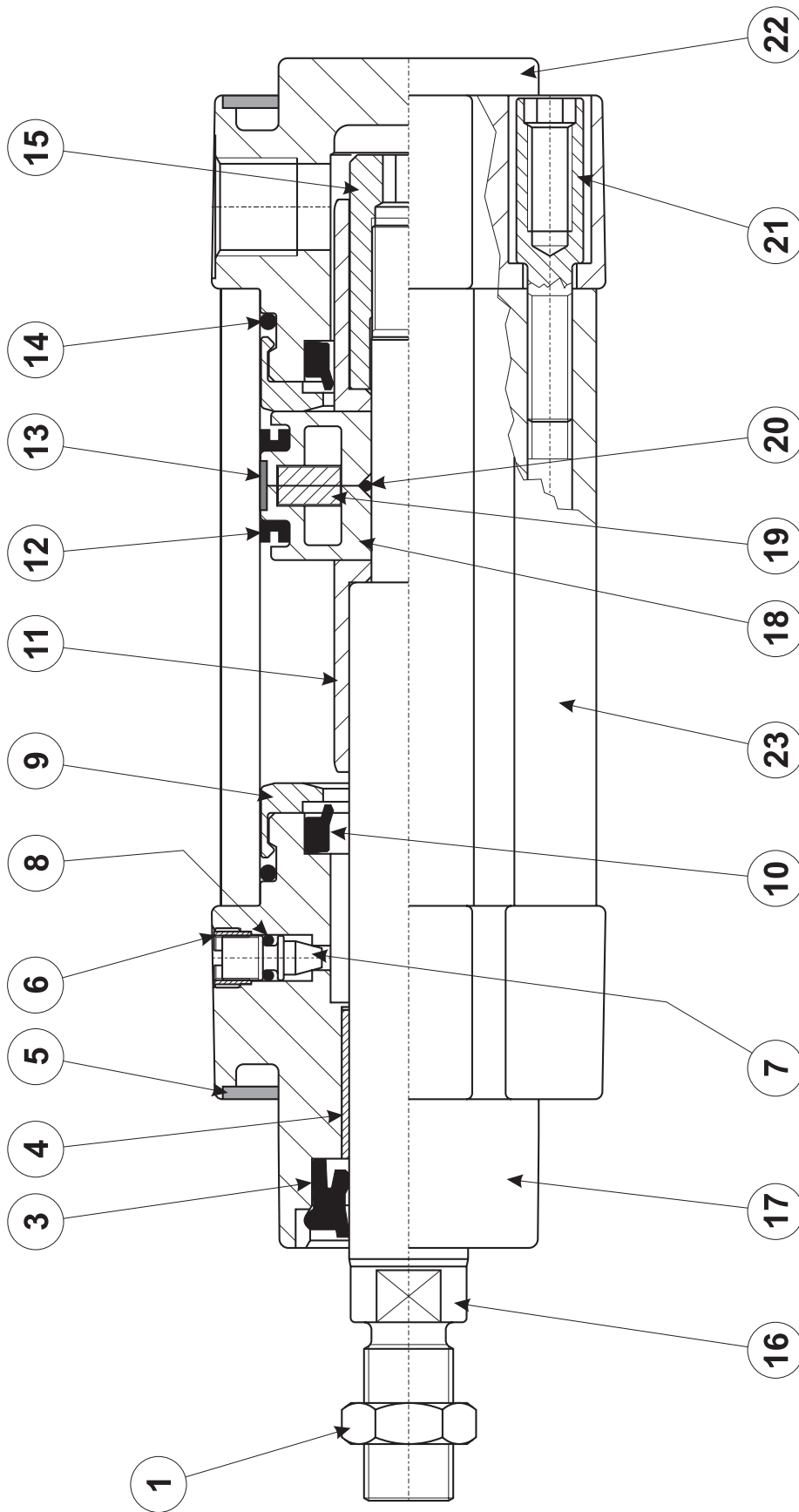
(*) per maggiori informazioni vedi pag. 290-291
 (*) for more information see page 290-291

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



disegno valido dall'alesaggio 32 all'alesaggio 125
the drawing is valid from bore 32 to bore 125



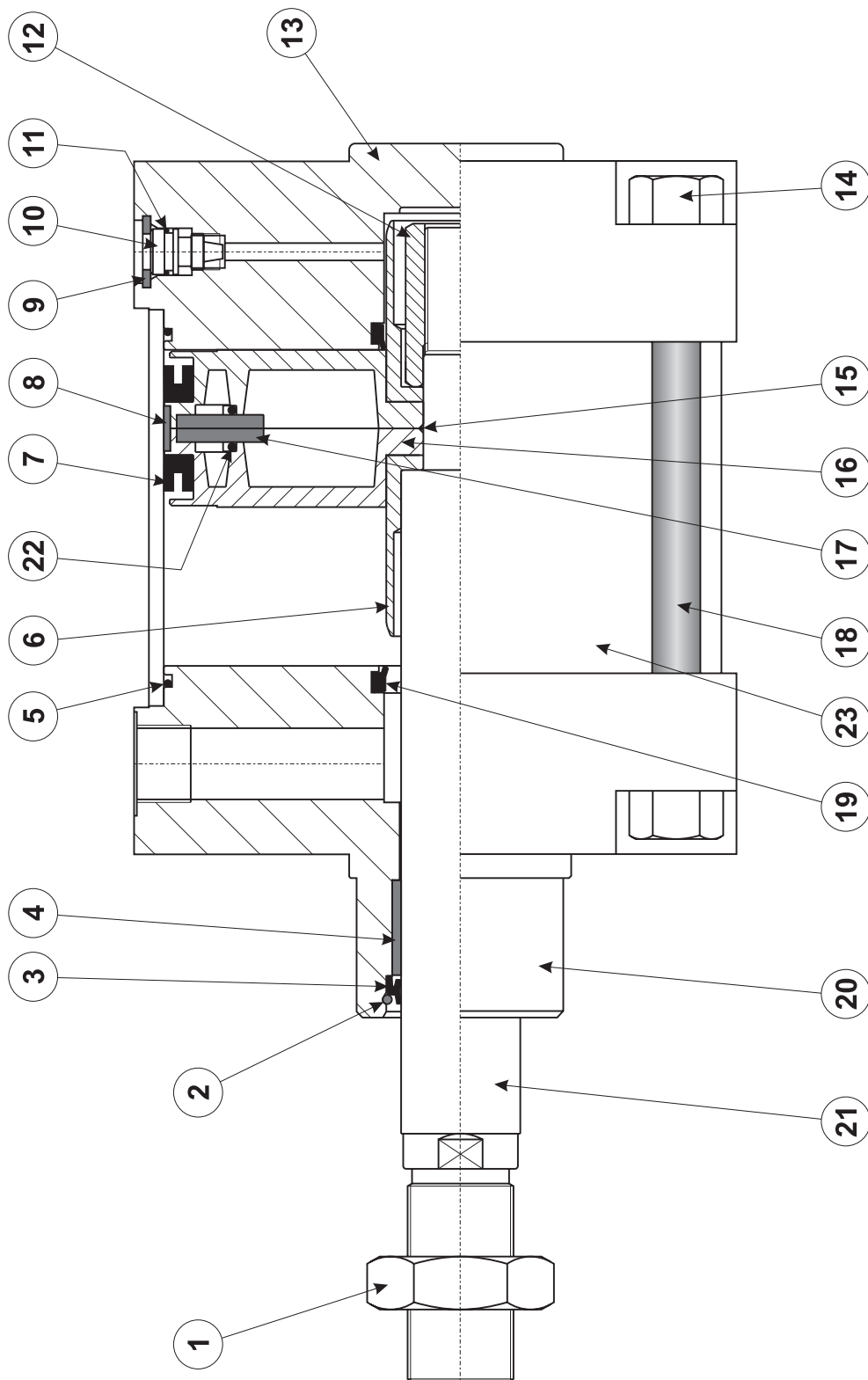
- 1. Dado esagonale per stelo
- 3. Guarnizione stelo: POLIURETANO o VITON
- 4. Boccola guida: materiale autolubrificante
- 5. Piastrina di protezione: MOPLEN
- 6. Ghiera per vite ammortizzo: ottone nichelato
- 7. Vite ammortizzo: ottone nichelato
- 8. Guarnizione O-Ring per vite ammortizzo: NBR o VITON
- 9. Paracolpi: HYTREL
- 10. Guarnizione ammortizzo: NBR o VITON
- 11. Ogvia: alluminio
- 12. Guarnizione a labbro per pistone: NBR o VITON
- 13. Anello guida per pistone: bronzo PTFE
- 14. O-Ring per tenuta testate: NBR o VITON
- 15. Bussola per bloccaggio stelo: materiale UNI 5105 35S Mn Pb 10, zincato
- 16. Stelo: acciaio C45 cromato o INOX AISI 304
- 17. Testata anteriore: lega alluminio da pressofusione
- 18. Pistone: alluminio
- 19. Magnete: plastoferrite
- 20. O-Ring per tenuta pistone: NBR o VITON
- 21. Vite per assemblaggio testate: autofilettante fino all'alesaggio 63, poi normale a maschiare
- 22. Testata posteriore: lega alluminio da pressofusione
- 23. Camicia: alluminio profilato, calibrato e anodizzato

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



disegno valido per l'alesaggio 160 e 200
the drawing is valid for bore 160 and 200

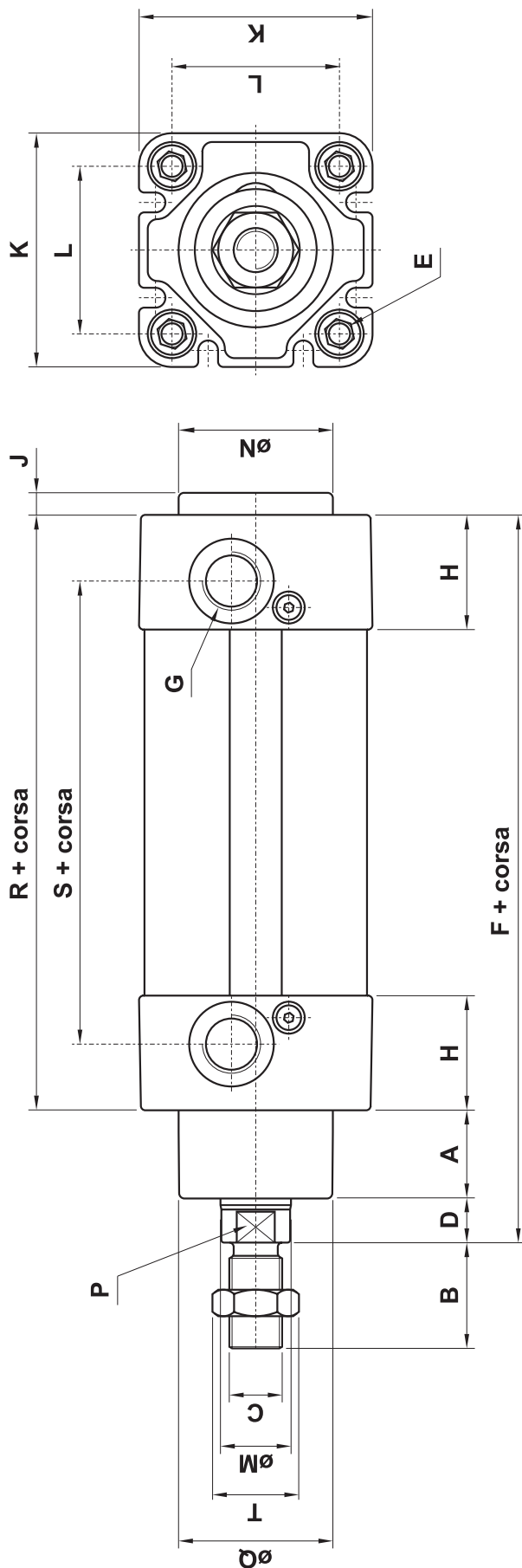


- 1. Dado esagonale per stelo
- 2. Anello INOX per fissaggio guarnizione
- 3. Guarnizione stelo: NBR o VITON
- 4. Boccola guida: bronzo sinterizzato
- 5. O-Ring per tenuta testate: NBR o VITON
- 6. Ogiva: alluminio
- 7. Guarnizione a labbro per pistone: NBR o VITON
- 8. Anello guida per pistone
- 9. Anello per sicurezza ammortizzo
- 10. Vite ammortizzo: ottone OT 58
- 11. Guarnizione O-Ring per vite ammortizzo: NBR o VITON

- 12. Bussola per bloccaggio stelo
- 13. Testata posteriore: lega alluminio da fusione in conchiglia
- 14. Vite per assemblaggio testate
- 15. O-Ring per tenuta pistone: NBR o VITON
- 16. Pistone: alluminio
- 17. Magnete: plastroferrite
- 18. Tirante: INOX
- 19. Guarnizione ammortizzo: NBR o VITON
- 20. Testata anteriore: lega alluminio da fusione in conchiglia
- 21. Stelo: acciaio C45 cromato o INOX AISI 304
- 22. Guarnizione O-Ring per tenuta pistone: NBR o VITON
- 23. Camicia: alluminio, tubo tondo

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA

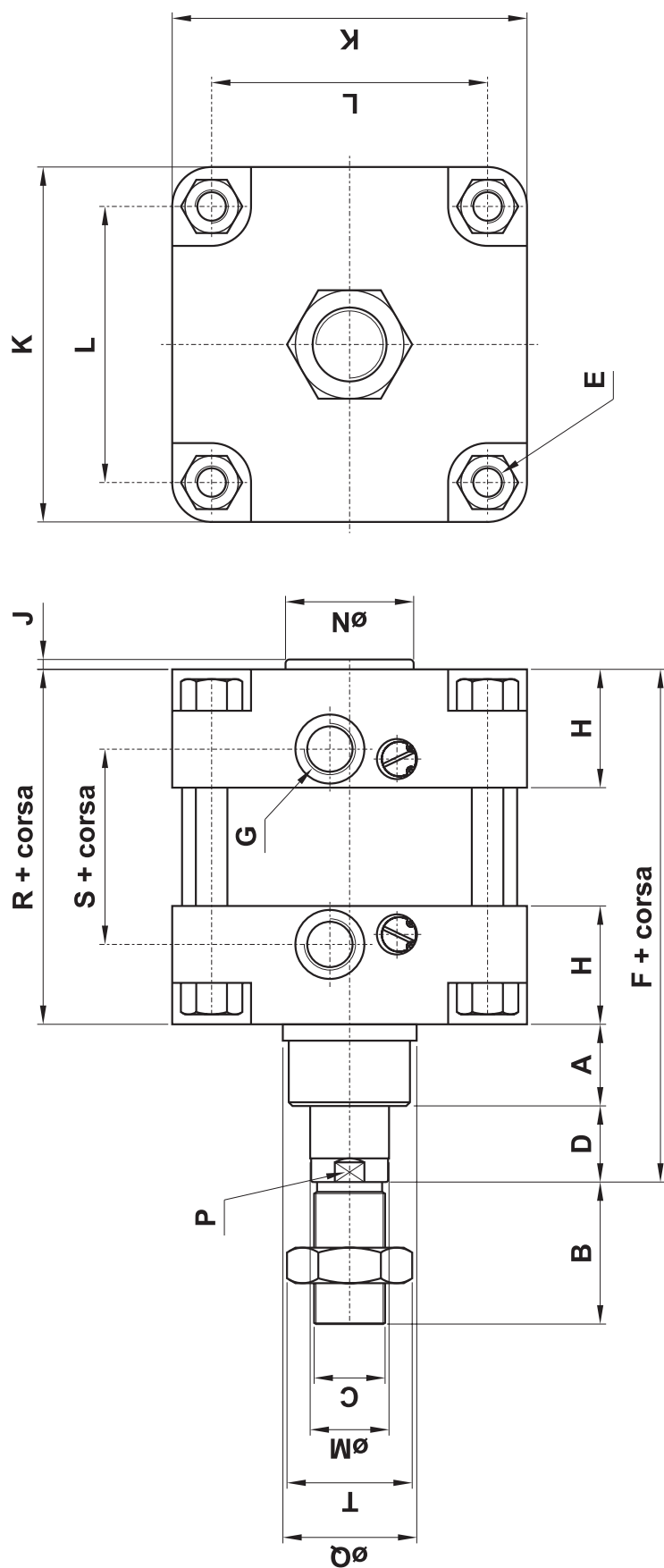


\varnothing	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T
32	16	22	M10x1.25	10	M6	120	G1/8"	25.5	5	47	32.5	12	30	30	CH 10	94	63.6	CH 17	
40	20	24	M12x1.25	10	M6	135	G1/4"	28	5	53	38	16	35	35	CH 13	105	76	CH 19	
50	25	32	M16x1.5	12	M8	143	G1/4"	30	5	64	46.5	20	40	40	CH 17	106	69.4	CH 24	
63	25	32	M16x1.5	12	M8	158	G3/8"	31	5	74	56.5	20	45	45	CH 17	121	85.2	CH 24	
80	32.5	40	M20x1.5	13.5	M10	174	G3/8"	34	5	94	72	25	45	45	CH 22	128	90	CH 30	
100	35	40	M20x1.5	16	M10	189	G1/2"	35	5	112	89	25	55	55	CH 22	138	104	CH 30	
125	40	54	M27x2	25	M12	225	G1/2"	41	5	136	110	32	60	60	CH 27	160	112	CH 41	

4

cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



\varnothing	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
160	50	72	M36x2	30	M16	260	63/4"	50	6	180	140	40	65	CH 36	65	180	120	CH 55
200	55	72	M36x2	40	M16	275	63/4"	50	6	220	175	40	75	CH 36	75	180	120	CH 55

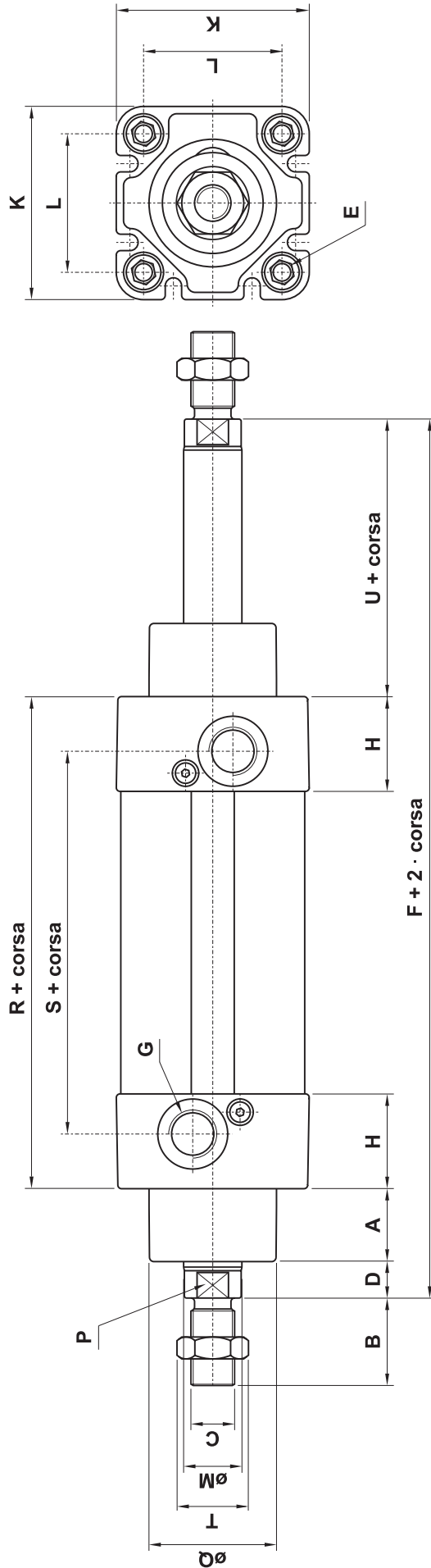
cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



VERSIONE STELO PASSANTE

Version with passing-through rod



Ø	A	B	C	D	E	F	G	H	K	L	M	P	Q	R	S	T	U
32	16	22	M10x1.25	10	M6	146	G1/8"	25.5	47	32.5	12	CH 10	30	94	63.6	CH 17	26
40	20	24	M12x1.25	10	M6	165	G1/4"	28	53	38	16	CH 13	35	105	75	CH 19	30
50	25	32	M16x1.5	12	M8	180	G1/4"	30	64	46.5	20	CH 17	40	106	69.4	CH 24	37
63	25	32	M16x1.5	12	M8	195	G3/8"	31	74	56.5	20	CH 17	45	121	85.2	CH 24	37
80	32.5	40	M20x1.5	13.5	M10	220	G3/8"	34	94	72	25	CH 22	45	128	90	CH 30	46
100	35	40	M20x1.5	16	M10	240	G1/2"	35	112	89	25	CH 22	55	138	104	CH 30	51
125	40	54	M27x2	25	M12	290	G1/2"	41	136	110	32	CH 27	60	160	112	CH 41	65

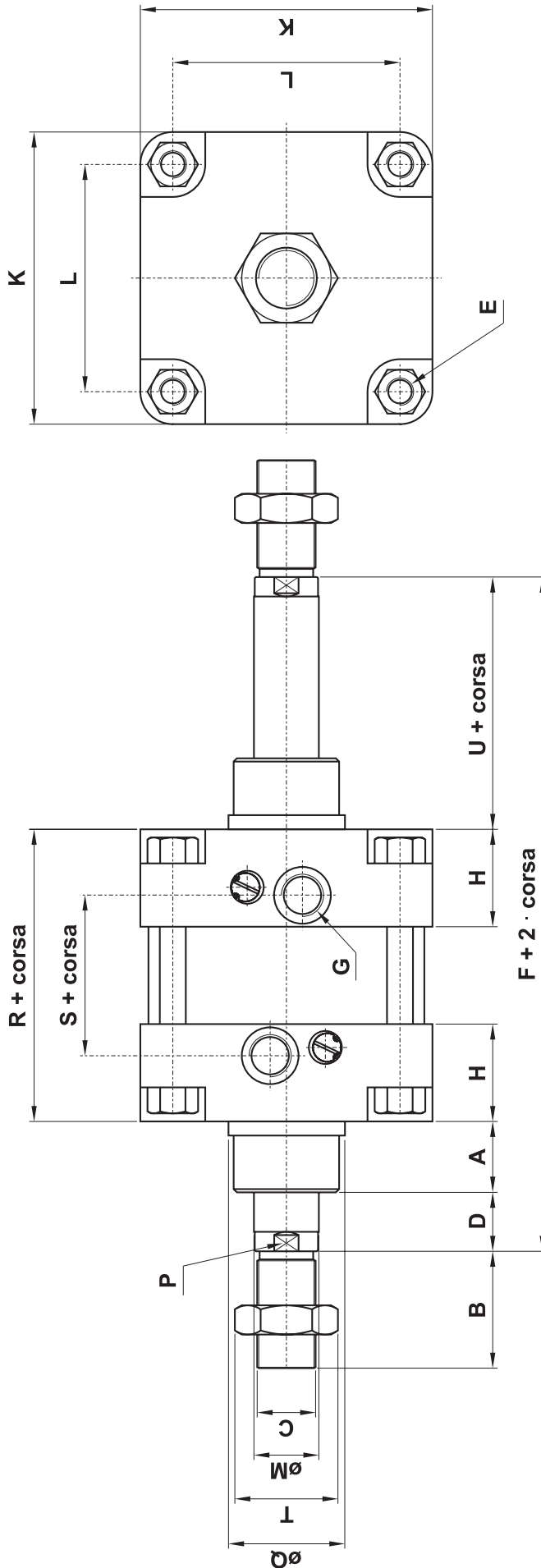
cilindri ISO 6431 VDMA

cylinders ISO 6431 VDMA



VERSIONE STELO PASSANTE

Version with passing-through rod



Ø	A	B	C	D	E	F	G	H	K	L	M	P	Q	R	S	T	U
160	50	72	M36x2	30	M16	340	G3/4"	50	180	140	40	CH 36	65	180	120	CH 55	80
200	55	72	M36x2	40	M16	370	G3/4"	50	220	175	40	CH 36	75	180	120	CH 55	95

kit guarnizioni di ricambio

seals kit

MAGNETICO, guarnizioni standard

normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
32	SGM032	21.100.2	32	SGM032P	21.110.2
40	SGM040	21.101.2	40	SGM040P	21.111.2
50	SGM050	21.102.2	50	SGM050P	21.112.2
63	SGM063	21.103.2	63	SGM063P	21.113.2
80	SGM080	21.104.2	80	SGM080P	21.114.2
100	SGM100	21.105.2	100	SGM100P	21.115.2
125	SGM125	21.106.2	125	SGM125P	21.116.2
160	SGM160	21.107.2	160	SGM160P	21.117.2
200	SGM200	21.108.2	200	SGM200P	21.118.2

MAGNETICO, guarnizioni VITON

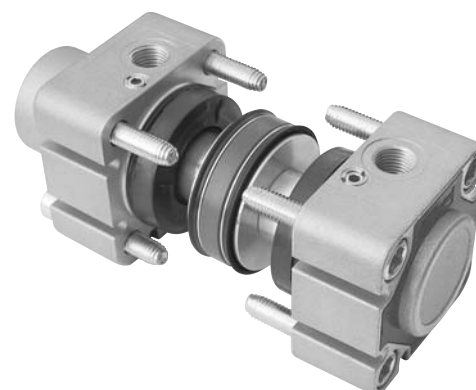
normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
32	SGM032V	21.120.2	32	SGM032PV	21.130.2
40	SGM040V	21.121.2	40	SGM040PV	21.131.2
50	SGM050V	21.122.2	50	SGM050PV	21.132.2
63	SGM063V	21.123.2	63	SGM063PV	21.133.2
80	SGM080V	21.124.2	80	SGM080PV	21.134.2
100	SGM100V	21.125.2	100	SGM100PV	21.135.2
125	SGM125V	21.126.2	125	SGM125PV	21.136.2
160	SGM160V	21.127.2	160	SGM160PV	21.137.2
200	SGM200V	21.128.2	200	SGM200PV	21.138.2

kit cilindro

cylinder kit

Il kit comprende:

- testate premontate con boccola, paracolpi e ammortizzo
- pistone con magnete, guarnizioni e anello di guida
- ogive
- viti
- piastrine di protezione
- tutte le guarnizioni necessarie



MAGNETICO, guarnizioni standard

normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
32	KSM032	21.001.3	32	KSM032P	21.011.3
40	KSM040	21.002.3	40	KSM040P	21.012.3
50	KSM050	21.003.3	50	KSM050P	21.013.3
63	KSM063	21.004.3	63	KSM063P	21.014.3
80	KSM080	21.005.3	80	KSM080P	21.015.3
100	KSM100	21.006.3	100	KSM100P	21.016.3
125	KSM125	21.007.3	125	KSM125P	21.017.3
160	KSM160	21.008.3	160	KSM160P	21.018.3
200	KSM200	21.009.3	200	KSM200P	21.019.3

MAGNETICO, guarnizioni VITON

normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
32	KSM032V	21.021.3	32	KSM032PV	21.031.3
40	KSM040V	21.022.3	40	KSM040PV	21.032.3
50	KSM050V	21.023.3	50	KSM050PV	21.033.3
63	KSM063V	21.024.3	63	KSM063PV	21.034.3
80	KSM080V	21.025.3	80	KSM080PV	21.035.3
100	KSM100V	21.026.3	100	KSM100PV	21.036.3
125	KSM125V	21.027.3	125	KSM125PV	21.037.3
160	KSM160V	21.028.3	160	KSM160PV	21.038.3
200	KSM200V	21.029.3	200	KSM200PV	21.039.3

Maggiori informazioni sono disponibili all'indirizzo internet <http://www.azpneumatica.com/azweb/ita/kitcil.htm>

More information is available at the internet address <http://www.azpneumatica.com/azweb/ita/kitcil.htm>

istruzioni per il montaggio dei kit cilindro

instructions to assemble cylinder kit

ISTRUZIONI PER L'USO DEI KIT MONTAGGIO CILINDRI ISO 6431

I componenti contenuti nei kit AZ Pneumatica per il montaggio dei cilindri pneumatici ISO 6431 sono costruiti con materiali di prima qualità. Le testate pressofuse e tutti i componenti interni sono lavorati con torni e centri di lavoro a controllo numerico, assicurando così qualità costante e preciso rispetto delle tolleranze dimensionali. Le caratteristiche costruttive e progettuali del cilindro offrono alte prestazioni anche nelle condizioni di lavoro più difficili.

Per far sì che dette qualità divengano effettive, è necessario che il montaggio sia eseguito esattamente secondo le istruzioni qui sotto riportate. È necessario altresì rispettare tutte le norme di sicurezza durante il montaggio e il collaudo del cilindro.

1. OPERAZIONI PRELIMINARI

Prima del montaggio soffiare con aria compressa e pulire accuratamente, senza danneggiare le superfici di tenuta, tutti i componenti e l'interno della camicia precedentemente tagliata alla lunghezza desiderata. Il cilindro deve essere montato in un ambiente di lavoro pulito e privo di polvere.

2. MONTAGGIO DEL PISTONE SULLO STELO

Sullo stelo infilare, in ordine, facendo riferimento alla figura 1, i seguenti componenti: ogiva, semipistone, guarnizione O-Ring, magneti (i quali devono attrarsi), semipistone, ogiva.

Prima di avvitare il dado di serraggio mettere sul filetto dello stelo una-due gocce di frenafili (Loctite 242 o simile). Avvitare il dado sullo stelo rispettando il momento di serraggio indicato nella seguente tabella:

alesaggio <i>bore</i>	momento di serraggio <i>torque</i>
32	10 Nm
40	20 Nm
50	30 Nm
63	45 Nm
80	60 Nm
100	60 Nm
125	70 Nm

3. INSERIMENTO DEL BLOCCO STELO-PISTONE NELLA CAMICIA

Con un grasso adatto (da ordinarsi eventualmente alla AZ Pneumatica) lubrificare leggermente l'interno della camicia, le guarnizioni del pistone e le guarnizioni delle testate.

Posizionare attorno al pistone l'anello guida in teflon-rame (vedi figura 2), lubrificato con grasso, e infilare nella camicia (vedi figura 3) il blocco stelo-pistone precedentemente assemblato, facendo attenzione a non danneggiare le guarnizioni del pistone. Per facilitare questa operazione è possibile ordinare un apposito adattatore alla AZ Pneumatica.

figura 1

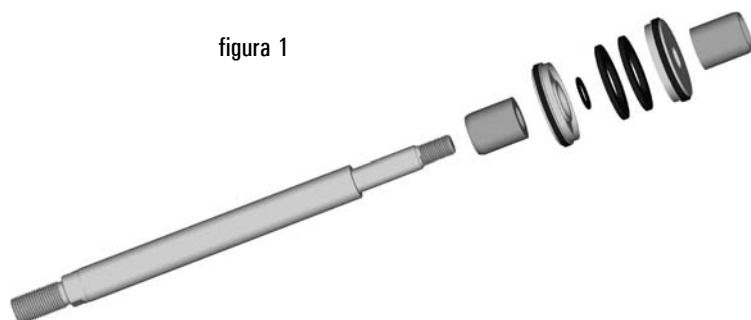


figura 2

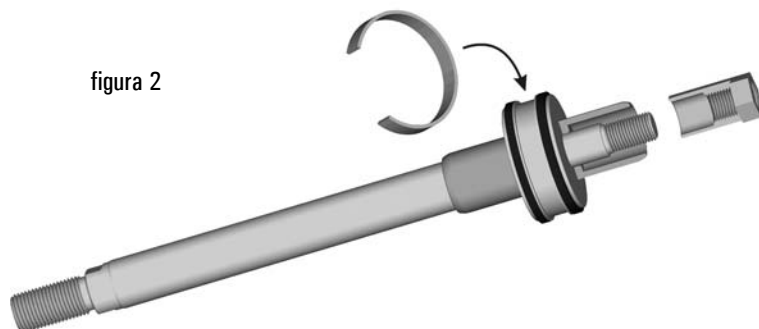
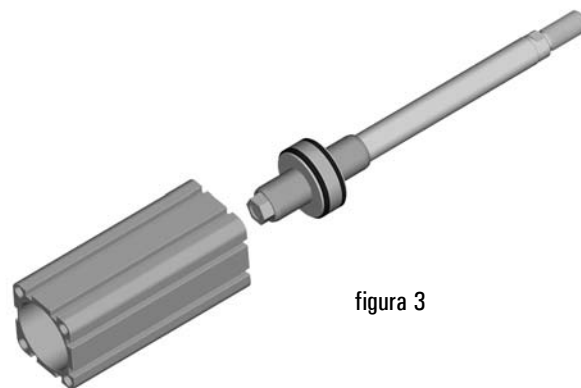


figura 3



4. MONTAGGIO DELLE TESTATE

Infilare la testata anteriore e posteriore nel tubo, facendo attenzione a non danneggiare le guarnizioni O-Ring.

Le viti di serraggio delle testate sono autofilettanti fino al filetto M8 (cioè al cilindro alesaggio 63). Per le viti di diametro superiore è consigliabile filettare la camicia, anche se è possibile, seppure con fatica, utilizzarle come se fossero autofilettanti. In ogni caso è necessario, prima di procedere ad avvitare le viti, lubrificare il filetto con qualche goccia di olio idraulico. Avvitare manualmente o con un utensile pneumatico quasi fino alla fine. Per stringere definitivamente le viti occorre utilizzare una chiave dinamometrica o un utensile pneumatico con indicazione del momento di serraggio. Agire in modo progressivo fino a raggiungere il momento indicato nella tabella seguente:

MOMENTO DI SERRAGGIO PER LE VITI DI MONTAGGIO TESTATE

alesaggio <i>bore</i>	momento di serraggio <i>torque</i>
32	10 Nm
40	10 Nm
50	22 Nm
63	22 Nm
80	40 Nm
100	40 Nm
125	50 Nm

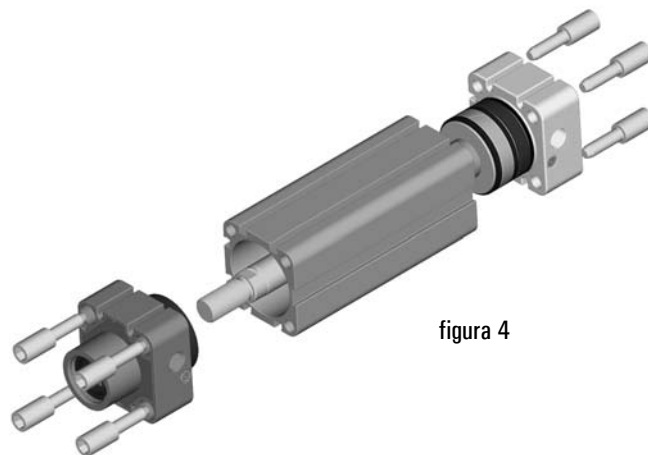


figura 4

Avvitare il dado sulla parte anteriore dello stelo, e con ciò il cilindro è montato.

5. COLLAUDO

Collegare il cilindro a una valvola 5 vie e azionarlo alcune volte per verificarne preliminarmente il corretto funzionamento.

Effettuare poi le operazioni qui di seguito descritte alla pressione di 2 bar e alla pressione di 7 bar (o più).

- verificare la perfetta tenuta della testata anteriore e della sede della vite di ammortizzo;
- verificare la perfetta tenuta della testata posteriore e della sede della vite di ammortizzo;
- verificare la perfetta tenuta della guarnizione raschiastelo;
- verificare la perfetta tenuta del pistone tra le due camere.

Per ovvi motivi, le suddette operazioni vanno eseguite con alimentazione d'aria inserita.

Una volta verificata la perfetta tenuta del cilindro in ogni sua parte, regolare gli ammortizzi secondo necessità e inserire, eventualmente, i tappi nelle bocche di alimentazione. Il cilindro è con ciò pronto per essere utilizzato.

Nel caso di dubbi si prega contattare la AZ Pneumatica.

barre per camicia cilindri ISO 6431 VDMA

barrel for cylinders ISO 6431 VDMA



	codice di ordinazione <i>order code</i>	dimensioni - <i>dimensions</i> [mm]					peso <i>weight</i> [kg/m]
		A	B	C	D	E	
	000.510.7	ø32 H11	32.5	44.5	17	-	2.198
	000.511.7	ø40 H11	38	50.5	23	-	2.506
	000.512.7	ø50 H11	46.5	60.3	26	-	3.394
	000.513.7	ø63 H11	56.5	70	37	35	3.452
	000.514.7	ø80 H11	72	87	45	45	5.214
	000.515.7	ø100 H12	89	106	50	46	5.619
	000.516.7	ø125 H12	110	132	56	50	7.788

composizione chimica <i>chemical composition</i>	Cu	Fe	Mn	Mg	Si	Zn	Cr	Ti	Al resto
	≤ 0.10	≤ 0.35	≤ 0.10	0.45÷0.90	0.20÷0.60	≤ 0.10	≤ 0.10	≤ 0.10	

Fori di fissaggio

dal ø32 al ø63 : predisposti per la filettatura metrica mediante rullatura o per l'impiego di viti autofilettanti

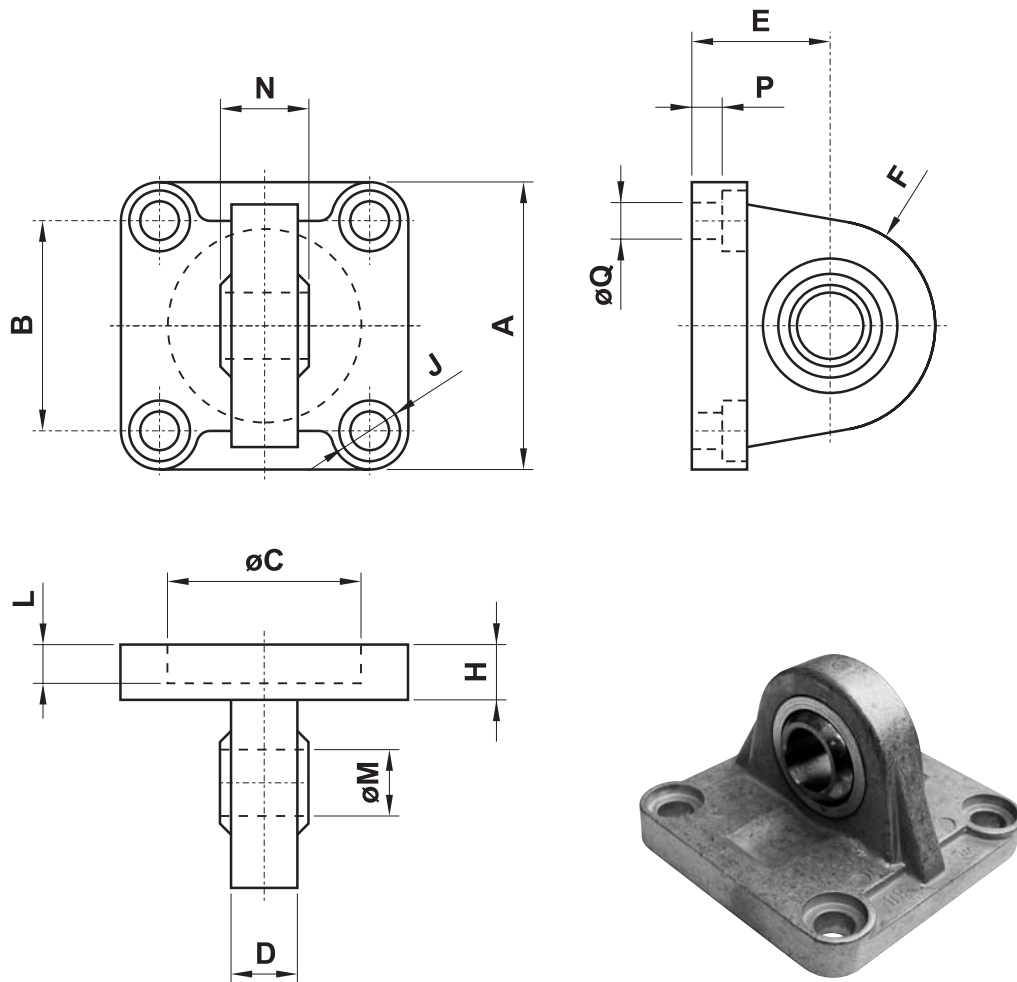
dal ø80 al ø125 : predisposti per la filettatura metrica mediante rullatura

Fixing holes

from ø32 to ø63 : prepared for metric thread through rolling or self-tapping screws

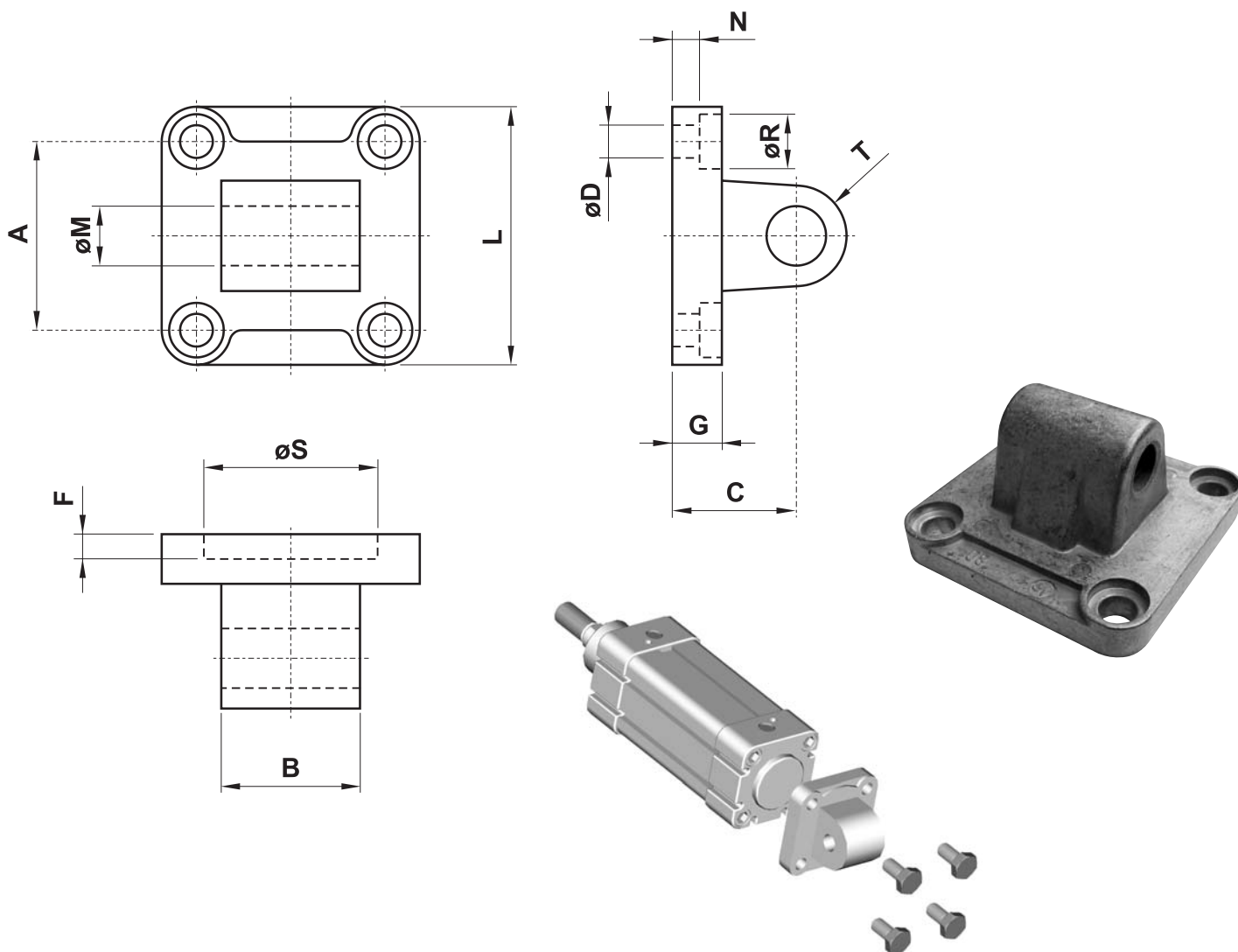
from ø80 to ø125 : prepared for metric thread through rolling

CERNIERA MASCHIO SNODO SFERICO



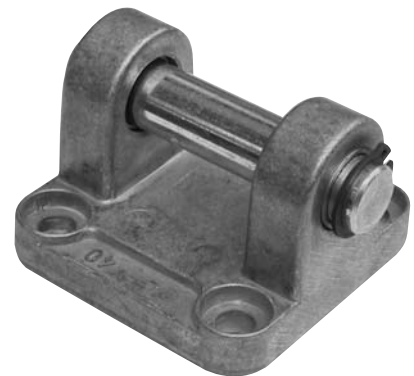
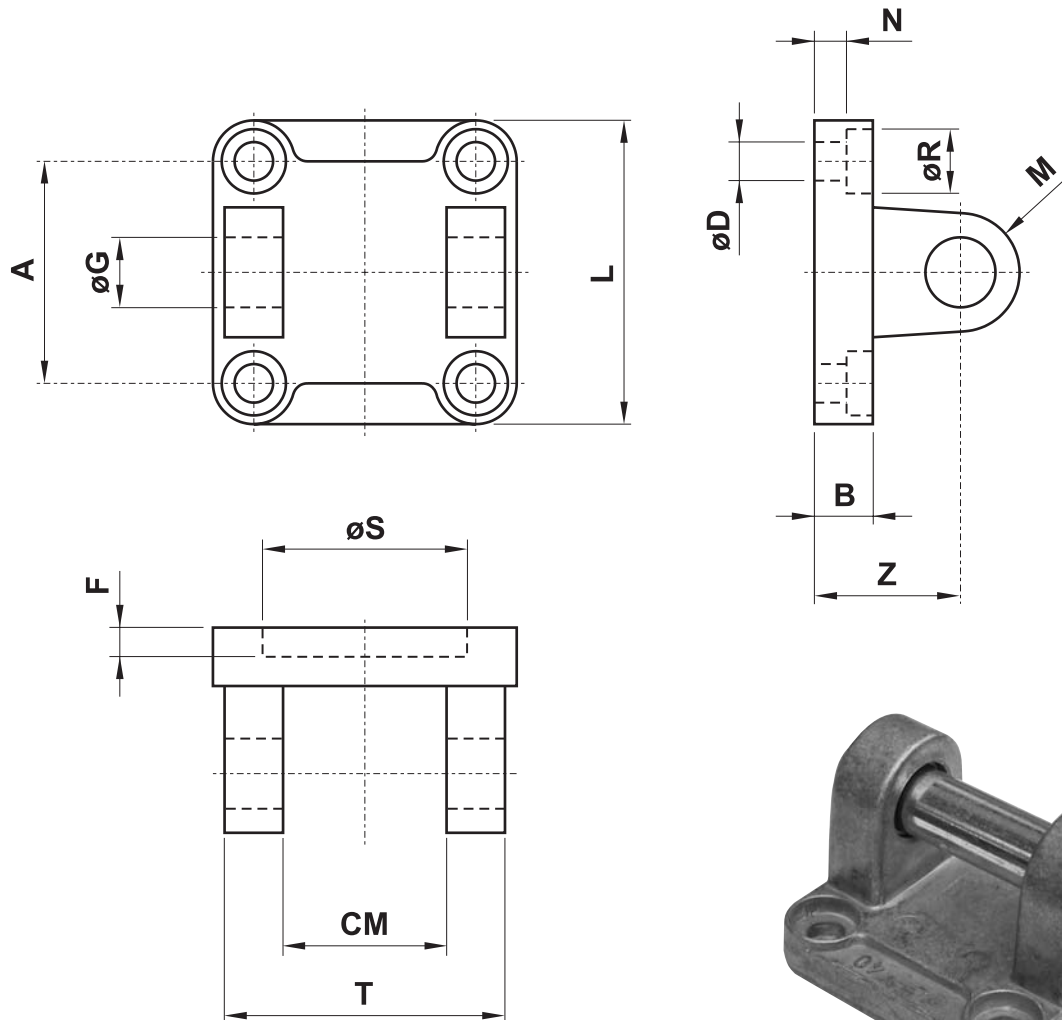
sigla part number	per alesaggio for bore	A	B	C	D	E	F	H	J	L	M	N	P	Q
CMSS032	32	45	32.5	30	10.5	22	16	9	ø11	5	10	14	5.5	6.6
CMSS040	40	52	38	35	12	25	19	9	ø11	5	12	16	5.5	6.6
CMSS050	50	65	46.5	40	15	27	21	11	ø15	5	16	21	6.5	9
CMSS063	63	75	56.5	45	15	32	24	11	ø15	5	16	21	6.5	9
CMSS080	80	95	72	45	18	36	28.5	14	ø18	5	20	25	10	11
CMSS100	100	115	89	55	18	41	30	14	ø18	5	20	25	10	11
CMSS125	125	140	110	60	25	50	40	20	ø20	7	30	37	10	13.5
CMSS160	160	180	140	65	28	55	45	20	ø26	7	35	43	10	18
CMSS200	200	220	175	75	28	60	48	25	ø26	7	35	43	11	18

CERNIERA MASCHIO



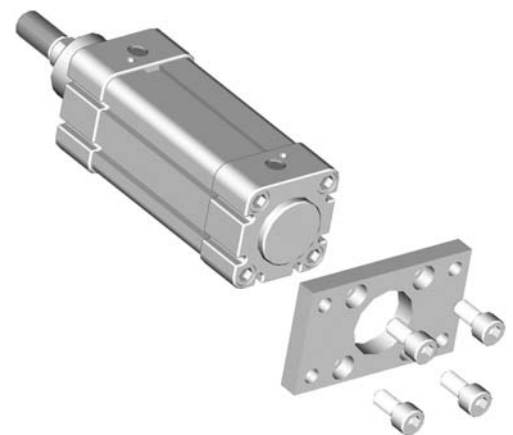
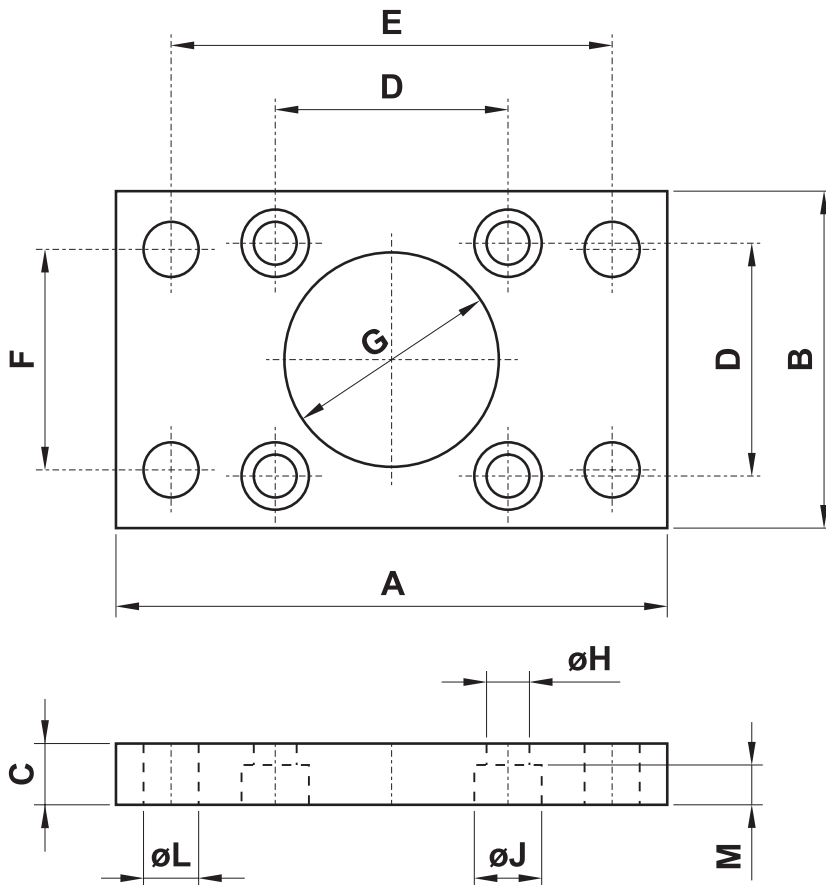
sigla part number	sigla part number	per alesaggio for bore	A	B	C	D	F	G	L	M	N	R	S	T
standard	con boccola di bronzo													
CMIS032	CMKS032	32	32.5	26	22	6.6	5	9	45	10	5.5	11	30	10
CMIS040	CMKS040	40	38	28	25	6.6	5	9	52	12	5.5	11	35	12
CMIS050	CMKS050	50	46.5	32	27	9	5	11	65	12	6.5	15	40	12
CMIS063	CMKS063	63	56.5	40	32	9	5	11	75	16	6.5	15	45	16
CMIS080	CMKS080	80	72	50	36	11	5	14	95	16	10	18	45	16
CMIS100	CMKS100	100	89	60	41	11	5	14	115	20	10	18	55	20
CMIS125	CMKS125	125	110	70	50	14	7	20	140	25	10	20	60	25
CMIS160	CMKS160	160	140	90	55	18	7	20	180	30	10	26	65	25
CMIS200	CMKS200	200	175	90	60	18	7	25	220	30	11	26	75	25

CERNIERA FEMMINA CON PERNO



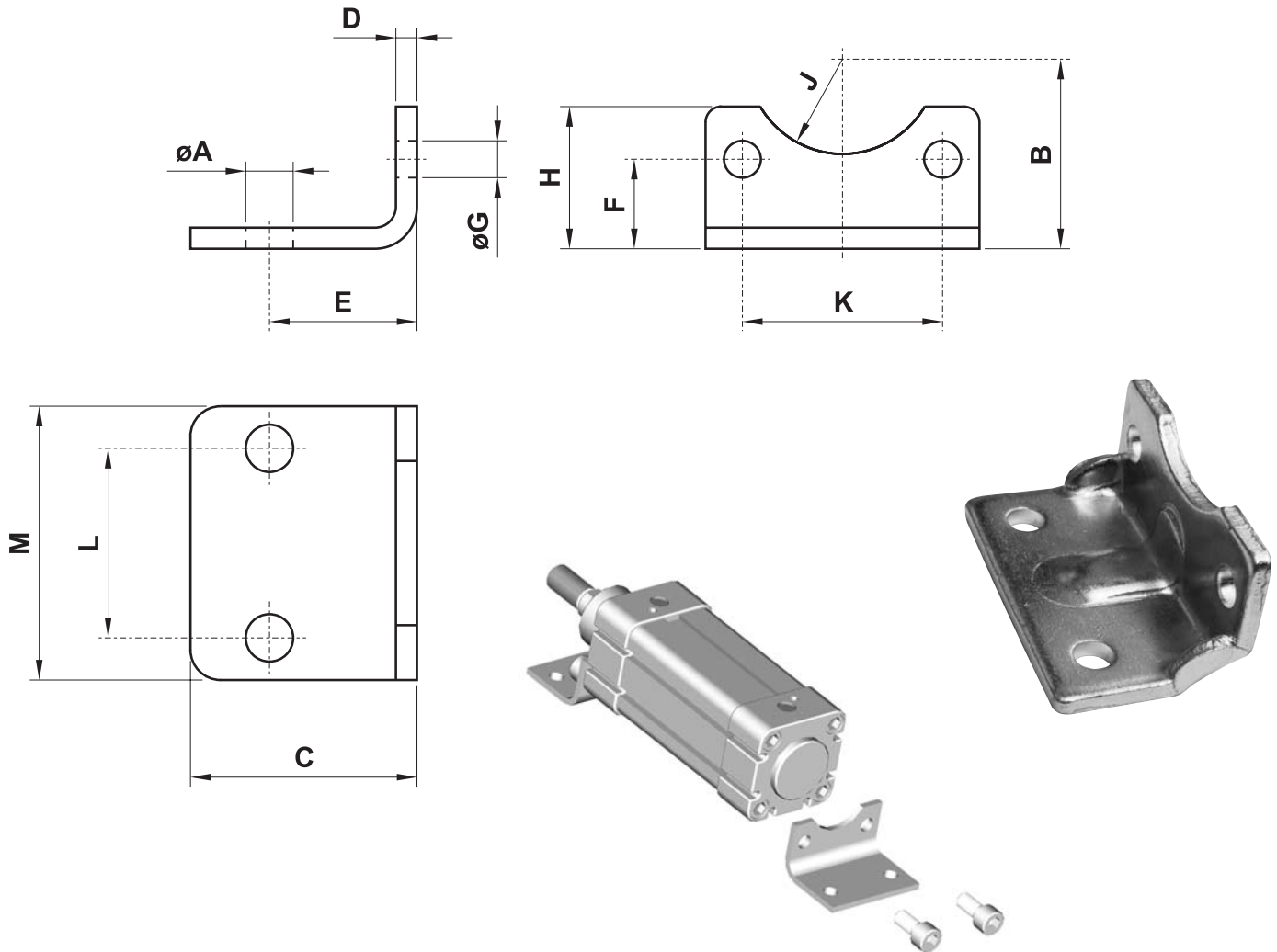
sigla part number	sigla part number	per alesaggio for bore	A	B	CM	D	F	G	L	M	N	R	S	T	Z
standard	con boccola di bronzo														
CFIS032	CFKS032	32	32.5	9	26	6.6	5	10	45	10	5.5	11	30	45	22
CFIS040	CFKS040	40	38	9	28	6.6	5	12	52	12	5.5	11	35	52	25
CFIS050	CFKS050	50	46.5	11	32	9	5	12	65	12	6.5	15	40	60	27
CFIS063	CFKS063	63	56.5	11	40	9	5	16	75	16	6.5	15	45	70	32
CFIS080	CFKS080	80	72	14	50	11	5	16	95	16	10	18	45	90	36
CFIS100	CFKS100	100	89	14	60	11	5	20	115	20	10	18	55	110	41
CFIS125	CFKS125	125	110	20	70	14	7	25	140	25	10	20	60	130	50
CFIS160	CFKS160	160	140	20	90	18	7	30	180	25	10	26	65	170	55
CFIS200	CFKS200	200	175	25	90	18	7	30	220	25	11	26	75	170	60

FLANGIA



sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L	M
FLIS032	32	80	45	10	32.5	64	32	$\phi 30$	6.6	10.5	7	6.5
FLIS040	40	90	52	10	38	72	36	$\phi 35$	6.6	11	9	6.5
FLIS050	50	110	65	12	46.5	90	45	$\phi 40$	9	15	9	8.5
FLIS063	63	120	75	12	56.5	100	50	$\phi 45$	9	15	9	8.5
FLIS080	80	150	95	16	72	126	63	$\phi 45$	11	18	12	10.5
FLIS100	100	170	115	16	89	150	75	$\phi 55$	11	18	14	10.5
FLIS125	125	205	140	20	110	180	90	$\phi 60$	13.5	20	16	12.5
FLIS160	160	260	180	20	140	230	115	$\phi 65$	18	26	18	16.5
FLIS200	200	300	220	25	175	270	135	$\phi 75$	18	26	22	16.5

PIEDINO

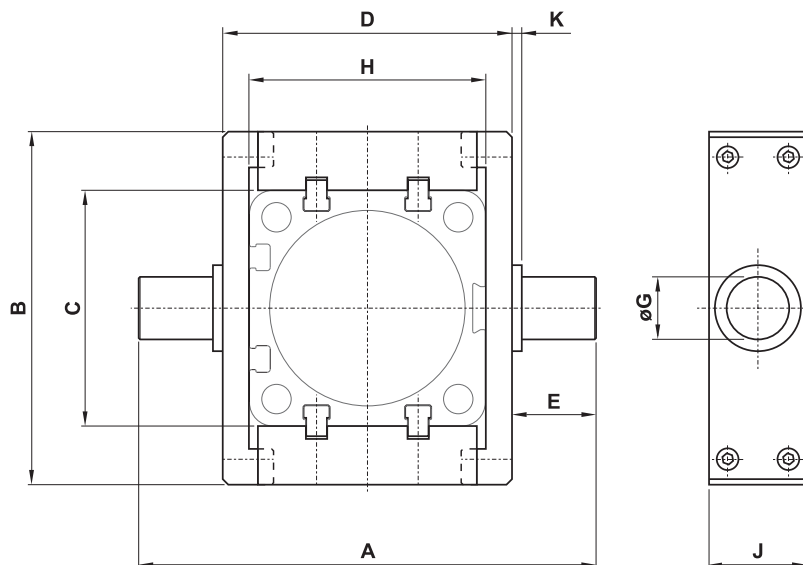


sigla* part number*	per alesaggio for bore	A	B	C	D	E	F	G	H	J	K	L	M
PBIS032	32	7	32	35	4	24	15.75	7	30	15	32.5	32	45
PBIS040	40	9	36	36	4	28	17	7	30	17.5	38	36	52
PBIS050	50	9	45	47	5	32	21.75	9	36	20	46.5	45	65
PBIS063	63	9	50	45	5	32	21.75	9	35	22.5	56.5	50	75
PBIS080	80	12	63	55	6	41	27	11	47	22.5	72	63	95
PBIS100	100	14	71	57	6	41	26.5	11	53	27.5	89	75	115
PBIS125	125	16	90	70	8	45	35	14	70	30	110	90	140
PBIS160	160	18	115	75	9	60	45	18	100	32.5	140	115	180
PBIS200	200	22	135	100	12	70	47.5	18	100	37.5	175	135	220

* La sigla si riferisce a un solo piedino e non alla coppia

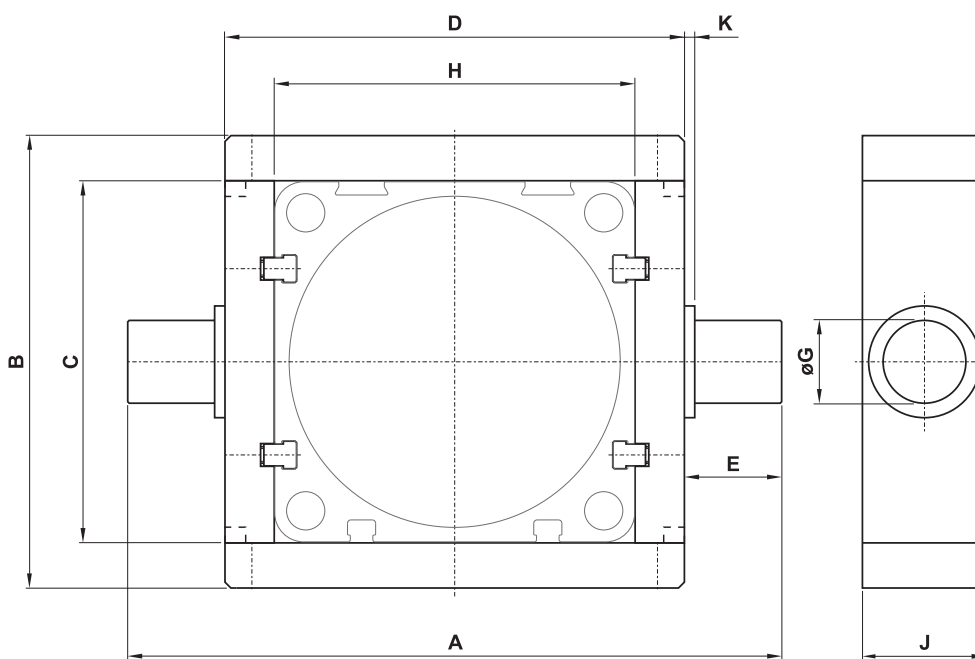
* The part number is referred to only one element and not to the couple

CERNIERA INTERMEDIA PER ESTRUSO



alesaggi: 32, 40, 50

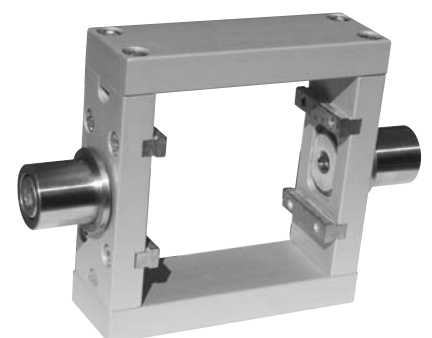
bores: 32, 40, 50



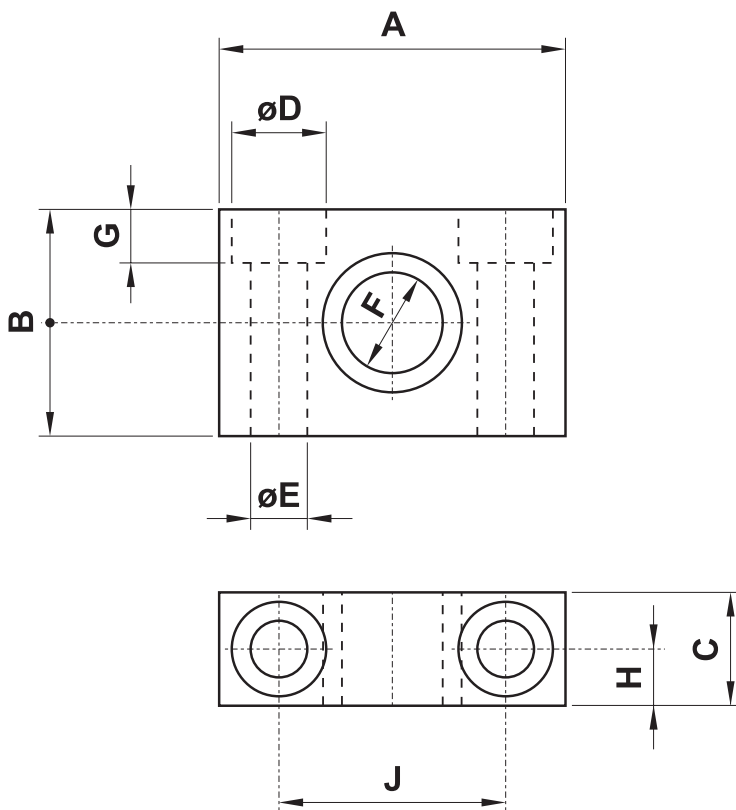
alesaggi: 63, 80, 100, 125

bores: 63, 80, 100, 125

sigla part number	per alesaggio for bore	A	B	C	D	E	G	H	J	K
CIN032	32	87	65	44.5	52	17.5	12	45	25	2
CIN040	40	105	74.8	50.5	62	21.5	16	50.8	25	2.5
CIN050	50	117	90.3	60.3	74	21.5	16	60.6	25	2.5
CIN063	63	136	94.5	70.5	91	22.5	20	70	30	2.5
CIN080	80	156	109.3	87.5	111	22.5	20	87	30	2.5
CIN100	100	195	134	106.6	129	33	25	106	40	2.5
CIN125	125	222.7	160	132.6	156.7	33	25	132	40	2.5



SNODO PER CERNIERA INTERMEDIA

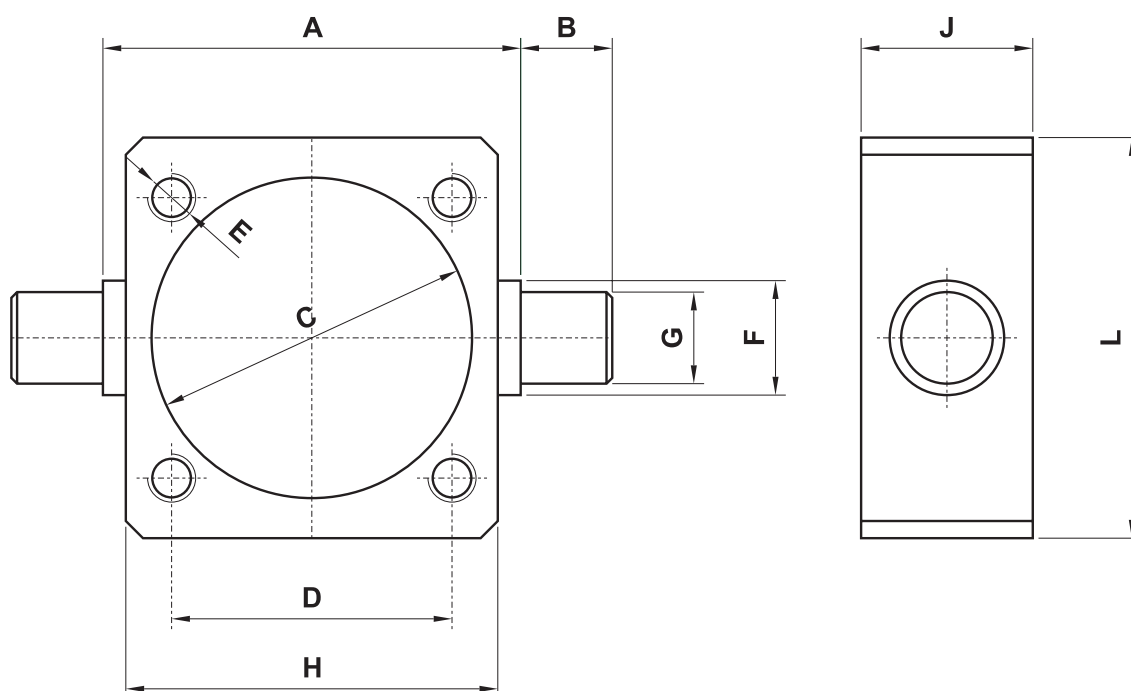


sigla* part number*	per alesaggio for bore	A	B	C	D	E	F	G	H	J
SNINT 032 B	32	46	30	15	10.5	6.5	∅12	6.5	7.5	32
SNINT 040-050 B	40-50	55	35	20	14	9	∅16	8	10	36
SNINT 063-080 B	63-80	65	40	20	17	11	∅20	12	10	42
SNINT 100-125 B	100-125	75	50	30	19	14	∅25	10	15	50

* La sigla si riferisce a una coppia di snodi

* The part number is referred to a couple of elements

CERNIERA INTERMEDIA per cilindri da alesaggio 160 e 200 versione a tiranti

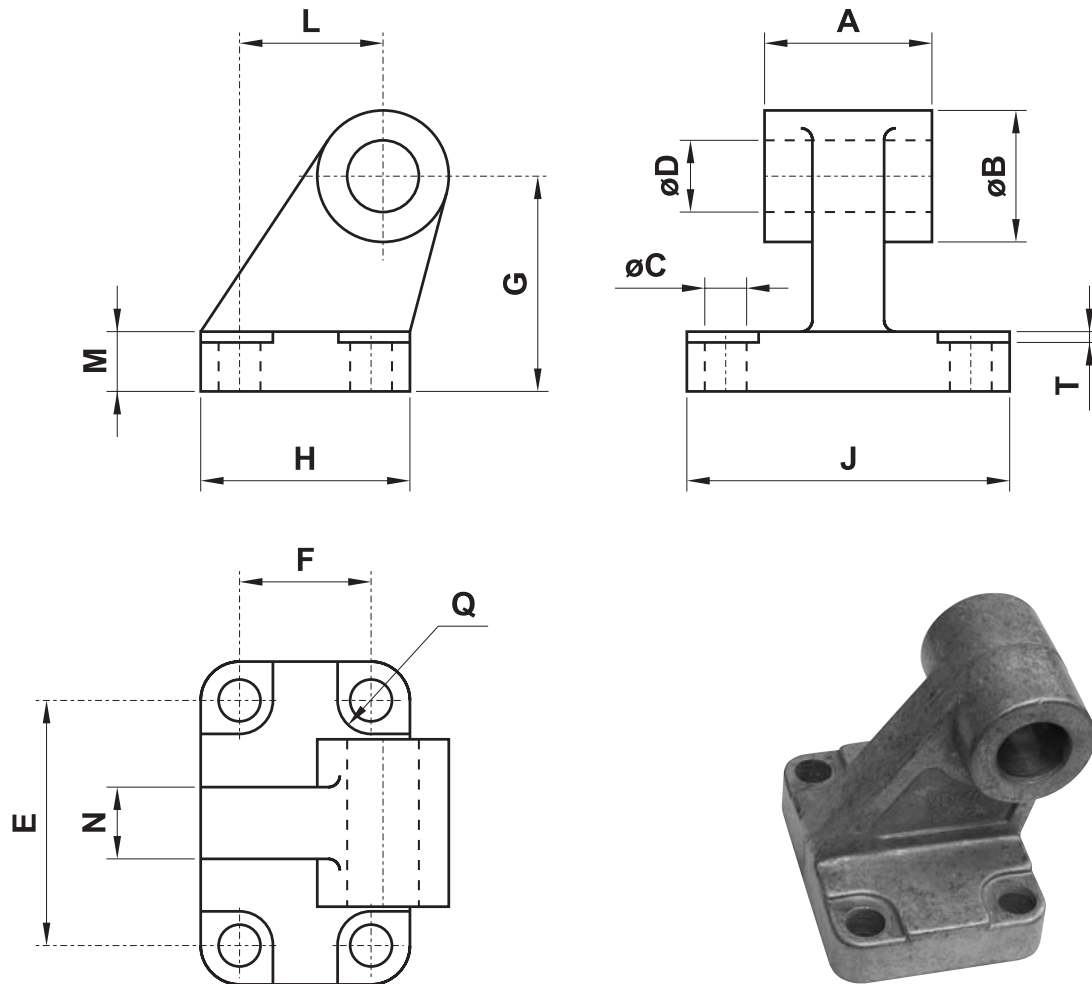


Questa cerniera intermedia può essere montata solo su cilindri a tubo tondo con tiranti. Al momento dell'ordine dei cilindri specificare chiaramente questa caratteristica, fornendo anche precise indicazioni riguardo alla posizione di montaggio della cerniera sul cilindro.

This fixing element can be mounted only on a cylinder with round barrel and tie-rods. The request for cylinders with tie-rods must be clearly specified on the order. On the order please specify also the position where the fixing element should be mounted on the cylinder.

sigla part number	per alesaggio for bore	A	B	C	D	E	G	H	J	L
CSIS160TI	160	200	32	∅170	140	M16	∅32	190	40	190
CSIS200TI	200	250	32	∅211	175	M16	∅32	240	40	240

CONTROCERNIERA ORIZZONTALE A BASE RETTANGOLARE



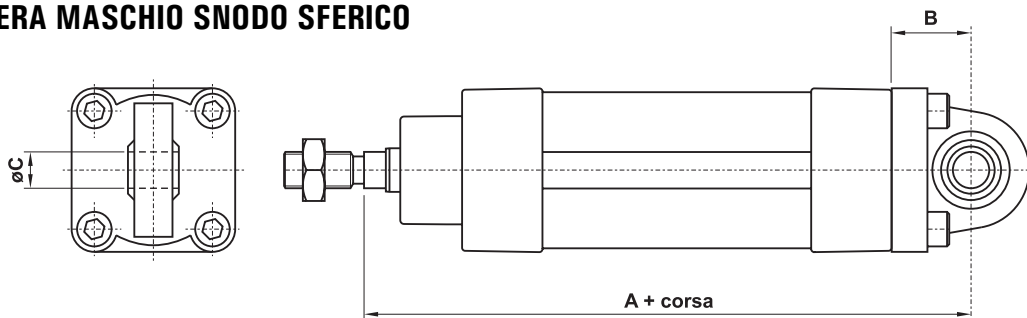
sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L	M	N	Q	T
COIS032	32	26	20	6.6	10	38	18	32	31	51	21	8	10	6.6	1.6
COIS040	40	28	22	6.6	12	41	22	36	35	54	24	10	15	6.6	1.6
COIS050	50	32	26	9	12	50	30	45	45	65	33	12	16	9	1.6
COIS063	63	40	30	9	16	52	35	50	50	67	37	14	16	9	1.6
COIS080	80	50	30	11	16	66	40	63	60	86	47	14	20	11	2.5
COIS100	100	60	38	11	20	76	50	71	70	96	55	17	20	11	2.5
COIS125	125	70	45	14	25	94	60	90	90	124	70	20	30	14	3.2
COIS160	160	90	63	14	30	118	88	115	126	156	97	25	36	14	4
COIS200	200	90	63	18	30	122	90	135	130	162	105	30	40	18	4

fissaggi per cilindri ISO 6431 VDMA

fixing elements for cylinders ISO 6431 VDMA

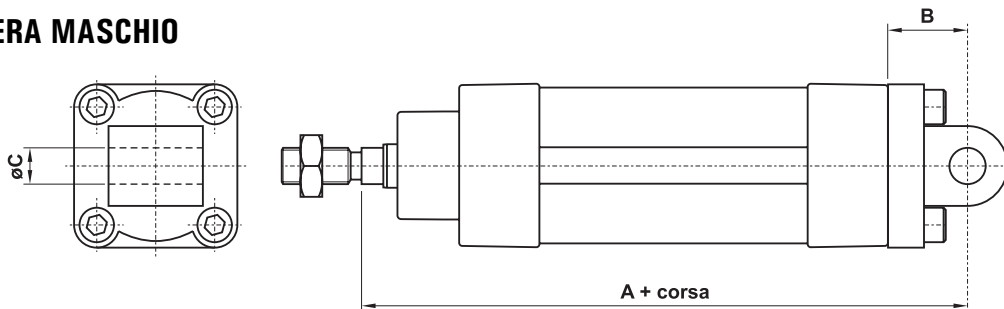


CERNIERA MASCHIO SNODO SFERICO



CMSS...

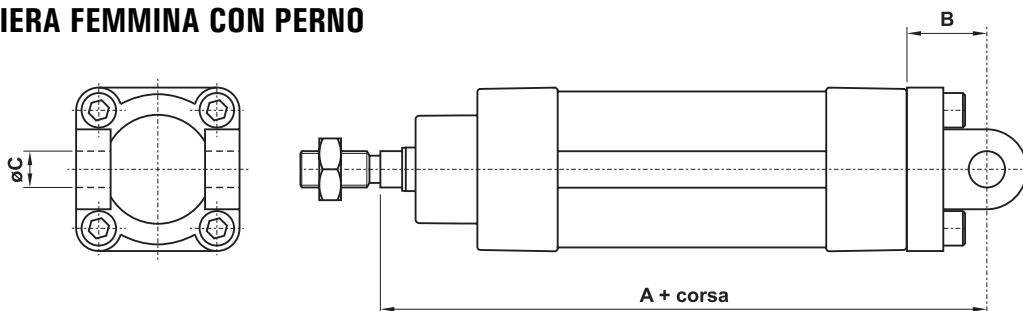
CERNIERA MASCHIO



CMIS...

CMKS...

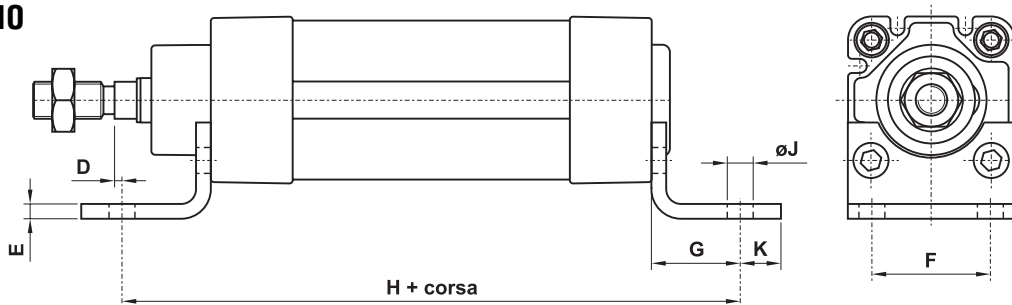
CERNIERA FEMMINA CON PERNO



CFIS...

CFKS...

PIEDINO



PBIS...

Ø	A	B	C	D	E	F	G	H	J	K
32	142	22	10	2	4	32	24	142	7	11
40	160	25	12	2	4	36	28	161	9	8
50	170	27	12	5	5	45	32	170	9	15
63	190	32	16	5	5	50	32	185	9	13
80	210	36	16	5	6	63	41	210	12	14
100	230	41	20	10	6	75	41	220	14	16
125	275	50	25	20	8	90	45	250	16	25
160	315	55	30	20	9	115	60	300	18	15
200	335	60	30	25	12	135	70	320	22	30

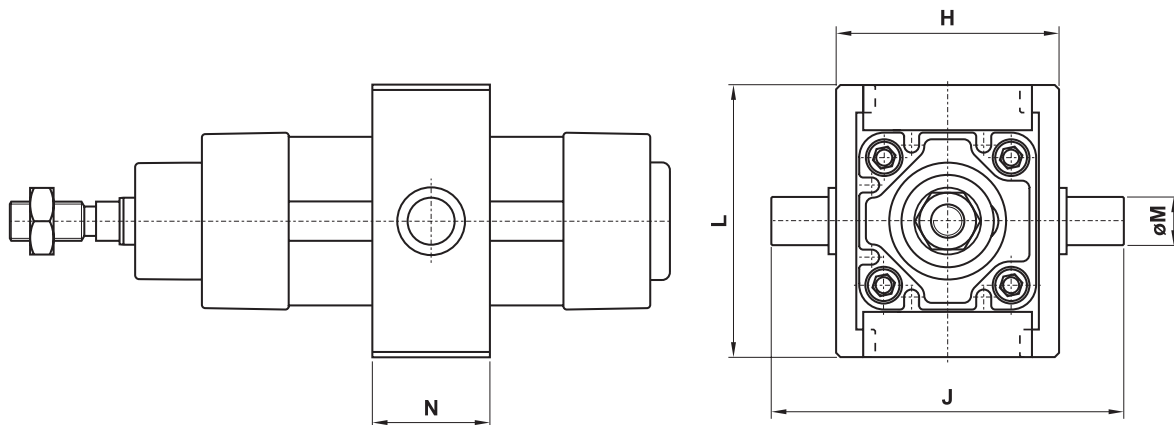
fissaggi per cilindri ISO 6431 VDMA

fixing elements for cylinders ISO 6431 VDMA



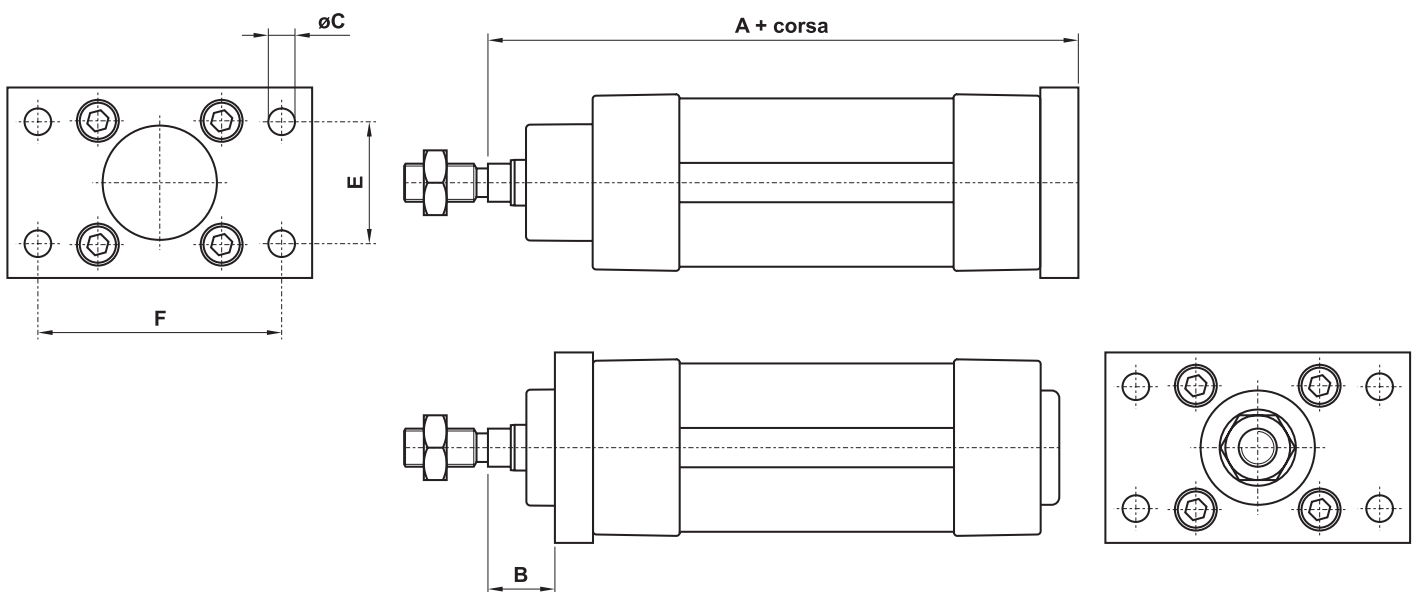
CERNIERA INTERMEDIA PER ESTRUSO

CIN...
CSIS...TI



FLANGIA

FLIS...



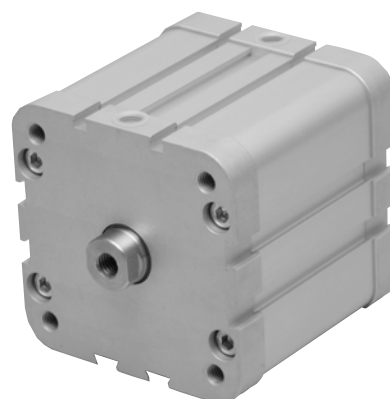
Ø	A	B	C	E	F	H	J	L	M	N
32	130	16	7	32	64	52	87	65	12	25
40	145	20	9	36	72	62	105	74.8	16	25
50	155	25	9	45	90	74	117	90.3	16	25
63	170	25	9	50	100	91	136	94.5	20	30
80	190	30	12	63	126	111	156	109.3	20	30
100	205	35	14	75	150	129	195	134	25	40
125	245	45	16	90	180	156.7	222.7	160	25	40
160	280	60	18	115	230	190	262	200	32	40
200	300	70	22	135	270	240	312	250	32	40

cilindri compatti

compact cylinders



- Cilindri compatti con interasse ISO 6431 o UNITOP
Fixing dimensions are compliant to norm ISO 6431 or UNITOP
- Predisposti per i fissaggi normalizzati
To be installed with standard fixing elements
- Grande affidabilità e lunga durata
High reliability and long life time
- Versione magnetica standard
Standard magnetic version
- Esecuzioni e corse speciali a richiesta
Special versions and strokes on request



Materiali

Camicia: alluminio

Stelo: C45 cromato o INOX AISI 304

Testate: alluminio

Pistone: alluminio

Guarnizioni: NBR o VITON

Guarnizione stelo: poliuretano o VITON

Magnete: plastroferrite

Materials

Barrel: aluminium

Piston-rod: C45 (chromium plated) or stainless steel

End-cups: aluminium

Piston: aluminium

Sealings: NBR or VITON

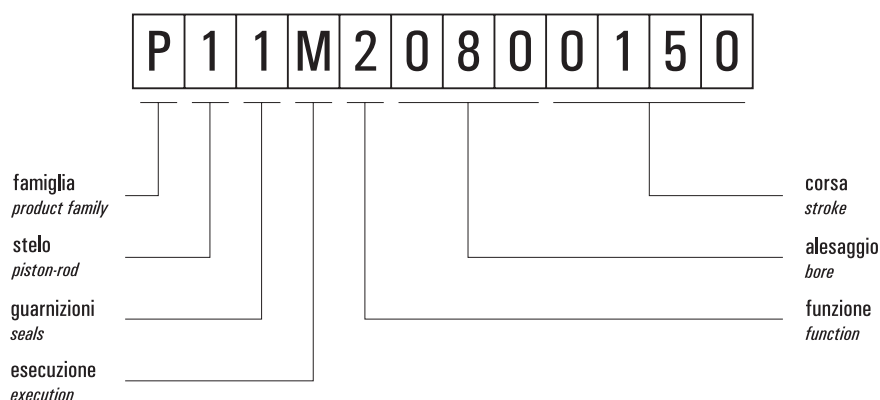
Piston-rod sealing: polyurethane or VITON

Magnet: magnetic iron compound

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	NBR: max +60°C VITON: max +110°C
Alesaggi <i>Bores</i>	32; 40; 50; 63; 80; 100 mm
Tipo di costruzione <i>Construction type</i>	Profilo quadro con cava centrale e cave laterali <i>Square aluminium profile</i>
Corse <i>Strokes</i>	5 ... 200 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

chiave di codifica

key to codes



Famiglia *[product family]*

- P** cilindri compatti interasse ISO 6431
[compact cylinders with fixing distances ISO 6431]
- R** cilindri compatti interasse UNITOP
[compact cylinders with fixing distances UNITOP]

Stelo *[piston-rod]*

- 1** C45 cromato - filetto stelo femmina
[C45 chromium plated - female rod thread]
- 2** INOX - filetto stelo femmina
[stainless steel - female rod thread]
- 3** C45 cromato - filetto stelo maschio
[C45 chromium plated - male rod thread]
- 4** INOX - filetto stelo maschio
[stainless steel - male rod thread]

Guarnizioni *[seals]*

- 1** NBR
- 2** tutte le guarnizioni in VITON *[all seals in VITON]*
- 3** guarnizioni dello stelo in VITON *[rod seals in VITON]*

Esecuzione *[execution]*

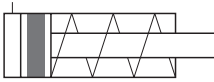
- M** magnetico *[magnetic]*

Funzione *[function]*

- 1** semplice effetto non ammortizzato molla anteriore
[single acting front spring without pneumatic cushioning]
- 2** doppio effetto non ammortizzato
[double acting without pneumatic cushioning]
- 3** semplice effetto non ammortizzato molla posteriore
[single acting back spring without pneumatic cushioning]
- 4** doppio effetto non ammortizzato stelo passante
[double acting without pneumatic cushioning, with passing-through rod]

versioni disponibili

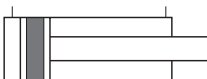
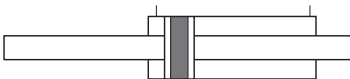
available versions

semplice effetto molla anteriore <i>single acting front spring</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio		32	40	50	63	80	100	OPZIONI <i>options</i> Lo standard è evidenziato in grigio The standard is marked with grey background		
	corsa	bore									stroke
	5		X	X	X	X	X	X	materiale stelo [piston-rod material] C45 cromato <i>C45 chromium plated</i>		
	10		X	X	X	X	X	X	INOX <i>stainless steel</i>		
	25		X	X	X	X	X	X	materiale guarnizioni [seals material]		
	30				X	X	X	X	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>
	40										
	50								filetto stelo [rod thread]		
	75								filetto stelo femmina <i>female rod thread</i>		
	80								filetto stelo maschio <i>male rod thread</i>		
	100										
	125										
	150										
	160										
	200										
semplice eff. molla posteriore <i>single acting back spring</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio		32	40	50	63	80	100	OPZIONI <i>options</i> Lo standard è evidenziato in grigio The standard is marked with grey background		
	corsa	bore									stroke
	5		X	X	X	X	X	X	materiale stelo [piston-rod material] C45 cromato <i>C45 chromium plated</i>		
	10		X	X	X	X	X	X	INOX <i>stainless steel</i>		
	25		X	X	X	X	X	X	materiale guarnizioni [seals material]		
	30				X	X	X	X	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>
	40										
	50								filetto stelo [rod thread]		
	75								filetto stelo femmina <i>female rod thread</i>		
	80								filetto stelo maschio <i>male rod thread</i>		
	100										
	125										
	150										
160											
200											

4

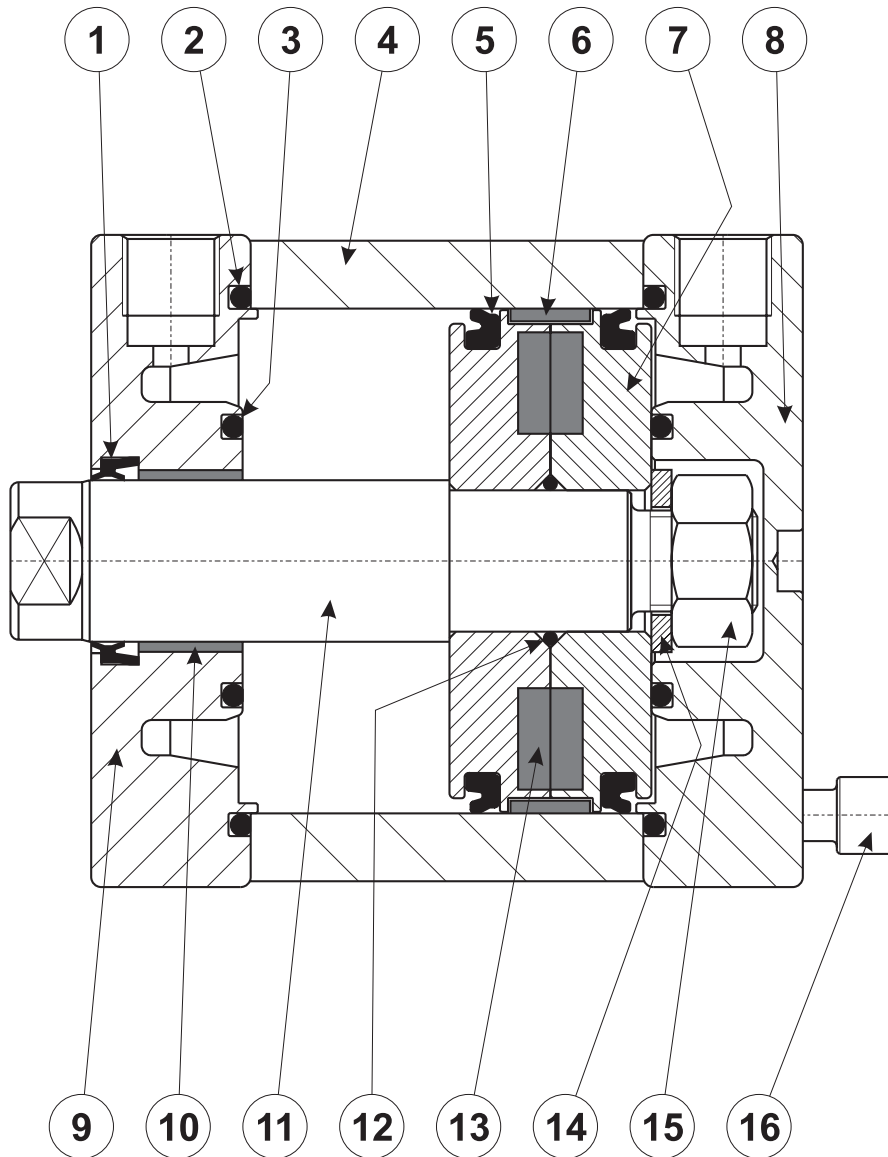
versioni disponibili

available versions

doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio		32	40	50	63	80	100	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>							
	corsa	bore														
	5	stroke	X	X	X	X	X	X	materiale stelo [piston-rod material] <table border="1"> <tr> <td>C45 cromato <i>C45 chromium plated</i></td> <td>INOX <i>stainless steel</i></td> </tr> </table> materiale guarnizioni [seals material] <table border="1"> <tr> <td>NBR</td> <td>tutte in VITON <i>all seals in VITON</i></td> <td>guarnizioni stelo in VITON <i>rod seals in VITON</i></td> </tr> </table> filetto stelo [rod thread] <table border="1"> <tr> <td>filetto stelo femmina <i>female rod thread</i></td> <td>filetto stelo maschio <i>male rod thread</i></td> </tr> </table>	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>	filetto stelo femmina <i>female rod thread</i>	filetto stelo maschio <i>male rod thread</i>
	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>														
	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>													
	filetto stelo femmina <i>female rod thread</i>	filetto stelo maschio <i>male rod thread</i>														
	10	X	X	X	X	X	X	X								
	25	X	X	X	X	X	X	X								
	30	X	X	X	X	X	X	X								
	40	X	X	X	X	X	X	X								
	50	X	X	X	X	X	X	X								
	75	X	X	X	X	X	X	X								
	80	X	X	X	X	X	X	X								
	100	X	X	X	X	X	X	X								
	125	X	X	X	X	X	X	X								
	150	X	X	X	X	X	X	X								
160	X	X	X	X	X	X	X									
200	X	X	X	X	X	X	X									
doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i> stelo passante <i>passing-through rod</i>	alesaggio		32	40	50	63	80	100	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>							
	corsa	bore														
	5	stroke	X	X	X	X	X	X	materiale stelo [piston-rod material] <table border="1"> <tr> <td>C45 cromato <i>C45 chromium plated</i></td> <td>INOX <i>stainless steel</i></td> </tr> </table> materiale guarnizioni [seals material] <table border="1"> <tr> <td>NBR</td> <td>tutte in VITON <i>all seals in VITON</i></td> <td>guarnizioni stelo in VITON <i>rod seals in VITON</i></td> </tr> </table> filetto stelo [rod thread] <table border="1"> <tr> <td>filetto stelo femmina <i>female rod thread</i></td> <td>filetto stelo maschio <i>male rod thread</i></td> </tr> </table>	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>	filetto stelo femmina <i>female rod thread</i>	filetto stelo maschio <i>male rod thread</i>
	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>														
	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>													
	filetto stelo femmina <i>female rod thread</i>	filetto stelo maschio <i>male rod thread</i>														
	10	X	X	X	X	X	X	X								
	25	X	X	X	X	X	X	X								
	30	X	X	X	X	X	X	X								
	40	X	X	X	X	X	X	X								
	50	X	X	X	X	X	X	X								
	75	X	X	X	X	X	X	X								
	80	X	X	X	X	X	X	X								
	100	X	X	X	X	X	X	X								
	125	X	X	X	X	X	X	X								
	150	X	X	X	X	X	X	X								
160	X	X	X	X	X	X	X									
200	X	X	X	X	X	X	X									

cilindri compatti

compact cylinders



1. Guarnizione stelo: POLIURETANO o VITON
2. O-Ring per tenuta testata: NBR o VITON
3. O-Ring paracolpi: NBR o VITON
4. Camicia: alluminio profilato, calibrato e anodizzato
5. Guarnizione a labbro per pistone: NBR o VITON
6. Anello guida per pistone: bronzo PTFE
7. Pistone: alluminio
8. Testata posteriore: alluminio
9. Testata anteriore: alluminio
10. Boccola guida: materiale autolubrificante
11. Stelo: acciaio C45 cromato o INOX AISI 304
12. O-Ring per tenuta pistone: NBR o VITON
13. Magnete: plastoferrite
14. Rondella piana
15. Dado per bloccaggio stelo
16. Vite per fissaggio testata

kit guarnizioni di ricambio

seals kit

MAGNETICO, guarnizioni standard

normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
32	GP032	25.103.2	32	GP032P	25.113.2
40	GP040	25.104.2	40	GP040P	25.114.2
50	GP050	25.105.2	50	GP050P	25.115.2
63	GP063	25.106.2	63	GP063P	25.116.2
80	GP080	25.107.2	80	GP080P	25.117.2
100	GP100	25.108.2	100	GP100P	25.118.2

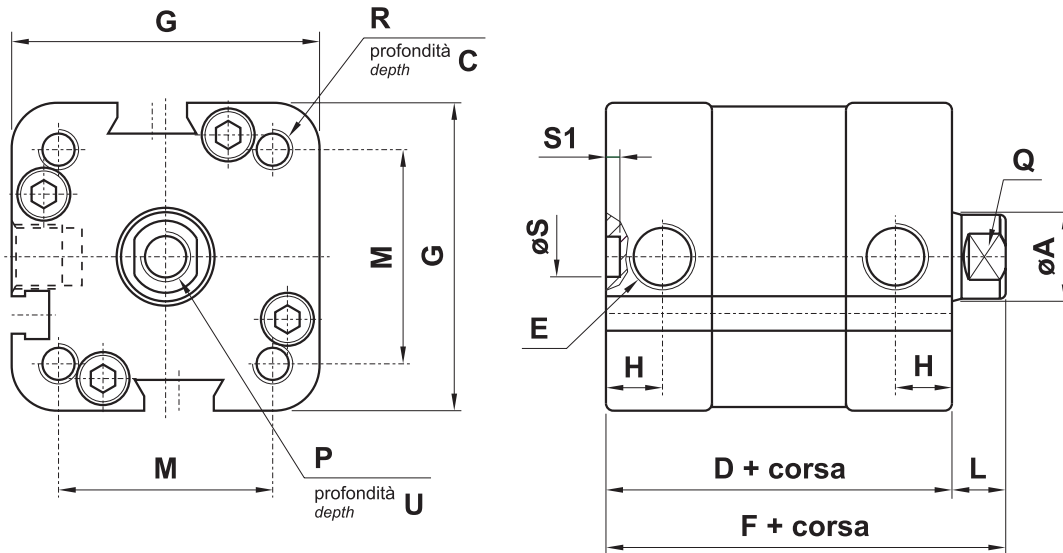
MAGNETICO, guarnizioni VITON

normale			stelo passante <i>[passing-through rod]</i>		
per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	sigla <i>part number</i>	codice <i>code</i>
32	GP032V	25.123.2	32	GP032PV	25.133.2
40	GP040V	25.124.2	40	GP040PV	25.134.2
50	GP050V	25.125.2	50	GP050PV	25.135.2
63	GP063V	25.126.2	63	GP063PV	25.136.2
80	GP080V	25.127.2	80	GP080PV	25.137.2
100	GP100V	25.128.2	100	GP100PV	25.138.2

VERSIONE MAGNETICA, FILETTO STELO FEMMINA

magnetic version, female rod thread

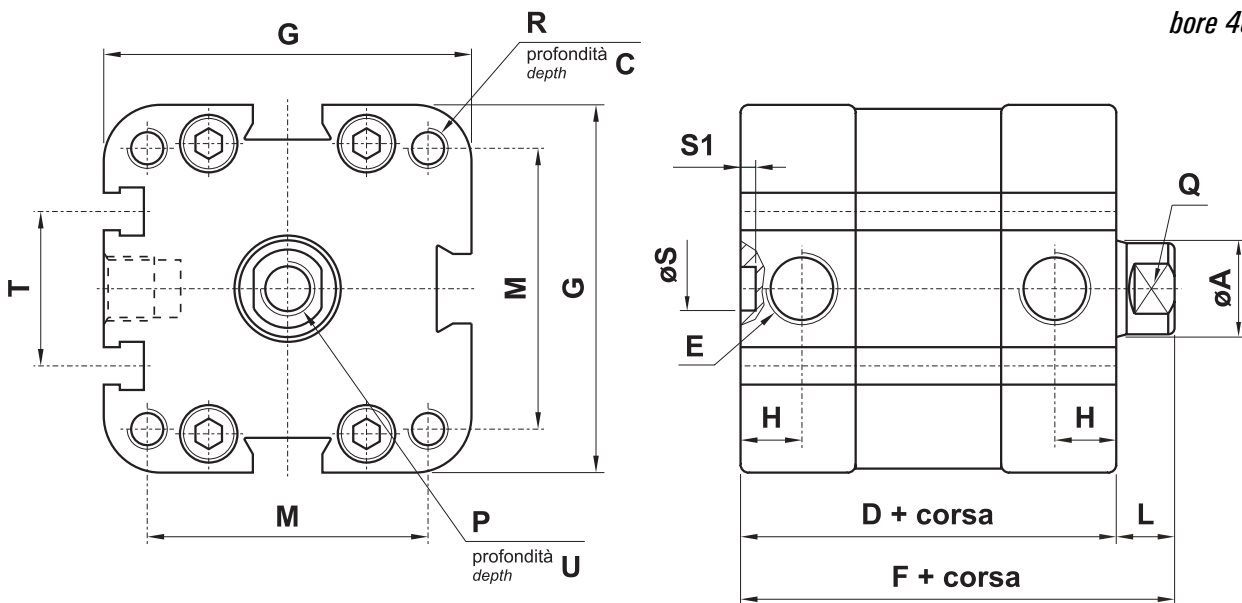
alesaggio 32
bore 32



ø	A	C	D	E	F*	G		H	L*	M		P	Q	R		S	S1	U
						ISO	UNITOP			ISO	UNITOP			ISO	UNITOP			
32	12	14	46	G1/8"	53	46	46	7	7	32.3	32.3	M8	ch 10	M6	M6	6	2.5	13.5

4

alesaggio 40 - 50 - 63
bore 40 - 50 - 63



ø	A	C	D	E	F*	G		H	L*	M		P	Q	R		S	S1	T	U
						ISO	UNITOP			ISO	UNITOP			ISO	UNITOP				
40	12	14	46	G1/8"	53	55	55	6.5	7	38	42	M8	ch 10	M6	M6	6	2.5	22	13.5
50	16	15	50	G1/8"	58	64.5	64.5	7.5	8	46.5	50	M10	ch 13	M8	M8	6	2.5	24	16
63	16	15	53	G1/8"	61	78	78	7.5	8	56.5	62	M10	ch 13	M8	M10	6	2.5	29	16

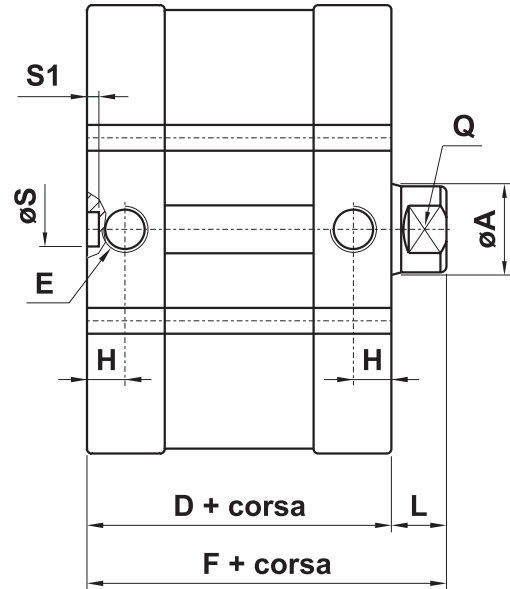
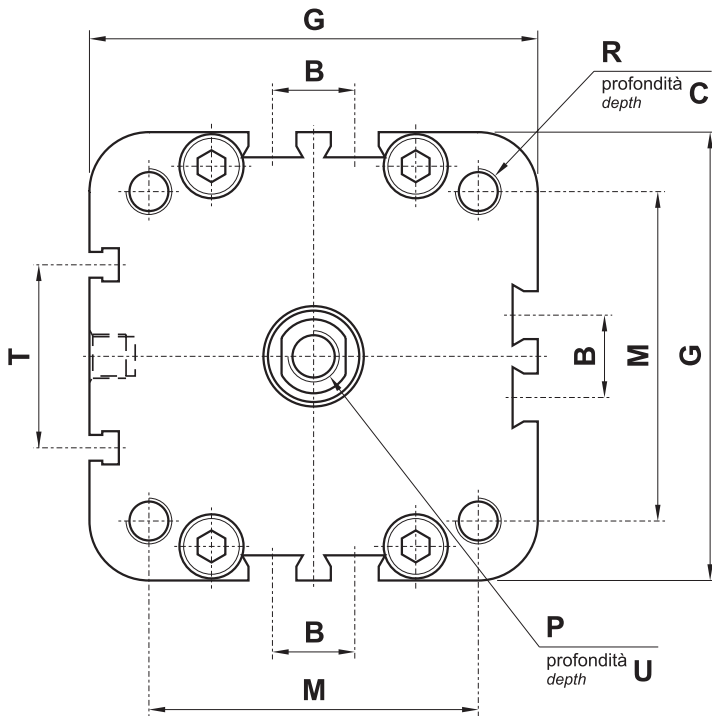
cilindri compatti

compact cylinders



alesaggio 80 - 100

bore 80 - 100



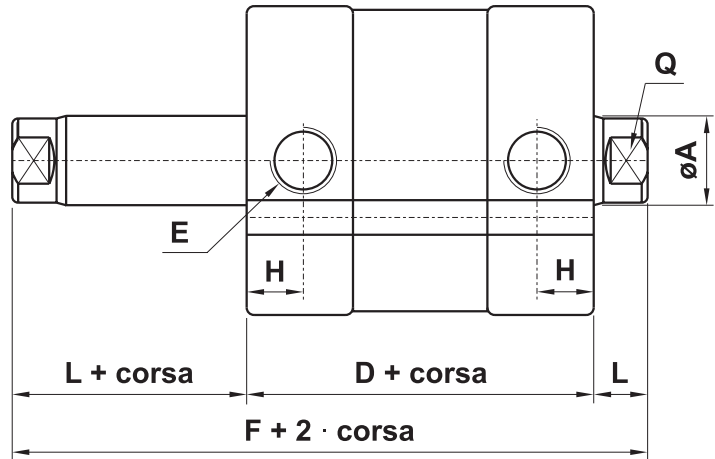
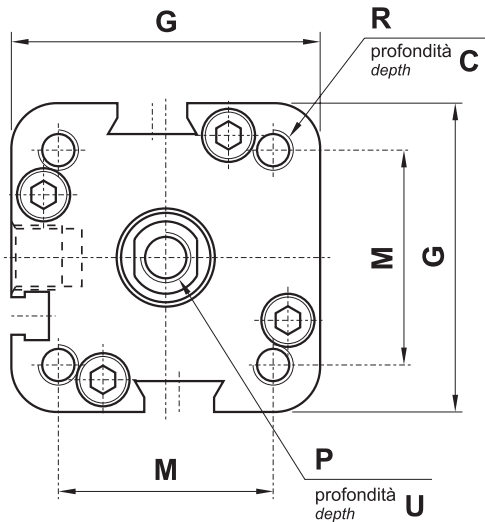
ø	A	B	C	D	E	F*	G		H	L*	M		P	Q	R		S	S1	T	U
							ISO	UNITOP			ISO	UNITOP			ISO	UNITOP				
80	20	18	17	56	G1/8"	66	98	99	8	10	72	82	M10	ch 17	M10	M10	8	3.5	40	20
100	25	28	17.5	67	G1/4"	77	117	119	9	10	89	103	M12	ch 22	M10	M10	8	4	40	24

F*; L*: In caso di cilindro semplice effetto molla posteriore aggiungere la lunghezza della corsa

F*; L*: In case of single acting cylinder with back spring add stroke length

VERSIONE MAGNETICA, FILETTO STELO FEMMINA, STELO PASSANTE

magnetic version, female rod thread, passing-through rod



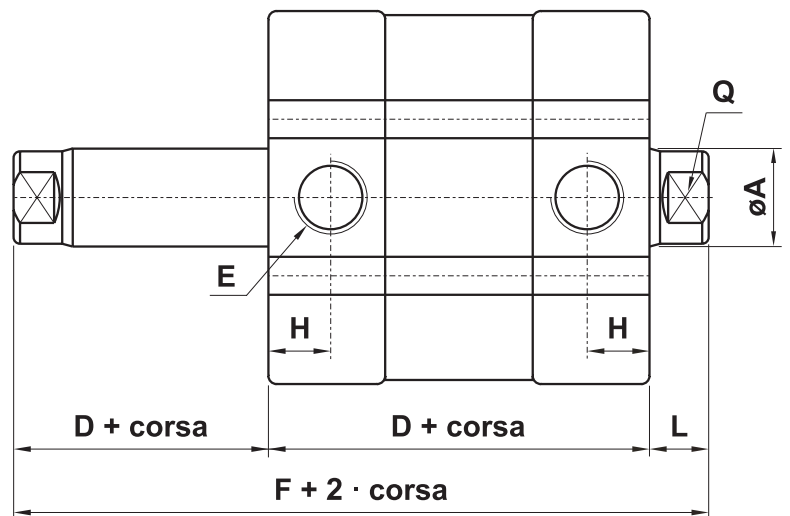
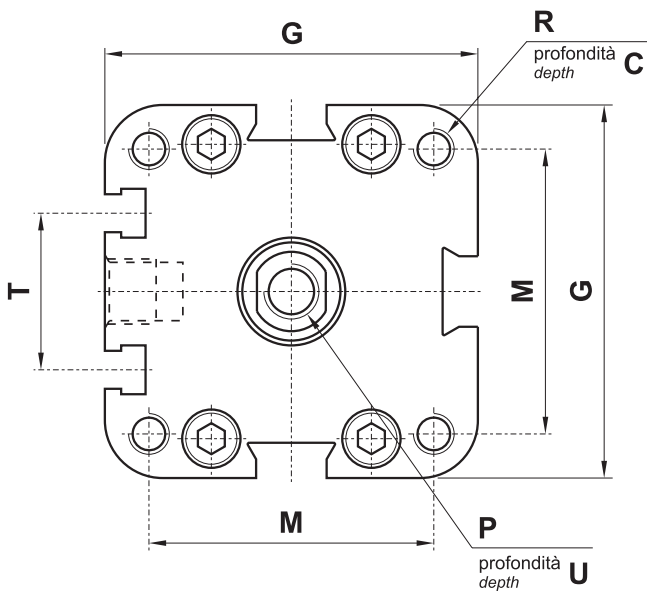
alesaggio 32
bore 32

ø	A	C	D	E	F	G		H	L	M		P	Q	R		U
						ISO	UNITOP			ISO	UNITOP			ISO	UNITOP	
32	12	14	46	G1/8"	60	46	46	7	7	32.3	32.3	M8	ch 10	M6	M6	13.5

4

alesaggio 40 - 50 - 63

bore 40 - 50 - 63



ø	A	C	D	E	F	G		H	L	M		P	Q	R		T	U
						ISO	UNITOP			ISO	UNITOP			ISO	UNITOP		
40	12	14	46	G1/8"	60	55	55	6.5	7	38	42	M8	ch 10	M6	M6	22	13.5
50	16	15	50	G1/8"	66	64.5	64.5	7.5	8	46.5	50	M10	ch 13	M8	M8	24	16
63	16	15	53	G1/8"	69	78	78	7.5	8	56.5	62	M10	ch 13	M8	M10	29	16

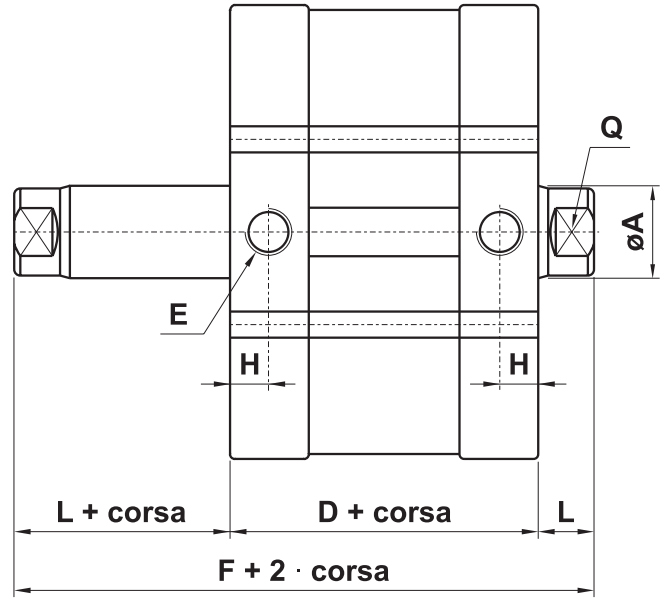
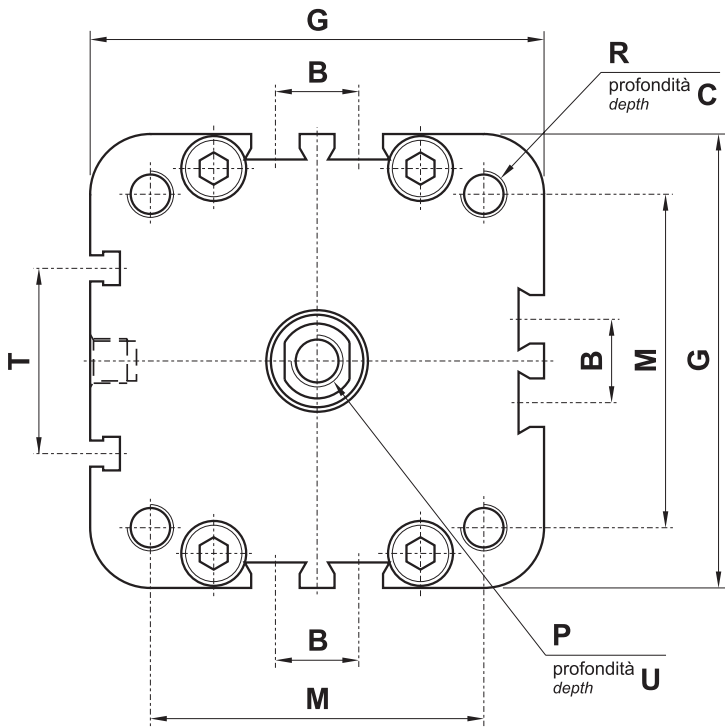
cilindri compatti

compact cylinders



alesaggio 80 - 100

bore 80 - 100

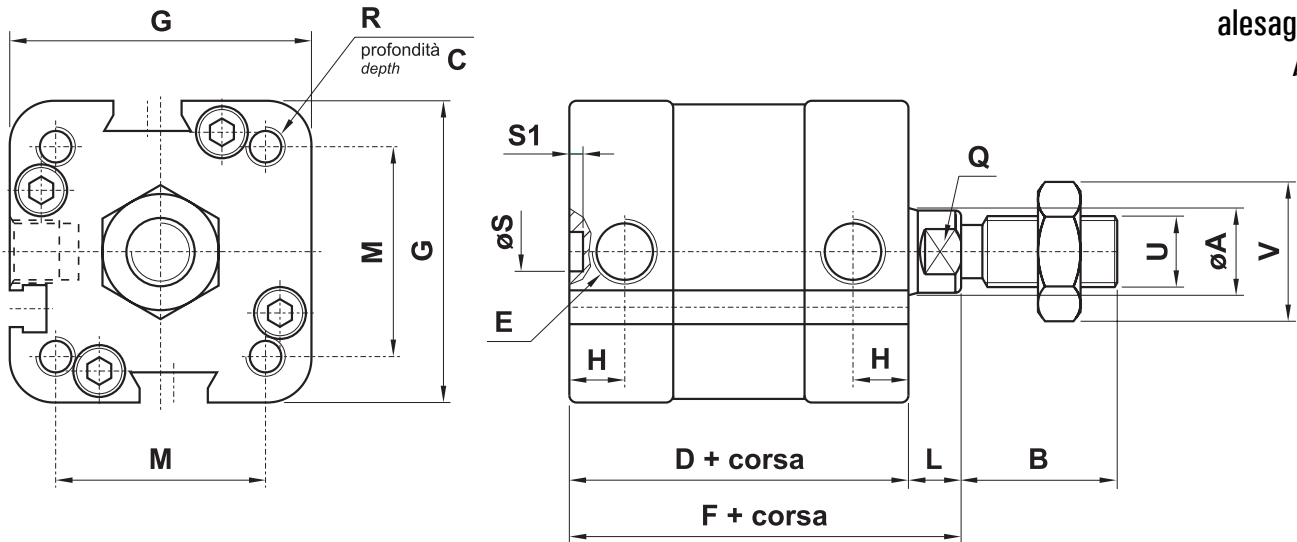


ø	A	B	C	D	E	F	G		H	L	M		P	Q	R		T	U
							ISO	UNITOP			ISO	UNITOP			ISO	UNITOP		
80	20	18	17	56	G1/8"	76	98	99	8	10	72	82	M10	ch 17	M10	M10	40	20
100	25	28	17.5	67	G1/4"	87	117	119	9	10	89	103	M12	ch 22	M10	M10	40	24

VERSIONE MAGNETICA, FILETTO STELO MASCHIO

magnetic version, male rod thread

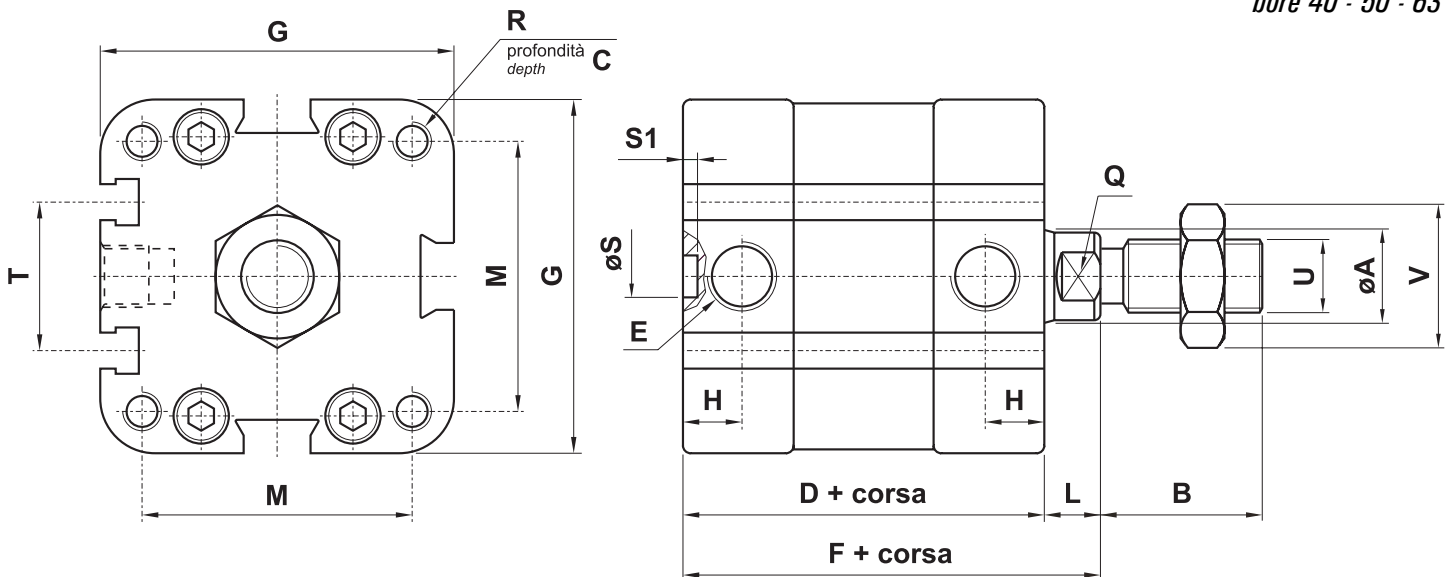
alesaggio 32
bore 32



ø	A	B	C	D	E	F*	G		H	L*	M		Q	R		S	S1	U	V
							ISO	UNITOP			ISO	UNITOP		ISO	UNITOP				
32	12	22	14	46	G1/8"	53	46	46	7	7	32.3	32.3	ch 10	M6	M6	6	2.5	M10x1.25	ch 17

4

alesaggio 40 - 50 - 63
bore 40 - 50 - 63



ø	A	B	C	D	E	F*	G		H	L*	M		Q	R		S	S1	T	U	V
							ISO	UNITOP			ISO	UNITOP		ISO	UNITOP					
40	12	22	14	46	G1/8"	53	55	55	6.5	7	38	42	ch 10	M6	M6	6	2.5	22	M10x1.25	ch 17
50	16	24	15	50	G1/8"	58	64.5	64.5	7.5	8	46.5	50	ch 13	M8	M8	6	2.5	24	M12x1.25	ch 19
63	16	24	15	53	G1/8"	61	78	78	7.5	8	56.5	62	ch 13	M8	M10	6	2.5	29	M12x1.25	ch 19

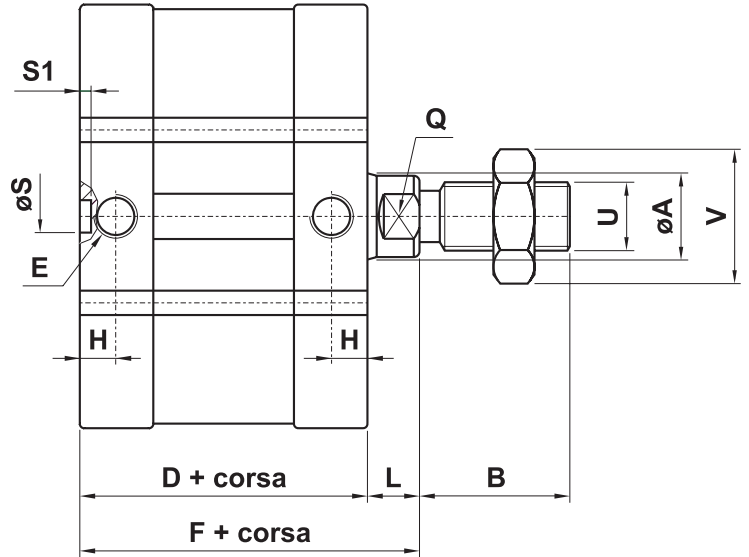
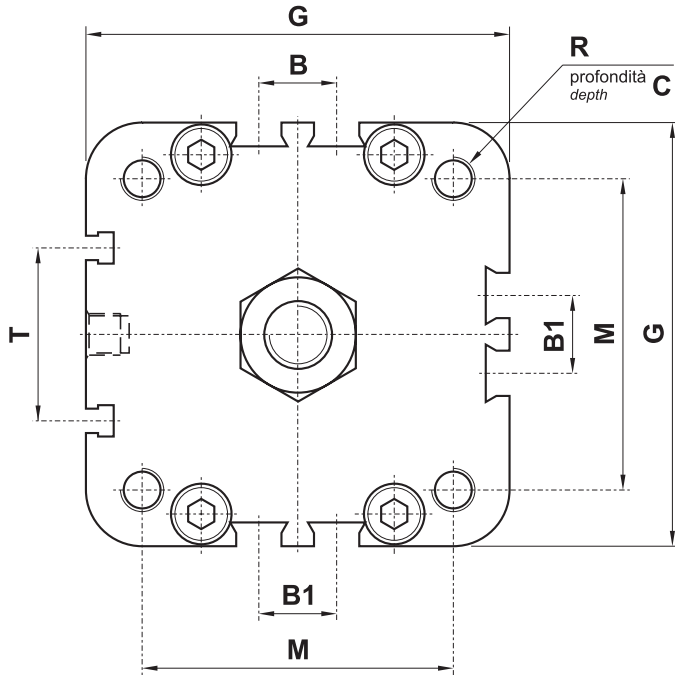
cilindri compatti

compact cylinders



alesaggio 80 - 100

bore 80 - 100



ø	A	B	B1	C	D	E	F*	G		H	L*	M		Q	R		S	S1	T	U	V
								ISO	UNITOP			ISO	UNITOP		ISO	UNITOP					
80	20	32	18	17	56	G1/8"	66	98	99	8	10	72	82	ch 17	M10	M10	8	3.5	40	M16x1.5	ch 24
100	25	40	28	17.5	67	G1/4"	77	117	119	9	10	89	103	ch 22	M10	M10	8	4	40	M20x1.5	ch 30

F*; L*: In caso di cilindro semplice effetto molla posteriore aggiungere la lunghezza della corsa

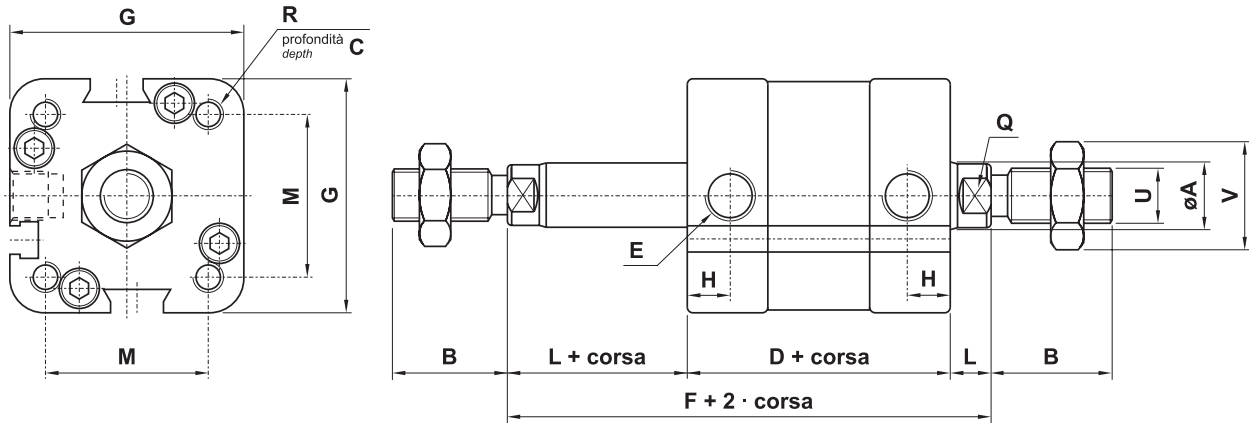
F*; L*: In case of single acting cylinder with back spring add stroke length

VERSIONE MAGNETICA, FILETTO STELO MASCHIO, STELO PASSANTE

magnetic version, male rod thread, passing-through rod

alesaggio 32

bore 32

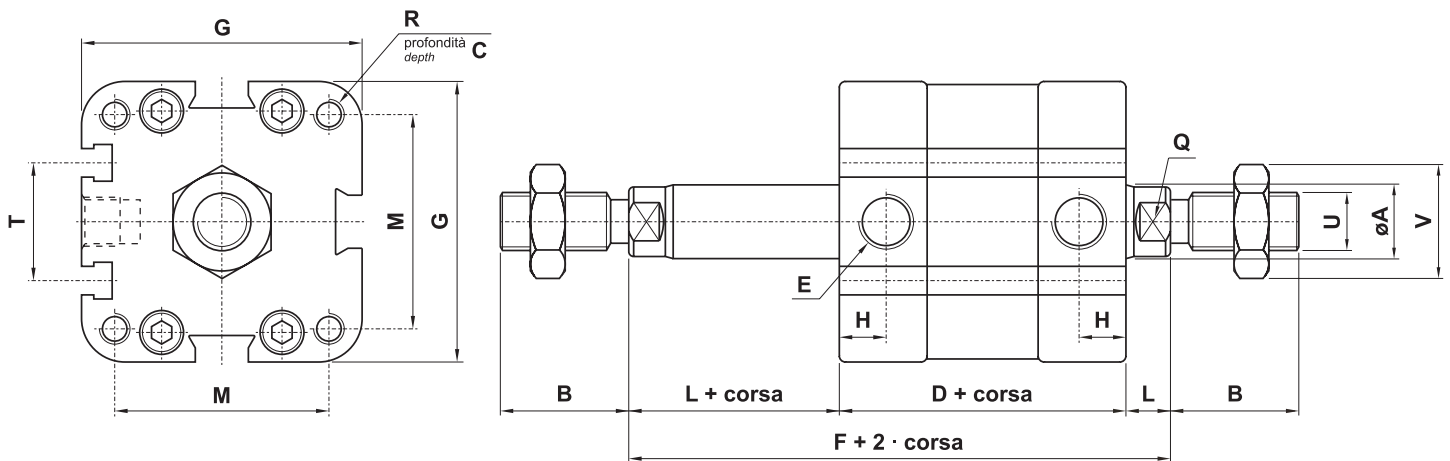


ø	A	B	C	D	E	F	G		H	L	M		Q	R		U	V
							ISO	UNITOP			ISO	UNITOP		ISO	UNITOP		
32	12	22	14	46	G1/8"	60	46	46	7	7	32.3	32.3	ch 10	M6	M6	M10x1.25	ch 17

4

alesaggio 40 - 50 - 63

bore 40 - 50 - 63



ø	A	B	C	D	E	F	G		H	L	M		Q	R		T	U	V
							ISO	UNITOP			ISO	UNITOP		ISO	UNITOP			
40	12	22	14	46	G1/8"	60	55	55	6.5	7	38	42	ch 10	M6	M6	22	M10x1.25	ch 17
50	16	24	15	50	G1/8"	66	64.5	64.5	7.5	8	46.5	50	ch 13	M8	M8	24	M12x1.25	ch 19
63	16	24	15	53	G1/8"	69	78	78	7.5	8	56.5	62	ch 13	M8	M10	29	M12x1.25	ch 19

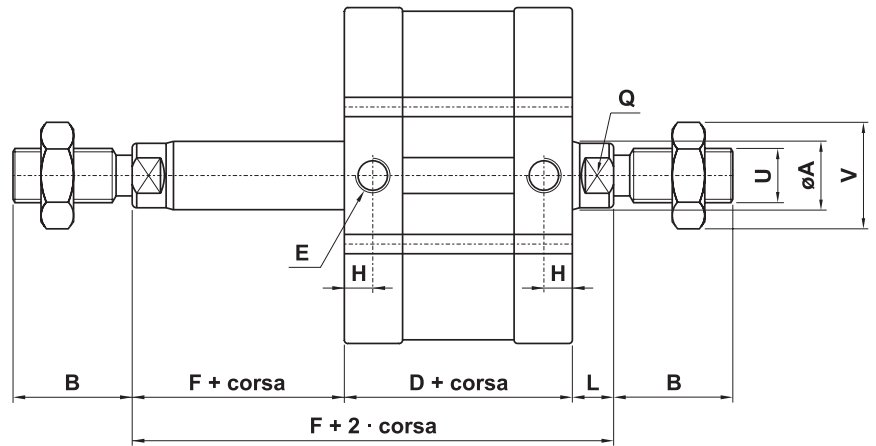
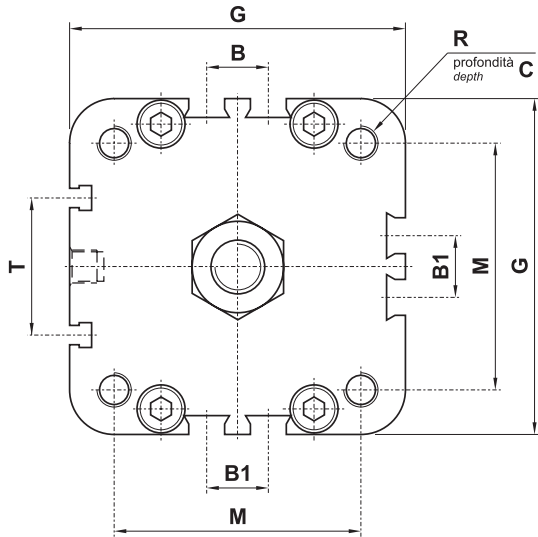
cilindri compatti

compact cylinders



alesaggio 80 - 100

bore 80 - 100



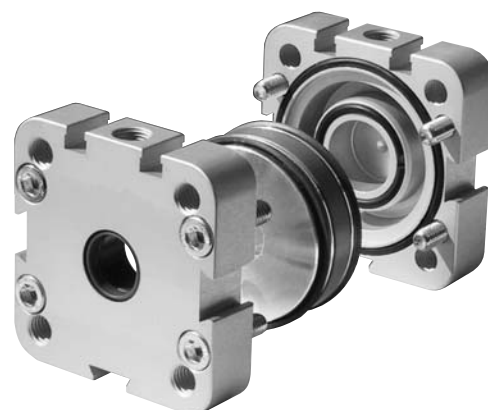
ø	A	B	B1	C	D	E	F	G		H	L	M		Q	R		T	U	V
								ISO	UNITOP			ISO	UNITOP		ISO	UNITOP			
80	20	32	18	17	56	G1/8"	76	98	99	8	10	72	82	ch 17	M10	M10	40	M16x1.5	ch 24
100	25	40	28	17.5	67	G1/4"	87	117	119	9	10	89	103	ch 22	M10	M10	40	M20x1.5	ch 30

kit cilindro compatto

compact cylinder kit

Il kit comprende:

- testate premontate
- pistone con magnete, guarnizioni e anello di guida
- viti
- tutte le guarnizioni necessarie



MAGNETICO, guarnizioni standard

normale					stelo passante [passing-through rod]				
per alesaggio for bore	ISO		UNITOP		per alesaggio for bore	ISO		UNITOP	
	sigla part number	codice code	sigla part number	codice code		sigla part number	codice code	sigla part number	codice code
32	KP032	25.004.3	KR032	25.104.3	32	KP032P	25.014.3	KR032P	25.114.3
40	KP040	25.005.3	KR040	25.105.3	40	KP040P	25.015.3	KR040P	25.115.3
50	KP050	25.006.3	KR050	25.106.3	50	KP050P	25.016.3	KR050P	25.116.3
63	KP063	25.007.3	KR063	25.107.3	63	KP063P	25.017.3	KR063P	25.117.3
80	KP080	25.008.3	KR080	25.108.3	80	KP080P	25.018.3	KR080P	25.118.3
100	KP100	25.009.3	KR100	25.109.3	100	KP100P	25.019.3	KR100P	25.119.3

MAGNETICO, guarnizioni VITON

normale					stelo passante [passing-through rod]				
per alesaggio for bore	ISO		UNITOP		per alesaggio for bore	ISO		UNITOP	
	sigla part number	codice code	sigla part number	codice code		sigla part number	codice code	sigla part number	codice code
32	KP032V	25.024.3	KR032V	25.124.3	32	KP032PV	25.034.3	KR032PV	25.134.3
40	KP040V	25.025.3	KR040V	25.125.3	40	KP040PV	25.035.3	KR040PV	25.135.3
50	KP050V	25.026.3	KR050V	25.126.3	50	KP050PV	25.036.3	KR050PV	25.136.3
63	KP063V	25.027.3	KR063V	25.127.3	63	KP063PV	25.037.3	KR063PV	25.137.3
80	KP080V	25.028.3	KR080V	25.128.3	80	KP080PV	25.038.3	KR080PV	25.138.3
100	KP100V	25.029.3	KR100V	25.129.3	100	KP100PV	25.039.3	KR100PV	25.139.3

Maggiori informazioni sono disponibili all'indirizzo internet <http://www.azpneumatica.com/azweb/ita/kitcilc.htm>

More information is available at the internet address <http://www.azpneumatica.com/azweb/ita/kitcilc.htm>

barre per camicia cilindri compatti

barrel for compact cylinders



	codice di ordinazione order code	dimensioni - dimensions [mm]					peso weight [kg/m]
		A	B	C	D	E	
	000.523.7	$\varnothing 32^{+0.16}$	32.5	45	14.5	20.5	2.368
	000.524.7	$\varnothing 40^{+0.16}$	38	53	22	-	2.984
	000.525.7	$\varnothing 50^{+0.19}$	46.5	63	24	-	3.823
	000.526.7	$\varnothing 63^{+0.19}$	56.5	76.5	29	-	5.686
	000.527.7	$\varnothing 80^{+0.22}$	72	95	40	18	7.544
	000.528.7	$\varnothing 100^{+0.45}$	89	115	40	28	10.919

composizione chimica chemical composition	Cu	Fe	Mn	Mg	Si	Zn	Cr	Ti	Al resto
	≤ 0.10	0.10 ÷ 0.30	≤ 0.10	0.35 ÷ 0.60	0.30 ÷ 0.60	≤ 0.15	≤ 0.05	≤ 0.10	

Fori di fissaggio

dal $\varnothing 32$ al $\varnothing 100$: predisposti per la filettatura metrica mediante rullatura

Fixing holes

from $\varnothing 32$ to $\varnothing 100$: prepared for metric thread through rolling

fissaggi per cilindri compatti ISO

fixing elements for ISO compact cylinders



Per altre informazioni vedi le pagine 301-305 (fissaggi per cilindri ISO 6431 VDMA)

For more information see pages 301-305 (fixing elements for cylinders ISO 6431 VDMA)

<p>CERNIERA MASCHIO SNODO SFERICO</p>	<p>CMSS...</p>
<p>CERNIERA MASCHIO</p>	<p>CMIS... CMKS...</p>
<p>CERNIERA FEMMINA CON PERNO</p>	<p>CFIS... CFKS...</p>

\varnothing	A1	B1	C	D1
32	75	22	10	26
40	78	25	12	28
50	85	27	12	32
63	93	32	16	40
80	102	36	16	50
100	118	41	20	60

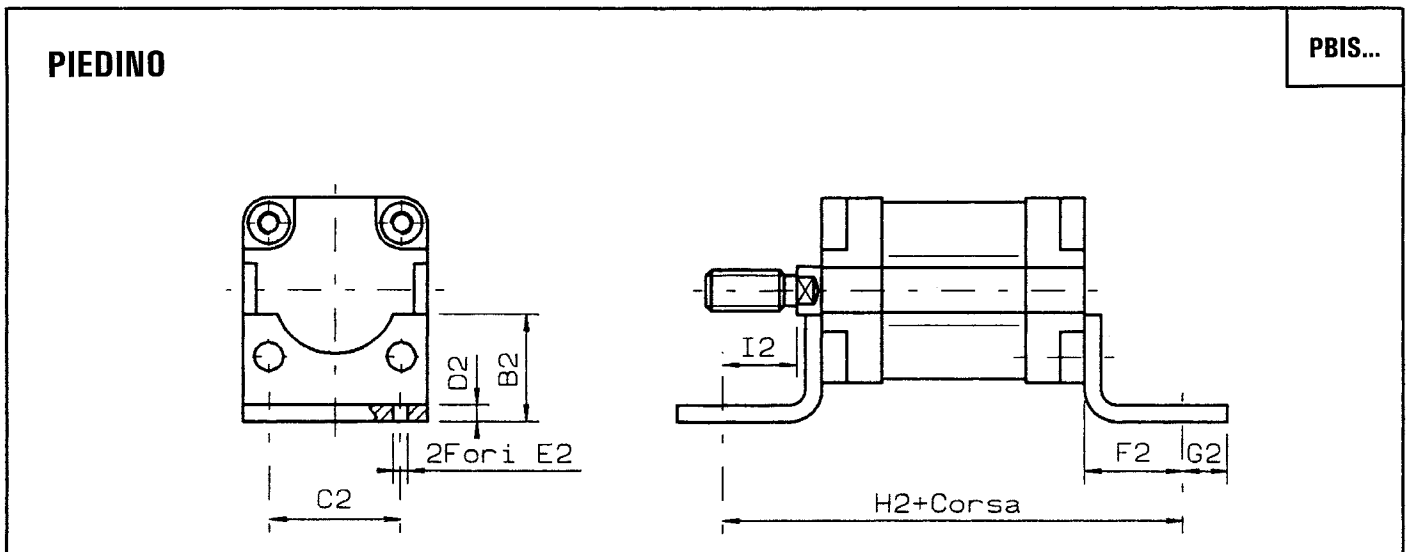
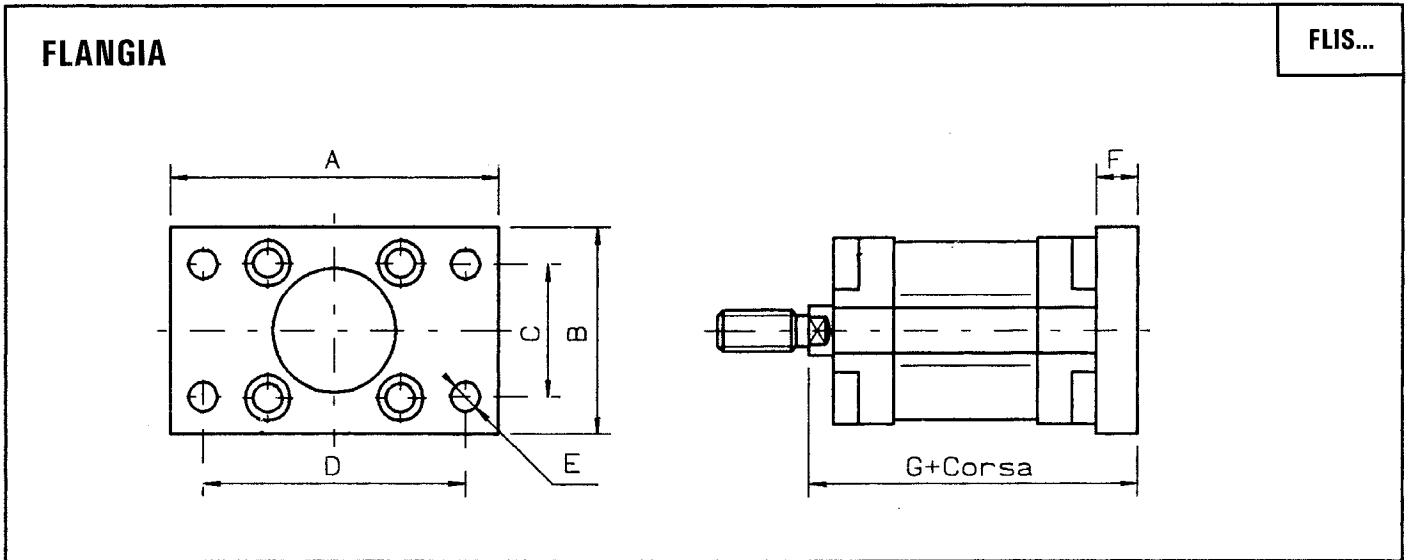
fissaggi per cilindri compatti ISO

fixing elements for ISO compact cylinders



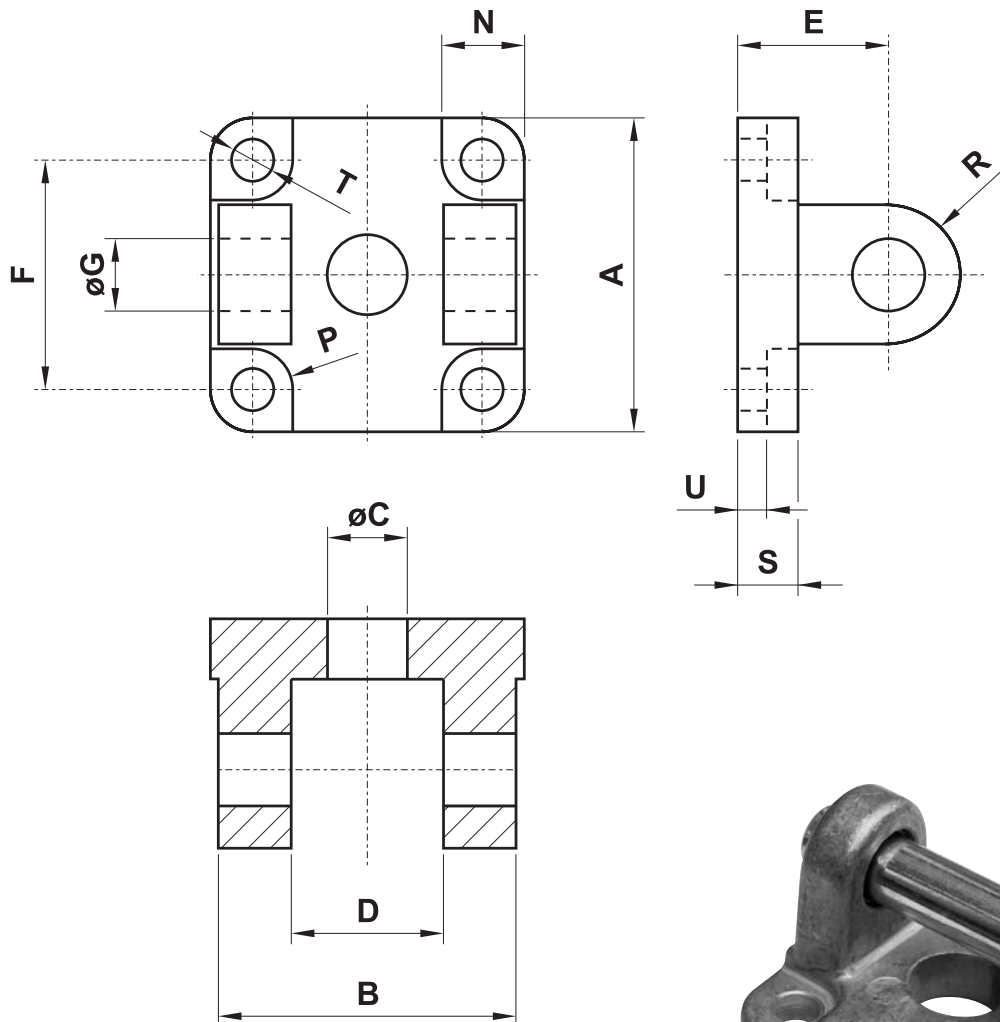
Per altre informazioni vedi le pagine 301-305 (fissaggi per cilindri ISO 6431 VDMA)

For more information see pages 301-305 (fixing elements for cylinders ISO 6431 VDMA)



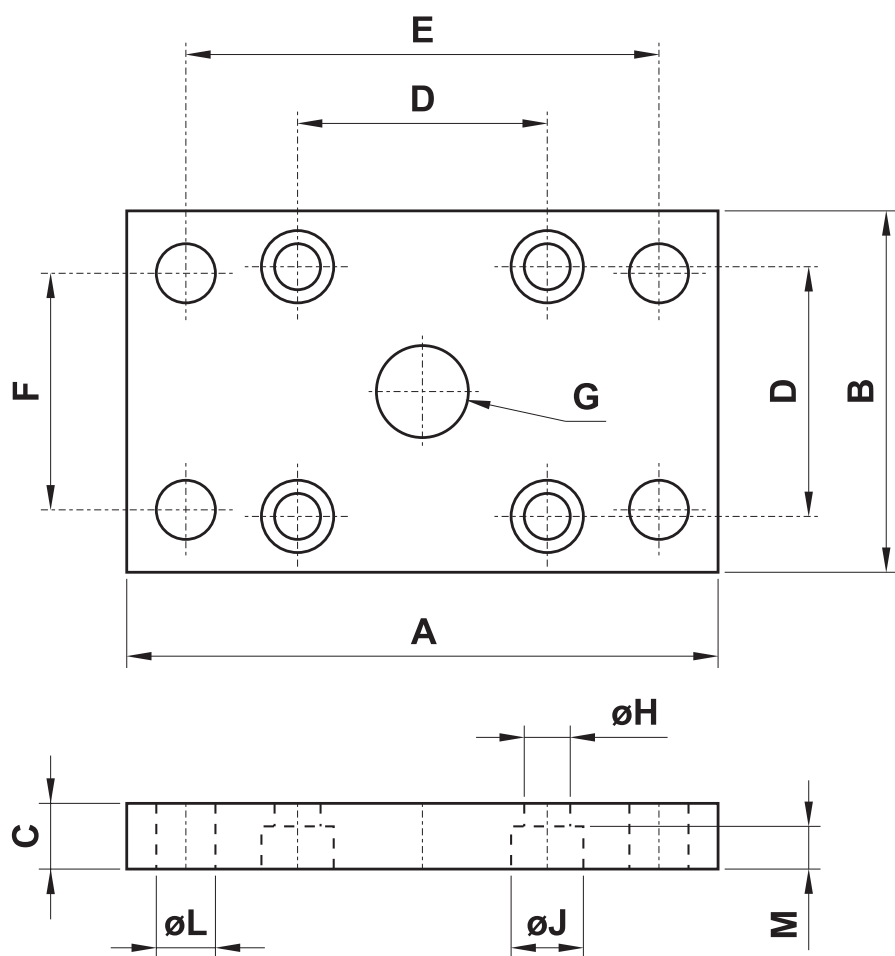
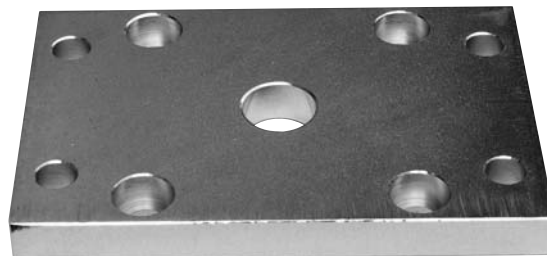
G	F	E	D	C	B	A	∅	B2	C2	D2	E2	F2	G2	H2	I2
63	10	7	64	32	45	80	32	30	32.5	4	7	24	11	94	17
63	10	9	72	36	52	90	40	30	38	4	9	28	8	102	21
70	12	9	90	45	65	110	50	36	46.5	5	9	32	15	114	24
73	12	9	100	50	75	120	63	35	56.5	5	9	32	13	117	24
82	16	12	126	63	95	150	80	47	72	6	12	41	14	138	31
93	16	14	150	75	115	170	100	53	89	6	14	41	16	149	31

CERNIERA FEMMINA CON PERNO



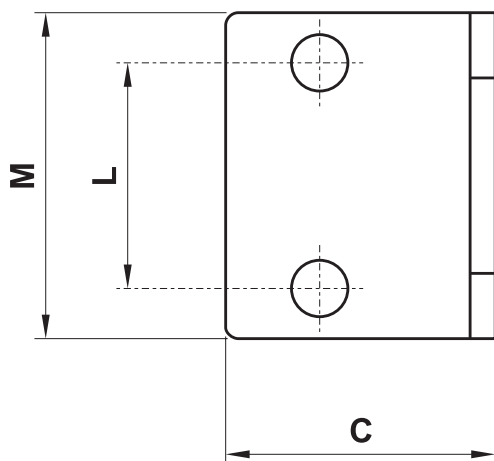
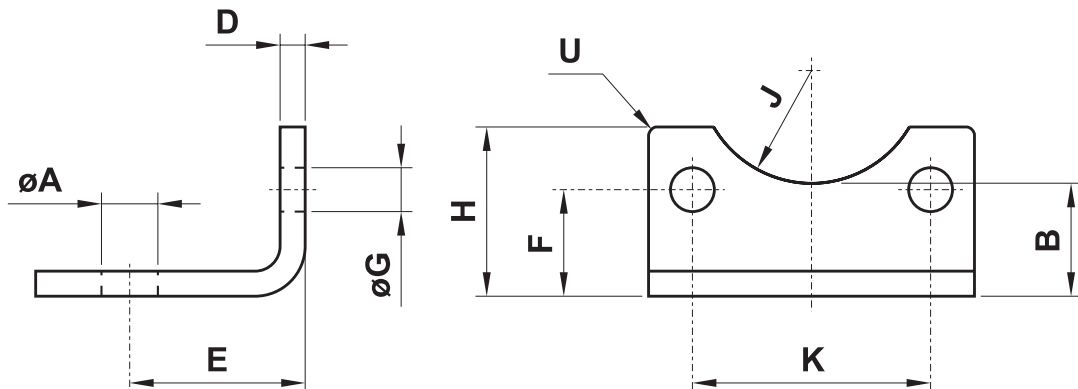
sigla part number	sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	N	P	R	S	T	U
standard	con boccola di bronzo														
CFUN032	CFKN032	32	48	45	14	26	22	32	10	13.5	5.5	10	9	6.6	5.5
CFUN040	CFKN040	40	58	52	14	28	25	42	12	13.5	5.5	12.5	9	6.6	5.5
CFUN050	CFKN050	50	66	60	18	32	27	50	12	15.5	7.5	12.5	11	9	6.5
CFUN063	CFKN063	63	83	70	18	40	32	62	16	18	7.5	15	11	11	6.5
CFUN080	CFKN080	80	102	90	23	50	36	82	16	19	9	15	13	11	10
CFUN100	CFKN100	100	123	110	28	60	41	103	20	19	9	20	15	11	10

FLANGIA



sigla part number	per alesaggio for bore	A	B	C	D	E	F	G	H	J	L	M
FLUN032	32	80	50	10	32	65	32	ø14	6.6	11	7	6.4
FLUN040	40	102	60	10	42	82	36	ø14	6.6	11	9	6.4
FLUN050	50	110	68	12	50	90	45	ø18	9	15	9	8.6
FLUN063	63	130	87	15	62	110	50	ø18	11	15	9	8.6
FLUN080	80	160	107	15	82	135	63	ø23	11	18	12	10.6
FLUN100	100	190	128	15	103	163	75	ø28	11	18	14	10.6

PIEDINO



sigla* part number*	per alesaggio for bore	A	B	C	D	E	F	G	H	J	K	L	M	U
PBUN032	32	6.6	20	26	5	18	16	6.6	24	12	32	32	50	2
PBUN040	40	9	-	28	5	20	21.5	6.6	29.5	-	42	42	60	5
PBUN050	50	9	-	32	6	24	22	9	30	-	50	50	68	5
PBUN063	63	11	-	39	6	27	28.5	11	39	-	62	62	84	5
PBUN080	80	11	-	42	8	30	24.5	11	36.5	-	82	82	102	5
PBUN100	100	13.5	-	45	8	33	26.5	11	38.5	-	103	103	123	5

* La sigla si riferisce a un solo piedino e non alla coppia

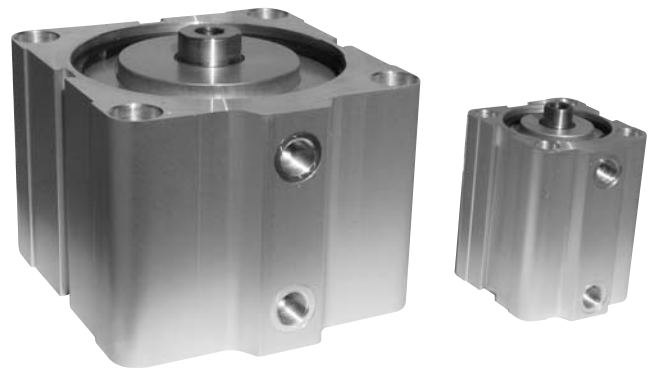
* The part number is referred to only one element and not to the couple

cilindri corsa breve

short stroke cylinders



- **Dimensioni di ingombro ridotte**
Reduced external dimensions
- **Grande affidabilità e lunga durata**
High reliability and long life time
- **Versione magnetica standard**
Standard magnetic version
- **Esecuzioni e corse speciali a richiesta**
Special versions and strokes on request



Materiali

Camicia: alluminio

Stelo: C45 cromato o INOX AISI 304

Testate: alluminio con boccola guida stelo

Pistone: alluminio

Guarnizioni: NBR o VITON

Guarnizione stelo: poliuretano o VITON

Magnete: neodimio fino all'alesaggio 25
plastroferrite dall'alesaggio 32 al 100

Materials

Barrel: aluminium

Piston-rod: C45 (chromium plated) or stainless steel

End-cups: aluminium with rod guide

Piston: aluminium

Sealings: NBR or VITON

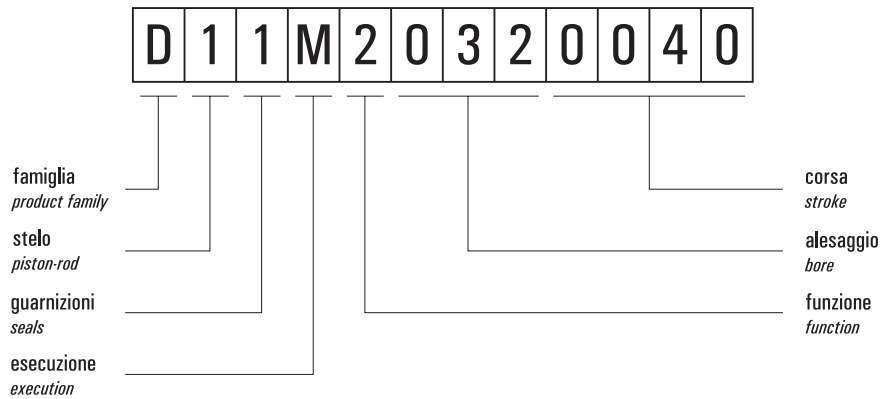
Piston-rod sealing: polyurethane or VITON

Magnet: neodymium from bore 16 to 25
magnetic iron compound from bore 32 to 100

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	NBR: max +60°C VITON: max +110°C
Alesaggi <i>Bores</i>	16; 20; 25; 32; 40; 50; 63; 80; 100 mm
Corse <i>Strokes</i>	5 ... 100 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air

chiave di codifica

key to codes



Famiglia *[product family]*

D cilindri corsa breve *[short stroke cylinders]*

Stelo *[piston-rod]*

1 C45 cromato *[C45 chromium plated]*

2 INOX *[stainless steel]*

Guarnizioni *[seals]*

1 NBR

2 tutte le guarnizioni in VITON
[all seals in VITON]

3 guarnizioni dello stelo in VITON *[rod seals in VITON]*

Esecuzione *[execution]*

M magnetico *[magnetic]*

Funzione *[function]*

1 semplice effetto non ammortizzato molla anteriore
[single acting front spring without pneumatic cushioning]

2 doppio effetto non ammortizzato
[double acting without pneumatic cushioning]

3 semplice effetto non ammortizzato molla posteriore
[single acting back spring without pneumatic cushioning]

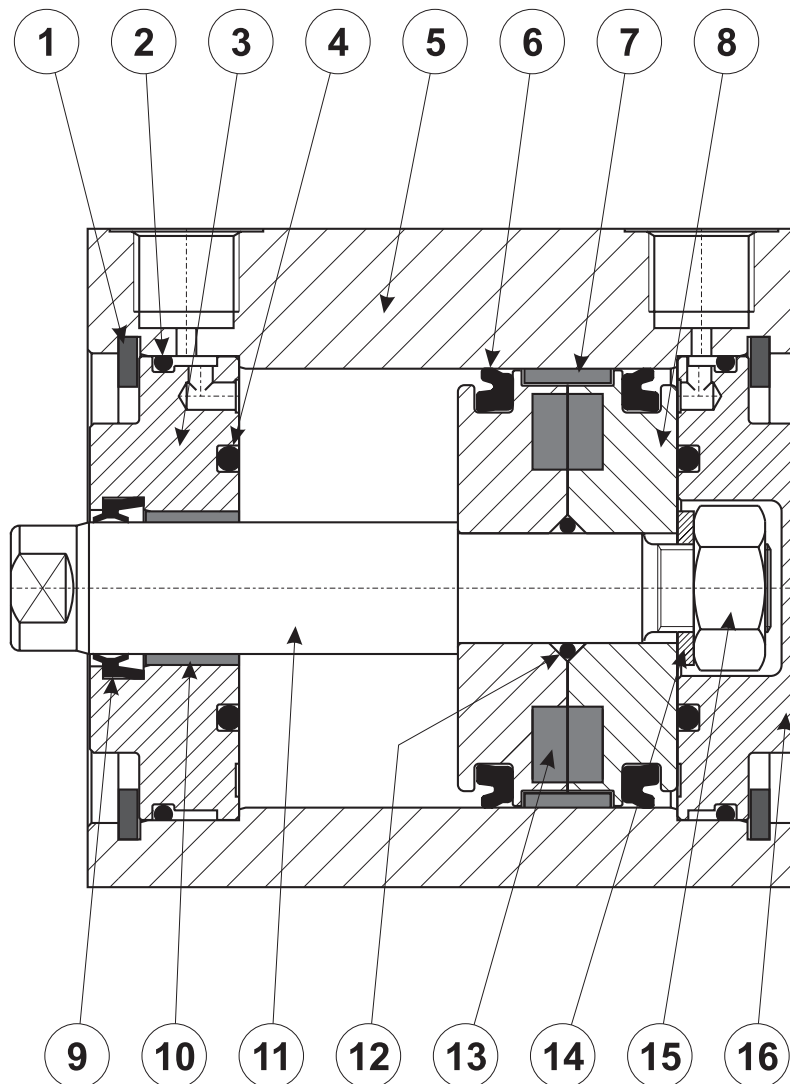
4 doppio effetto non ammortizzato stelo passante
[double acting without pneumatic cushioning, with passing-through rod]

cilindri corsa breve

short stroke cylinders



disegno valido dall'alesaggio 32 all'alesaggio 100
the drawing is valid from bore 32 to bore 100



1. Anello SEEGER per fissaggio testata
2. O-Ring per tenuta testata: NBR o VITON
3. Testata anteriore: alluminio
4. O-Ring paracolpi: NBR o VITON
5. Camicia: alluminio profilato, calibrato e anodizzato
6. Guarnizione a labbro per pistone: NBR o VITON
7. Anello guida per pistone: bronzo PTFE
8. Pistone: alluminio
9. Guarnizione stelo: POLIURETANO o VITON
10. Boccola guida: materiale autolubrificante
11. Stelo: acciaio C45 cromato o INOX AISI 304
12. O-Ring per tenuta pistone: NBR o VITON
13. Magnete: plastoferrite
14. Rondella piana
15. Dado per bloccaggio stelo
16. Testata posteriore: alluminio

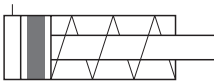
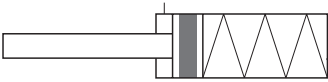
cilindri corsa breve

short stroke cylinders



versioni disponibili

available versions

semplice effetto molla anteriore <i>single acting front spring</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio		16	20	25	32	40	50	63	80	100	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>			
	corsa	bore											stroke		
	5					X	X	X	X	X	X		materiale stelo (piston-rod material) C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	
	10					X	X	X	X	X	X				materiale guarnizioni (seals material) NBR
	25					X	X	X	X	X	X		C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	
	30							X	X	X	X				materiale guarnizioni (seals material) NBR
	40												C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	
	50														materiale guarnizioni (seals material) NBR
	75												C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	
	100														materiale guarnizioni (seals material) NBR
semplice eff. molla posteriore <i>single acting back spring</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio		16	20	25	32	40	50	63	80	100	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>			
corsa	bore	stroke													
	5					X	X	X	X	X	X		materiale stelo (piston-rod material) C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	
	10					X	X	X	X	X	X				materiale guarnizioni (seals material) NBR
	25					X	X	X	X	X	X		C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	
	30							X	X	X	X				materiale guarnizioni (seals material) NBR
	40												C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	
	50														materiale guarnizioni (seals material) NBR
	75												C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	
	100														materiale guarnizioni (seals material) NBR

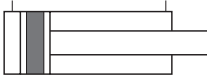
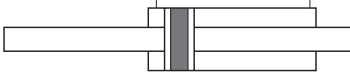
cilindri corsa breve

short stroke cylinders



versioni disponibili

available versions

doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i>	alesaggio		16	20	25	32	40	50	63	80	100	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>						
	corsa	bore											stroke					
	5	X	X	X	X	X	X	X	X	X	X		materiale stelo (piston-rod material) <table border="1"> <tr> <td>C45 cromato <i>C45 chromium plated</i></td> <td>INOX <i>stainless steel</i></td> </tr> </table> materiale guarnizioni (seals material) <table border="1"> <tr> <td>NBR</td> <td>tutte in VITON <i>all seals in VITON</i></td> <td>guarnizioni stelo in VITON <i>rod seals in VITON</i></td> </tr> </table>	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>
	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>																
	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>															
	10	X	X	X	X	X	X	X	X	X	X							
	25	X	X	X	X	X	X	X	X	X	X							
	30	X	X	X	X	X	X	X	X	X	X							
	40	X	X	X	X	X	X	X	X	X	X							
	50		X	X	X	X	X	X	X	X	X							
	75								X	X	X							
100									X	X								
doppio effetto <i>double acting</i> magnetico <i>magnetic</i> non ammortizzato <i>without pneumatic cushioning</i> stelo passante <i>passing-through rod</i>	alesaggio		16	20	25	32	40	50	63	80	100	OPZIONI <i>options</i> Lo standard è evidenziato in grigio <i>The standard is marked with grey background</i>						
	corsa	bore											stroke					
	5	X	X	X	X	X	X	X	X	X	X		materiale stelo (piston-rod material) <table border="1"> <tr> <td>C45 cromato <i>C45 chromium plated</i></td> <td>INOX <i>stainless steel</i></td> </tr> </table> materiale guarnizioni (seals material) <table border="1"> <tr> <td>NBR</td> <td>tutte in VITON <i>all seals in VITON</i></td> <td>guarnizioni stelo in VITON <i>rod seals in VITON</i></td> </tr> </table>	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>
	C45 cromato <i>C45 chromium plated</i>	INOX <i>stainless steel</i>																
	NBR	tutte in VITON <i>all seals in VITON</i>	guarnizioni stelo in VITON <i>rod seals in VITON</i>															
	10	X	X	X	X	X	X	X	X	X	X							
	25	X	X	X	X	X	X	X	X	X	X							
	30	X	X	X	X	X	X	X	X	X	X							
	40	X	X	X	X	X	X	X	X	X	X							
	50		X	X	X	X	X	X	X	X	X							
	75								X	X	X							
100									X	X								

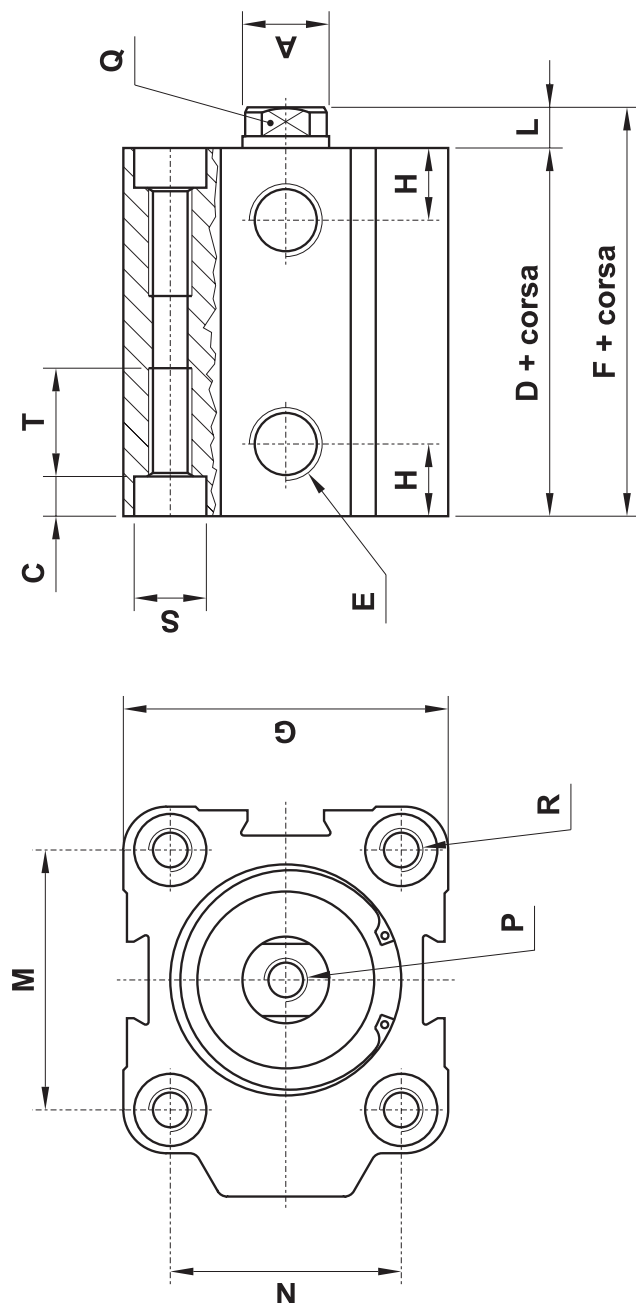
cilindri corsa breve

short stroke cylinders



VERSIONE NORMALE - alesaggio 16, 20, 25

Normal version - bore 16, 20, 25



Ø	A	C	D	E	F	G	H	L	M	N	P	Q	R	S	T
16	ø8	3.5	36	M5	41.5	28	8	5.5	20	20	M5	CH 7	M4	ø6	10
20	ø10	4.5	36	M5	41.5	32	8.5	5.5	22	22	M5	CH 8	M5	ø7	12
25	ø10	4.5	38	G1/8"	43.5	38	9	5.5	28	26	M5	CH 8	M5	ø7	12

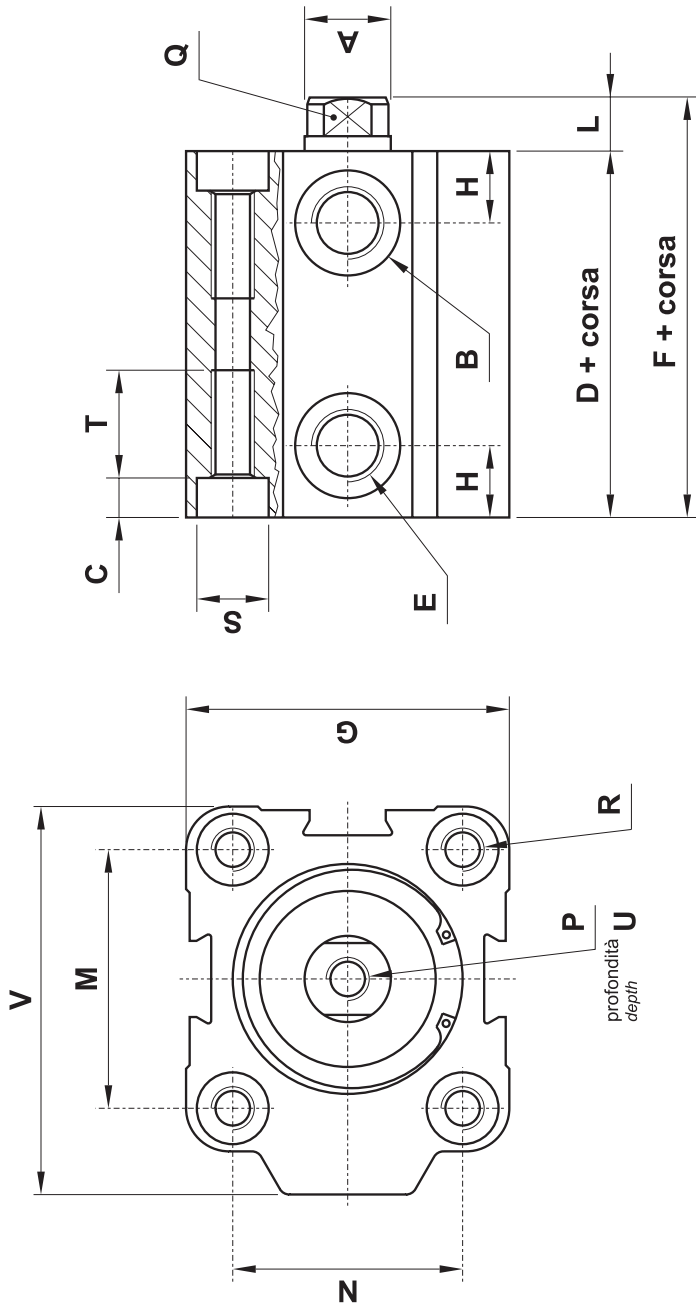
cilindri corsa breve

short stroke cylinders



VERSIONE NORMALE - alesaggio 32, 40, 50, 63, 80, 100

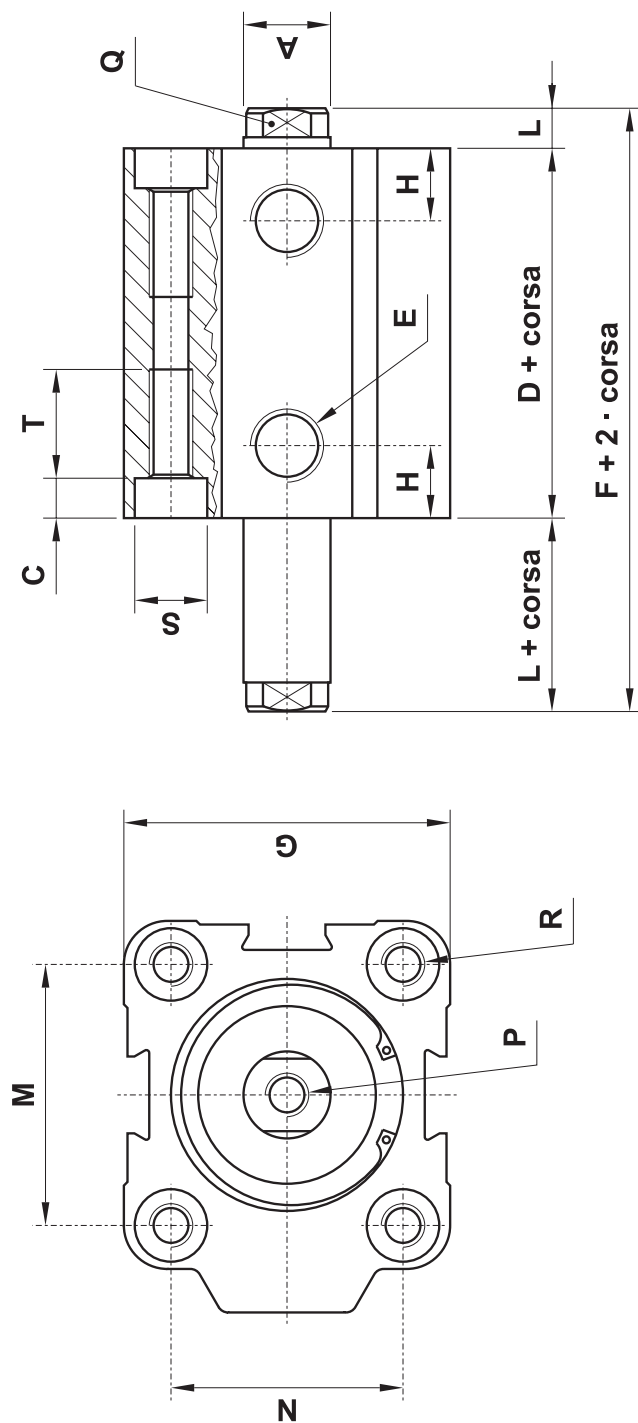
Normal version - bore 32, 40, 50, 63, 80, 100



Ø	A	B	C	D	E	F	G	H	L	M	N	P	Q	R	S	T	U	V
32	Ø12	Ø14	5.5	46.2	G1/8"	53.2	45	9	7	36	32	M8	CH 10	M6	Ø9	15	13.5	54
40	Ø12	Ø14	5.5	46.2	G1/8"	53.2	54.5	10	7	40	40	M8	CH 10	M6	Ø9	15	13.5	60
50	Ø16	Ø14	6.5	50	G1/8"	58	65	11.5	8	50	50	M10	CH 13	M8	Ø11	20	16	72.5
63	Ø16	Ø14	8.5	53	G1/8"	61	80	11.5	8	62	62	M10	CH 13	M10	Ø14	20	16	88
80	Ø20	Ø19	8.5	56.4	G1/4"	66.2	100	13.8	9.8	82	82	M10	CH 17	M10	Ø14	22.5	20	110
100	Ø25	Ø19	11	67	G1/4"	76.8	124	17	9.8	103	103	M12	CH 22	M12	Ø17	24	24	134

VERSIONE CON STELO PASSANTE - alesaggio 16, 20, 25

Version with passing-through rod - bore 16, 20, 25



Ø	A	C	D	E	F	G	H	L	M	N	P	Q	R	S	T
16	ø8	3.5	36	M5	47	28	8	5.5	20	20	M5	CH 7	M4	ø6	10
20	ø10	4.5	36	M5	47	32	8.5	5.5	22	22	M5	CH 8	M5	ø7	12
25	ø10	4.5	38	G1/8"	49	38	9	5.5	28	26	M5	CH 8	M5	ø7	12

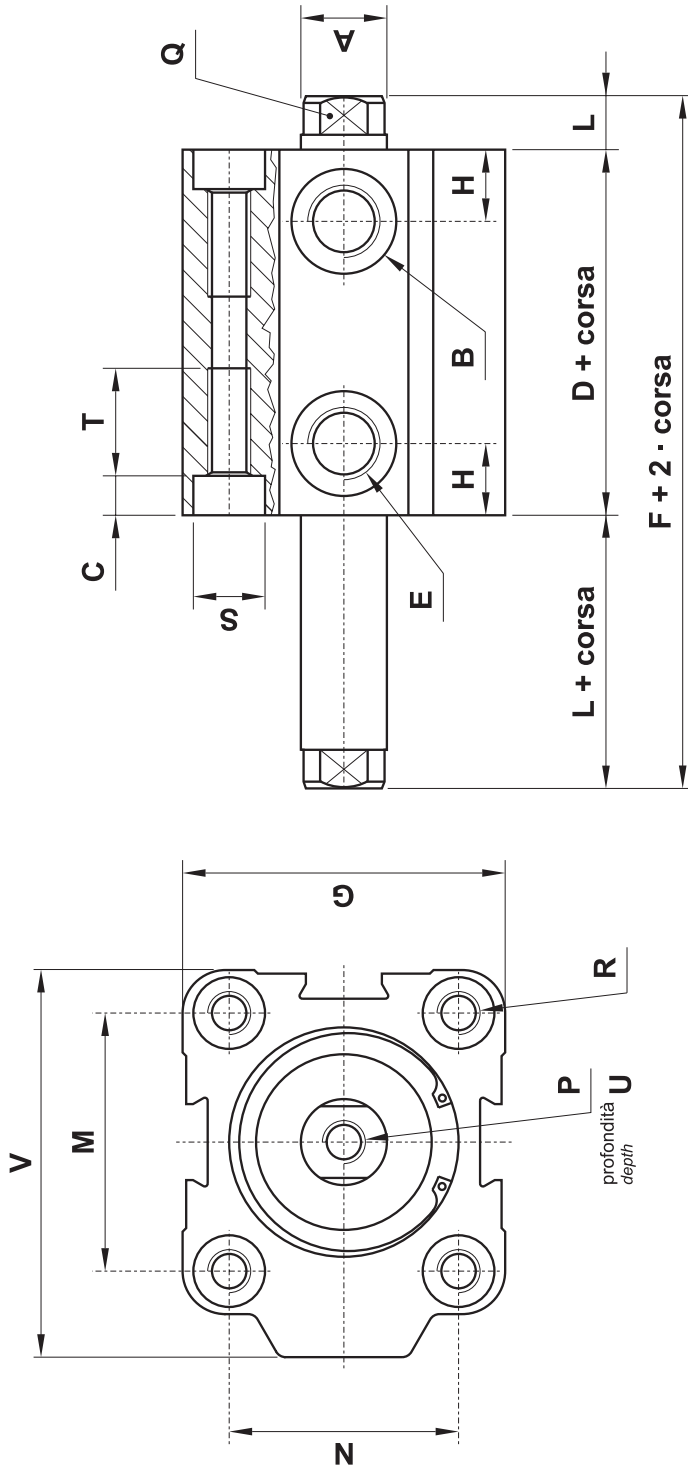
cilindri corsa breve

short stroke cylinders



VERSIONE CON STELO PASSANTE - alesaggio 32, 40, 50, 63, 80, 100

Version with passing-through rod - bore 32, 40, 50, 63, 80, 100



Ø	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
32	Ø12	Ø14	5.5	46.2	G1/8"	60.2	45	9	7	36	32	7	36	32	CH 10	M8	CH 10	M6	Ø9	15	13.5	54
40	Ø12	Ø14	5.5	46.2	G1/8"	60.2	54.5	10	7	40	40	7	40	40	CH 10	M8	CH 10	M6	Ø9	15	13.5	60
50	Ø16	Ø14	6.5	50	G1/8"	66	65	11.5	8	50	50	8	50	50	CH 13	M10	CH 13	M8	Ø11	20	16	72.5
63	Ø16	Ø14	8.5	53	G1/8"	69	80	11.5	8	62	62	8	62	62	CH 13	M10	CH 13	M10	Ø14	20	16	88
80	Ø20	Ø19	8.5	56.4	G1/4"	76	100	13.8	9.8	82	82	9.8	82	82	CH 17	M10	CH 17	M10	Ø14	22.5	20	110
100	Ø25	Ø19	11	67	G1/4"	86.6	124	17	9.8	103	103	9.8	103	103	CH 22	M12	CH 22	M12	Ø17	24	24	134



kit guarnizioni di ricambio

seals kit

MAGNETICO, guarnizioni standard					
normale			stelo passante [passing-through rod]		
per alesaggio for bore	sigla part number	codice code	per alesaggio for bore	sigla part number	codice code
16	GD016	22.100.2	16	GD016P	22.110.2
20	GD020	22.101.2	20	GD020P	22.111.2
25	GD025	22.102.2	25	GD025P	22.112.2
32	GD032	22.103.2	32	GD032P	22.113.2
40	GD040	22.104.2	40	GD040P	22.114.2
50	GD050	22.105.2	50	GD050P	22.115.2
63	GD063	22.106.2	63	GD063P	22.116.2
80	GD080	22.107.2	80	GD080P	22.117.2
100	GD100	22.108.2	100	GD100P	22.118.2
MAGNETICO, guarnizioni VITON					
normale			stelo passante [passing-through rod]		
per alesaggio for bore	sigla part number	codice code	per alesaggio for bore	sigla part number	codice code
16	GD016V	22.120.2	16	GD016PV	22.130.2
20	GD020V	22.121.2	20	GD020PV	22.131.2
25	GD025V	22.122.2	25	GD025PV	22.132.2
32	GD032V	22.123.2	32	GD032PV	22.133.2
40	GD040V	22.124.2	40	GD040PV	22.134.2
50	GD050V	22.125.2	50	GD050PV	22.135.2
63	GD063V	22.126.2	63	GD063PV	22.136.2
80	GD080V	22.127.2	80	GD080PV	22.137.2
100	GD100V	22.128.2	100	GD100PV	22.138.2

4

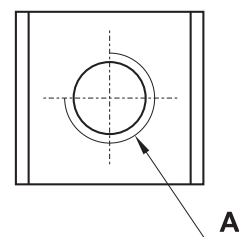
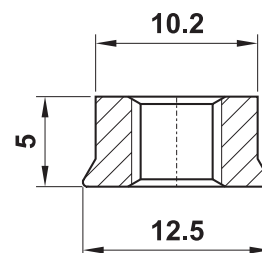
dado per fissaggio in cava

fixing nut

Permette di fissare un cilindro a parete o di fissare sul cilindro le interfacce per valvole, di cui alle pagine 127 e 171. È utilizzabile anche per i cilindri ISO 6431 fino al $\varnothing 125$ e per i cilindri compatti.

It can be used to fix a cylinder on the side or to mount on the cylinder an interface for valves (see page 127 and 171). It can be used also for ISO 6431 cylinders (up to bore 125) and for compact cylinders.

sigla part number	codice order code	A
DCCB 16/32	26.156.0T	M5
DCCB 32/100	26.157.0T	M6

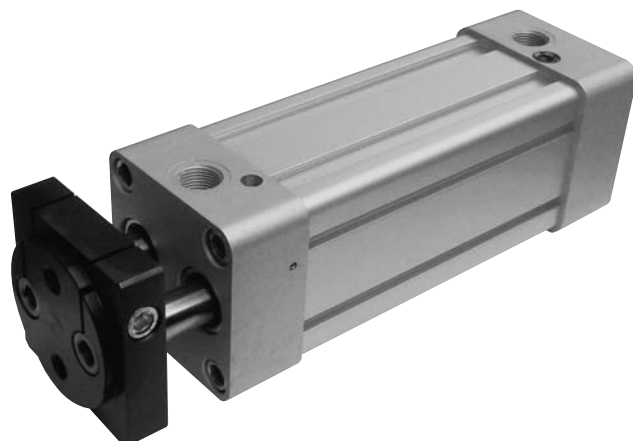


cilindri ad asta gemellata

twin rod cylinders



- Grande affidabilità e lunga durata
High reliability and long life time
- Versione magnetica standard
Standard magnetic version
- Ammortizzo pneumatico standard su tutta la gamma
Pneumatic cushioning standard on the whole range
- Esecuzioni e corse speciali a richiesta
Special versions and strokes on request



Materiali

Camicia: alluminio

Steli: C45 cromato

Testate: alluminio

Pistone: alluminio

Guarnizioni: NBR

Flangia: acciaio brunito

Boccole guida stelo: bronzo sinterizzato

Guida pistone: PTFE a basso attrito

Materials

Barrel: aluminium

Piston-rods: C45 (chromium plated)

End-cups: aluminium

Piston: aluminium

Sealings: NBR

Flange: burnished steel

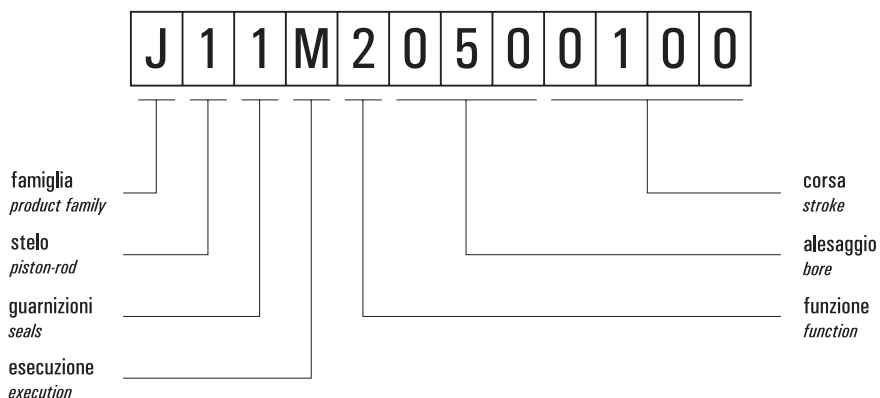
Rod guides: sintered bronze

Piston guide: low friction PTFE

Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Alesaggi <i>Bores</i>	32; 40; 50; 63; 80; 100 mm
Corse <i>Strokes</i>	25; 50; 80; 100; 125; 150; 160; 200; 250; 300; 320; 400; 500 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

chiave di codifica

key to codes



Famiglia *[product family]*

J cilindri ad asta gemellata
[twin rod cylinders]

Steli *[piston-rods]*

1 C45 cromato *[C45 chromium plated]*

Guarnizioni *[seals]*

1 NBR

Esecuzione *[execution]*

M magnetico *[magnetic]*

Funzione *[function]*

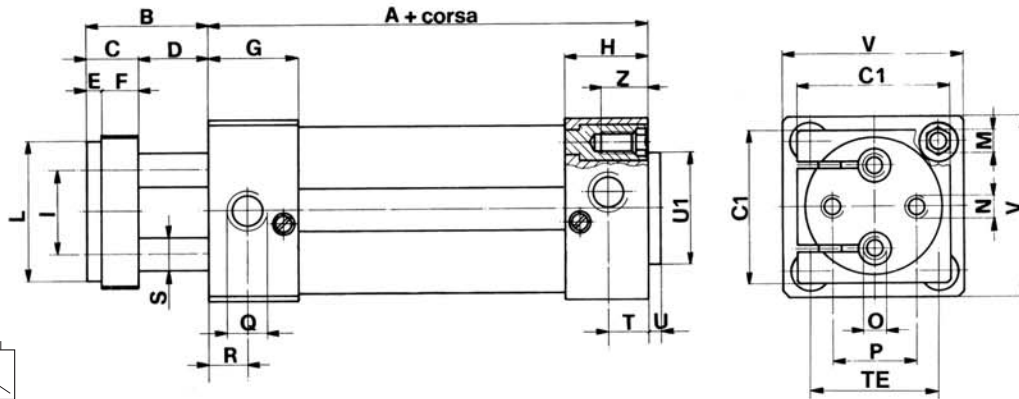
- 2** doppio effetto ammortizzato
[double acting with pneumatic cushioning]
- 4** doppio effetto ammortizzato stelo passante ISO
[double acting with pneumatic cushioning, with ISO passing-through rod]
- 9** doppio effetto ammortizzato asta gemellata passante
[double acting with pneumatic cushioning, with twin passing-through rod]

cilindri ad asta gemellata

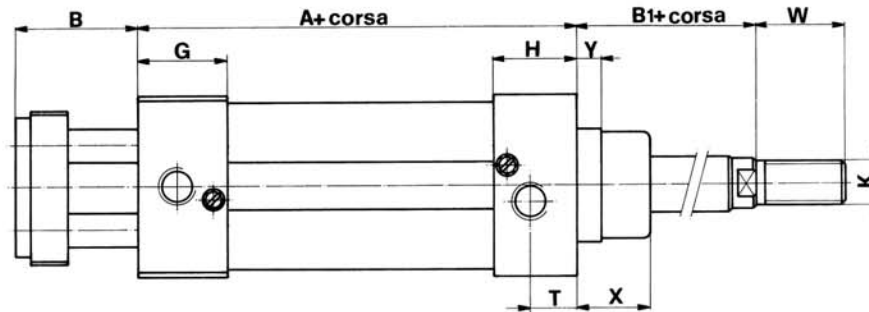
twin rod cylinders



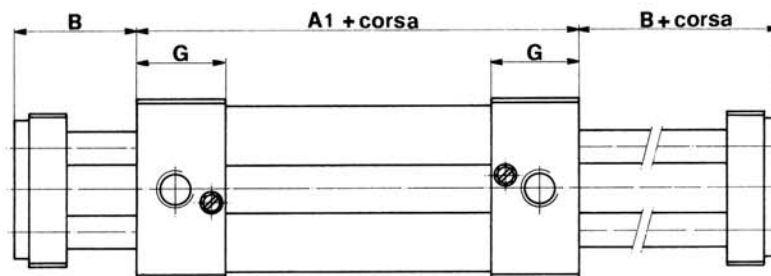
J11M2



J11M4



J11M9



Ø	A	A1	B	B1	C	C1	D	E	F	G	H	I	L	M	N	O	P	Q
32	100	111	40	26	15	45	25	4	11	30	24,5	18	32	M6	M6	-	19	G1/8
40	101	104	40	30	15	50	25	4	11	26,5	27,5	22	40	M6	M8	-	22	G1/4
50	108,5	113	43	37	18	55	25	5	13	32	31	30	50	M8	M8	M8	30	G1/4
63	119	125	47	37	22	70	25	5	17	34	35,5	38	63	M8	M10	M10	38	G3/8
80	134	135	50	46	25	90	25	5	20	38	40	48	80	M10	M12	M12	50	G3/8
100	144	142	50	51	25	110	25	5	20	36	43	60	100	M10	M12	M12	70	G1/2
Ø	R	S	T	TE	U	U1	V	Z	W	Y	X	K						
32	13	10	14	32,5	4	30	45	18	22	6	20	M10X1,25						
40	11,5	10	17	38	4	35	52	18	24	6	22	M12X1,25						
50	14	12	18	46,5	4	40	65	23	32	8	26	M16X1,5						
63	14	16	17,5	56,5	4	45	75	23	32	8	26	M16X1,5						
80	15	22	20,5	72	4	45	95	30	40	10	40	M20X1,5						
100	15	22	18	89	4	55	115	30	40	10	40	M20X1,5						

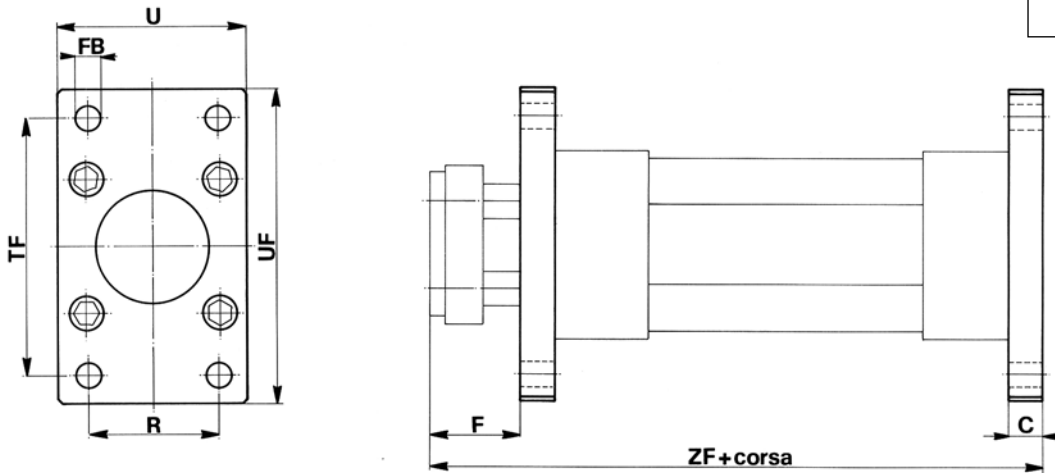
cilindri ad asta gemellata

twin rod cylinders



FLANGIA

FLIS...



ø	DIM.	C	F	R	U	FB	TF	UF	ZF
32		10	30	32	45	7	64	80	150
40		10	30	36	52	9	72	90	151
50		12	31	45	65	9	90	110	163,5
63		12	35	50	75	9	100	120	178
80		16	34	63	95	12	126	150	200
100		16	34	75	115	14	150	170	210

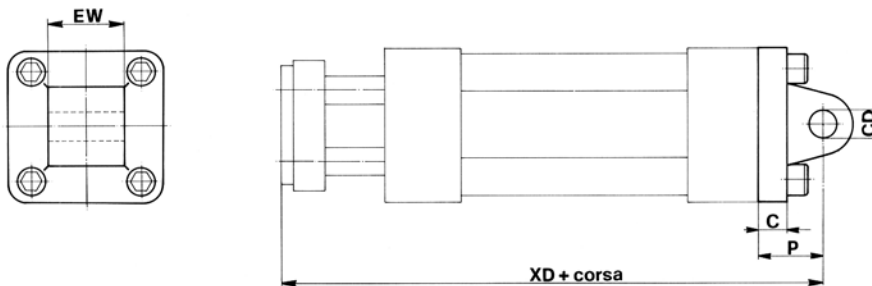
La flangia ISO standard si può montare sulla testata posteriore di tutti gli alesaggi. Sulla testata anteriore si può montare solo sugli alesaggi 32 e 40. Per gli altri alesaggi contattare l'ufficio commerciale.

The standard ISO flange can be mounted on the back end-cup for all bores. On the front end-cup it can be mounted only for bore 32 and 40. For other bores please contact our commercial office.

CERNIERA MASCHIO

CMIS...

CMKS...



ø	DIM.	C	CD	P	EW	XD
32		9	10	22	26	162
40		9	12	25	28	166
50		11	12	27	32	178,5
63		11	16	32	40	198
80		14	16	36	50	220
100		14	20	41	60	235

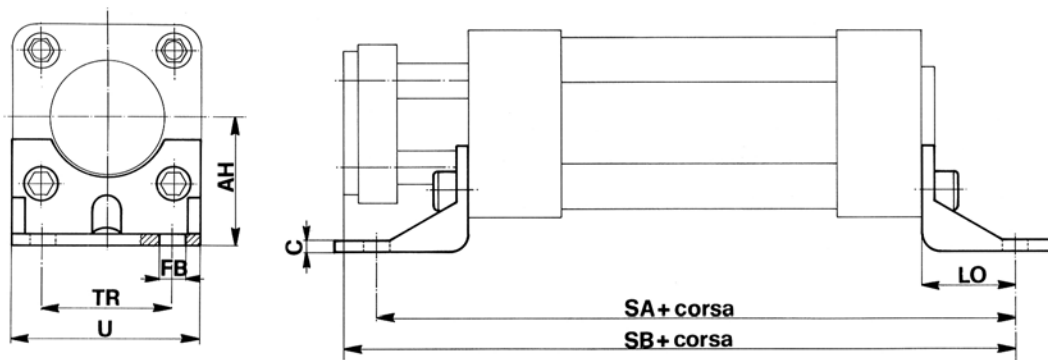
cilindri ad asta gemellata

twin rod cylinders



PIEDINO

PBIS...

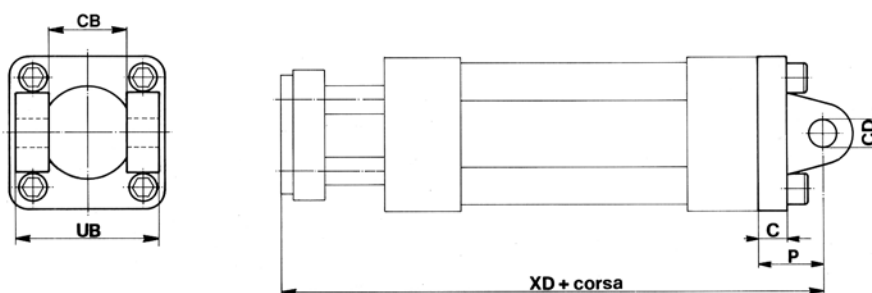


ø	DIM.	C	AH	FB	LO	SA	SB	TR	U
32		4	32	7	24	148	164	32	45
40		4	36	9	28	157	169	36	52
50		5	45	9	32	172,5	183,5	45	65
63		5	50	9	32	183	198	50	75
80		6	63	12	41	216	225	63	95
100		6	71	14	41	226	235	75	115

CERNIERA FEMMINA CON PERNO

CFIS...

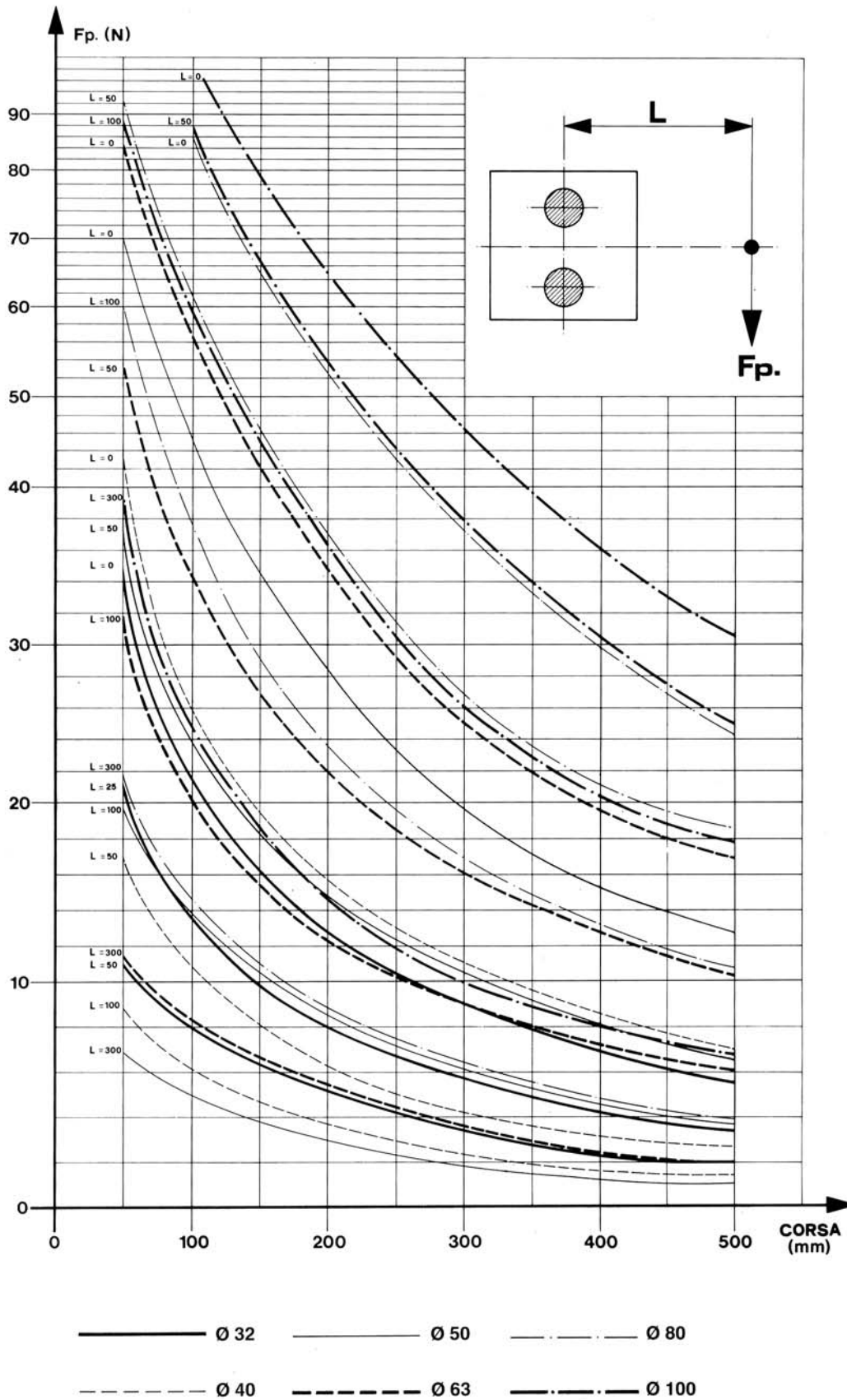
CFKS...



ø	DIM.	C	CD	P	CB	UB	XD
32		9	10	22	26	45	162
40		9	12	25	28	52	166
50		11	12	27	32	60	178,5
63		11	16	32	40	70	198
80		14	16	36	50	90	220
100		14	20	41	60	110	235

momenti flettenti

bending moments



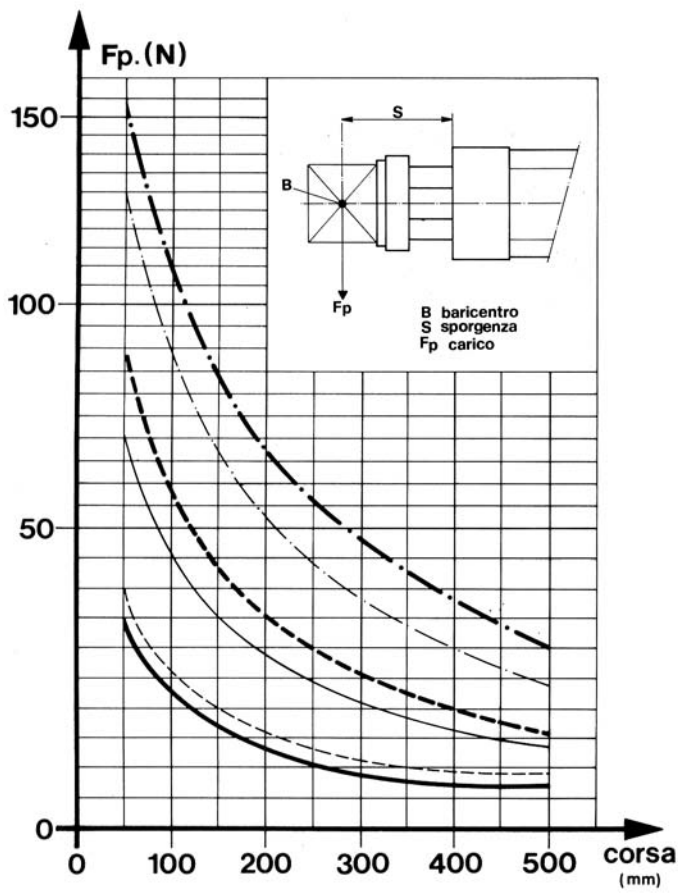
cilindri ad asta gemellata

twin rod cylinders



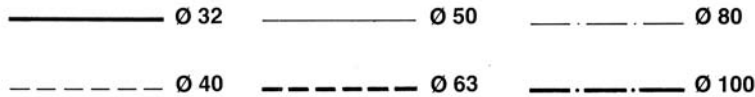
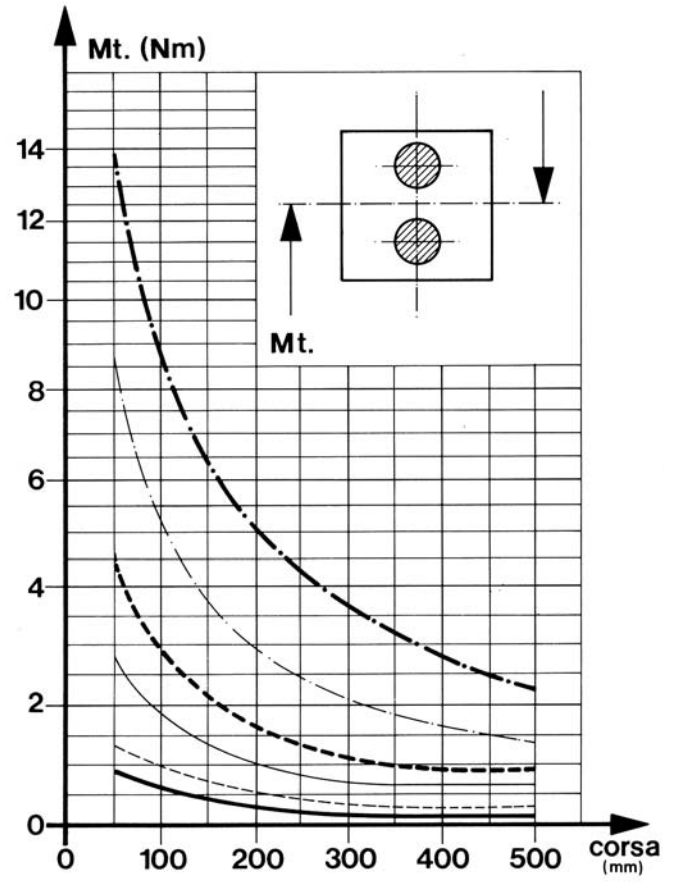
carichi a flessione

flexion loads



momenti torcenti

twisting moments



4

bloccastelo

rod blocking device



Il bloccastelo è un dispositivo meccanico da applicare ai cilindri ISO 6431 (alesaggi da 32 a 125) e ai microcilindri ISO 6432 (alesaggi da 12 a 25).

È costituito da un sistema di due ganasce contrapposte che, sotto l'azione di molle opportunamente dimensionate, si oppongono allo scorrimento dello stelo del cilindro. Inviando un comando pneumatico l'azione delle molle viene neutralizzata e il cilindro si sblocca.

Pertanto è possibile posizionare il cilindro in punti intermedi della corsa o bloccarlo in caso di cadute di pressione.

The rod blocking device can be used with cylinders ISO 6431 (bores from 32 to 125) and with minicylinders ISO 6432 (bores from 12 to 25).

The device is normally locked. It is unlocked by applying a pneumatic signal. Therefore it is possible to block the cylinder in case of pressure drop or to stop the movement in intermediate positions.



Materiali

Corpo: alluminio anodizzato

Ganasce di bloccaggio: ottone

Pistoni: resina acetica

Molle: acciaio armonico

Materials

Body: aluminium (anodize treatment)

Internal parts: brass

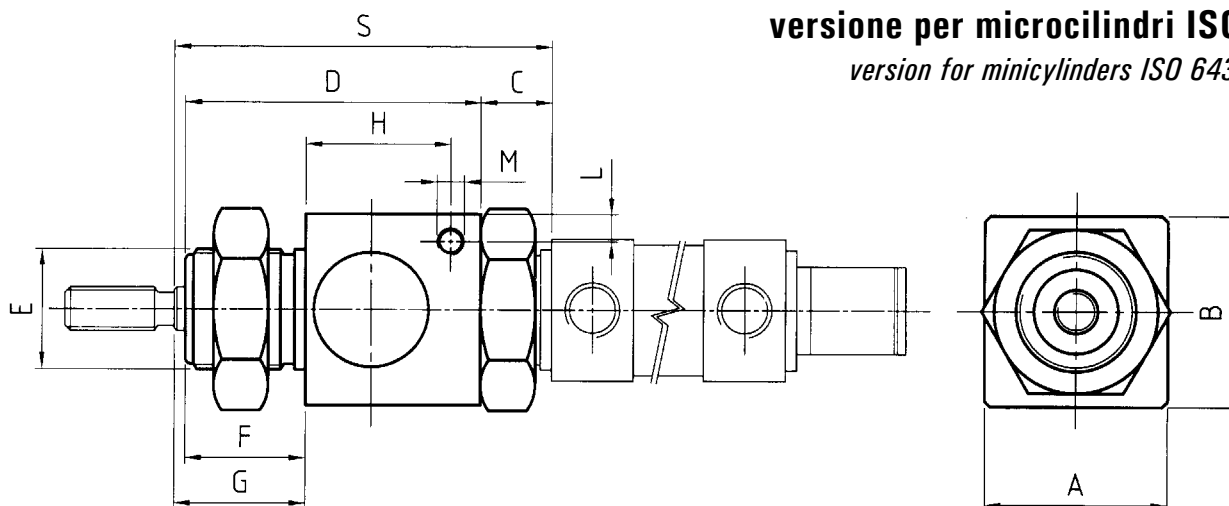
Pistons: polymer

Springs: steel

Pressione minima di pilotaggio <i>Minimum actuating pressure</i>	3 bar 0.3 MPa											
Temperatura di esercizio <i>Temperature range</i>	max +60°C											
Funzionamento <i>Construction type</i>	Meccanico bidirezionale <i>Mechanical bi-directional</i>											
Tipologia <i>Function</i>	NC (sblocco a comando pneumatico) <i>NC (pneumatic piloted unlock)</i>											
Forza di bloccaggio <i>Locking force</i>	∅	12	16	20	25	32	40	50	63	80	100	125
	forza (N) <i>force (N)</i>	200	200	490	490	790	1240	1930	3060	5400	7700	12040
Fluido <i>Fluid</i>	Aria filtrata 50μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>											

versione per microcilindri ISO 6432

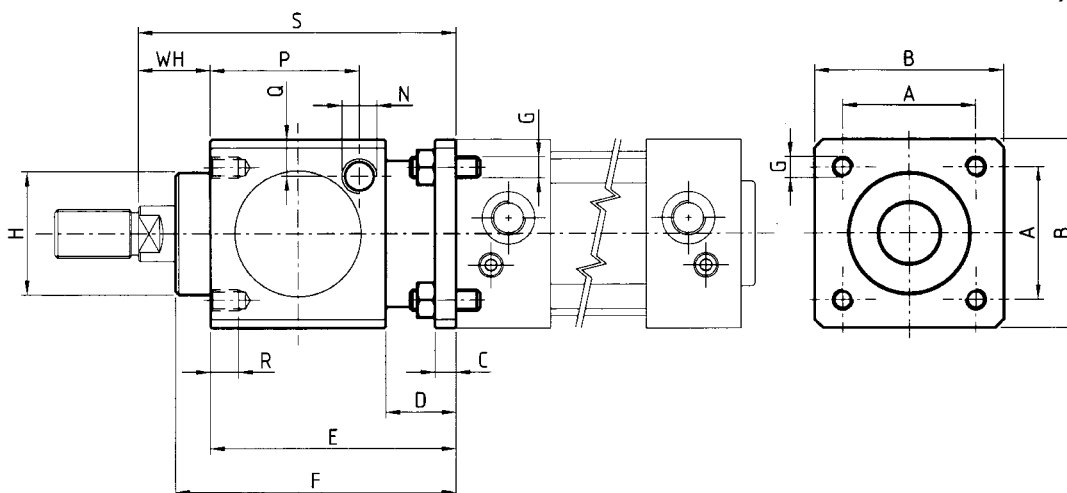
version for minicylinders ISO 6432



modello model	per alesaggi for bores	A	B	C	D	E	F	G	H	L	M
BM012	12-16	30	29.5	10.5	44.5	M16x1.5	17	22	24.5	4	M5
BM020	20	35	33.5	13	54	M22x1.5	22	24	26.5	4.5	M5
BM025	25	35	33.5	13	54	M22x1.5	22	28	26.5	4.5	M5

versione per cilindri ISO 6431

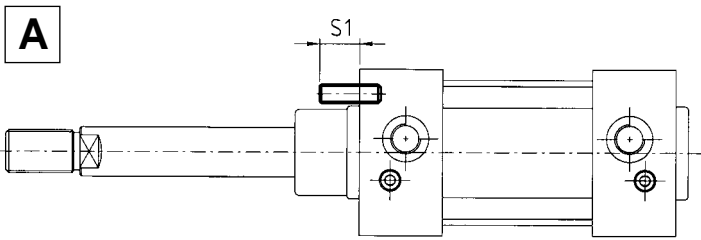
version for cylinders ISO 6431



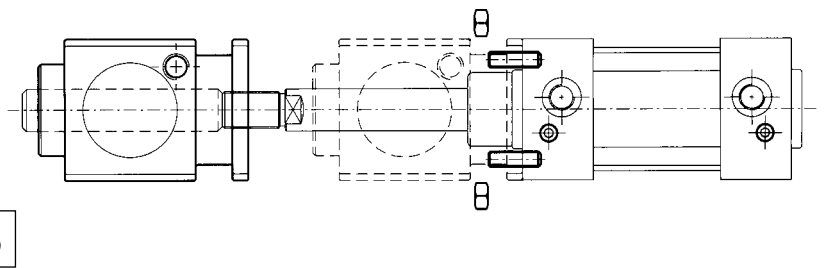
modello model	per alesaggi for bores	A	B	C	D	E	F	G	H	WH	N	P	Q	R	S
BM032	32	32.5	47	6	22.5	60	67.5	M6	30	26	G1/8"	33.5	9.5	8	86
BM040	40	38	54	6	20	70	80	M6	35	30	G1/8"	42.5	10.5	8	100
BM050	50	46.5	65	8	24	90	100	M8	40	32	G1/8"	58	12.5	12	122
BM063	63	56.5	75	8	24	90	100	M8	45	37	G1/8"	59	17.5	12	127
BM080	80	72	95	12	32	110	120	M10	45	46	G1/4"	69	17.5	16	156
BM100	100	89	114	12	32	110	120	M10	55	51	G1/4"	69	27	16	161
BM125	125	110	140	20	45	140	156	M12	60	65	G1/4"	84.5	20	20	205

schema di montaggio

instructions for installation



CILINDRO Ø	32	40	50	63	80	100	125
S1	12	12	16	16	22	22	32

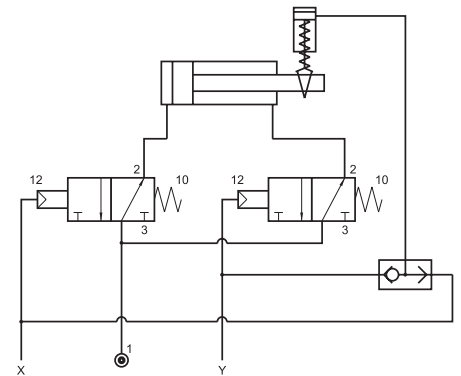
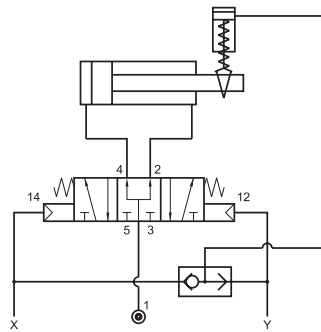


schema di collegamento

connection scheme

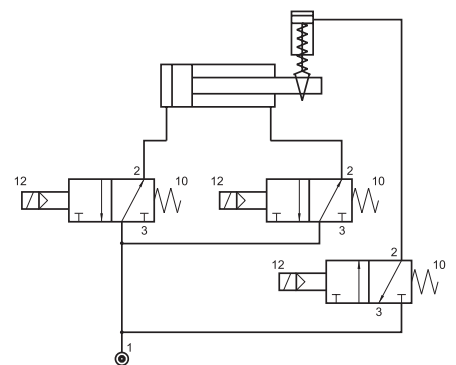
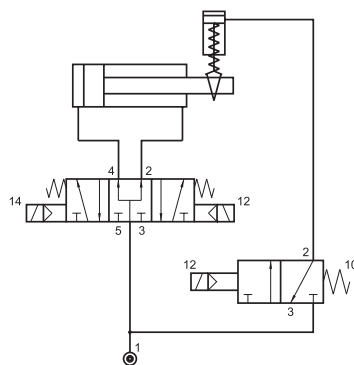
comando pneumatico

pneumatic control



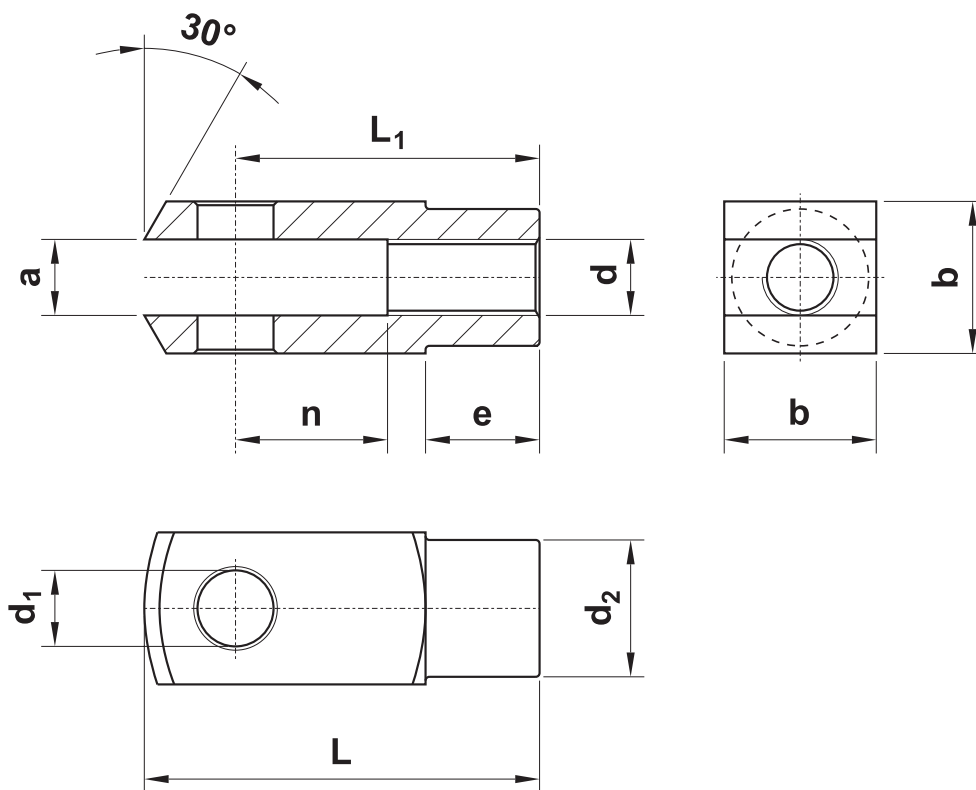
comando elettropneumatico

electropneumatic control



FORCELLE

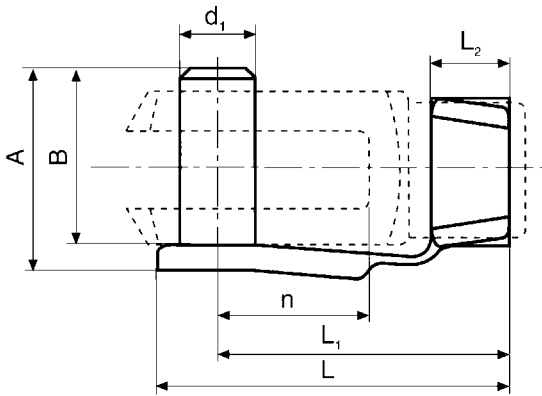
forks



modello model	per alesaggi for bores	d	a	b	d ₁	d ₂	e	L	L ₁	n	fornita con it is supplied with
FR8C10	8-10	M4x0.7	4	8	ø4	ø8	6	21	16	8	clip
FR12C16	12-16	M6x1	6	12	ø6	ø10	9	31	24	12	clip
FRC20	20	M8x1.25	8	16	ø8	ø14	12	42	32	16	clip
FR25C32	25-32	M10x1.25	10	20	ø10	ø18	15	52	40	20	clip
FRC40	40	M12x1.25	12	24	ø12	ø20	18	62	48	24	clip
FR50C63	50-63	M16x1.5	16	32	ø16	ø26	24	83	64	32	clip
FR80C100	80-100	M20x1.5	20	40	ø20	ø34	30	105	80	40	clip
FRC125	125	M27x2	30	55	ø30	ø48	38	148	110	54	perno [pin]
FR160C200	160-200	M36x2	35	70	ø35	ø60	40	188	144	72	perno [pin]

CLIPS PER FORCELLE

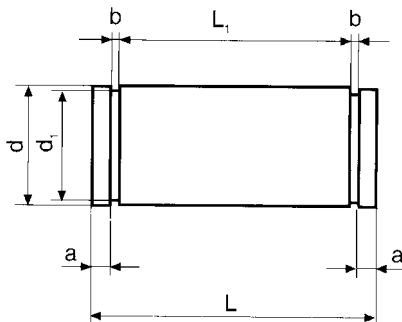
clips for forks



usata per forcella <i>it is used for fork</i>	d ₁	n	A	B	L	L ₁	L ₂
M4x0.7	4	8	11	9	19	15	5
M6x1	6	12	16	14	28	23	6
M8x1.25	8	16	22	19	37	31	8
M10x1.25	10	20	26	23	46	39	10
M12x1.25	12	24	32	28	55	47	12
M16x1.5	16	32	40	36	72	62	14
M20x1.5	20	40	48	44	88	72	16

PERNI PER FORCELLE

pins for forks



usato per forcella <i>it is used for fork</i>	d	L	d ₁	L ₁	a	b
M27x2	30	65	28.6	55	3.4	1.6
M36x2	35	84	33.4	70	5.4	1.6

DADI PER STELO

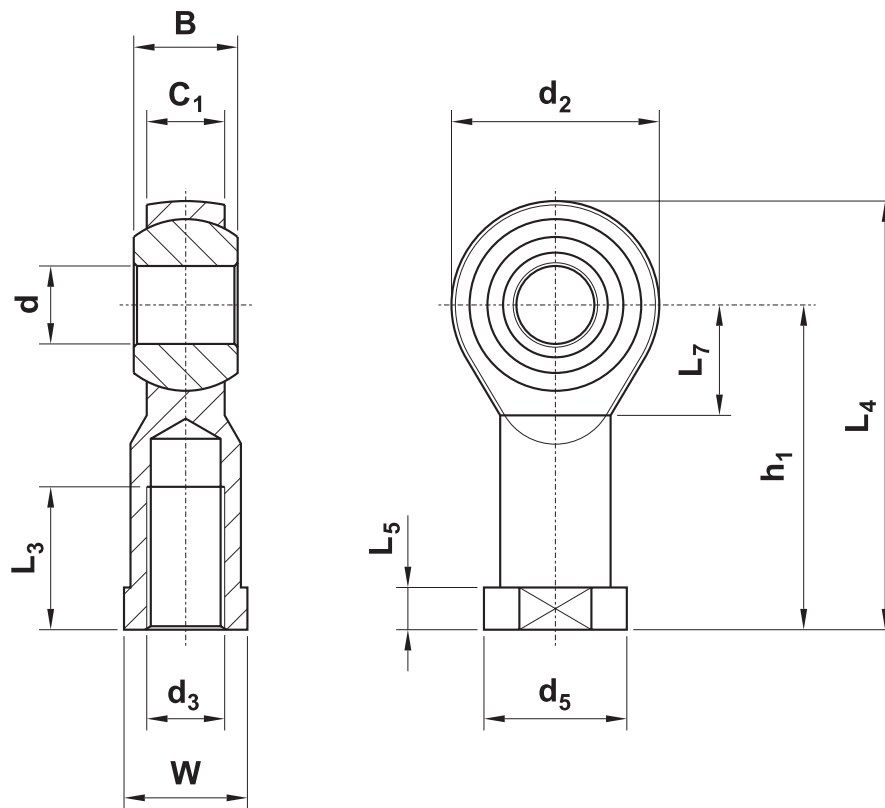
nuts for piston-rod



sigla <i>part number</i>	codice <i>code</i>	per alesaggio <i>for bore</i>	filetto <i>thread</i>	chiave <i>key</i>
DSMC8-10	26.196.2	8-10	M4x0.7	7
DSMC12-16	26.197.2	12-16	M6x1	10
DSMC20	26.198.2	20	M8x1.25	13
DSIS032	21.750.0	25-32	M10x1.25	17
DSIS040	21.751.0	40	M12x1.25	19
DSIS05063	21.752.0	50-63	M16x1.5	24
DSIS080100	21.753.0	80-100	M20x1.5	30
DSIS125	21.754.0	125	M27x2	41
DSIS160200	21.755.0	160-200	M36x2	55

TESTE A SNODO

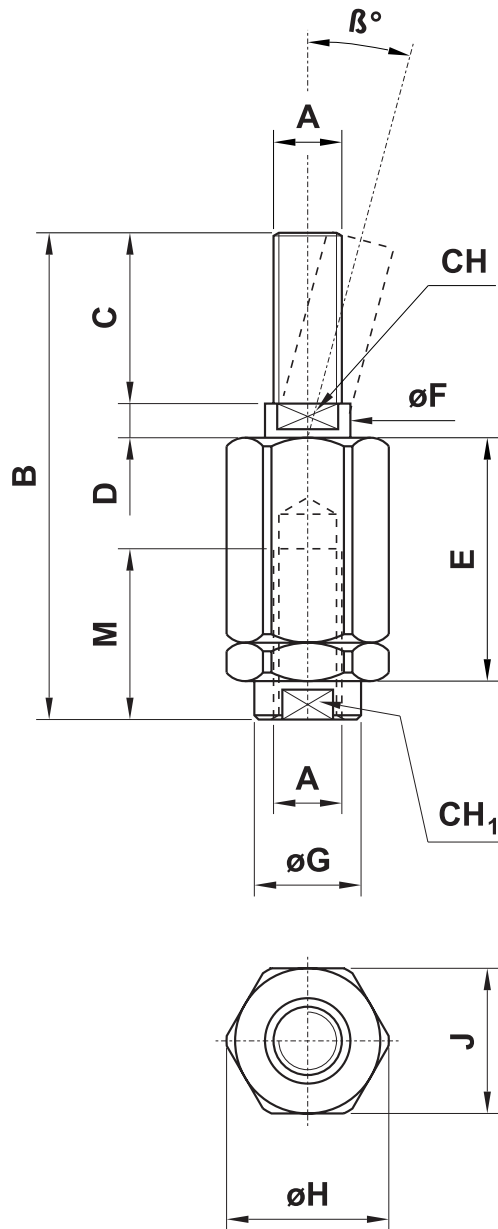
jointing balls



modello model	per alesaggi for bores	d ₃	d	B	C ₁	d ₂	d ₅	h ₁	L ₃	L ₄	L ₅	L ₇	W
TS8T10	8-10	M4x0.7	ø5	8	6	18	ø11	27	10	36	4	10	9
TS12T16	12-16	M6x1	ø6	9	6.75	20	ø13	30	12	40	5	11	11
TST20	20	M8x1.25	ø8	12	9	24	ø16	36	16	48	5	13	14
TS25T32	25-32	M10x1.25	ø10	14	10.5	28	ø19	43	20	57	6.5	15	17
TST40	40	M12x1.25	ø12	16	12	32	ø22	50	22	66	6.5	17	19
TS50T63	50-63	M16x1.5	ø16	21	15	42	ø27	64	28	85	8	23	22
TS80T100	80-100	M20x1.5	ø20	25	18	50	ø34	77	33	102	10	27	30
TST125	125	M27x2	ø30	37	25	70	ø50	110	51	145	15	36	41
TS160T200	160-200	M36x2	ø35	43	28	80	ø58	125	56	165	17	41	50

SNODI AUTOALLINEANTI

self-aligning joints



modello model	per alesaggi for bores	A	B	C	D	E	F	G	H	J	M	CH	β°	CH ₁
SN12D16	12-16	M6x1	35	10	3.5	17.5	6	8.5	14.5	13	10	5	10	7
SND20	20	M8x1.25	57	20	4	28.5	8	12.5	19	17	20	7	10	11
SN25D32	25-32	M10x1.25	71	20	5	35	14	22	32	30	20	12	10	19
SND40	40	M12x1.25	75	24	5	35	14	22	32	30	20	12	10	19
SN50D63	50-63	M16x1.5	103	32	8	54	22	32	45	41	32	20	10	30
SN80D100	80-100	M20x1.5	119	40	8	54	22	32	45	41	40	20	10	30



- Unità di guida per cilindri ISO 6431 e microcilindri ISO 6432
Guiding units for cylinders ISO 6431 and minicylinders ISO 6432
- Versioni disponibili: tipo "U" con bronzine (cod. **UB...**) - per cilindri da alesaggio 12 a 100
tipo "H" con bronzine (cod. **HB...**) - per cilindri da alesaggio 12 a 100
tipo "H" con cuscinetti a rotolamento (cod. **HS...**) - per cilindri da alesaggio 12 a 100
Available versions: type "U" with sintered bronze rod guide (code UB...) - cylinder bores from 12 to 100
type "H" with sintered bronze rod guide (code HB...) - cylinder bores from 12 to 100
type "H" with linear ball bearings (code HS...) - cylinder bores from 12 to 100
- Tipo "U" con bronzine: movimentazione con carichi medi e basse velocità
Type "U" with sintered bronze rod guide: movements with medium loads and low speeds
- Tipo "H" con bronzine: movimentazione con carichi alti e basse velocità
Type "H" with sintered bronze rod guide: movements with heavy loads and low speeds
- Tipo "H" con cuscinetti a rotolamento: movimentazione con carichi medi e alte velocità
Type "H" with linear ball bearings: movements with medium loads and high speeds

Materiali

Corpo: alluminio anodizzato

Steli: C40 cromato

Materials

Body: aluminium (anodize treatment)

Rods: C40 (chromium plated)

chiave di codifica

key to codes

H B 0 8 0 C 1 5 0

tipo
type

guida stelo
rod guide

corsa
stroke

alesaggio cilindro
cylinder bore

Tipo [type]

H tipo "H" [type "H"]

U tipo "U" [type "U"]

Guida stelo [rod guide]

B bronzine [sintered bronze]

S cuscinetti a rotolamento [linear ball bearings]

alesaggi e corse disponibili

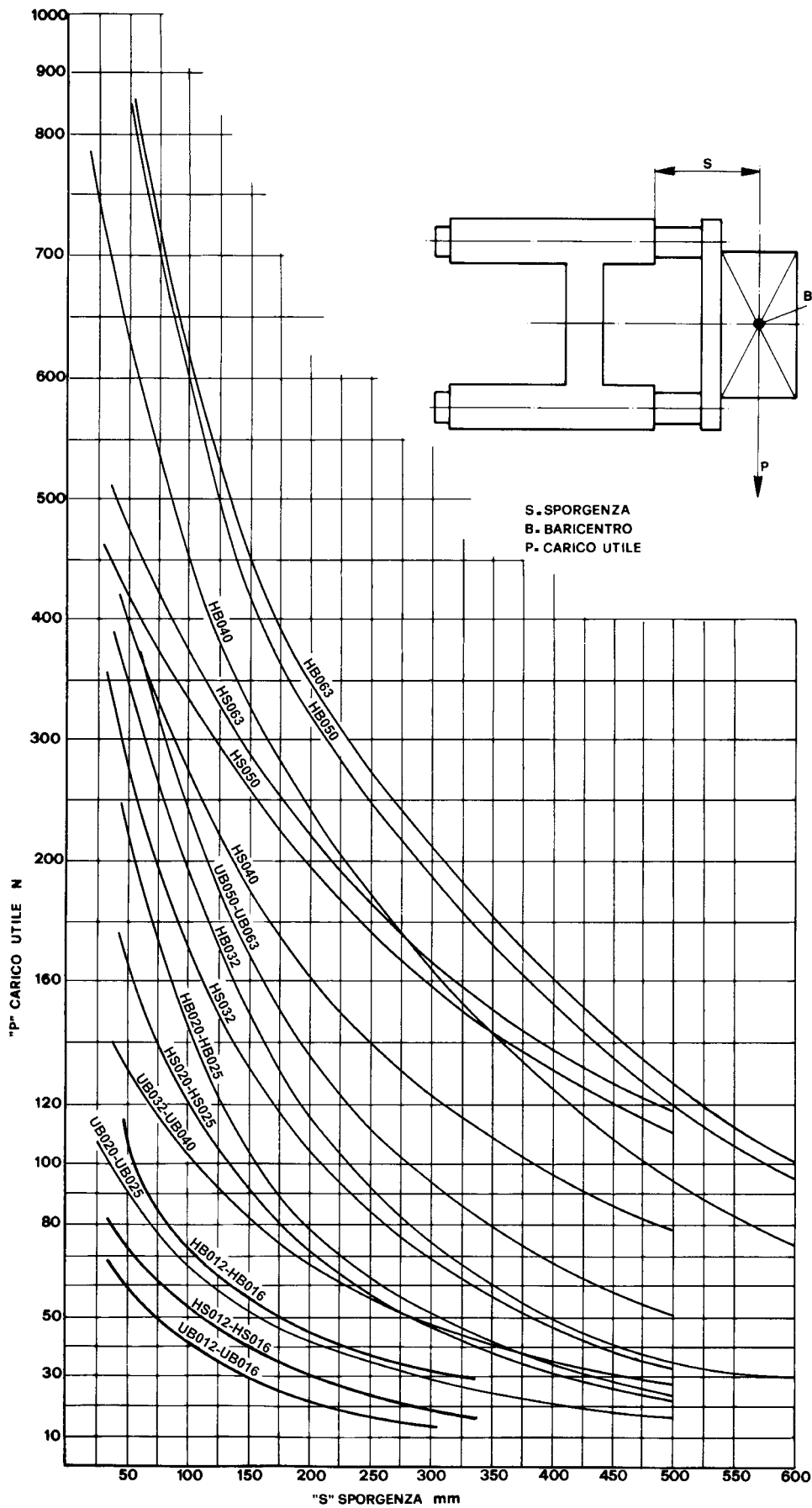
available bores and strokes

alesaggio corsa bore stroke	12* 16	20	25	32	40	50	63	80	100
50	X	X	X	X	X	X	X	X	X
100	X	X	X	X	X	X	X	X	X
150				X	X	X	X	X	X
160	X	X	X						
200	X	X	X	X	X	X	X	X	X
250	X	X	X	X	X	X	X	X	X
300				X	X	X	X	X	X
400				X	X	X	X	X	X
500				X	X	X	X	X	X

* L'unità di guida per l'alesaggio 12 si utilizza anche per l'alesaggio 16. Il codice rimane quello dell'alesaggio 12.

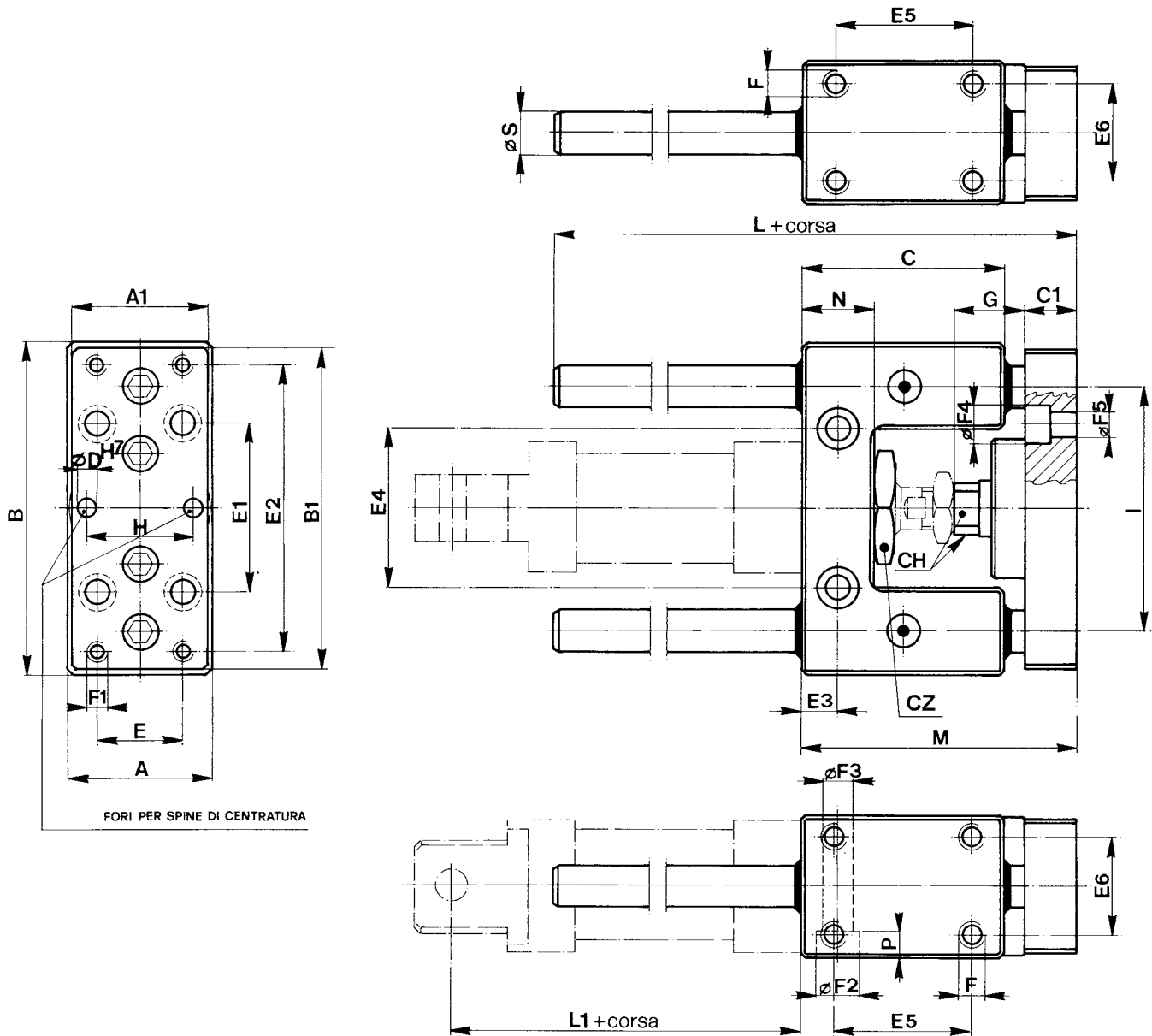
* The guiding unit for bore 12 is used also for bore 16, with the same code.

Carico ammissibile / Permissible loads



tipo "U" per microcilindri ISO 6432

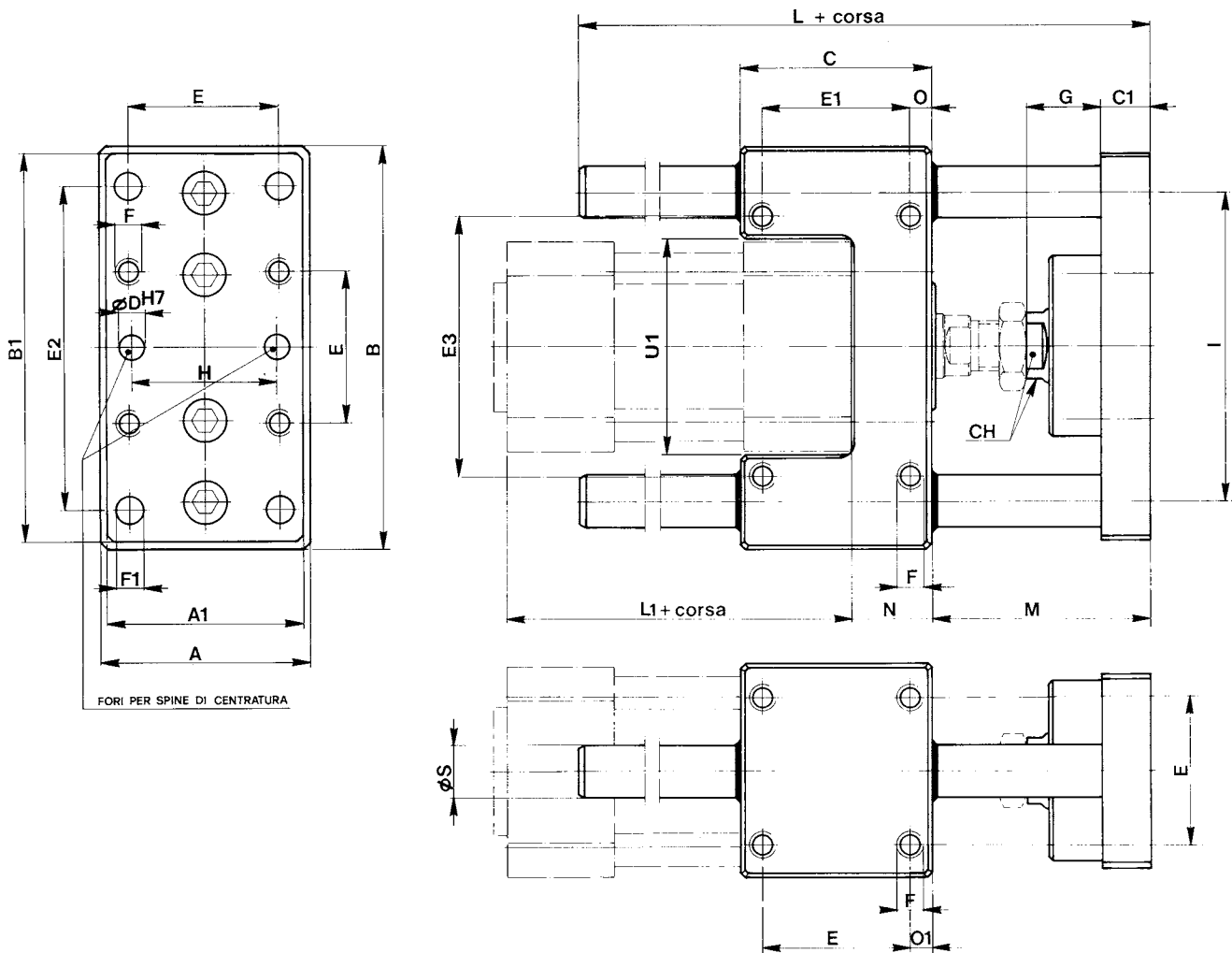
type "U" for minicylinders ISO 6432



ø CIL	A	A1	B	B1	C	C1	CH	CZ	D	E	E1	E2	E3	E4	E5	E6	F	F1	F2	F3	F4	F5	G	H	I	L	L1	M	N	P	S
12 16	30	27	65	63	38	10	8	19	4	15	32	54	6.5	24	25	22	M4	M4	8.5	5.1	7.5	4.5	12	15	46	70	53	51	13	5.5	8
																											60				
20	34	32	79	76	48	12	12	27	6	20	40	68	8.5	38	32.5	23	M6	M5	10.5	6.5	9	5.5	22	20	58	83	71	65	17	6.5	10
25	34	32	79	76	48	12	12	27	6	20	40	68	8.5	38	32.5	23	M6	M5	10.5	6.5	9	5.5	17	20	58	83	76	65	17	6.5	10

tipo "U" per cilindri ISO 6431

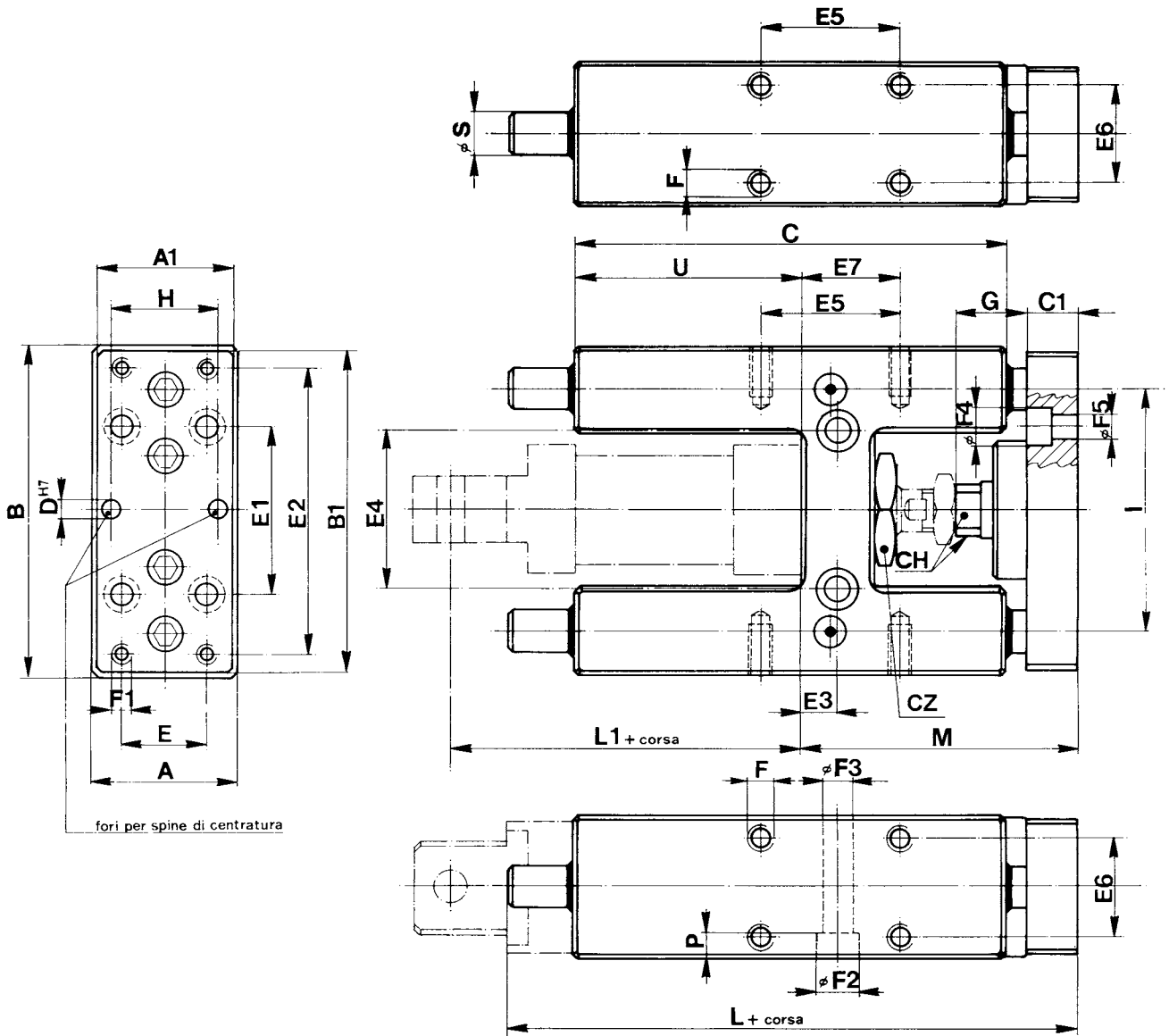
type "U" for cylinders ISO 6431



\varnothing CIL	A	A1	B	B1	C	C1	D	E	E1	E2	E3	F	F1	G	H	I	L	L1	M	N	O	O1	S	CH	U1
32	48	45	100	90	48	12	6	32.5	32.5	78	58	M6	6.5	20	31	74	106	94	54	17	7.8	7.8	12	13	48
40	56	50	106	105	58	12	6	38	38	84	64	M6	6.5	22	36	80	117	105	55	21	10	10	12	15	54
50	66	60	125	124	59	15	6	46.5	46.5	100	80	M8	9	23	45	96	129	106	68	25	6.3	6.3	16	21	67
63	76	70	132	125	76	15	6	56.5	56.5	105	95	M8	9	23	45	104	146	121	68	25	9.8	9.8	16	21	76
80	98	90	165	155	90	18	6	72	50	130	130	M10	11	30	56	130	170	128	78	34	20	9	20	27	97
100	118	110	185	175	110	18	6	89	70	150	150	M10	11	30	56	150	190	138	78	39	20	10.5	20	27	117

tipo "H" per microcilindri ISO 6432

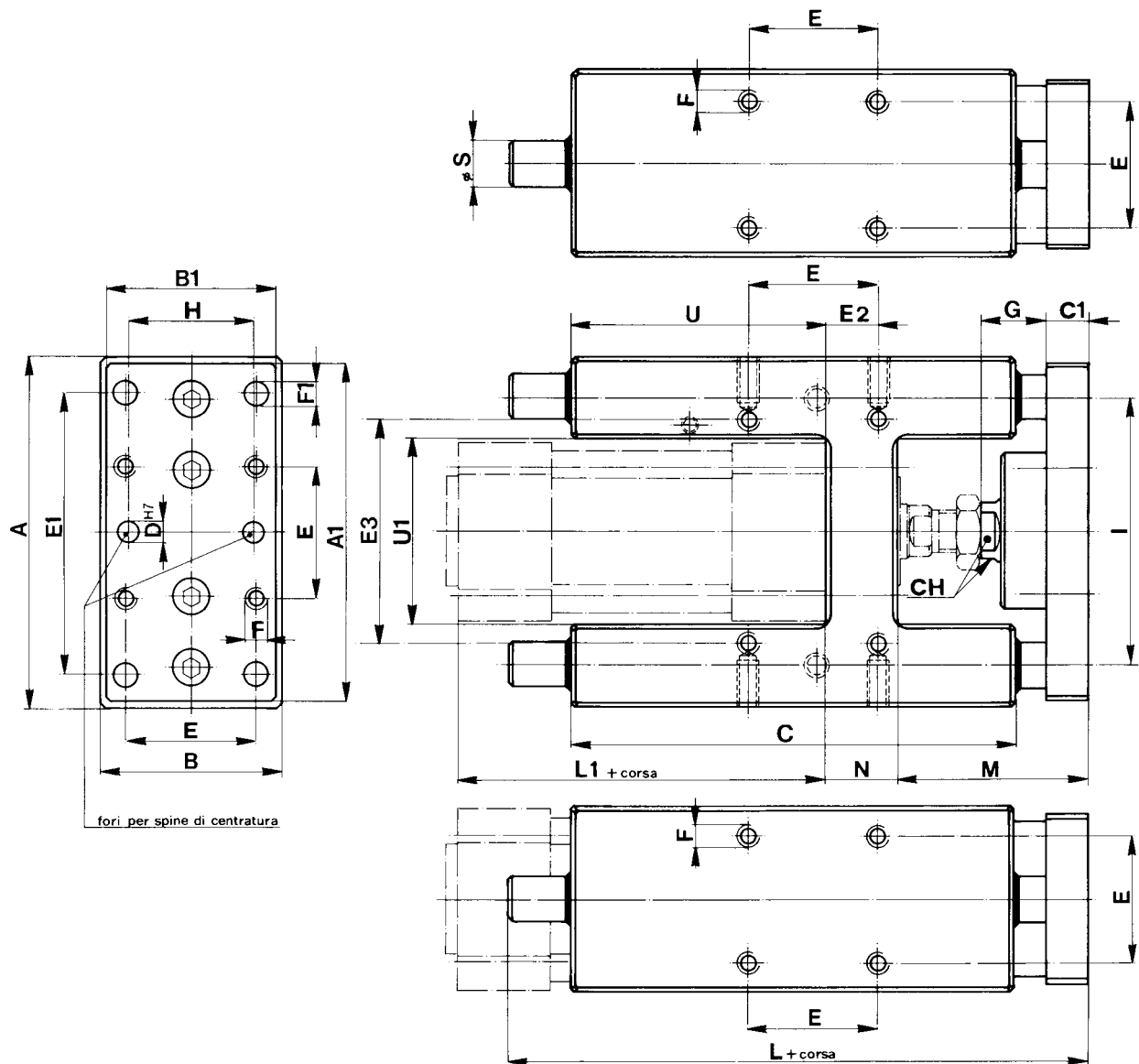
type "H" for minicylinders ISO 6432



∅ CIL	A	A1	B	B1	C	C1	CH	CZ	D	E	E1	E2	E3	E4	E5	E6	E7	F	F1	F2	F3	F4	F5	G	H	I	L	L1	M	P	S	U
12 16	30	27	65	63	75	10	8	19	4	15	32	54	6.5	24	32.5	22	11	M4	M4	8.5	5.1	7.5	4.5	12	15	46	130	53	51	5.5	8	37
																												60				
20	34	32	79	76	108	12	12	27	6	20	40	68	8.5	38	32.5	23	15	M6	M5	10.5	6.5	9	5.5	22	20	58	159	71	65	6.5	10	58
25	34	32	79	76	108	12	12	27	6	20	40	68	8.5	38	32.5	23	15	M6	M5	10.5	6.5	9	5.5	17	20	58	159	76	65	6.5	10	58

tipo "H" per cilindri ISO 6431

type "H" for cylinders ISO 6431



∅ CIL	A	A1	B	B1	C	C1	CH	D	E	E1	E2	E3	F	F1	G	H	I	L	L1	M	N	S	U	U1
32	97	90	50	45	125	12	13	6	32.5	78	4.3	61	M6	6.5	20	31	74	177	94	54	17	12	76	50.5
40	115	105	58	50	136	12	15	6	38	84	11	69	M6	6.5	22	36	87	192	105	55	21	16	81	58.5
50	137	124	70	60	144	15	21	6	46.5	100	18.5	85	M8	9	23	45	104	237	106	68	26	20	79	70.5
63	152	145	85	70	176	15	21	6	56.5	105	15.3	100	M8	9	23	45	119	237	121	68	26	20	111	85.5
80	189	180	105	100	215	20	27	6	72	130	21	130	M10	11	30	56	148	280	128	78	34	25	128	106
100	213	200	130	120	220	20	27	6	89	150	24.5	150	M10	11	30	56	173	280	138	78	39	25	128	131

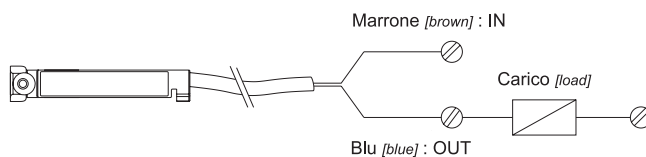
sensori per cilindri

magnetic sensors for cylinders



Schema di collegamento: 2 fili

Wiring diagram: 2 wires



Modello Model	RS1-A	RS2-A	RS5-C	RS3-A	RS4-A
Funzione Function	Reed NA Reed NO	Reed NA Reed NO	Reed NC Reed NC	Reed NA Reed NO	Reed NA Reed NO
Numero fili Number of wires	2	2	2	2	2
Lunghezza cavo Length of wires	standard: 2 m (5 m: RS1-A 5MT)	30 cm	2 m	2 m	30 cm
Connettore Connector	-	M8	-	-	M12
Tensione di esercizio Working tension	5-130V AC-DC	5-50V AC-DC	5-130V AC-DC	5-230V AC-DC	5-230V AC-DC
Corrente massima Max. current	200 mA	200 mA	200 mA	200 mA	200 mA
Potenza massima Max. power	6 W	6 W	6 W	10 W	10 W
Caduta di tensione Tension drop	3 V	3 V	-	3 V	3 V
Segnalazione stato uscita ON Output display ON	LED giallo yellow LED	LED giallo yellow LED	LED giallo yellow LED	LED giallo yellow LED	LED giallo yellow LED
Tempo di commutazione ON IN time	0.3 ms max				
Tempo di commutazione OFF OUT time	0.1 ms max				
Frequenza massima di commutazione Max. commutation frequency	400 Hz				
Resistenza di isolamento Insulation resistance	> 100 MΩ				
Resistenza alle vibrazioni Resistance to vibrations	2 kHz				
Vita elettrica: cicli Electric life: cycles	10 ⁷				
Temperatura di esercizio Temperature range	max +60°C				
Cavo tipo CEI 2022 II OR Cable type CEI 2022 II OR	2 x 0.14				
Grado di protezione Protection degree	IP 65				

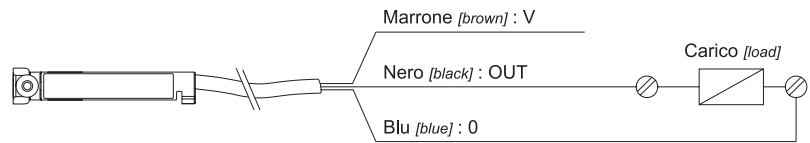
sensori per cilindri

magnetic sensors for cylinders



Schema di collegamento: 3 fili

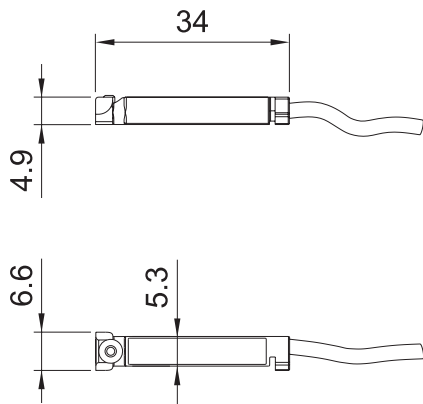
Wiring diagram: 3 wires



Modello Model	RS6-3F	RS7-3F	SH1-P	SH2-P
Funzione Function	Reed NA Reed NO 	Reed NA Reed NO 	Hall PNP Hall PNP 	Hall PNP Hall PNP
Numero fili Number of wires	3	3	3	3
Lunghezza cavo Length of wires	2 m	30 cm	2 m	30 cm
Connettore Connector	-	M8	-	M8
Tensione di esercizio Working tension	5-30V AC-DC	5-30V AC-DC	5-30V DC	5-30V DC
Corrente massima Max. current	500 mA	500 mA	200 mA	200 mA
Potenza massima Max. power	6 W	6 W	4 W	4 W
Caduta di tensione Tension drop	0.1 V	0.1 V	0.7 V max	0.7 V max
Segnalazione stato uscita ON Output display ON	LED giallo yellow LED	LED giallo yellow LED	LED giallo yellow LED	LED giallo yellow LED
Tempo di commutazione ON IN time	0.3 ms max		0.8 ms max	
Tempo di commutazione OFF OUT time	0.1 ms max		0.3 ms max	
Frequenza massima di commutazione Max. commutation frequency	400 Hz		1 kHz	
Resistenza di isolamento Insulation resistance	> 100 MΩ		> 100 MΩ	
Resistenza alle vibrazioni Resistance to vibrations	2 kHz		2 kHz	
Vita elettrica: cicli Electric life: cycles	10 ⁷		10 ¹¹	
Temperatura di esercizio Temperature range	max +60°C		max +60°C	
Cavo tipo CEI 2022 II OR Cable type CEI 2022 II OR	3 x 0.14		3 x 0.14	
Grado di protezione Protection degree	IP 65		IP 65	

Dimensioni di ingombro

Overall dimensions

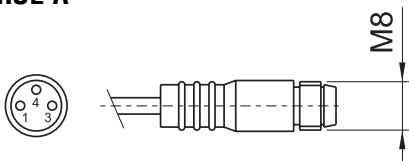


Dimensioni e schema connettore

Connector layout and dimensions

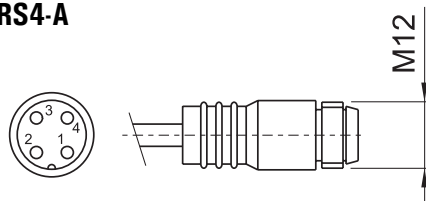


RS2-A



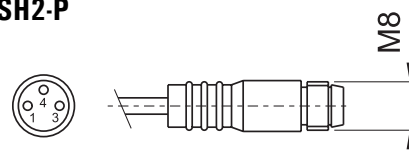
- 1 (marrone - brown) : IN
- 4 (nero - black) : OUT
- 3 (blu - blue) : non utilizzato [unused]

RS4-A



- 1 (marrone - brown) : IN
- 2 (bianco - white) : non utilizzato [unused]
- 3 (blu - blue) : non utilizzato [unused]
- 4 (nero - black) : OUT

RS7-3F SH2-P



- 1 (marrone - brown) : V+
- 4 (nero - black) : OUT
- 3 (blu - blue) : V-

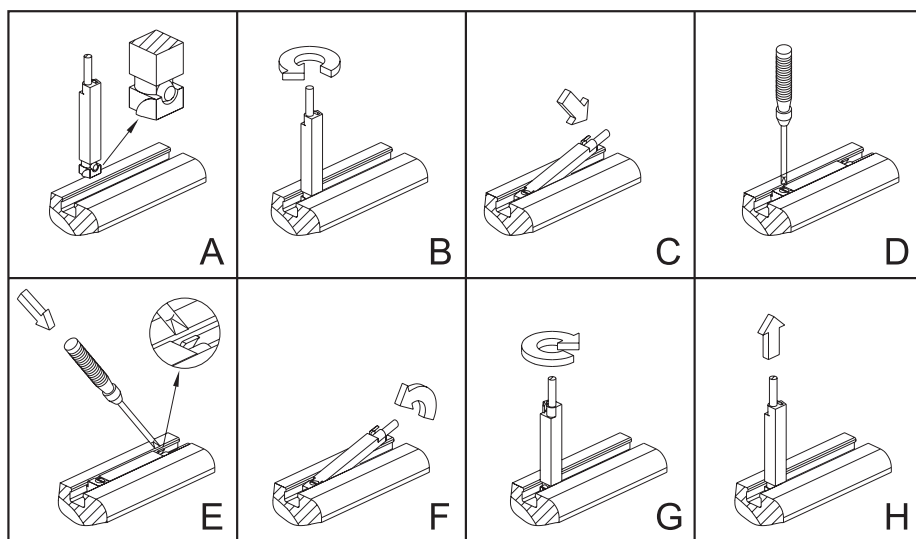
PROLUNGHE PER CAVO

Extensions for cable

	lunghezza length	codice di ordinazione order code
M8 3x0.25	3 m	26.164.0
	5 m	26.165.0
M12 3x0.34	3 m	26.166.0
	5 m	26.167.0

sensori per cilindri

magnetic sensors for cylinders



MONTAGGIO DEI SENSORI SUI CILINDRI ISO 6431

mounting of sensor on cylinders ISO 6431

Istruzioni per l'installazione:

- A. Inserire dall'alto il sensore come indicato in figura
- B. Ruotare di 90° il corpo del sensore
- C. Alloggiare il sensore nella cava tenendo in vista il taglio del grano
- D. Individuare la posizione di lettura, quindi avvitare il grano

Istruzioni per la rimozione:

- E. Una volta allentato il grano, agire sul dentino di blocco posteriore
- F. Contemporaneamente sollevare il sensore aiutandosi con il cavo
- G. Ruotare di 90° il corpo del sensore
- H. Estrarre il sensore dalla cava

Instructions for installation:

- A. Insert the sensor from above as indicated in the image
- B. Rotate the body of the sensor by 90°
- C. Put the sensor in the groove keeping the head of the screw in sight
- D. When the reading position has been found, tighten the screw

Instructions for removal:

- E. Loosen the screw and apply pressure on the back fixing element
- F. At the same time lift the sensor using the cable for help
- G. Rotate the sensor by 90°
- H. Remove the sensor from the groove

UTILIZZO DEI SENSORI E STAFFE DI MONTAGGIO

usage of sensors and mounting brackets

CILINDRO	STAFFA [mounting bracket]
microcilindri ISO 6432 minicylinders ISO 6432	ø10 : 26.039.0 ø12 : 26.040.0 ø16 : 26.041.0 ø20 : 26.042.0 ø25 : 26.229.0
cilindri tondi round cylinders	ø32 : 26.230.0 ø40 : 26.231.0 ø50 : 26.232.0
cilindri compatti compact cylinders	su cava a T : montaggio diretto su cava a coda di rondine : 26.147.0
cilindri corsa breve short stroke cylinders	26.147.0
cilindri ISO 6431 ø32 ... 125	montaggio diretto direct mounting
cilindri ISO 6431 ø160-200	26.219.2
cilindri ad asta gemellata twin rod cylinders	montaggio diretto direct mounting

La tabella a lato indica per quali tipi di cilindro si possono utilizzare i sensori di cui alle pagine 364-365, specifica se e quali staffe di montaggio devono essere utilizzate e ne fornisce il codice di ordinazione. Le staffe di montaggio vanno ordinate separatamente.

I nostri sensori possono essere utilizzati anche su cilindri con profilo diverso dal nostro standard. Per le staffe di fissaggio vedi pagina seguente.

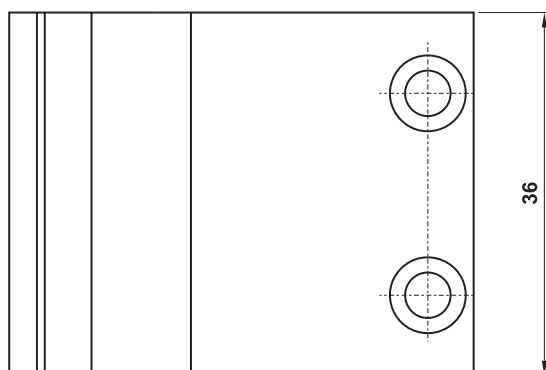
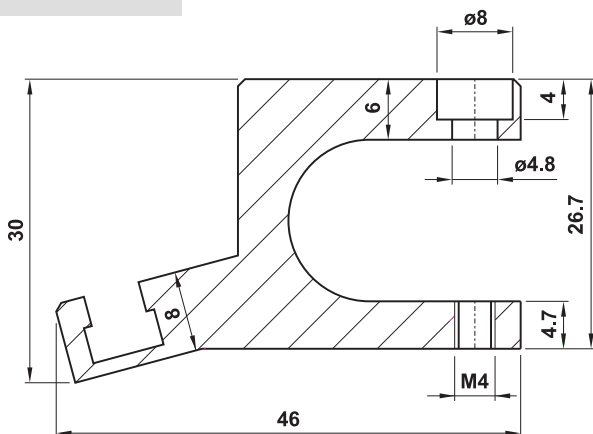
The table shows for which types of cylinder the sensors on pages 364-365 can be used. It indicates also whether a mounting bracket must be used, and gives the order code. Mounting brackets must be ordered separately.

Our sensors can be mounted also on cylinders with profile different from our standard. For mounting brackets see the following page.

staffa per cilindri ISO 6431 ø160-200

mounting bracket for cylinders ISO 6431 ø160-200

26.219.2



staffe per microcilindri ISO 6432

mounting brackets for minicylinders ISO 6432

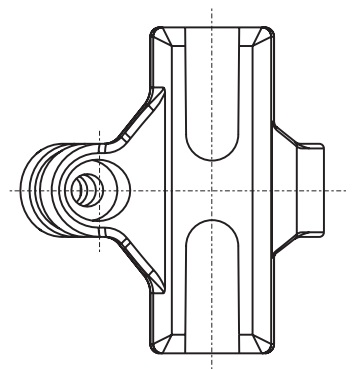
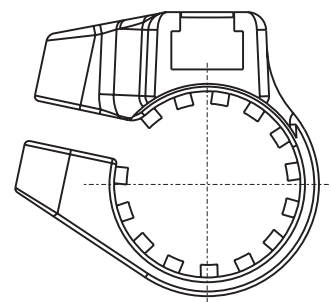
ø10 : 26.039.0

ø12 : 26.040.0

ø16 : 26.041.0

ø20 : 26.042.0

ø25 : 26.229.0

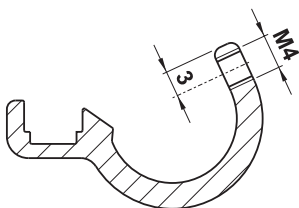
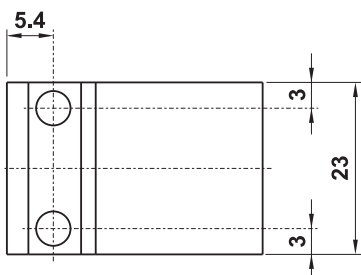
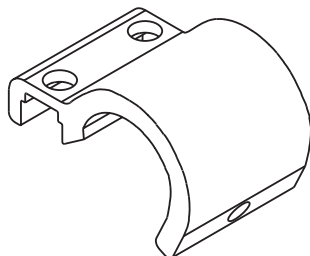


staffe per cilindri con profilo Mickey Mouse

mounting brackets for cylinders with Mickey Mouse profile

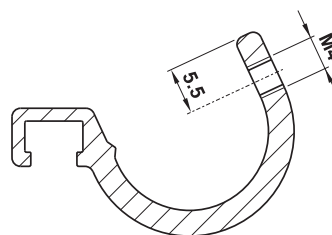
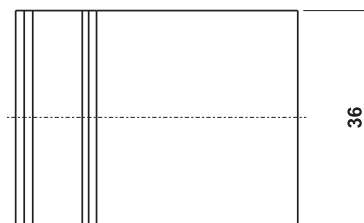
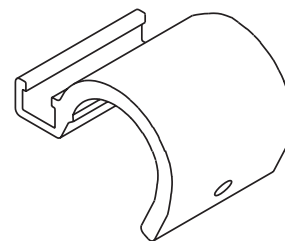
26.194.0

ø32 ... 63



26.145.0

ø80-100

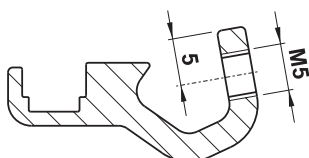
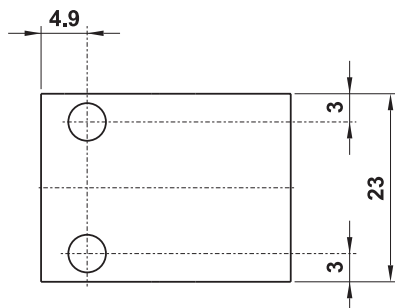
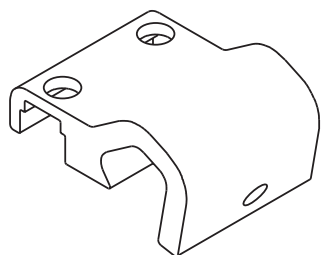


staffe per cilindri con tubo tondo e tiranti

mounting brackets for cylinders with round profile and tie-rods

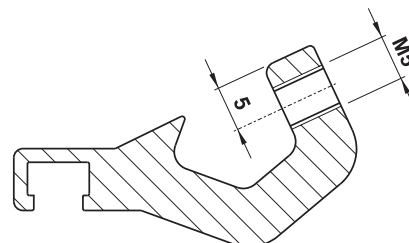
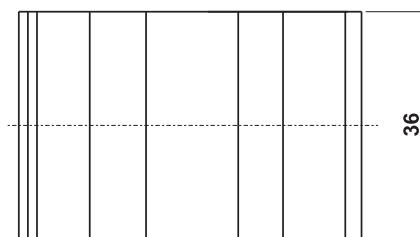
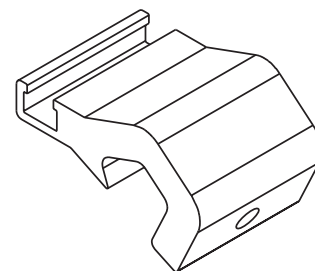
26.195.0

ø32 ... 63



26.196.0

ø80-100





	pagina <i>page</i>
• Informazioni tecniche <i>Technical information</i>	372
• Filtri separatori <i>Filter-water-separators</i>	376
• Microfiltri-depuratori <i>Sub-micro-filters</i>	384
• Filtri a carbone attivo <i>Activated carbon filters</i>	386
• Regolatori di pressione <i>Pressure regulators</i>	388
• Lubrificatori <i>Lubricators</i>	400
• Filtroregolatori <i>Filter-regulators</i>	408
• Gruppi trattamento aria FR+L <i>FR+L air preparation units</i>	416
• Gruppi trattamento aria FRL <i>FRL air preparation units</i>	424
• Valvole di sezionamento circuito, di scarico rapido e avviatore progressivo <i>Shut-off valves, quick exhaust valves and slow-start valve</i>	432
• Regolatore proporzionale elettronico <i>Electronically controlled proportional pressure regulator</i>	444
• Accessori <i>Accessories</i>	452
• Novità 2005 - nuova serie gruppi trattamento aria G1" <i>New range air preparation units G1"</i>	463

NOTE GENERALI

I gruppi trattamento aria AZ Pneumatica sono il frutto di una costante attività di ricerca e analisi che ha portato a un prodotto che si adatta perfettamente alle richieste dell'utilizzatore finale. Sono disponibili regolatori e filtroregolatori con diversi livelli di pressione e grado di filtraggio; lubrificatori con bassa pressione di inserzione; valvole di sezionamento circuito e avviatori progressivi che permettono di completare il gruppo soddisfacendo le più svariate necessità applicative.

GENERAL NOTES

The FRL units AZ Pneumatica are the result of a specialized research activity aiming at user-oriented solutions. Regulators, filters and filter-regulators are available with different levels of pressure range and filter element. Lubricators guarantee low start flow rates and constant performances. Some accessories (slow-start valve and shut-off valve) can extend the choice in order to solve any kind of problem.

Grandi prestazioni

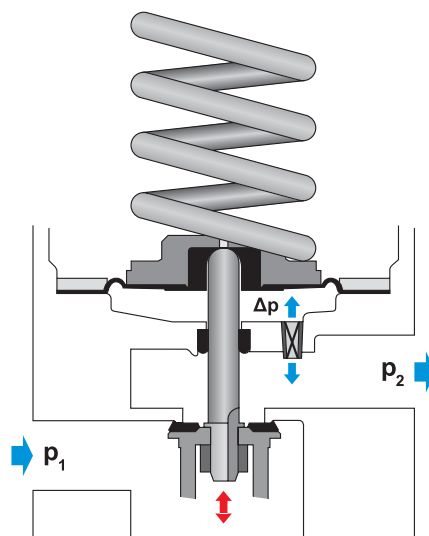
L'enorme potenziale di rendimento è il risultato di una costruzione semplice e ottimizzata: l'attenzione posta nella progettazione di particolari importanti quali la membrana e la valvola di compensazione garantisce funzionalità, stabilità e alto rendimento. La tecnologia impiegata consente una perfetta compensazione della portata garantendo un valore di isteresi ottimale con una ridottissima differenza di pressione tra lo scarico della sovrappressione (relieving) e la pressione di esercizio.

Analoghi risultati si ottengono, nella versione miniaturizzata da G1/4", con un sistema di regolazione a pistone.

High performances

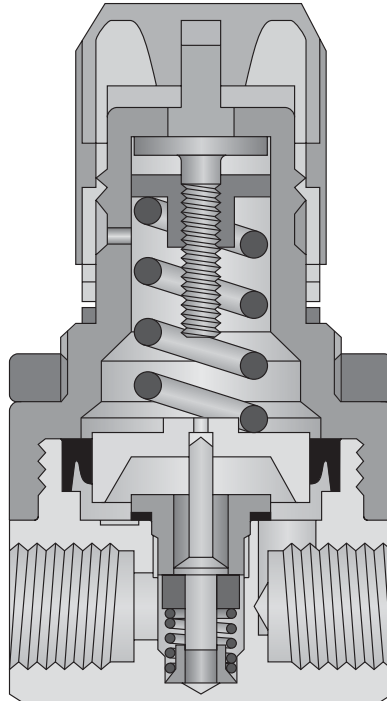
Thanks to a good research, the building concept of our components (diaphragm, balanced valves, etc.) can guarantee stability, high flow rates, reliability. Very low hysteresis has been obtained with a good compensation between relieving and working pressure.

Small-sized regulators (G1/4" ports) can offer similar results with a piston based regulation system.



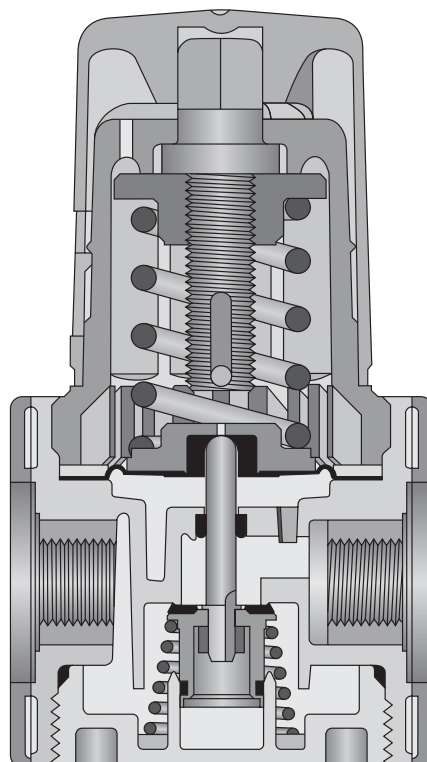
SISTEMA DI REGOLAZIONE A PISTONE

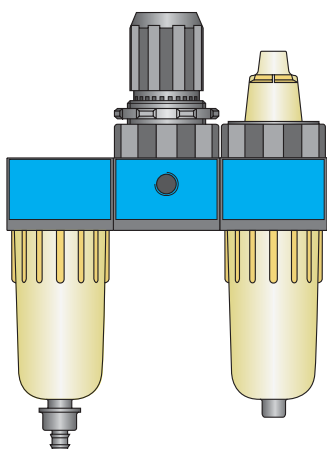
piston based regulation system



SISTEMA DI REGOLAZIONE A MEMBRANA

diaphragm based regulation system

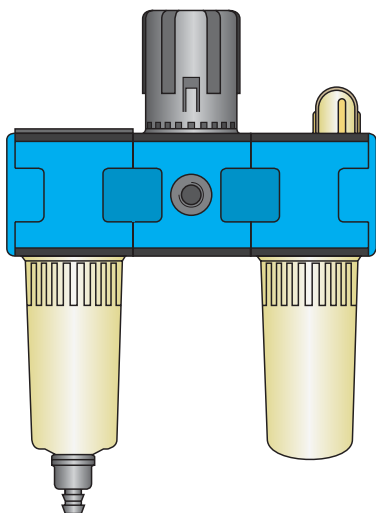




G1/4"

- Gamma miniaturizzata
- Portata: 600 NI/min
- Pressione di esercizio: 0 ... 8 bar
0 ... 0.8 MPa
- Tazza trasparente in polimero rinforzato
- Scarico semiautomatico della condensa
- Microfiltri ad elevate prestazioni
- Accessori assemblabili a richiesta

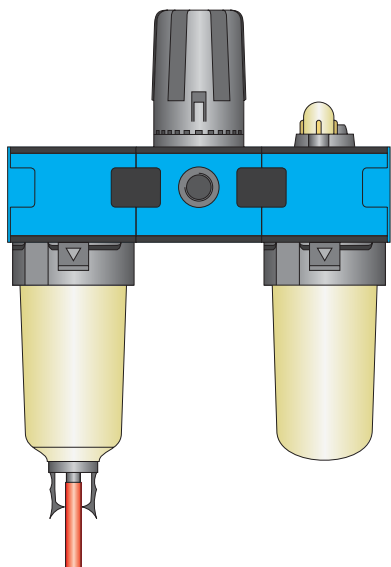
- *Very small dimensions*
- *Flow rate: 600 NI/min*
- *Working pressure: 0 ... 8 bar
0 ... 0.8 MPa*
- *Transparent bowl in reinforced polymer*
- *Semi-automatic moisture exhaust*
- *Sub-micro-filters with high performances*
- *Accessories on request*



G3/8"

- Elevata modularità
- Portata: 1000 NI/min
- Pressione di esercizio: 0 ... 8 bar
0 ... 0.8 MPa
- Tazza trasparente con protezione a richiesta
- Scarico semiautomatico della condensa
(a richiesta scarico automatico)
- Microfiltri ad elevate prestazioni
- Accessori assemblabili a richiesta

- *High modularity*
- *Flow rate: 1000 NI/min*
- *Working pressure: 0 ... 8 bar
0 ... 0.8 MPa*
- *Transparent bowl with protection on request*
- *Semi-automatic moisture exhaust
(on request automatic exhaust)*
- *Sub-micro-filters with high performances*
- *Accessories on request*

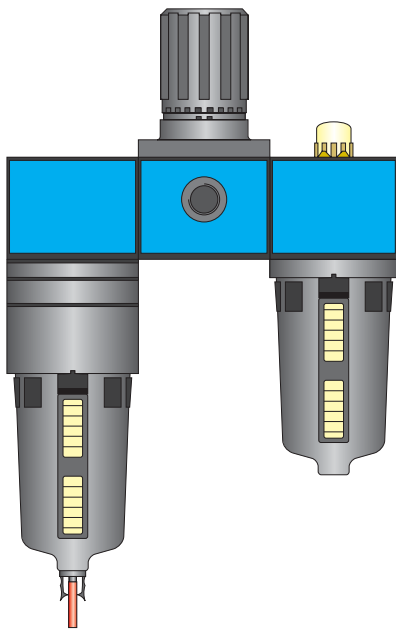


G1/2"

- Elevata modularità
- Portata: 2000 NI/min
- Pressione di esercizio: 0 ... 8 bar
0 ... 0.8 MPa
- Tazza trasparente con protezione a richiesta
- Scarico semiautomatico della condensa
(a richiesta scarico automatico)
- Microfiltri ad elevate prestazioni
- Accessori assemblabili a richiesta

- *High modularity*
- *Flow rate: 2000 NI/min*
- *Working pressure: 0 ... 8 bar
0 ... 0.8 MPa*
- *Transparent bowl with protection on request*
- *Semi-automatic moisture exhaust
(on request automatic exhaust)*
- *Sub-micro-filters with high performances*
- *Accessories on request*

5



G1"

- Elevata modularità
 - Portata: 5000 NI/min
 - Pressione di esercizio: 0 ... 10 bar
0 ... 1 MPa
 - Tazza metallica
 - Scarico semiautomatico della condensa
(a richiesta scarico automatico)
 - Accessori assemblabili a richiesta
- High modularity
 - Flow rate: 5000 NI/min
 - Working pressure: 0 ... 10 bar
0 ... 1 MPa
 - Metal bowl
 - Semi-automatic moisture exhaust
(on request automatic exhaust)
 - Accessories on request

NUOVA SERIE A PARTIRE DAL 2005 (vedi pagine 464-476)

NEW SERIES FROM YEAR 2005 (see pages 464-476)

filtro separatore G1/4"

G1/4" filter-water-separator

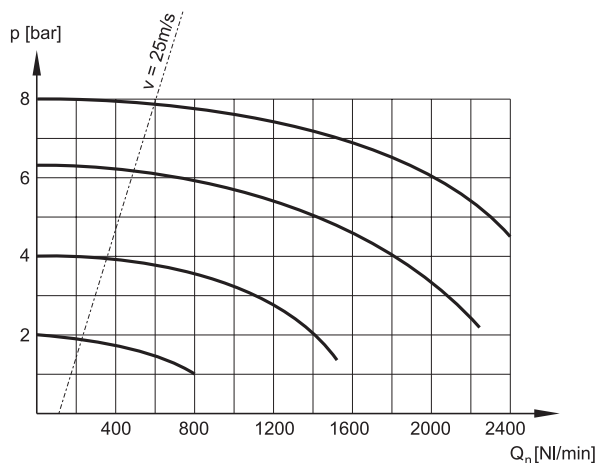


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante
Cyclone system and filter element
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa
Semi-automatic moisture exhaust
- Capacità della tazza: 12 cm³
Bowl capacity: 12 cm³
- Protezione in plastica della tazza a richiesta (cod. PR 2-00)
Plastic bowl protection on request (code PR 2-00)
- Installazione verticale
Vertical installation



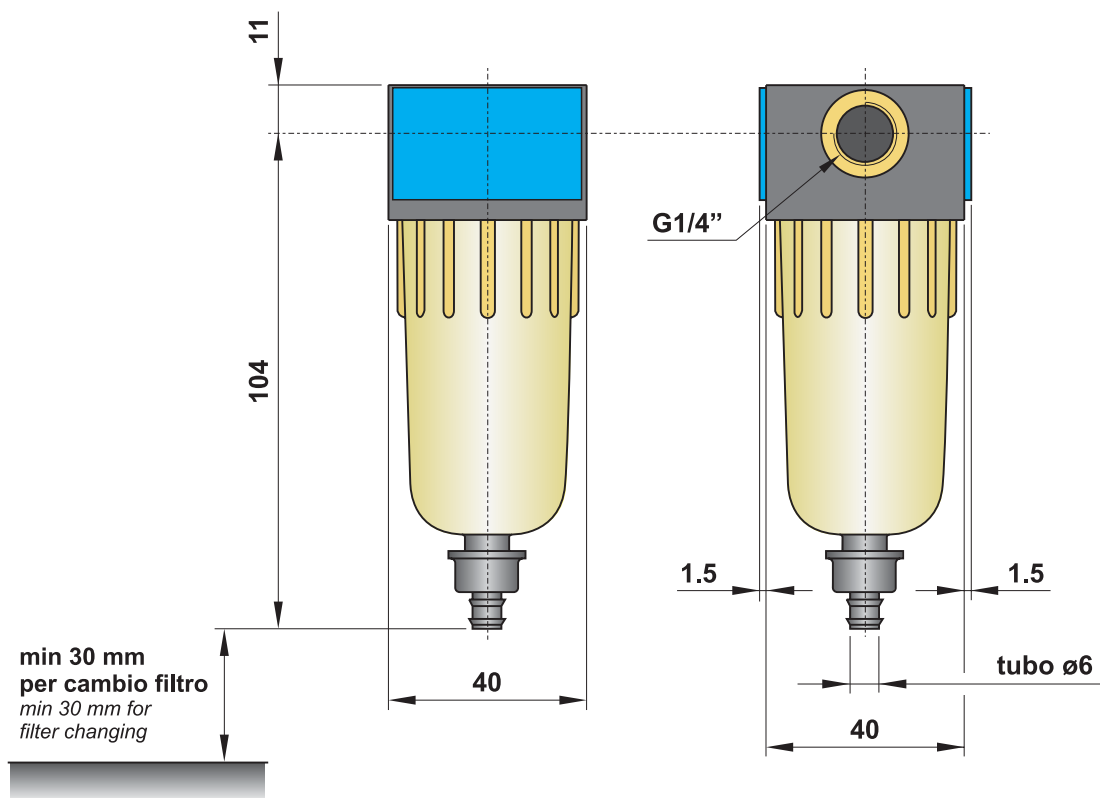
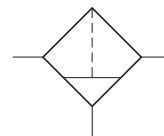
CODICE DI ORDINAZIONE <i>ORDER CODE</i>			FIL 2-25-S	FIL 2-05-S
Attacchi <i>Parts</i>			G1/4"	G1/4"
Temperatura di esercizio <i>Temperature range</i>			max +50°C	max +50°C
Peso <i>Weight</i>			0.1 kg	0.1 kg
Pressione di esercizio <i>Working pressure range</i>		p_{min} p_{max}	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Portata raccomandata <i>Recommended flow rate</i>	$\rho = 6.3 \text{ bar a } 25 \text{ m/s}$ $\rho = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	550 NI/min	550 NI/min
Elemento filtrante <i>Filter element</i>			25 μm	5 μm

Caratteristiche di portata
Flow characteristics



filtro separatore G1/4"

G1/4" filter-water-separator



min 30 mm
per cambio filtro
min 30 mm for
filter changing

Materiali

Corpo: polimero rinforzato con inserti filettati in ottone

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Tazza: policarbonato rinforzato

Materials

Body: reinforced polymer with brass thread inserts

Seals: NBR

Internal parts: brass, stainless steel and polymer

Bowl: reinforced polycarbonate

filtro separatore G3/8"

G3/8" filter-water-separator

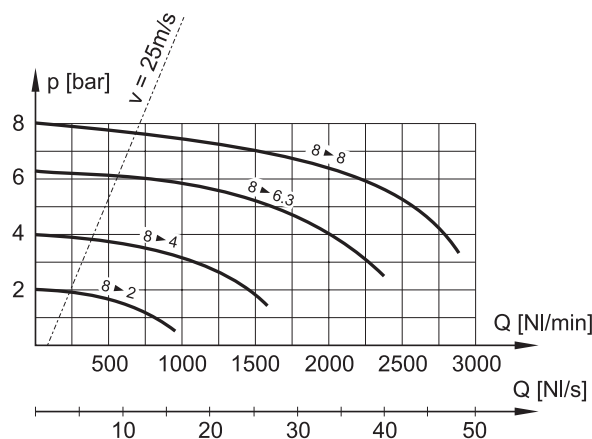


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante
Cyclone system and filter element
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico della condensa semiautomatico o automatico
Semi-automatic or automatic moisture exhaust
- Capacità della tazza: 22 cm³
Bowl capacity: 22 cm³
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 3)
Vertical installation; bracket on request (code STF 3)
- Protezione metallica della tazza a richiesta (cod. PR 3-00)
Metal bowl protection on request (code PR 3-00)



CODICE DI ORDINAZIONE ORDER CODE			FIL 3-30-S	FIL 3-30-A	FIL 3-05-S
Attacchi <i>Ports</i>			G3/8"	G3/8"	G3/8"
Scarico della condensa <i>Moisture exhaust</i>			semiautomatico <i>semi-automatic</i>	automatico <i>automatic</i>	semiautomatico <i>semi-automatic</i>
Temperatura di esercizio <i>Temperature range</i>			max +50°C	max +50°C	max +50°C
Peso <i>Weight</i>			0.25 kg	0.25 kg	0.25 kg
Pressione di esercizio <i>Working pressure range</i>		p_{min} p_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	850 NI/min	850 NI/min	850 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{max}	1520 NI/min	1520 NI/min	1520 NI/min
Elemento filtrante <i>Filter element</i>			30 μm	30 μm	5 μm

Caratteristiche di portata
Flow characteristics

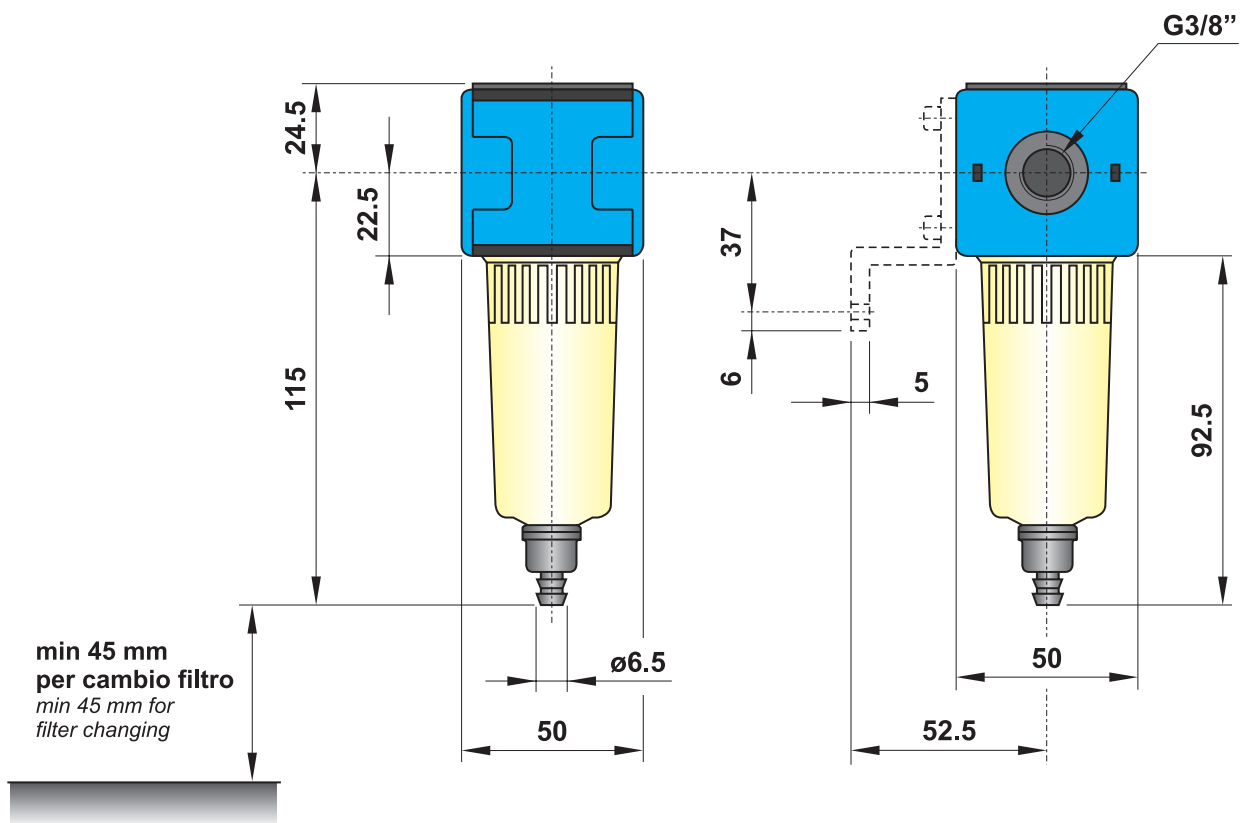
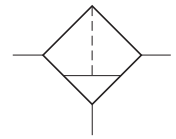


filtro separatore G3/8"

G3/8" filter-water-separator



La staffa di fissaggio deve essere acquistata separatamente.
Mounting bracket is bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

filtro separatore G1/2"

G1/2" filter-water-separator

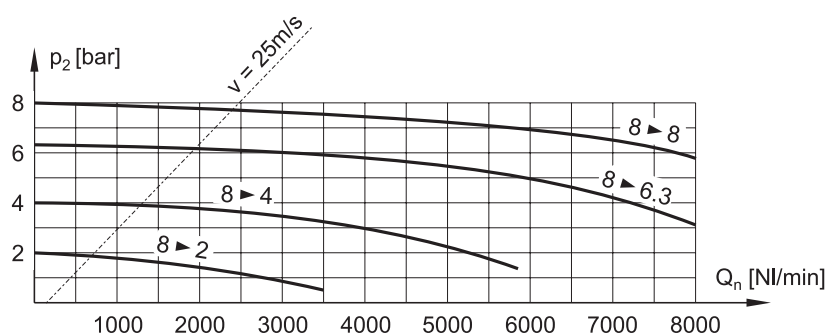


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante
Cyclone system and filter element
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico della condensa semiautomatico o automatico
Semi-automatic or automatic moisture exhaust
- Capacità della tazza: 57 cm³
Bowl capacity: 57 cm³
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4)
Vertical installation; bracket on request (code STF 4)
- Protezione metallica della tazza a richiesta (cod. PR 4-00)
Metal bowl protection on request (code PR 4-00)



CODICE DI ORDINAZIONE <i>ORDER CODE</i>			FIL 4-30-S	FIL 4-30-A	FIL 4-05-S
Attacchi <i>Ports</i>			G1/2"	G1/2"	G1/2"
Scarico della condensa <i>Moisture exhaust</i>			semiautomatico <i>semi-automatic</i>	automatico <i>automatic</i>	semiautomatico <i>semi-automatic</i>
Temperatura di esercizio <i>Temperature range</i>			max +50°C	max +50°C	max +50°C
Peso <i>Weight</i>			0.55 kg	0.55 kg	0.55 kg
Pressione di esercizio <i>Working pressure range</i>		p_{\min} p_{\max}	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	1900 NI/min	1900 NI/min	1900 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{\max}	5000 NI/min	5000 NI/min	5000 NI/min
Elemento filtrante <i>Filter element</i>			30 μm	30 μm	5 μm

Caratteristiche di portata
Flow characteristics

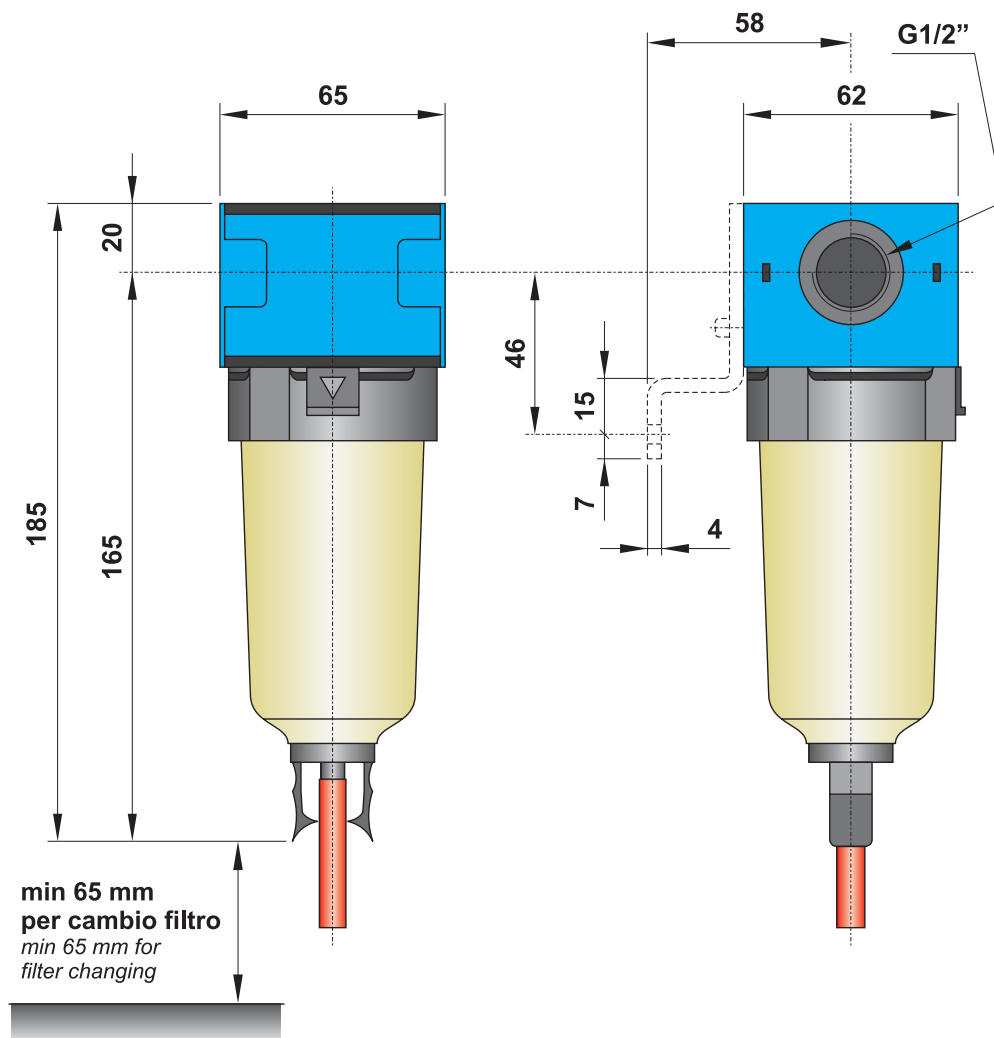
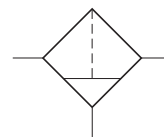


filtro separatore G1/2"

G1/2" filter-water-separator



La staffa di fissaggio deve essere acquistata separatamente.
Mounting bracket is bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

filtro separatore G1"

G1" filter-water-separator

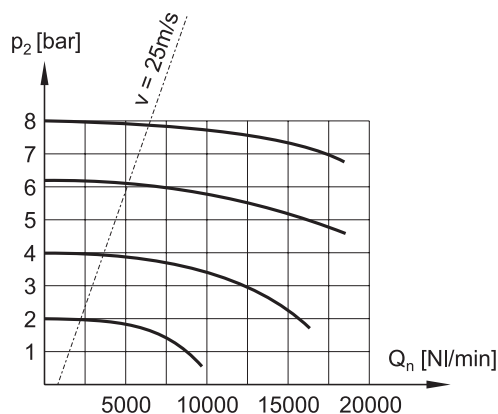


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante
Cyclone system and filter element
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico della condensa semiautomatico o automatico
Semi-automatic or automatic moisture exhaust
- Capacità della tazza: 500 cm³
Bowl capacity: 500 cm³
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6)
Vertical installation; brackets on request (code STF 6)
- Tazza metallica
Metal bowl



CODICE DI ORDINAZIONE <i>ORDER CODE</i>			FIL 6-30-S	FIL 6-30-A	FIL 6-05-S
Attacchi <i>Ports</i>			G1"	G1"	G1"
Scarico della condensa <i>Moisture exhaust</i>			semiautomatico <i>semi-automatic</i>	automatico <i>automatic</i>	semiautomatico <i>semi-automatic</i>
Temperatura di esercizio <i>Temperature range</i>			max +50°C	max +50°C	max +50°C
Peso <i>Weight</i>			2.2 kg	2.2 kg	2.2 kg
Pressione di esercizio <i>Working pressure range</i>		p_{\min} p_{\max}	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	5000 NI/min	5000 NI/min	5000 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{\max}	14000 NI/min	14000 NI/min	14000 NI/min
Elemento filtrante <i>Filter element</i>			30 μm	30 μm	5 μm

Caratteristiche di portata
Flow characteristics

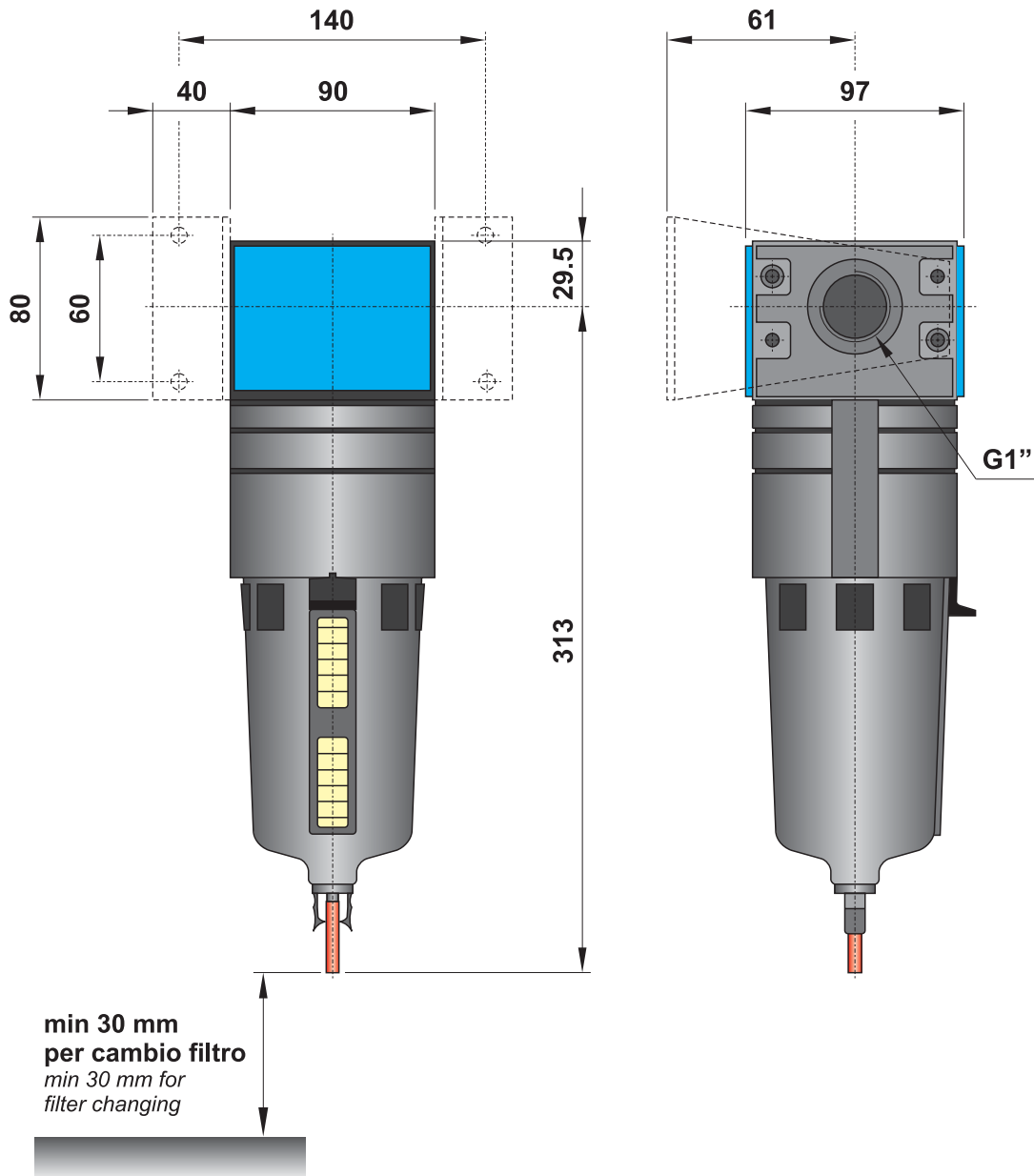
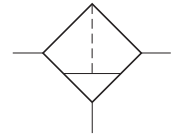


filtro separatore G1"

G1" filter-water-separator



Le staffe di fissaggio devono essere acquistate separatamente.
Mounting brackets are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: metallica

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: metal

microfiltri-depuratori

sub-micro-filters



- Elementi filtranti speciali ad altissime prestazioni
Special filter elements with very high performances
- Grado di filtrazione: 99.999%
Degree of filtration: 99.999%
- Olio residuo: 0.01 mg/m³ (concentrazione in entrata: 3 mg/m³)
Residual oil: 0.01 mg/m³ (input concentration: 3 mg/m³)
- Scarico manuale della condensa
Manual moisture exhaust
- Installazione verticale
Vertical installation
- Protezione metallica della tazza a richiesta
Metal bowl protection on request



Materiali

Corpo: alluminio pressofuso (per G1/4": polimero rinforzato)

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium (for G1/4": reinforced polymer)

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

CODICE DI ORDINAZIONE <i>ORDER CODE</i>		MFIL 2-S	MFIL 3-S	MFIL 4-S
Attacchi <i>Ports</i>		G1/4"	G3/8"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		max +50°C	max +50°C	max +50°C
Peso <i>Weight</i>		0.1 kg	0.3 kg	0.6 kg
Pressione di esercizio <i>Working pressure range</i>	p_{min} p_{max}	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Portata raccomandata <i>Recommended flow rate</i>	Q_n	125 NI/min	200 NI/min	600 NI/min
Caduta di pressione a filtro nuovo <i>Pressure drop with new filter element</i>		0.1 bar	0.1 bar	0.1 bar
Caduta di pressione a filtro saturo <i>Pressure drop with saturated filter element</i>		0.3 bar	0.3 bar	0.3 bar

microfiltri-depuratori

sub-micro-filters

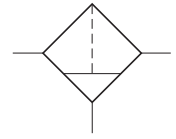
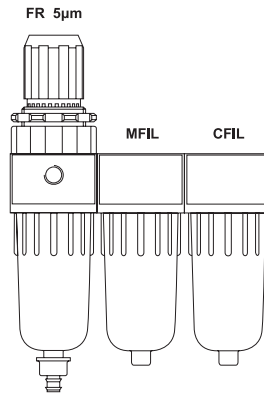


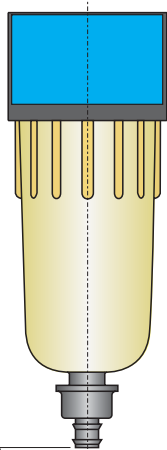
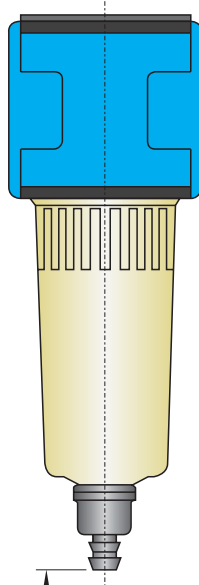
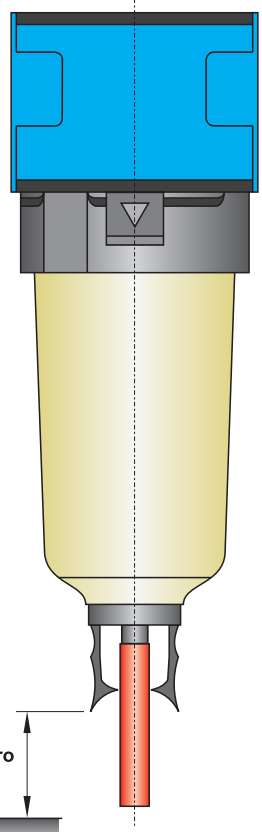
Procedura per l'installazione

Per favorire la durata degli elementi filtranti raccomandiamo di installare, in serie, un filtro-regolatore da 5 μm , un microfiltro e un filtro a carbone attivo.

Installation procedure

To increase the life span of the filter elements, we recommend the installation in the following order: filter with 5 μm degree, sub-micro-filter and activated carbon filter.



G1/4"	G3/8"	G1/2"
 <p>min 50 mm per cambio filtro min 50 mm for filter changing</p>	 <p>min 70 mm per cambio filtro min 70 mm for filter changing</p>	 <p>min 120 mm per cambio filtro min 120 mm for filter changing</p>

Per le altre dimensioni si vedano le pagine dei filtri corrispondenti (G1/4": pag. 377; G3/8": pag. 379; G1/2": pag. 381).
For other dimensions refer to the corresponding filters (G1/4": page 377; G3/8": page 379; G1/2": page 381).

filtri a carbone attivo

activated carbon filters



- Elementi filtranti speciali a carbone attivo
Activated carbon filter elements
- Olio residuo: 0.003 p.p.m. in combinazione con microfiltro
Residual oil: 0.003 p.p.m. in combination with sub-micro-filter
- Scarico manuale della condensa
Manual moisture exhaust
- Installazione verticale
Vertical installation
- Protezione metallica della tazza a richiesta
Metal bowl protection on request



Materiali

Corpo: alluminio pressofuso (per G1/4": polimero rinforzato)

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium (for G1/4": reinforced polymer)

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

CODICE DI ORDINAZIONE <i>ORDER CODE</i>		CFIL 2-S	CFIL 3-S	CFIL 4-S
Attacchi <i>Ports</i>		G1/4"	G3/8"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		max +40°C	max +40°C	max +40°C
Peso <i>Weight</i>		0.1 kg	0.3 kg	0.6 kg
Pressione di esercizio <i>Working pressure range</i>	p_{min} p_{max}	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Portata raccomandata <i>Recommended flow rate</i>	Q_n	125 NI/min	200 NI/min	600 NI/min
Caduta di pressione a filtro nuovo <i>Pressure drop with new filter element</i>		0.1 bar	0.1 bar	0.1 bar
Caduta di pressione a filtro saturo <i>Pressure drop with saturated filter element</i>		0.3 bar	0.3 bar	0.3 bar

filtri a carbone attivo

activated carbon filters

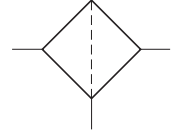
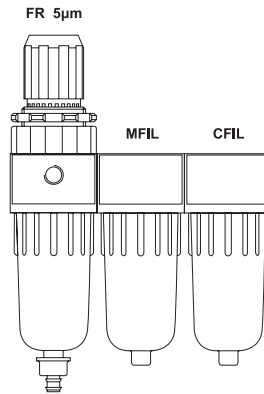


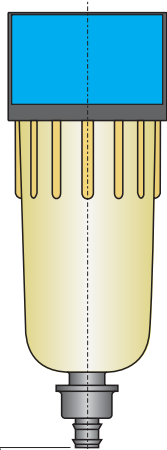
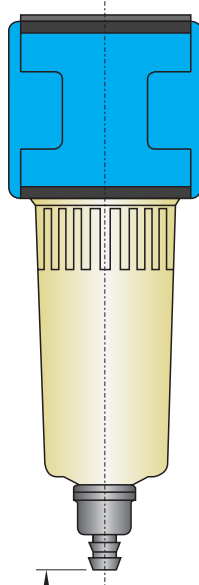
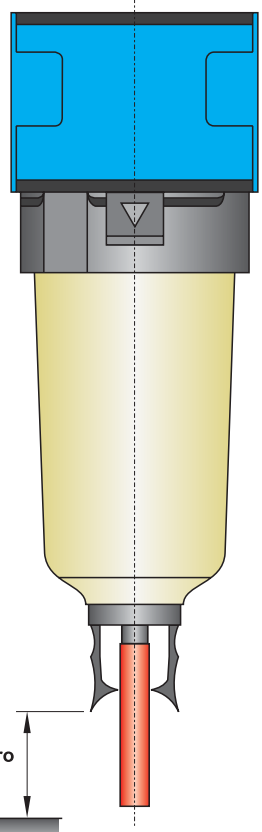
Procedura per l'installazione

Per favorire la durata degli elementi filtranti raccomandiamo di installare, in serie, un filtro-regolatore da 5 μm , un microfiltro e un filtro a carbone attivo.

Installation procedure

To increase the life span of the filter elements, we recommend the installation in the following order: filter with 5 μm degree, sub-micro-filter and activated carbon filter.



G1/4"	G3/8"	G1/2"
 <p>min 50 mm per cambio filtro min 50 mm for filter changing</p>	 <p>min 70 mm per cambio filtro min 70 mm for filter changing</p>	 <p>min 120 mm per cambio filtro min 120 mm for filter changing</p>

Per le altre dimensioni si vedano le pagine dei filtri corrispondenti (G1/4": pag. 377; G3/8": pag. 379; G1/2": pag. 381).
For other dimensions refer to the corresponding filters (G1/4": page 377; G3/8": page 379; G1/2": page 381).

mini-regolatore di pressione

mini pressure regulator

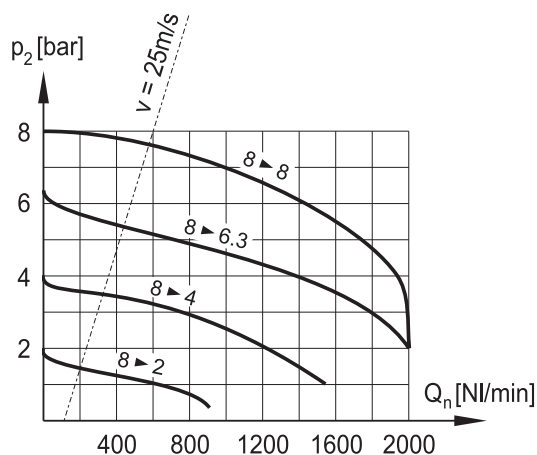


- Regolatore a pistone con valvola di scarico sovrappressione (relieving)
Piston-type pressure regulator with relieving
- Autocompensazione durante la regolazione
Self-compensated regulation
- Corpo in alluminio 11S
Body in aluminium 11S
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello
In-line or panel mounting

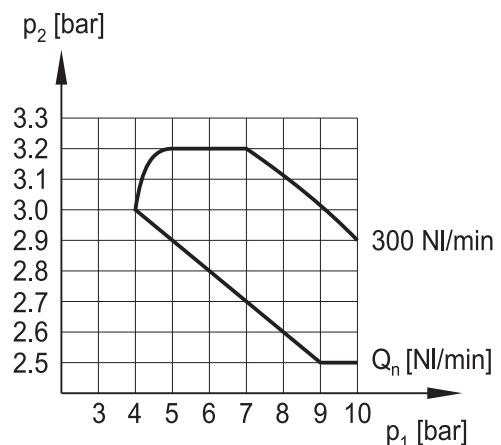


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		MREG 1-08	MREG 2-08	MREG 2-04
Attacchi <i>Ports</i>		G1/8"	G1/4"	G1/4"
Temperatura di esercizio <i>Temperature range</i>		max +50°C	max +50°C	max +50°C
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 4 bar; 0.4 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6	1.6 0.6	1.6 0.6
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	300 NI/min	550 NI/min

Caratteristiche di portata (MREG 2-08)
Flow characteristics (MREG 2-08)



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione (MREG 2-08)
Outlet pressure variation with fluctuating inlet pressure (MREG 2-08)

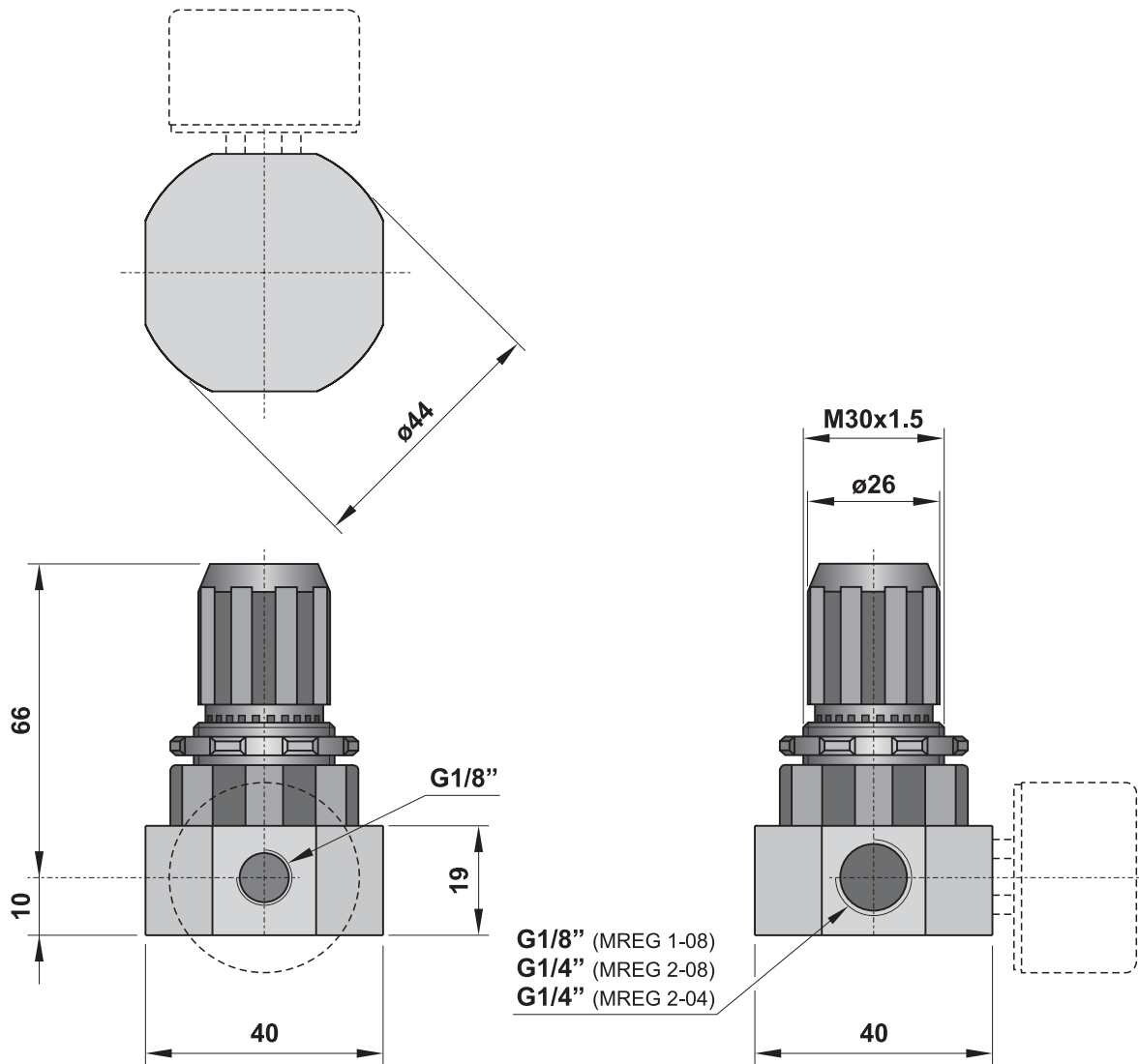
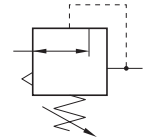


mini-regolatore di pressione

mini pressure regulator



Il manometro deve essere acquistato separatamente.
The manometer is bought separately.



Materiali

Corpo: alluminio 11S anodizzato naturale

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Materials

Body: aluminium 11S (natural anodize treatment)

Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

regolatore di pressione G1/4"

G1/4" pressure regulator

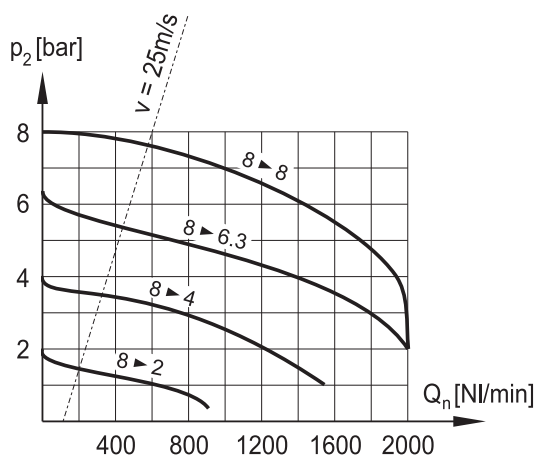


- Regolatore a pistone con valvola di scarico sovrappressione (relieving)
Piston-type pressure regulator with relieving
- Autocompensazione durante la regolazione
Self-compensated regulation
- Alte prestazioni
High performance
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffa di fissaggio a richiesta (cod. STF 2)
In-line or panel mounting; bracket on request (code STF 2)

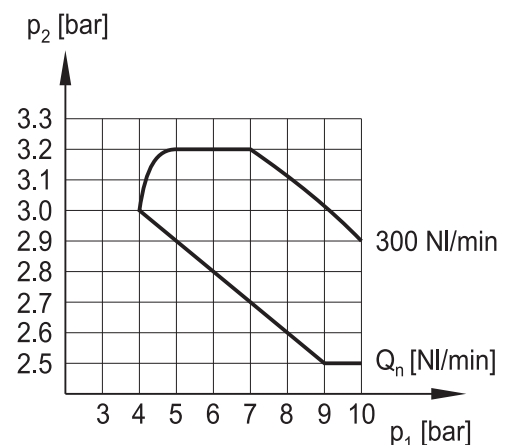


CODICE DI ORDINAZIONE ORDER CODE		REG 2-08	REG 2-04
Attacchi <i>Ports</i>		G1/4"	G1/4"
Temperatura di esercizio <i>Temperature range</i>		max +50°C	max +50°C
Peso <i>Weight</i>		0.11 kg	0.11 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 4 bar; 0.4 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6	1.6 0.6
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	Q_n
		550 NI/min	550 NI/min

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

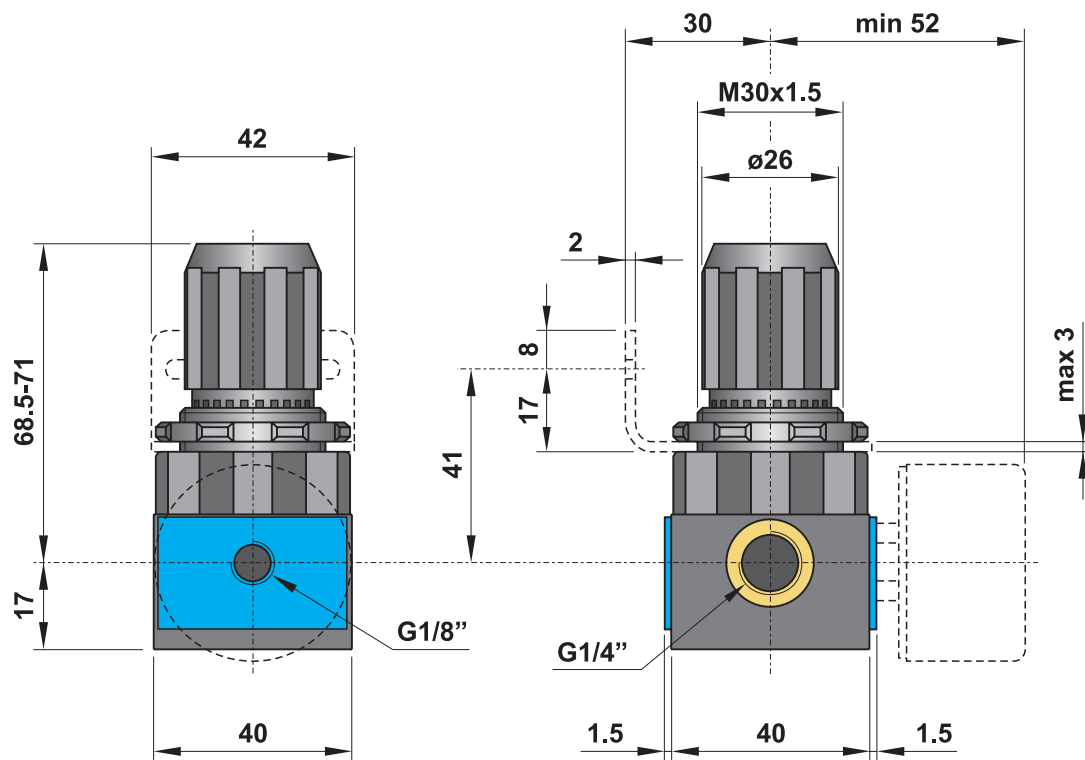
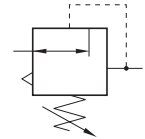


regolatore di pressione G1/4"

G1/4" pressure regulator



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: polimero rinforzato con inserti filettati in ottone

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Materials

Body: reinforced polymer with brass thread inserts

Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

regolatore di pressione G1/4" - SR

G1/4" pressure regulator with exhaust by-pass

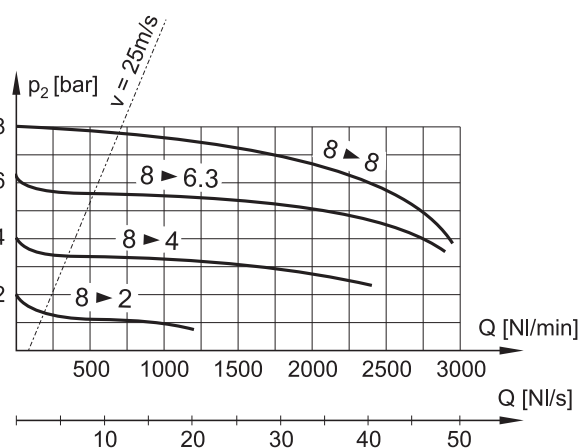


- Regolatore a membrana con sistema by-pass di scarico
Diaphragm-type pressure regulator with exhaust by-pass system
- Autocompensazione durante la regolazione
Self-compensated regulation
- Elevata portata
High flow rate
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffa di fissaggio a richiesta (cod. STF 3 o STF 3A)
In-line or panel mounting; bracket on request (code STF 3 or STF 3A)

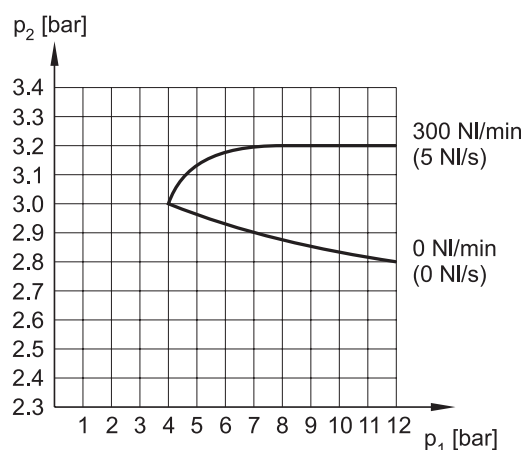


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		REG 2-08-SR	
Attacchi <i>Ports</i>		G1/4"	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Peso <i>Weight</i>		0.3 kg	
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa	
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.5 0.4	
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	500 NI/min
Portata massima <i>Maximum flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{\max}	1000 NI/min

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

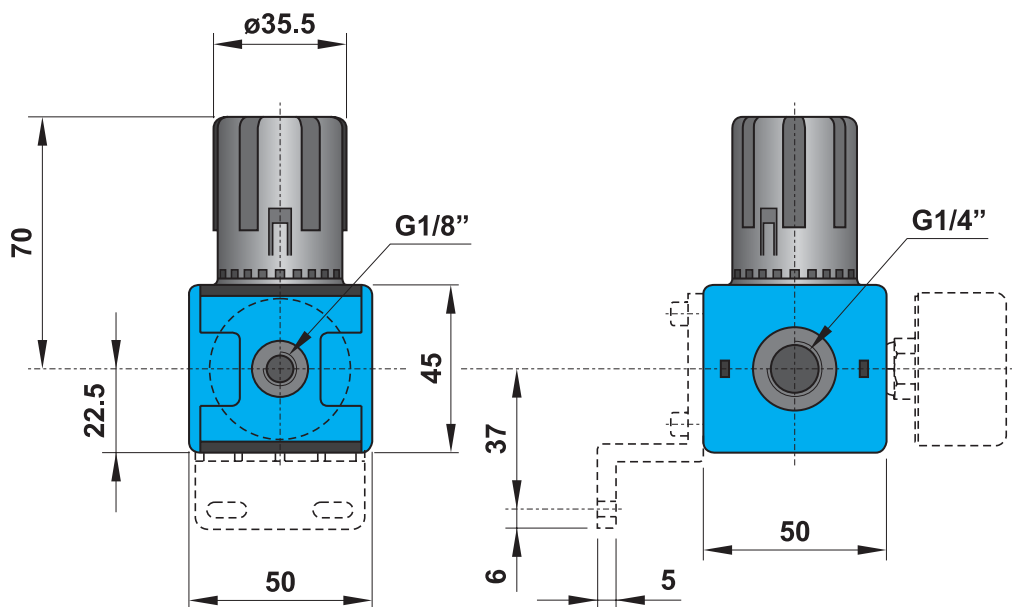
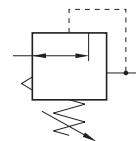


regolatore di pressione G1/4" - SR

G1/4" pressure regulator with exhaust by-pass

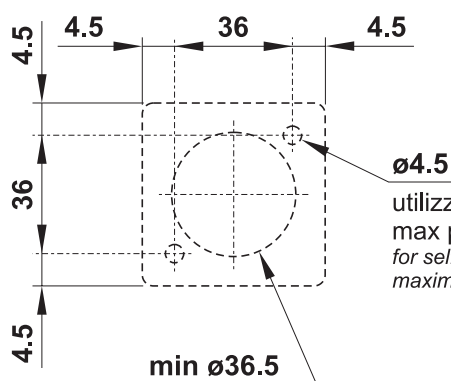


La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



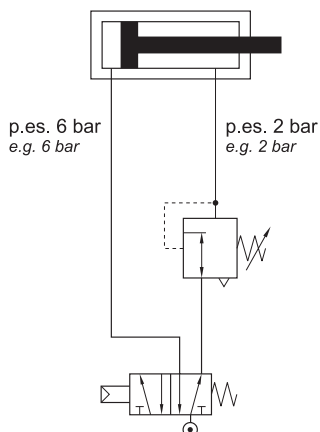
Dimensione fori per montaggio a pannello

Hole dimensions for panel mounting



utilizzare viti autofilettanti M4
max prof. del filetto: 10 mm
for self-tapping screw M4
maximum thread depth: 10 mm

schema applicativo application sketch



Nel circuito qui raffigurato il regolatore fa sì che l'aria in scarico proveniente dal cilindro giunga direttamente alla valvola, consentendo così un movimento alla massima pressione e velocità. L'aria necessaria alla corsa di ritorno è invece regolata a una pressione inferiore e permette un movimento più lento.

In the shown diagram, the pressure from the cylinder exhaust uses the full cross-section of the valve, allowing the cylinder to travel at full speed. In the opposite direction the air pressure is regulated at a lower level and allows a slower movement.

Materiali

Corpo: alluminio pressofuso
Molle: INOX
Guarnizioni: NBR
Parti interne: ottone e INOX
Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium
Springs: stainless steel
Seals: NBR
Internal parts: brass and stainless steel
External parts: reinforced polymer

regolatore di pressione G3/8"

G3/8" pressure regulator



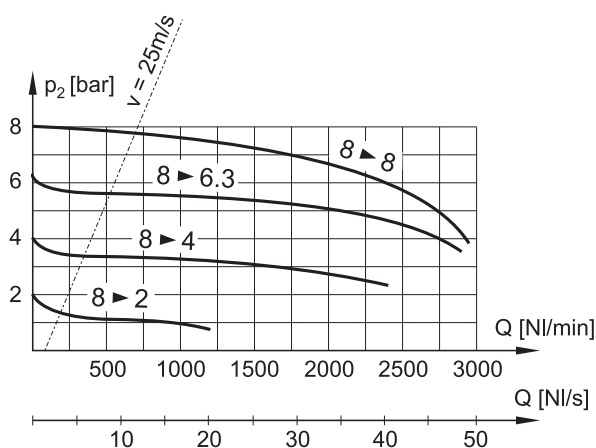
- Regolatore a membrana con valvola di scarico sovrappressione (relieving)
Diaphragm-type pressure regulator with relieving
- Autocompensazione durante la regolazione
Self-compensated regulation
- Elevata portata
High flow rate
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffa di fissaggio a richiesta (cod. STF 3 o STF 3A)
In-line or panel mounting; bracket on request (code STF 3 or STF 3A)



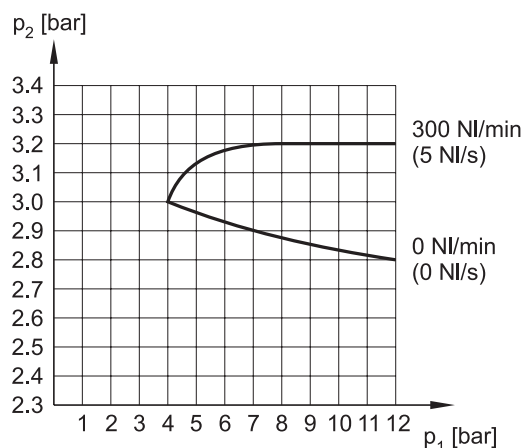
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		REG 3-08	
Attacchi <i>Ports</i>		G3/8"	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Peso <i>Weight</i>		0.3 kg	
Pressione di alimentazione <i>Inlet pressure range</i>		$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>		$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>		$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>		$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.5 0.4
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	850 NI/min
Portata massima <i>Maximum flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{\max}	3300 NI/min

5

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

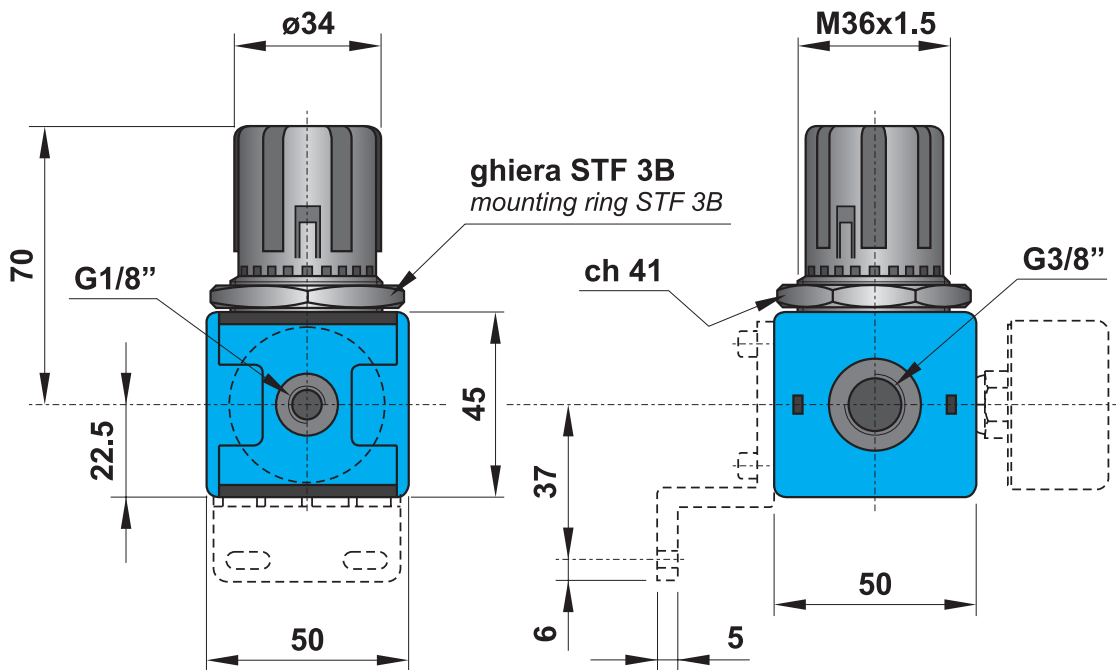
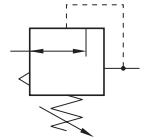


regolatore di pressione G3/8"

G3/8" pressure regulator

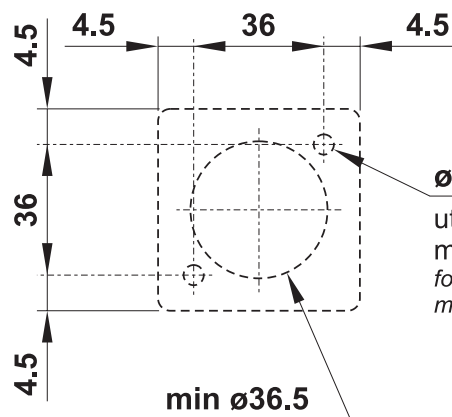


La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Dimensione fori per montaggio a pannello

Hole dimensions for panel mounting



Ø4.5

utilizzare viti autofilettanti M4
max prof. del filetto: 10 mm
for self-tapping screw M4
maximum thread depth: 10 mm

Materiali

Corpo: alluminio pressofuso

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Springs: stainless steel

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

regolatore di pressione G1/2"

G1/2" pressure regulator

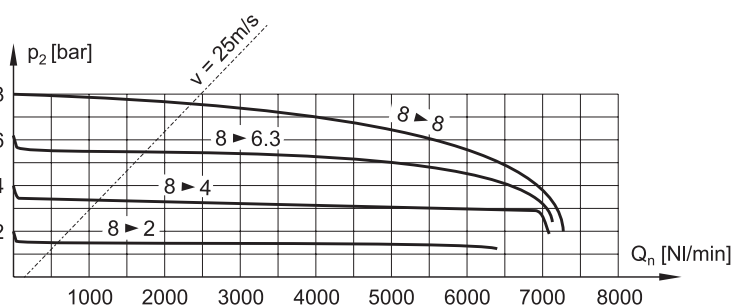


- Regolatore a membrana con valvola di scarico sovrappressione (relieving)
Diaphragm-type pressure regulator with relieving
- Autocompensazione durante la regolazione
Self-compensated regulation
- Elevata portata
High flow rate
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffa di fissaggio a richiesta (cod. STF 4)
In-line or panel mounting; bracket on request (code STF 4)

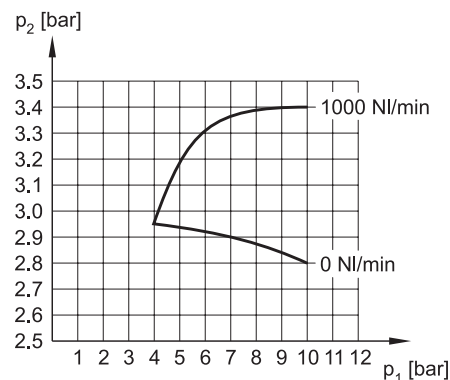


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		REG 4-08	
Attacchi <i>Ports</i>		G1/2"	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Peso <i>Weight</i>		0.55 kg	
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 16 bar; 1.6 MPa	
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa	
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7	
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	1900 NI/min
Portata massima <i>Maximum flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{max}	5700 NI/min

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

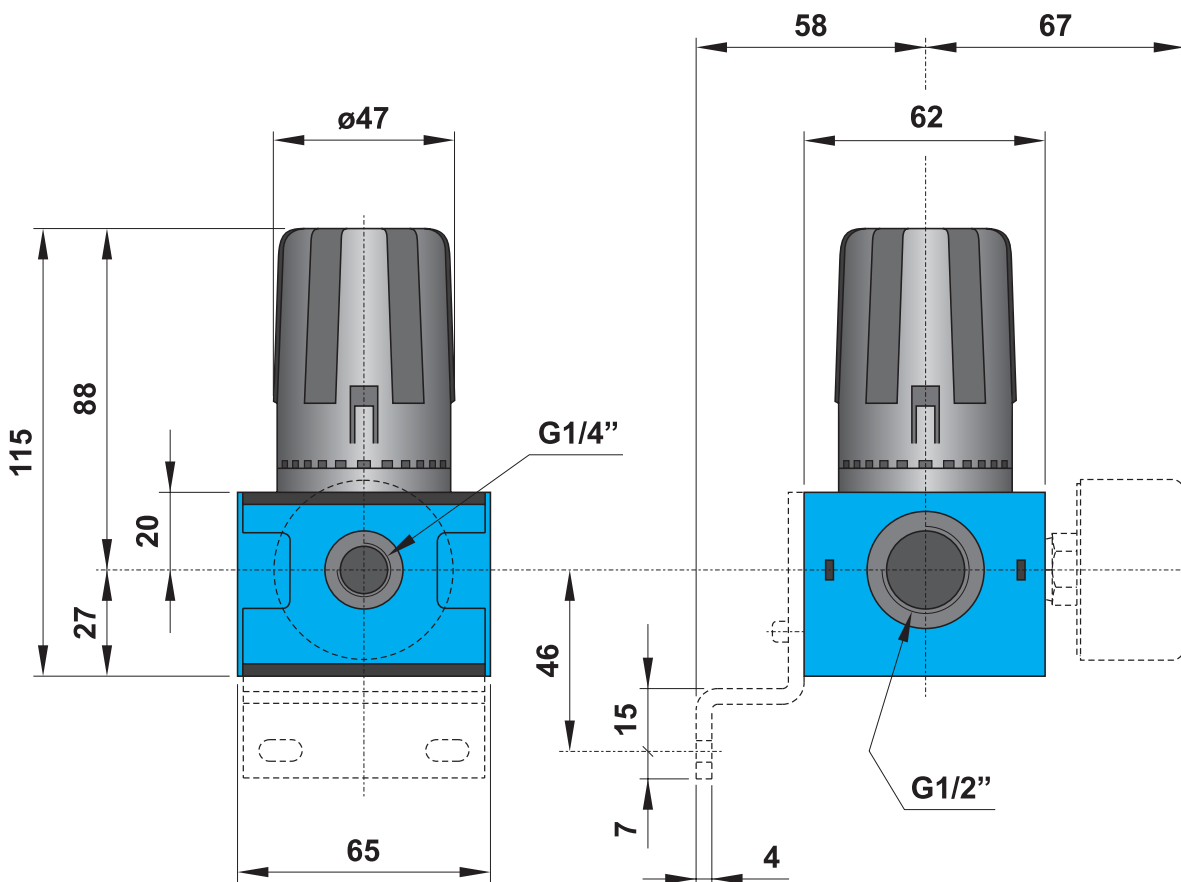
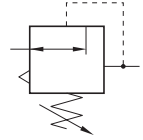


regolatore di pressione G1/2"

G1/2" pressure regulator



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Springs: stainless steel

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

regolatore di pressione G1"

G1" pressure regulator

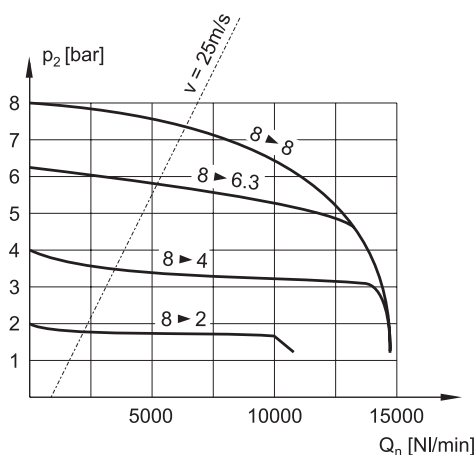


- Regolatore a membrana con valvola di scarico sovrappressione (relieving)
Diaphragm-type pressure regulator with relieving
- Autocompensazione durante la regolazione
Self-compensated regulation
- Elevata portata
High flow rate
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffe di fissaggio a richiesta (cod. STF 6)
In-line or panel mounting; brackets on request (code STF 6)

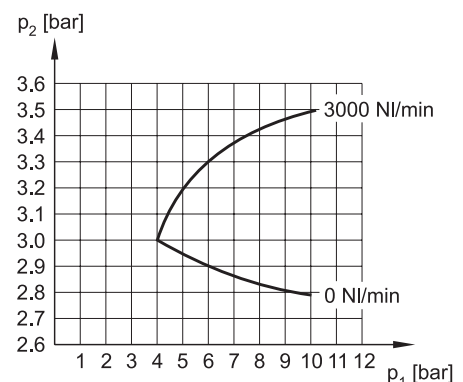


CODICE DI ORDINAZIONE ORDER CODE		REG 6-10	
Attacchi <i>Ports</i>		G1"	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Peso <i>Weight</i>		1.8 kg	
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 10 bar; 1 MPa	
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa	
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.6 0.2	
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	5000 NI/min
Portata massima <i>Maximum flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{\max}	13500 NI/min

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

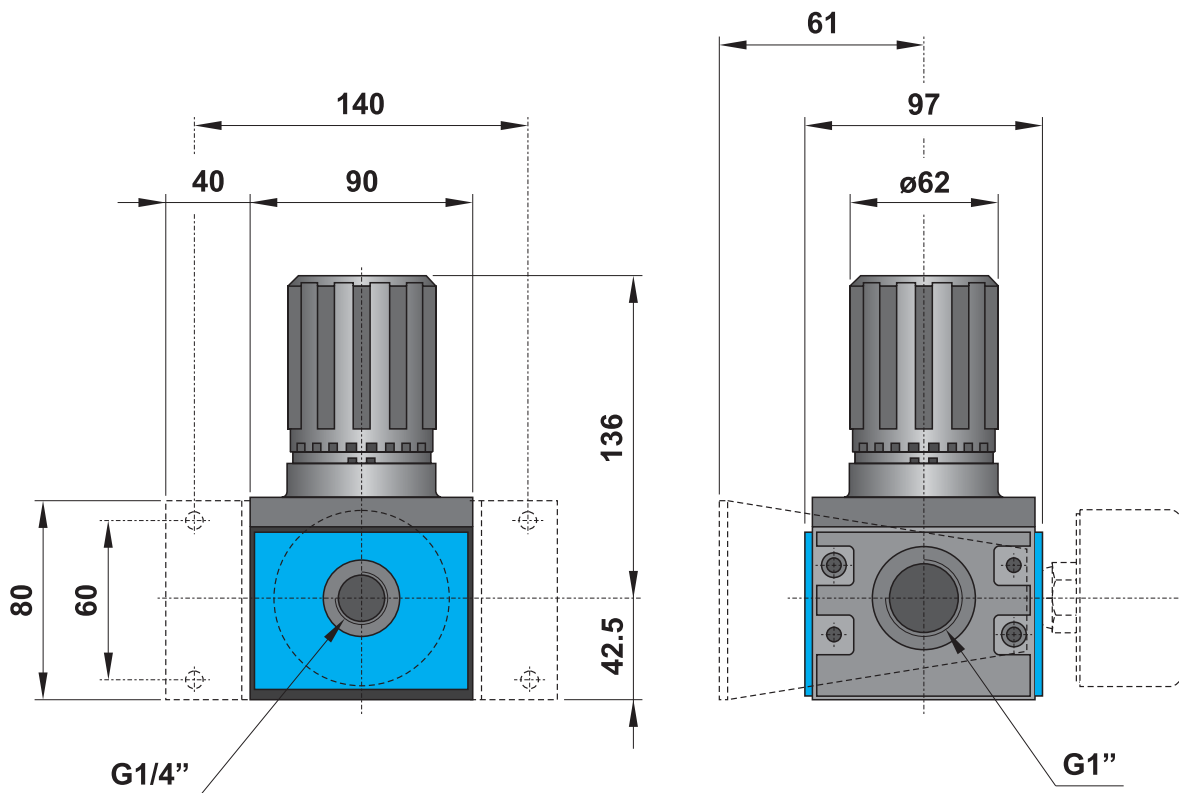
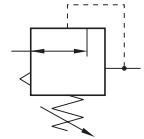


regolatore di pressione G1"

G1" pressure regulator



Le staffe di fissaggio e il manometro devono essere acquistati separatamente.
Mounting brackets and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Springs: stainless steel

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

lubrificatore G1/4"

G1/4" lubricator

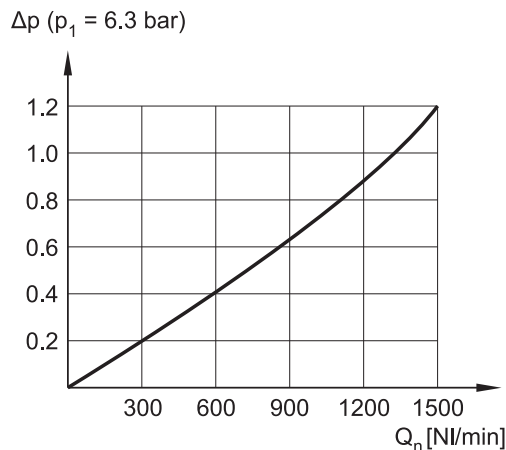


- Lubrificatore venturi con compensazione automatica della portata
Oil mist lubricator with flow compensation
- Il numero di gocce al minuto è costante
Number of drops per minute is constant
- Bassa portata di inserzione
Low start flow rate
- Capacità tazza: 35 cm³
Bowl capacity: 35 cm³
- Rifornimento olio manuale
Manual oil refilling
- Protezione in plastica della tazza a richiesta (cod. PR 2-00)
Plastic bowl protection on request (code PR 2-00)
- Installazione verticale
Vertical installation

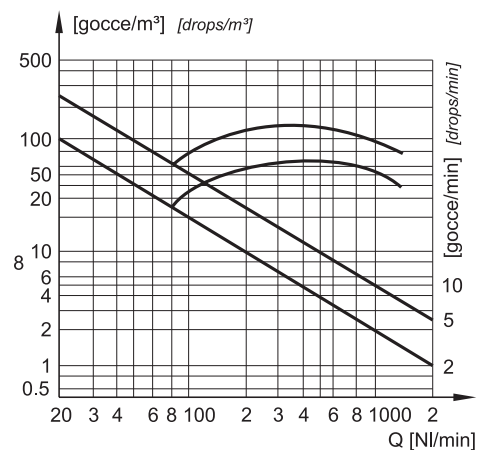


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		LUB 2-00	
Attacchi <i>Ports</i>		G1/4"	
Temperatura di esercizio <i>Temperature range</i>		max +50°C	
Peso <i>Weight</i>		0.09 kg	
Pressione di esercizio <i>Working pressure range</i>		P_{min}	0 bar; 0 MPa
		P_{max}	10 bar; 1 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6.3 \text{ bar a } 25 \text{ m/s}$ $p = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	550 NI/min

Caratteristiche di portata
Flow characteristics

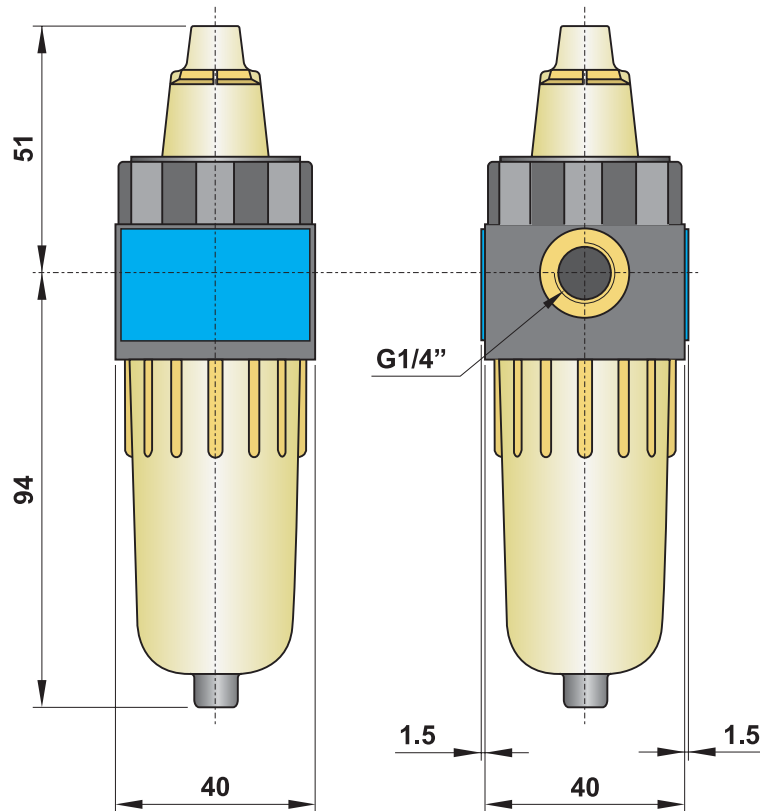
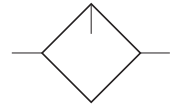


Rapporto olio/aria
Oil/air ratio

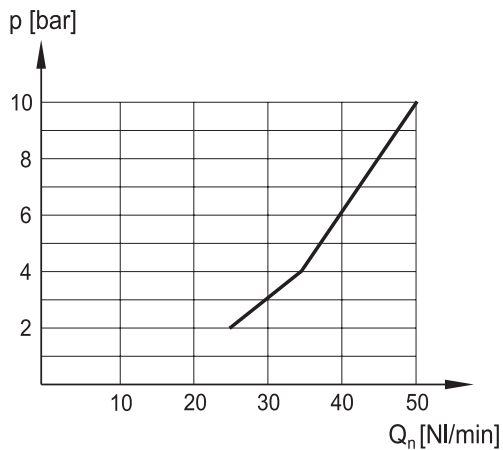


lubrificatore G1/4"

G1/4" lubricator



Condizioni minime di operatività
Minimum operating conditions



Materiali

Corpo: polimero rinforzato con inserti filettati in ottone

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Tazza: policarbonato rinforzato

Materials

Body: reinforced polymer with brass thread inserts

Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

Bowl: reinforced polycarbonate

Lubrificatore G3/8"

G3/8" lubricator

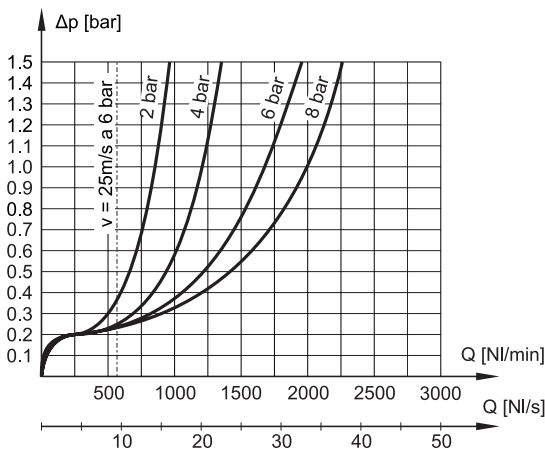


- Lubrificatore venturi con compensazione automatica della portata
Oil mist lubricator with flow compensation
- Il numero di gocce al minuto è costante
Number of drops per minute is constant
- Capacità tazza: 45 cm³
Bowl capacity: 45 cm³
- Rifornimento olio manuale
Manual oil refilling
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 3)
Vertical installation; bracket on request (code STF 3)
- Protezione metallica della tazza a richiesta (cod. PR 3-00)
Metal bowl protection on request (code PR 3-00)

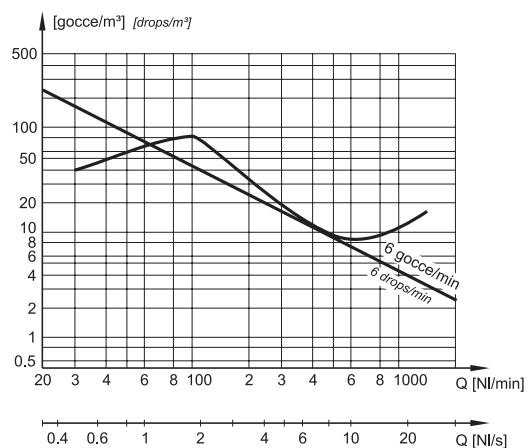


CODICE DI ORDINAZIONE ORDER CODE		LUB 3-00	
Attacchi <i>Ports</i>		G3/8"	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Peso <i>Weight</i>		0.25 kg	
Pressione di esercizio <i>Working pressure range</i>		p_{min} p_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	850 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{max}	1880 NI/min

Caratteristiche di portata
Flow characteristics



Rapporto olio/aria
Oil/air ratio

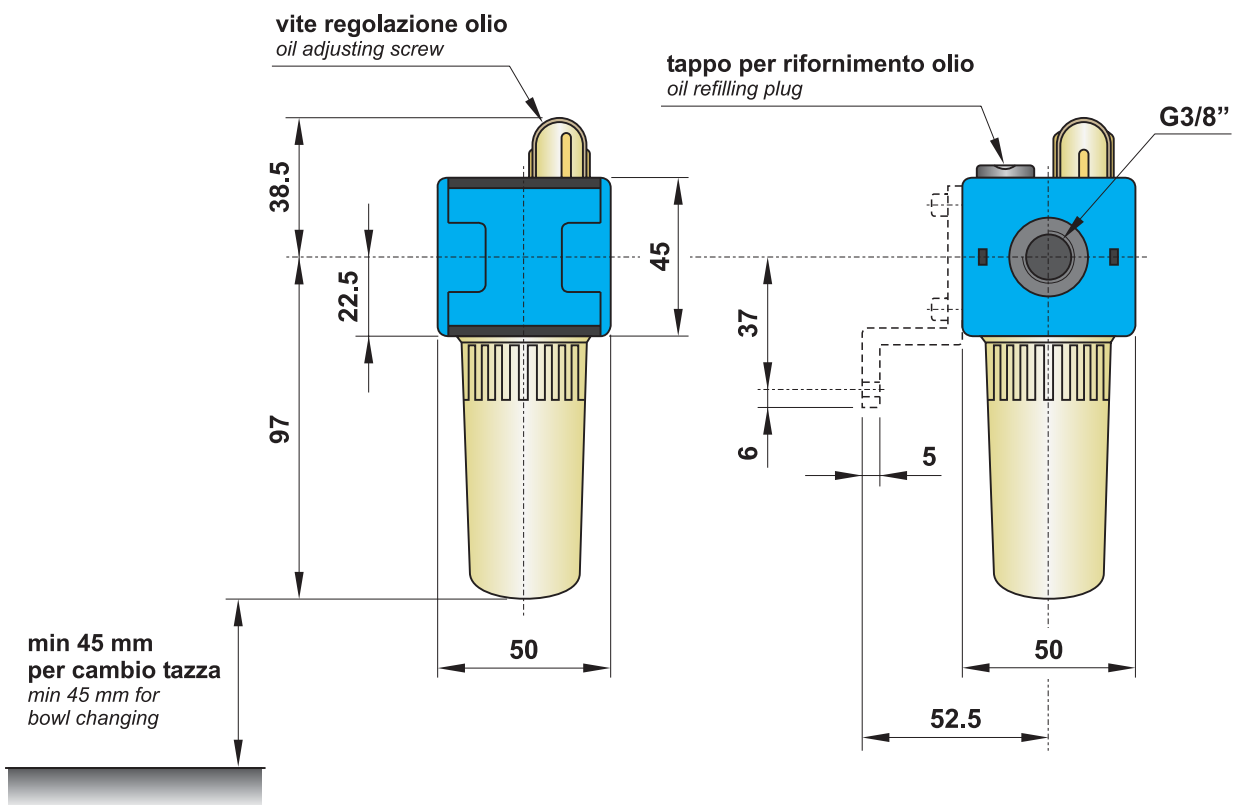
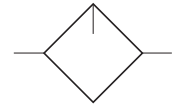


lubrificatore G3/8"

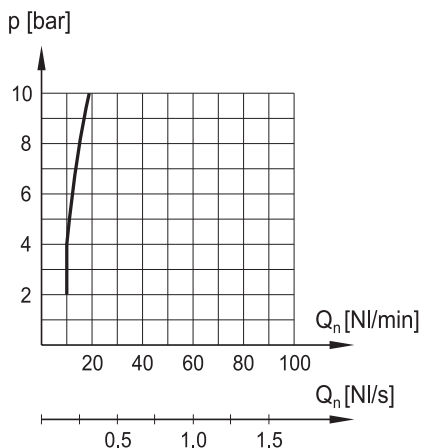
G3/8" lubricator



La staffa di fissaggio deve essere acquistata separatamente.
 Mounting bracket is bought separately.



Condizioni minime di operatività
 Minimum operating conditions



Materiali

- Corpo: alluminio pressofuso
- Guarnizioni: NBR
- Parti interne: ottone e INOX
- Parti esterne: polimeri rinforzati
- Tazza: policarbonato rinforzato

Materials

- Body: die-cast aluminium
- Seals: NBR
- Internal parts: brass and stainless steel
- External parts: reinforced polymer
- Bowl: reinforced polycarbonate

Lubrificatore G1/2"

G1/2" lubricator

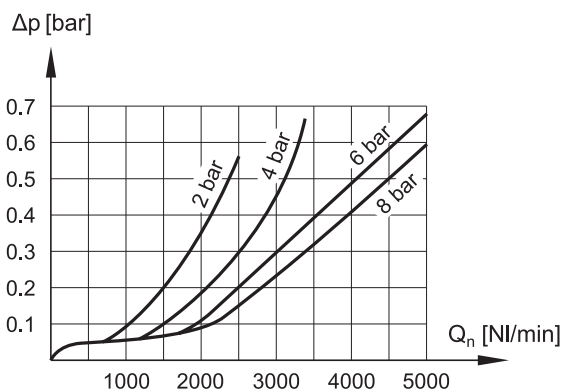


- Lubrificatore venturi con compensazione automatica della portata
Oil mist lubricator with flow compensation
- Il numero di gocce al minuto è costante
Number of drops per minute is constant
- Capacità tazza: 112 cm³
Bowl capacity: 112 cm³
- Rifornimento olio manuale
Manual oil refilling
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4)
Vertical installation; bracket on request (code STF 4)
- Protezione metallica della tazza a richiesta (cod. PR 4-00)
Metal bowl protection on request (code PR 4-00)

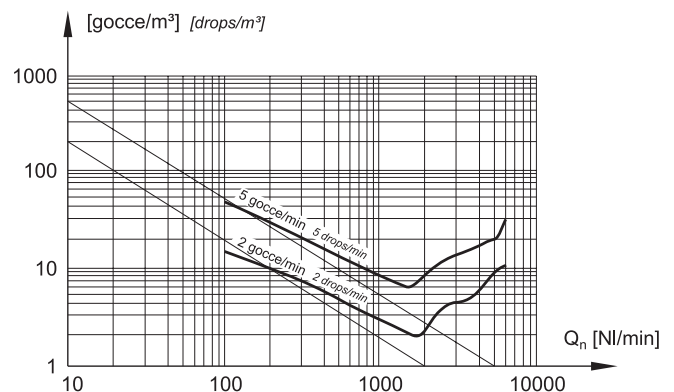


CODICE DI ORDINAZIONE ORDER CODE		LUB 4-00	
Attacchi <i>Ports</i>		G1/2"	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Peso <i>Weight</i>		0.55 kg	
Pressione di esercizio <i>Working pressure range</i>		p_{min}	0 bar; 0 MPa
		p_{max}	16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	1900 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{max}	5300 NI/min

Caratteristiche di portata
Flow characteristics



Rapporto olio/aria
Oil/air ratio

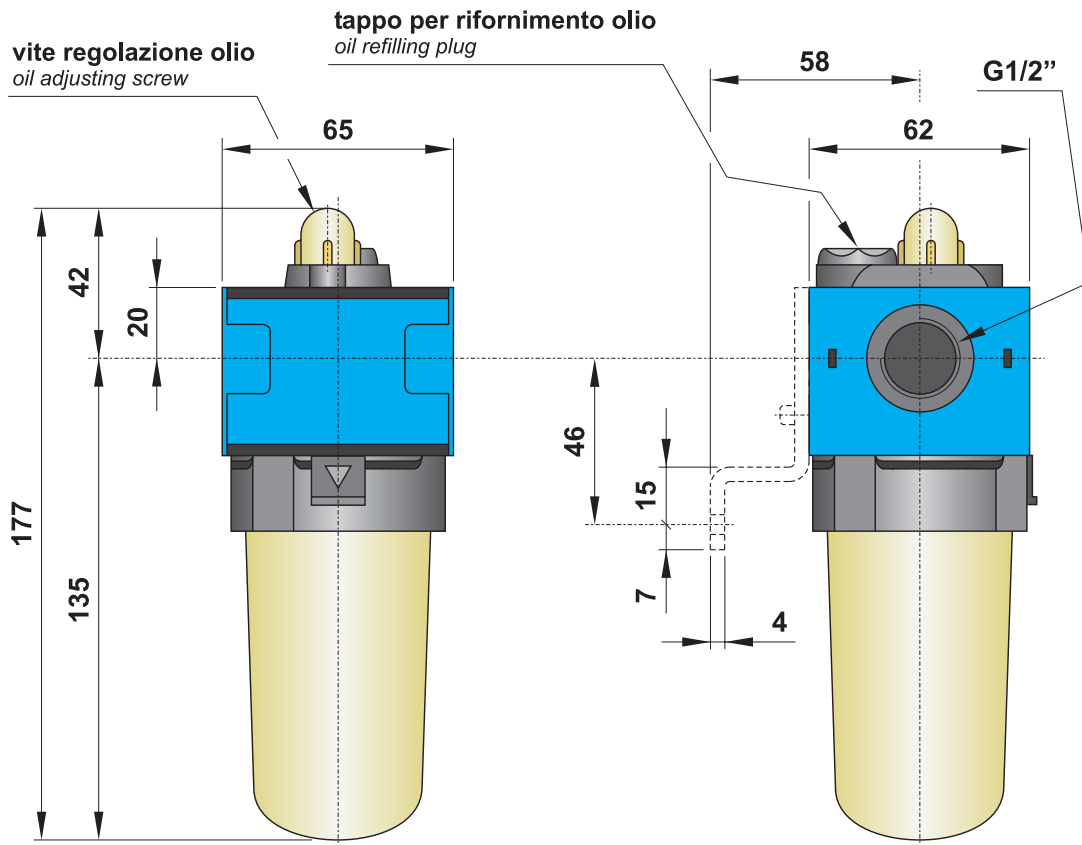
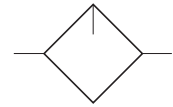


lubrificatore G1/2"

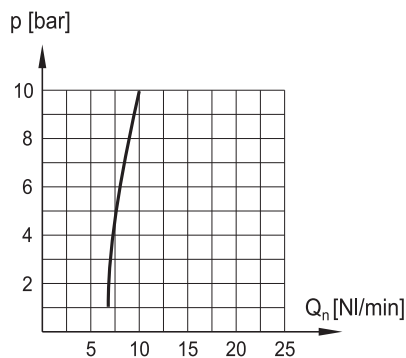
G1/2" lubricator



La staffa di fissaggio deve essere acquistata separatamente.
Mounting bracket is bought separately.



Condizioni minime di operatività
Minimum operating conditions



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

Lubrificatore G1"

G1" lubricator

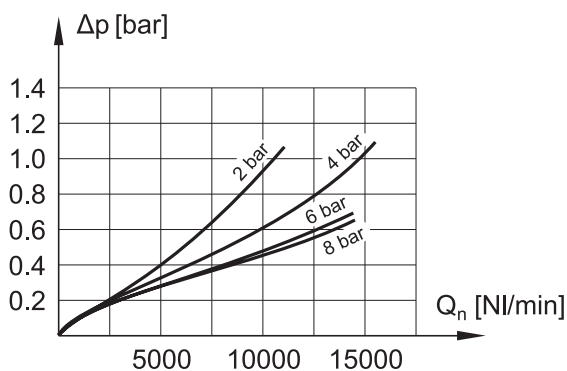


- Lubrificatore venturi con compensazione automatica della portata
Oil mist lubricator with flow compensation
- Il numero di gocce al minuto è costante
Number of drops per minute is constant
- Capacità tazza: 500 cm³
Bowl capacity: 500 cm³
- Rifornimento olio manuale
Manual oil refilling
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6)
Vertical installation; brackets on request (code STF 6)
- Tazza metallica
Metal bowl

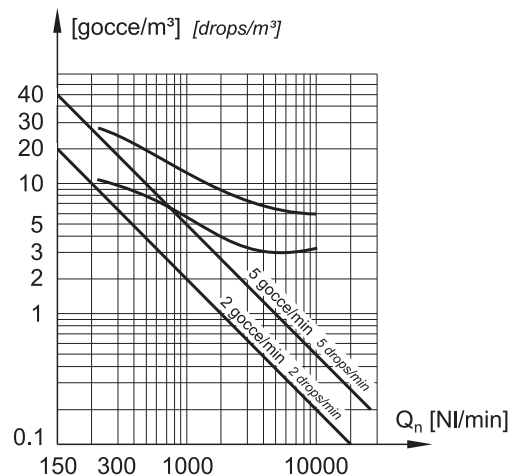


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		LUB 6-00	
Attacchi <i>Ports</i>		G1"	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Peso <i>Weight</i>		1.6 kg	
Pressione di esercizio <i>Working pressure range</i>		p_{min}	0 bar; 0 MPa
		p_{max}	10 bar; 1 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	5000 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{nmax}	18000 NI/min

Caratteristiche di portata
Flow characteristics



Rapporto olio/aria
Oil/air ratio

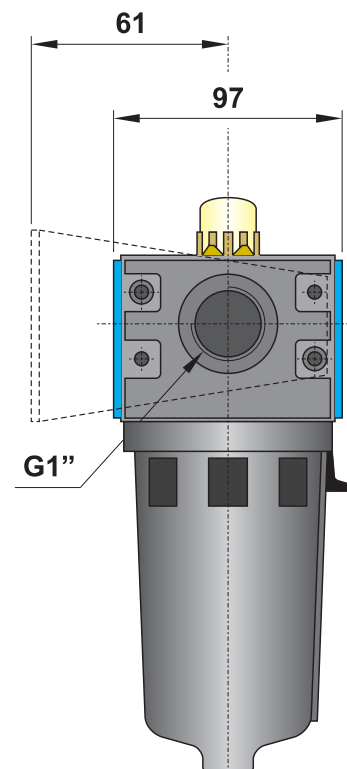
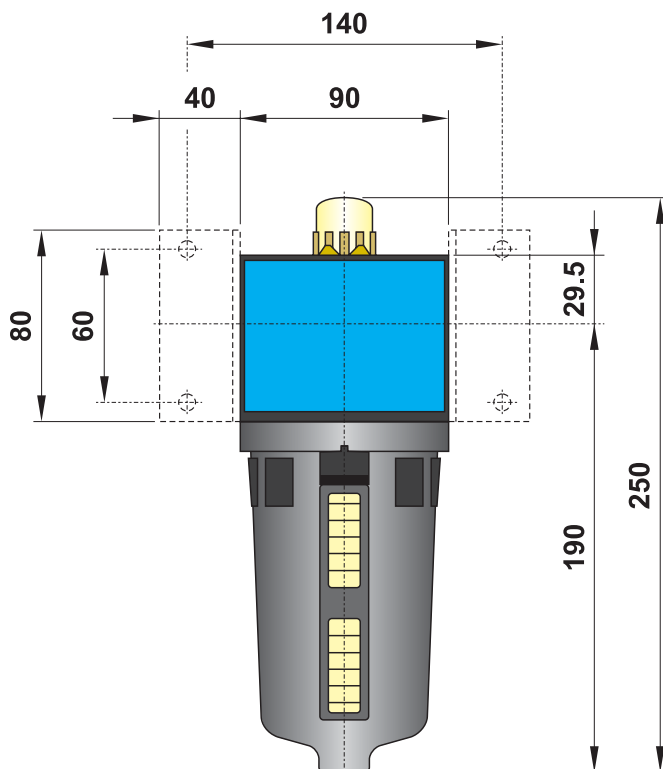
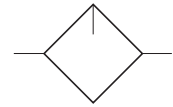


Ibrificatore G1"

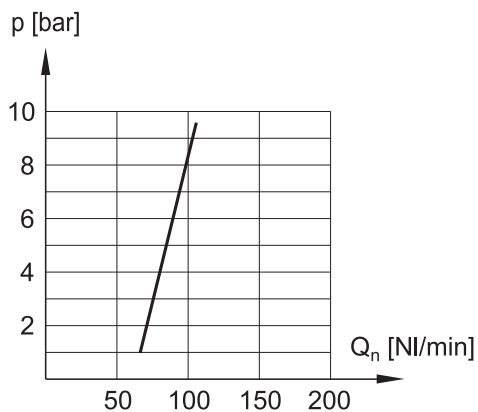
G1" lubricator



Le staffe di fissaggio devono essere acquistate separatamente.
Mounting brackets are bought separately.



Condizioni minime di operatività
Minimum operating conditions



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: metallica

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: metal

filtratore regolatore G1/4"

G1/4" filter-regulator



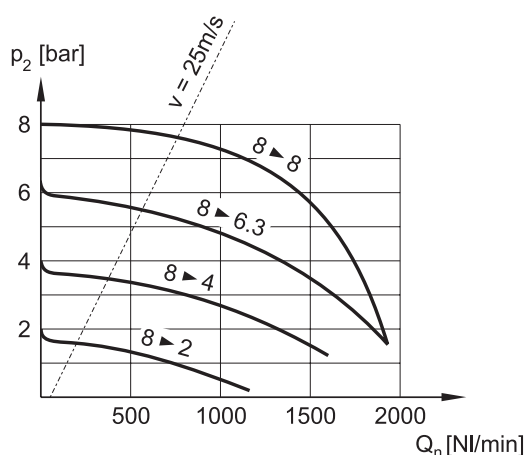
- Sistema di funzionamento: gruppo ciclone ed elemento filtrante, combinato con regolatore di pressione a pistone dotato di valvola di scarico sovrappressione (relieving)
Cyclone system and filter element, combined with piston-type pressure regulator (with relieving)
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa
Semi-automatic moisture exhaust
- Capacità della tazza: 12 cm³; protezione in plastica a richiesta (cod. PR 2-00)
Bowl capacity: 12 cm³; plastic bowl protection on request (code PR 2-00)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 2)
Vertical installation; bracket on request (code STF 2)



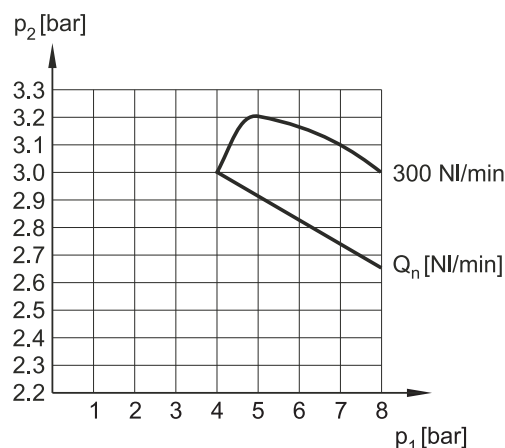
CODICE DI ORDINAZIONE ORDER CODE		FR 2-08-25-S	FR 2-08-05-S
Attacchi Ports		G1/4"	G1/4"
Temperatura di esercizio Temperature range		max +50°C	max +50°C
Peso Weight		0.12 kg	0.12 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6	1.6 0.6
Portata raccomandata Recommended flow rate	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	Q_n
Elemento filtrante Filter element		25 μm	5 μm

5

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

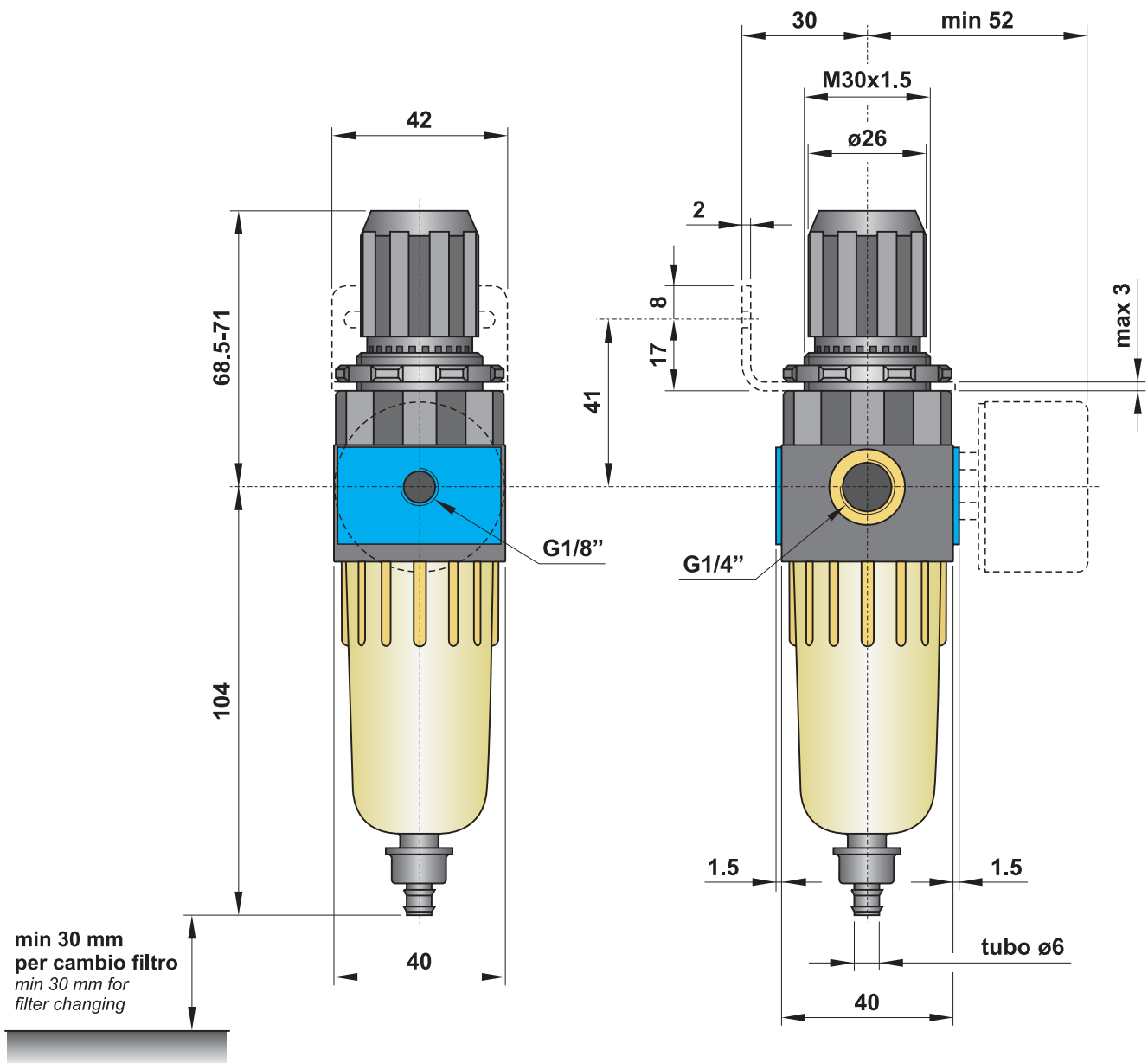
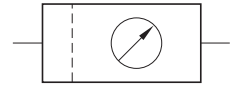


filtratore regolatore G1/4"

G1/4" filter-regulator



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: polimero rinforzato con inserti filettati in ottone

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Tazza: policarbonato rinforzato

Materials

Body: reinforced polymer with brass thread inserts

Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

Bowl: reinforced polycarbonate

filtratore regolatore G3/8"

G3/8" filter-regulator



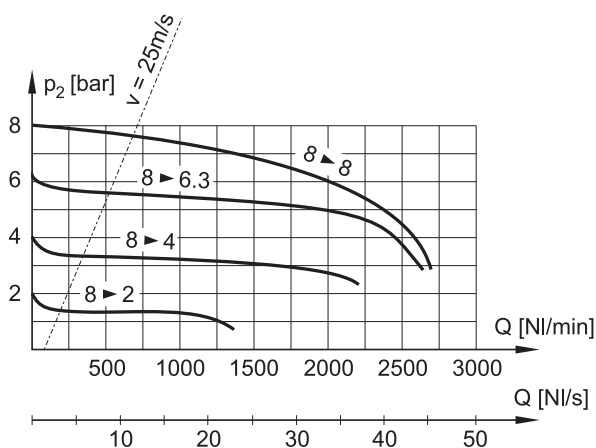
- Sistema di funzionamento: gruppo ciclone ed elemento filtrante, combinato con regolatore di pressione a diaframma dotato di valvola di scarico sovrappressione (relieving)
Cyclone system and filter element, combined with diaphragm-type pressure regulator (with relieving)
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa; automatico a richiesta
Semi-automatic moisture exhaust; automatic on request
- Capacità della tazza: 22 cm³; protezione metallica della tazza a richiesta (cod. PR 3-00)
Bowl capacity: 22 cm³; metal bowl protection on request (code PR 3-00)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 3 o STF 3A)
Vertical installation; bracket on request (code STF 3 or STF 3A)



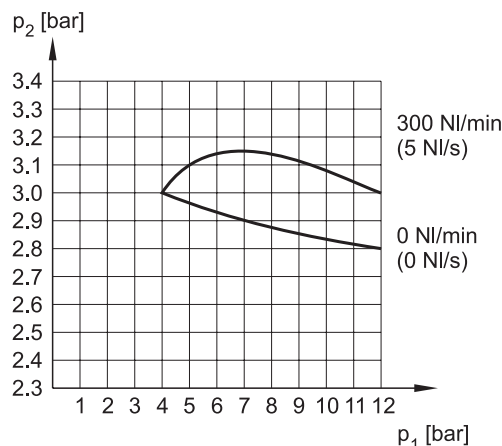
CODICE DI ORDINAZIONE ORDER CODE		FR 3-08-30-S	FR 3-08-05-S
Attacchi Ports		G3/8"	G3/8"
Temperatura di esercizio Temperature range		max +50°C	max +50°C
Peso Weight		0.35 kg	0.35 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.5 0.4	0.5 0.4
Portata raccomandata Recommended flow rate	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	Q_n
Elemento filtrante Filter element		30 μm	5 μm

5

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

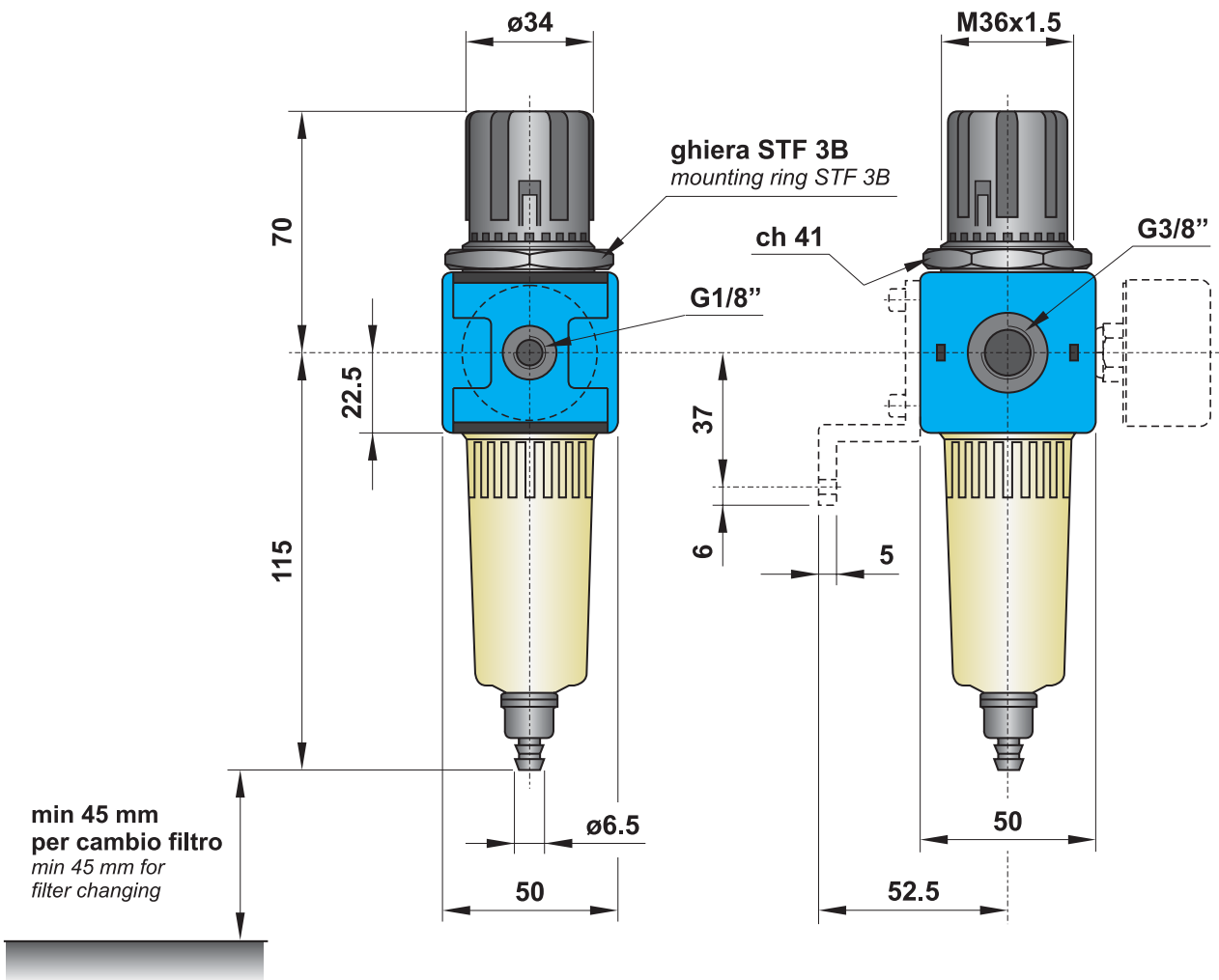
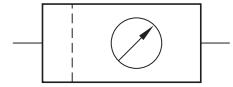


filtratore regolatore G3/8"

G3/8" filter-regulator



La staffa di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting bracket, ring and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

filtratore regolatore G1/2"

G1/2" filter-regulator

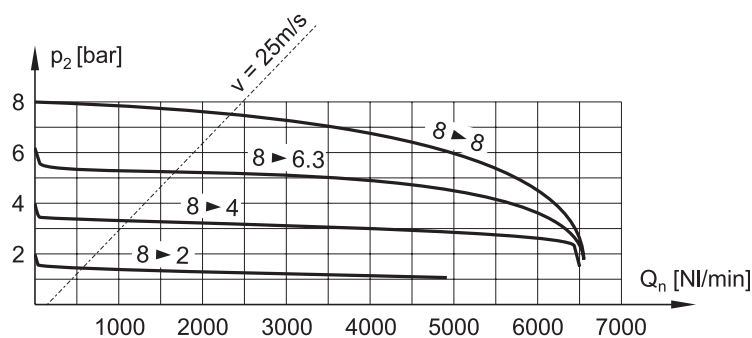


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante, combinato con regolatore di pressione a diaframma dotato di valvola di scarico sovrappressione (relieving)
Cyclone system and filter element, combined with diaphragm-type pressure regulator (with relieving)
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico semiautomatico della condensa; automatico a richiesta
Semi-automatic moisture exhaust; automatic on request
- Capacità della tazza: 57 cm³; protezione metallica della tazza a richiesta (cod. PR 4-00)
Bowl capacity: 57 cm³; metal bowl protection on request (code PR 4-00)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4)
Vertical installation; bracket on request (code STF 4)

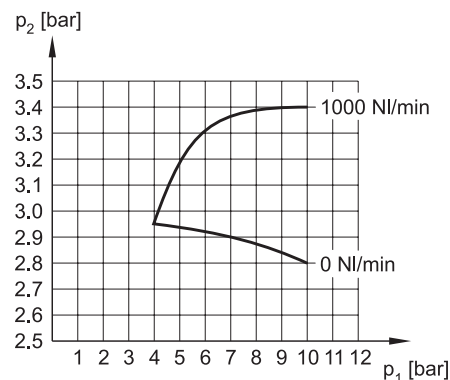


CODICE DI ORDINAZIONE ORDER CODE		FR 4-08-30-S	FR 4-08-05-S
Attacchi Ports		G1/2"	G1/2"
Temperatura di esercizio Temperature range		max +50°C	max +50°C
Peso Weight		0.75 kg	0.75 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7	0.9 0.7
Portata raccomandata Recommended flow rate	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n 1900 NI/min (max 3300 NI/min)	1900 NI/min (max 3300 NI/min)
Elemento filtrante Filter element		30 μm	5 μm

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

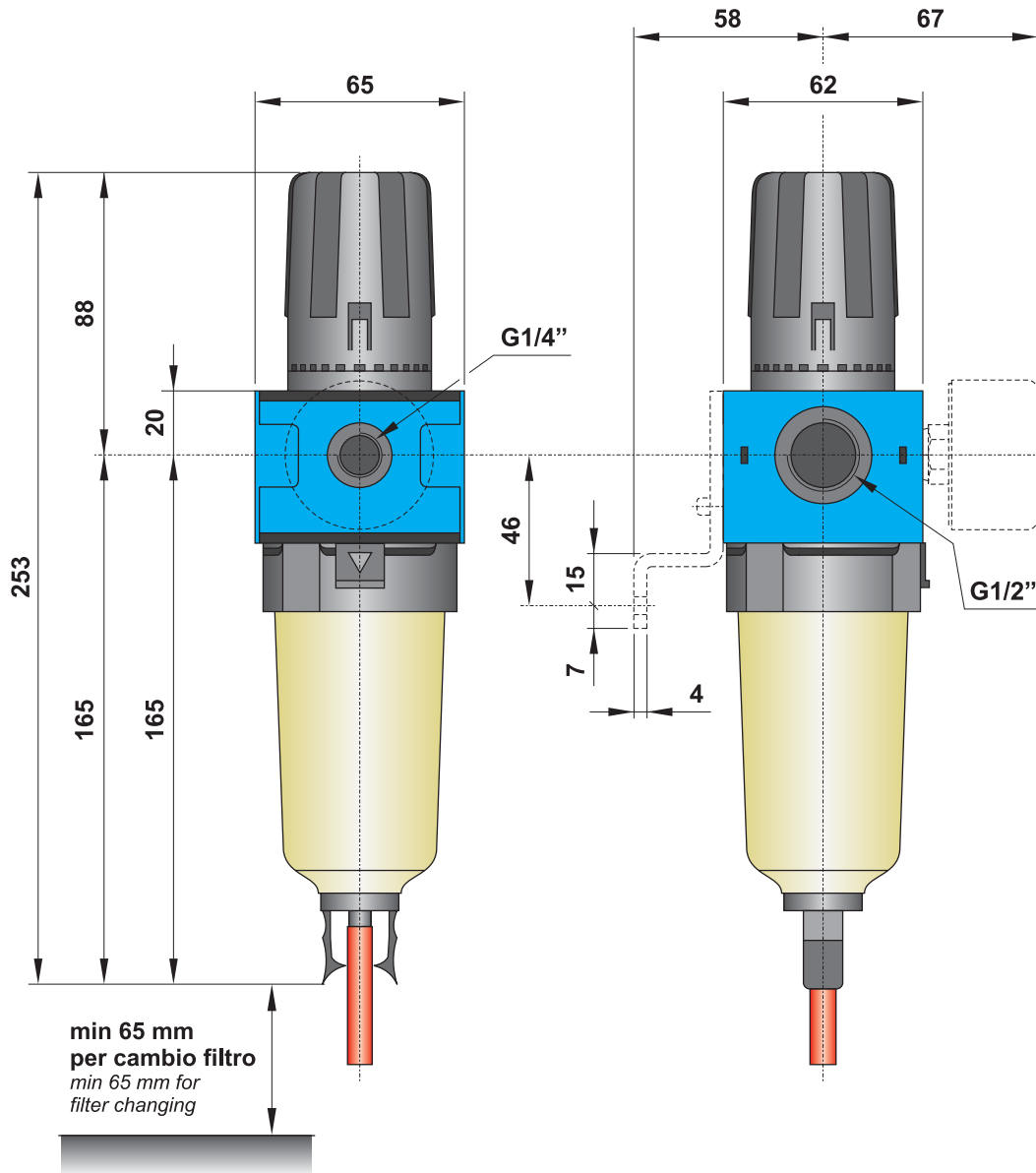
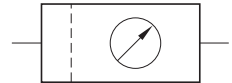


filtrorregolatore G1/2"

G1/2" filter-regulator



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: reinforced polycarbonate

filtratore regolatore G1"

G1" filter-regulator

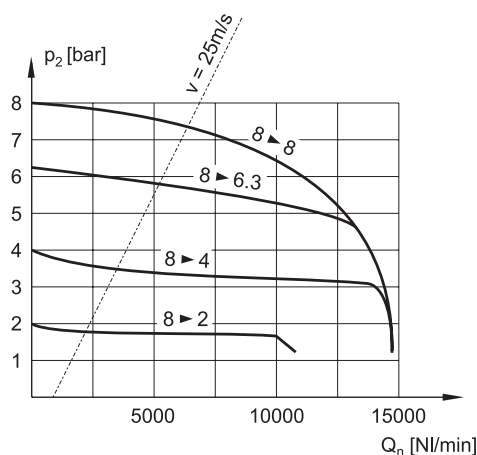


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante, combinato con regolatore di pressione a diaframma dotato di valvola di scarico sovrappressione (relieving)
Cyclone system and filter element, combined with diaphragm-type pressure regulator (with relieving)
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico semiautomatico della condensa; automatico a richiesta
Semi-automatic moisture exhaust; automatic on request
- Capacità della tazza: 500 cm³; tazza metallica
Bowl capacity: 500 cm³; metal bowl
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6)
Vertical installation; brackets on request (code STF 6)

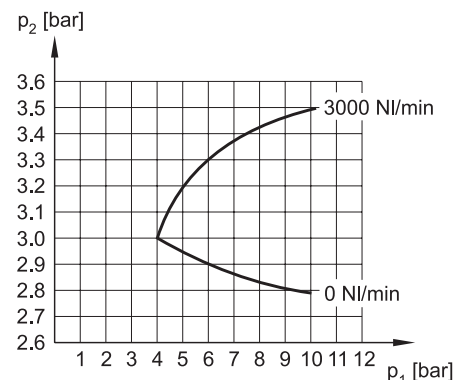


CODICE DI ORDINAZIONE ORDER CODE		FR 6-10-30-S	FR 6-10-05-S
Attacchi Ports		G1"	G1"
Temperatura di esercizio Temperature range		max +50°C	max +50°C
Peso Weight		2.8 kg	2.8 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 10 bar; 1 MPa	0.5 bar; 0.05 MPa 10 bar; 1 MPa
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.6 0.3	0.6 0.3
Portata raccomandata Recommended flow rate	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	Q_n
Elemento filtrante Filter element		30 μm	5 μm

Caratteristiche di portata
Flow characteristics



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione
Outlet pressure variation with fluctuating inlet pressure

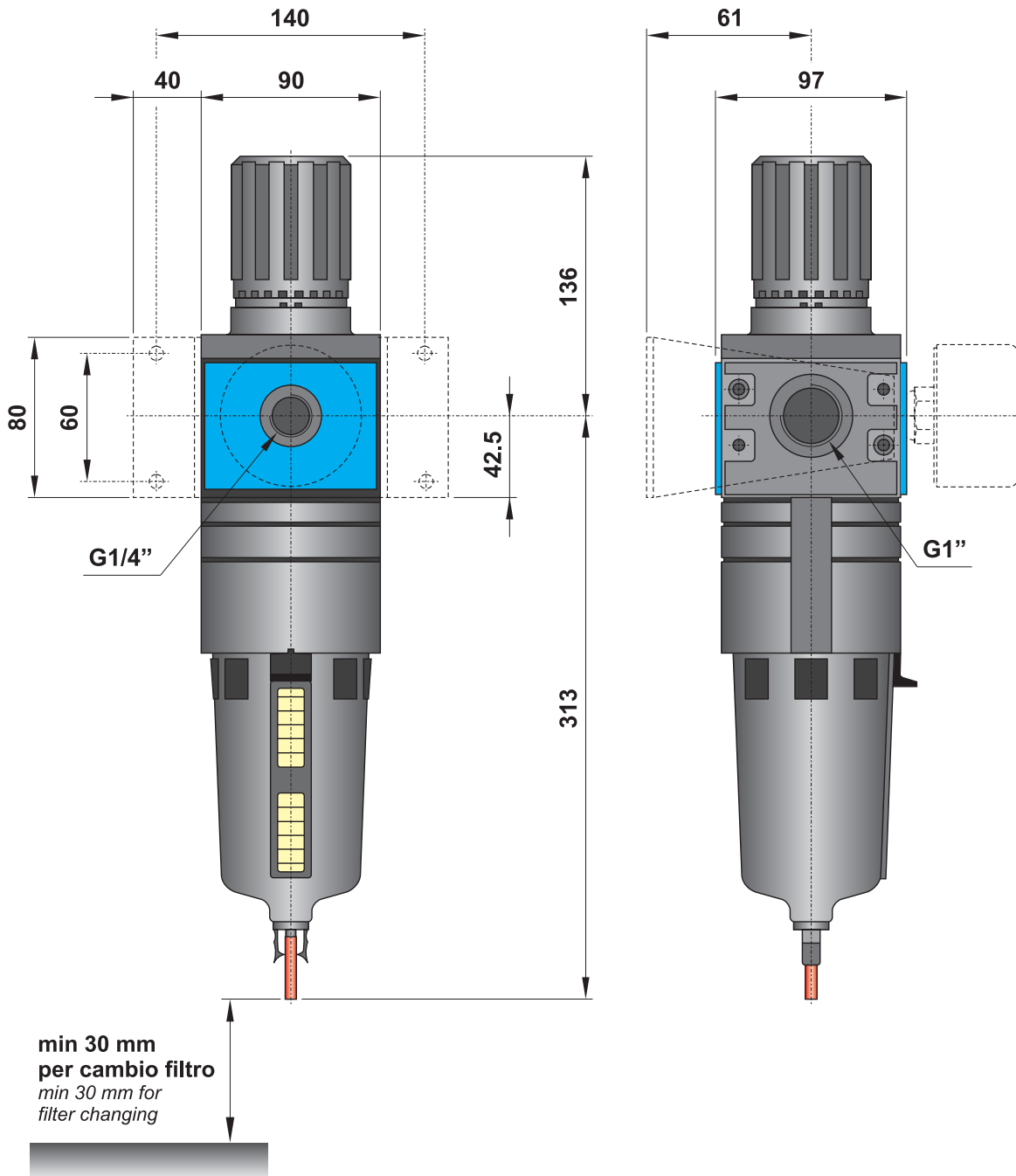
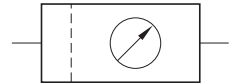


filtrorregolatore G1"

G1" filter-regulator



Le staffe di fissaggio e il manometro devono essere acquistati separatamente.
Mounting brackets and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: metallica

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: metal

gruppo trattamento aria FR+L G1/4"

G1/4" FR+L air preparation unit

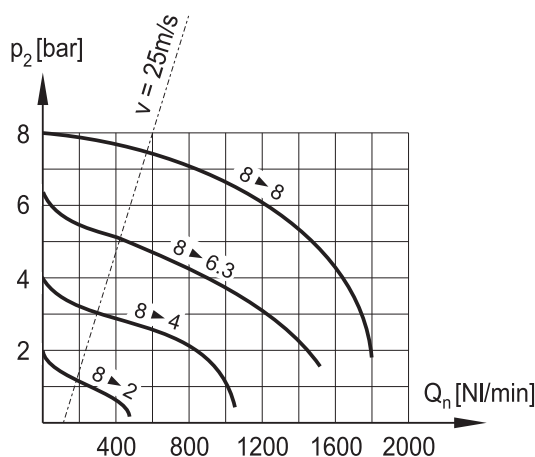


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 12 cm³ (condensa), 35 cm³ (olio)
Bowl capacity: 12 cm³ (moisture), 35 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 2)
Vertical installation; bracket on request (code STF 2)



CODICE DI ORDINAZIONE ORDER CODE		FR+L 2-08-25-S
Attacchi <i>Ports</i>		G1/4"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		0.32 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n 550 NI/min
Elemento filtrante <i>Filter element</i>		25 μm

Caratteristiche di portata
Flow characteristics



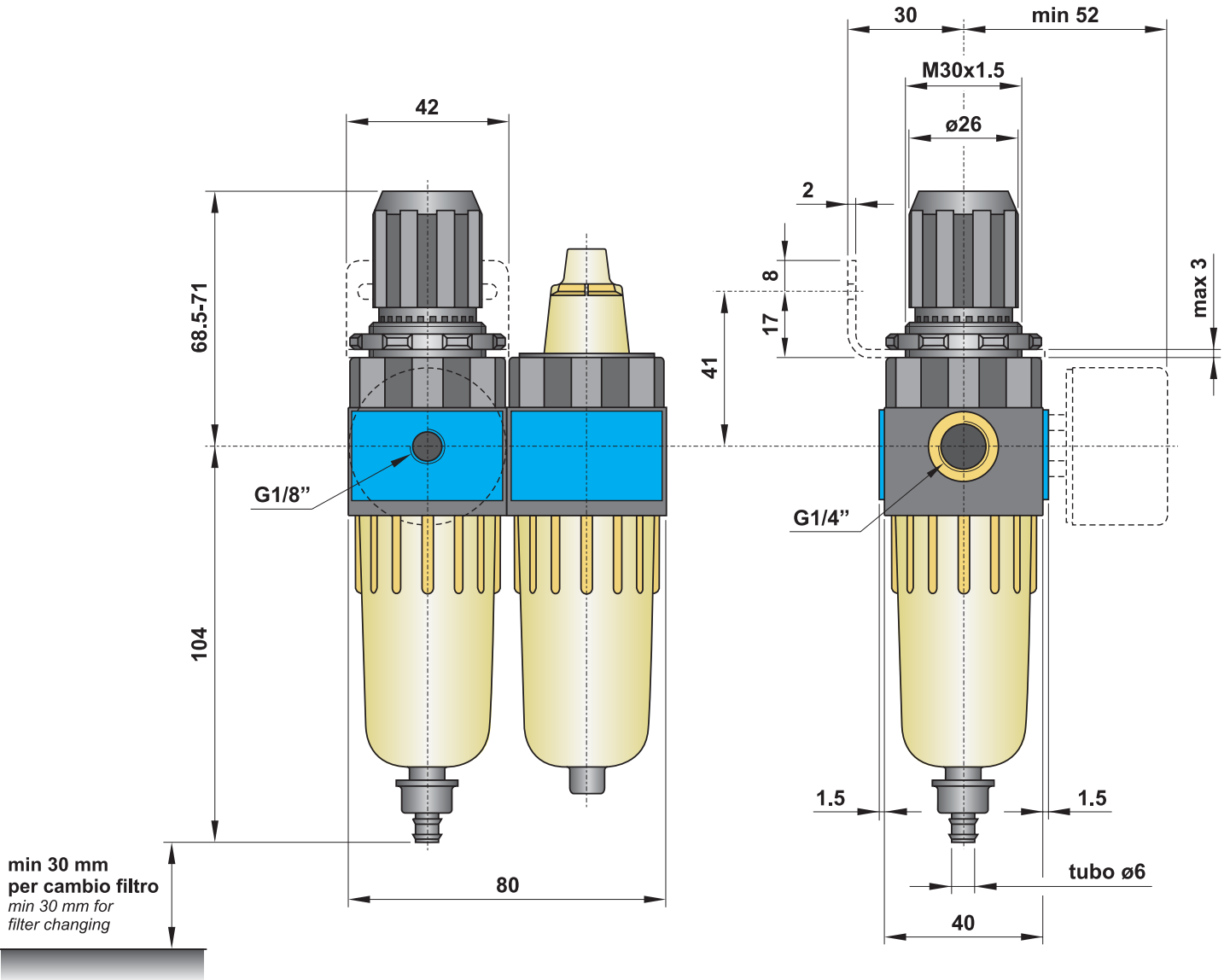
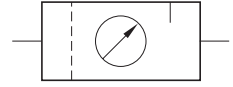
gruppo trattamento aria FR+L G1/4"

G1/4" FR+L air preparation unit



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.

Protezione in plastica della tazza a richiesta (cod. PR 2-00)
Plastic bowl protection on request (code PR 2-00)



Materiali

Corpo: polimero rinforzato con inserti filettati in ottone

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Tazze: policarbonato rinforzato

Materials

Body: reinforced polymer with brass thread inserts

Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FR+L G3/8"

G3/8" FR+L air preparation unit

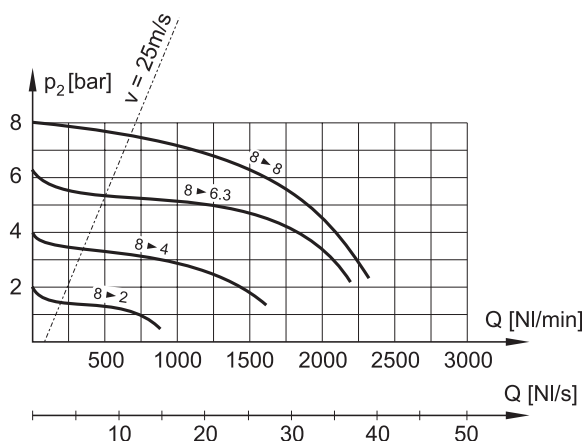


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 22 cm³ (condensa), 45 cm³ (olio)
Bowl capacity: 22 cm³ (moisture), 45 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 3 o STF 3A)
Vertical installation; bracket on request (code STF 3 or STF 3A)
- Protezione metallica della tazza a richiesta (cod. PR 3-00)
Metal bowl protection on request (code PR 3-00)



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FR+L 3-08-30-S
Attacchi <i>Ports</i>		G3/8"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		0.75 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.5 0.4
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n 680 NI/min
Elemento filtrante <i>Filter element</i>		30 μm

Caratteristiche di portata
Flow characteristics

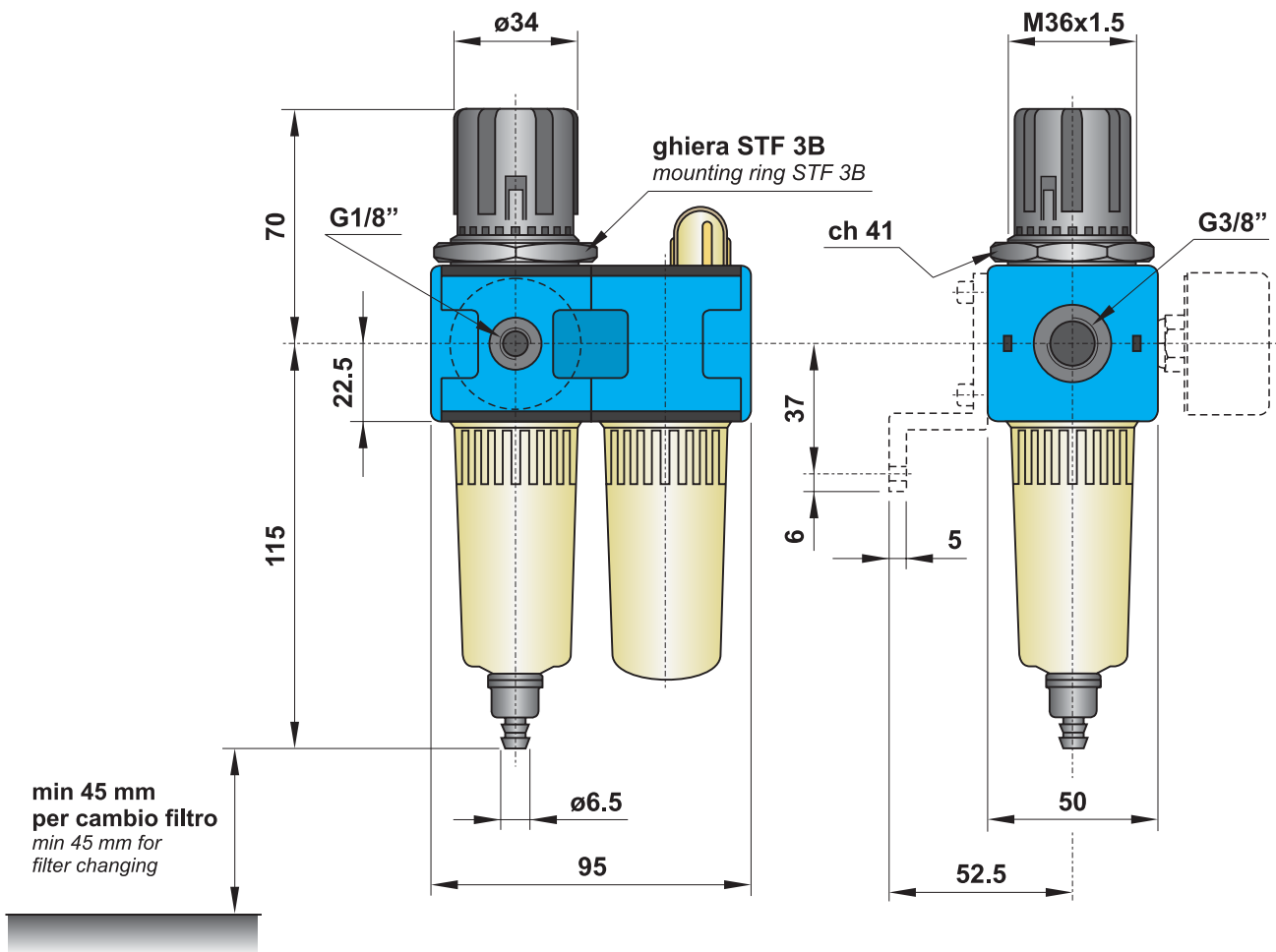
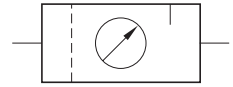


gruppo trattamento aria FR+L G3/8"

G3/8" FR+L air preparation unit



La staffa di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting bracket, ring and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FR+L G1/2"

G1/2" FR+L air preparation unit

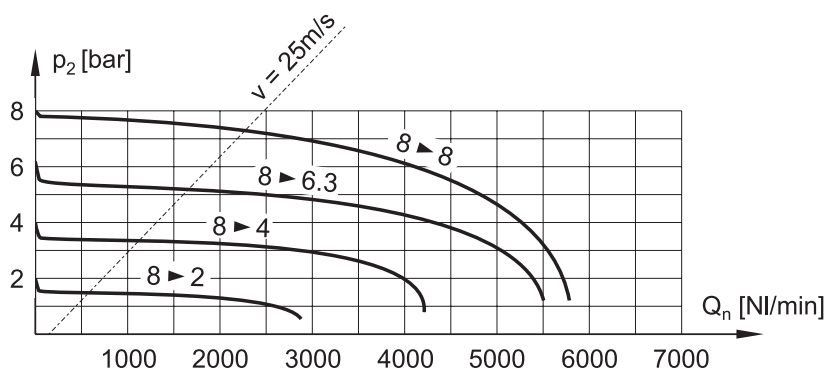


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 57 cm³ (condensa), 112 cm³ (olio)
Bowl capacity: 57 cm³ (moisture), 112 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4)
Vertical installation; bracket on request (code STF 4)
- Protezione metallica della tazza a richiesta (cod. PR 4-00)
Metal bowl protection on request (code PR 4-00)



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FR+L 4-08-30-S
Attacchi <i>Ports</i>		G1/2"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		1.5 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n 1900 NI/min
Elemento filtrante <i>Filter element</i>		30 μm

Caratteristiche di portata
Flow characteristics

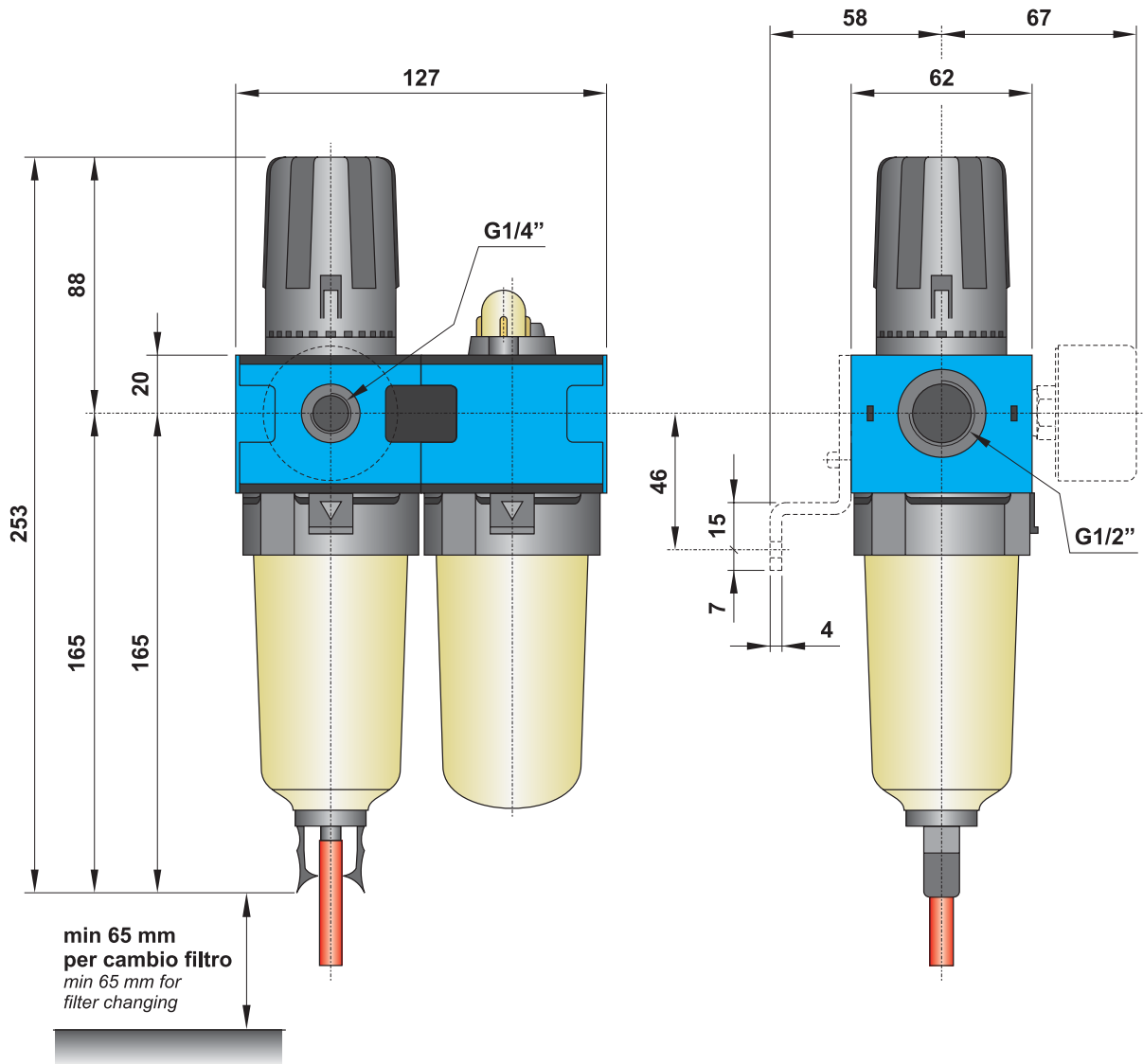
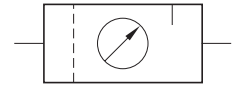


gruppo trattamento aria FR+L G1/2"

G1/2" FR+L air preparation unit



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FR+L G1"

G1" FR+L air preparation unit

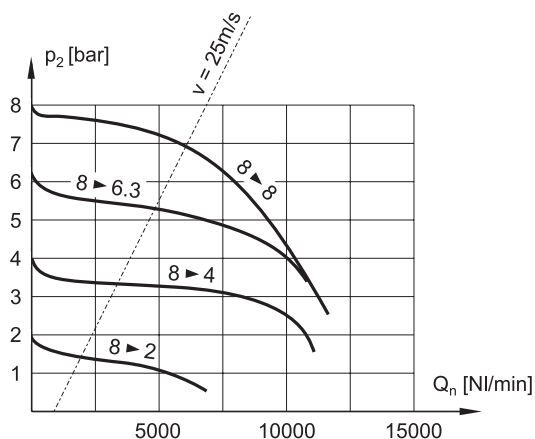


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 500 cm³ (condensa), 500 cm³ (olio)
Bowl capacity: 500 cm³ (moisture), 500 cm³ (oil)
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6)
Vertical installation; brackets on request (code STF 6)
- Tazza metallica
Metal bowl



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FR+L 6-10-30-S
Attacchi <i>Ports</i>		G1"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		4.4 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 10 bar; 10 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.6 0.3
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	5000 NI/min (max 10000 NI/min)
Elemento filtrante <i>Filter element</i>		30 μm

Caratteristiche di portata
Flow characteristics

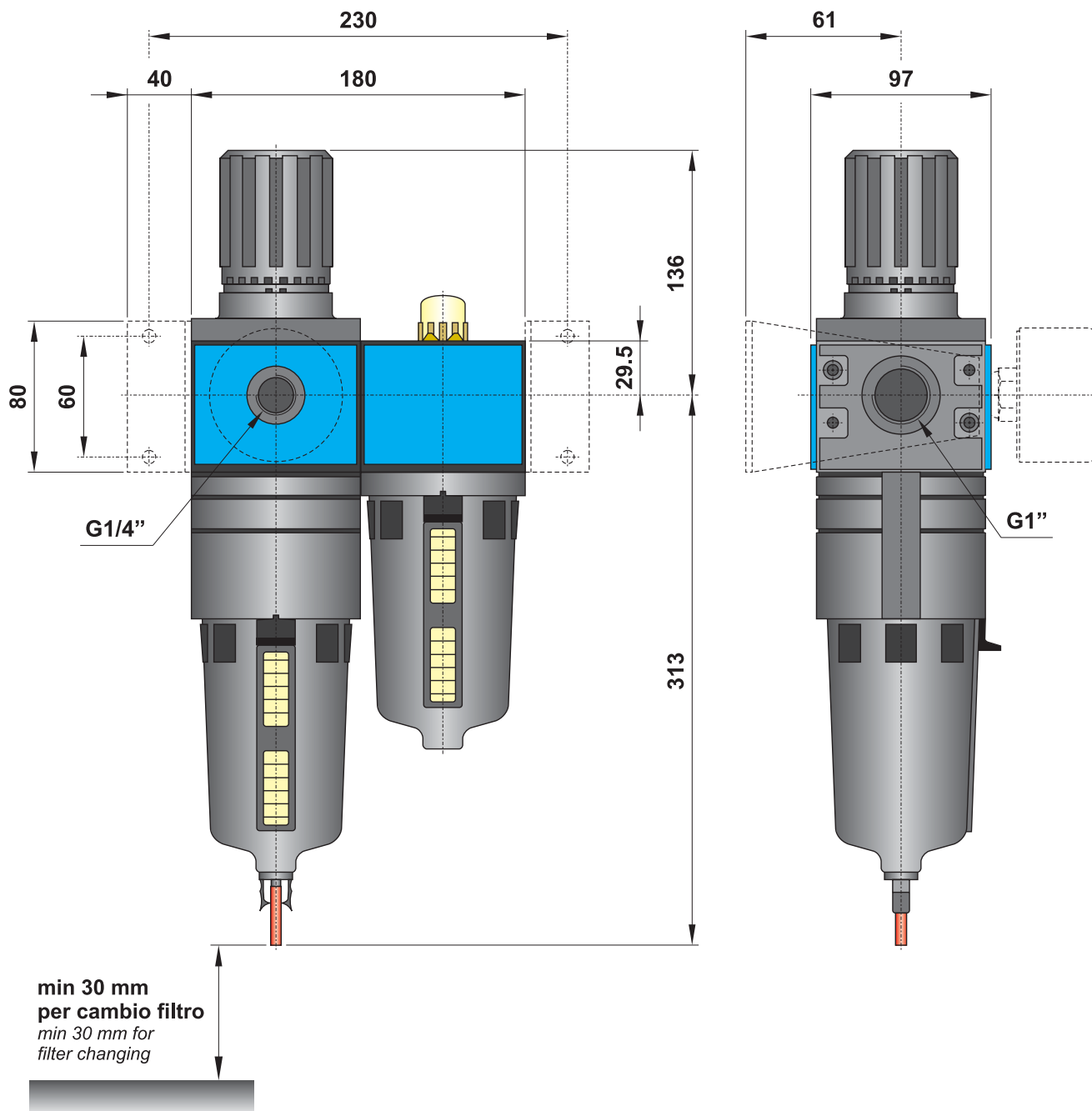
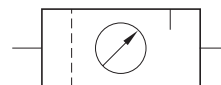


gruppo trattamento aria FR+L G1"

G1" FR+L air preparation unit



Le staffe di fissaggio e il manometro devono essere acquistati separatamente.
Mounting brackets and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: metalliche

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: metal

gruppo trattamento aria FRL G1/4"

G1/4" FRL air preparation unit

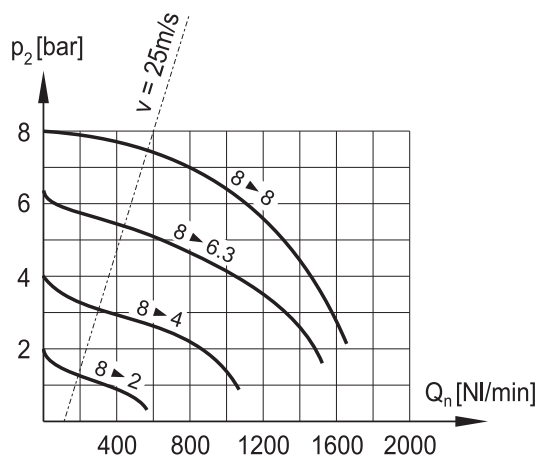


- Il gruppo comprende: filtro, regolatore di pressione e lubrificatore
The unit includes: filter, pressure regulator and oil mist lubricator
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 12 cm³ (condensa), 35 cm³ (olio)
Bowl capacity: 12 cm³ (moisture), 35 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 2)
Vertical installation; bracket on request (code STF 2)



CODICE DI ORDINAZIONE ORDER CODE		FRL 2-08-25-S	
Attacchi Ports		G1/4"	
Temperatura di esercizio Temperature range		max +50°C	
Peso Weight		0.4 kg	
Pressione di alimentazione Inlet pressure range		$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo Outlet pressure range		$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)		$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi Hysteresis		$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6
Portata raccomandata Recommended flow rate	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n	550 NI/min
Elemento filtrante Filter element			25 μm

Caratteristiche di portata
Flow characteristics



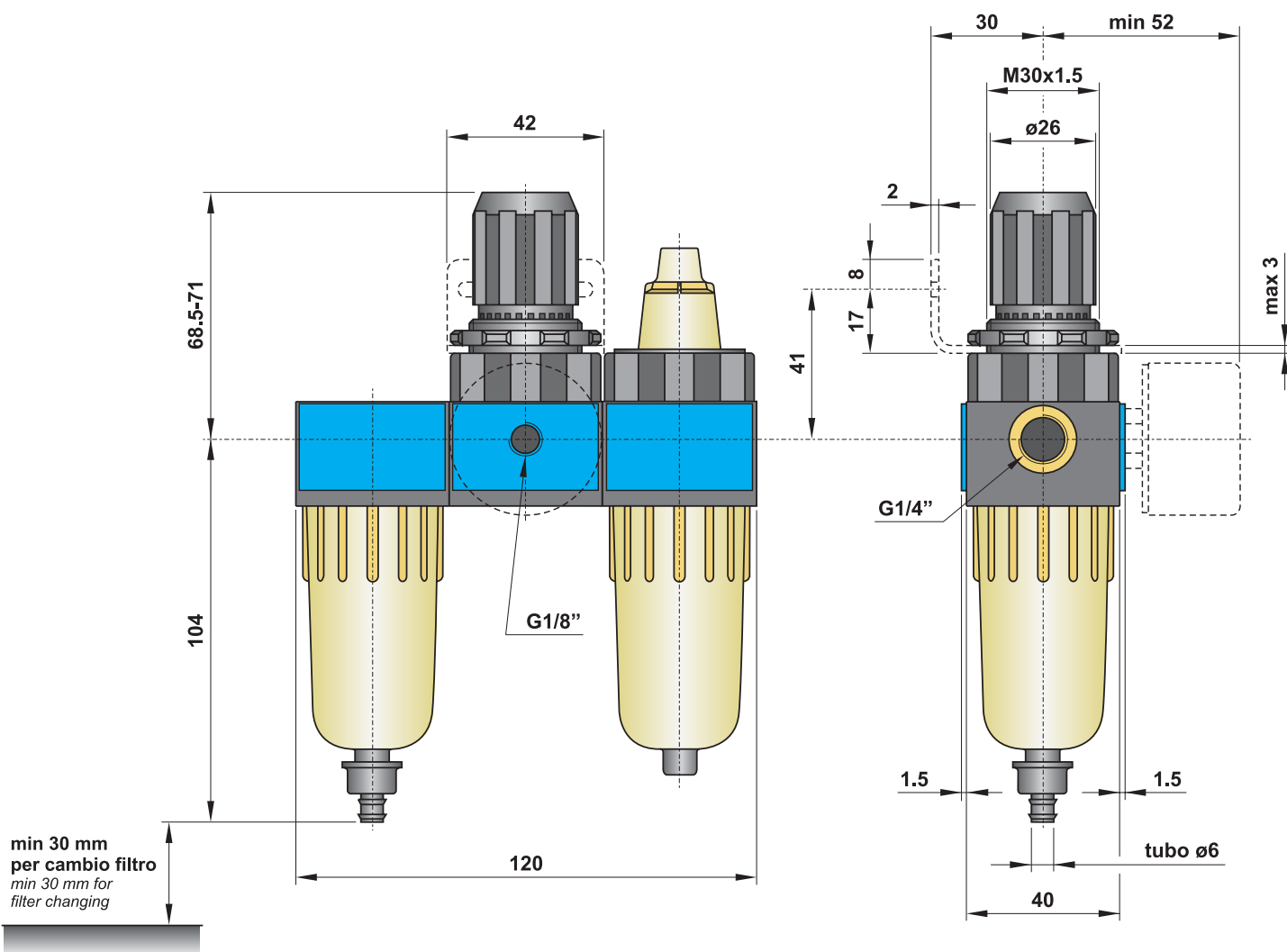
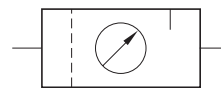
gruppo trattamento aria FRL G1/4"

G1/4" FRL air preparation unit



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.

Protezione in plastica della tazza a richiesta (cod. PR 2-00)
Plastic bowl protection on request (code PR 2-00)



Materiali

Corpo: polimero rinforzato con inserti filettati in ottone

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Tazze: policarbonato rinforzato

Materials

Body: reinforced polymer with brass thread inserts

Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FRL G3/8"

G3/8" FRL air preparation unit

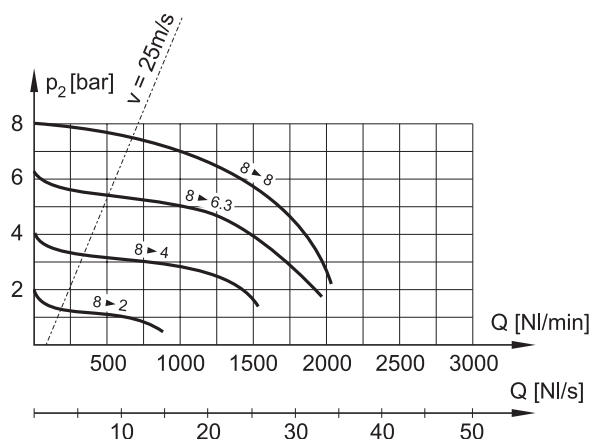


- Il gruppo comprende: filtro, regolatore di pressione e lubrificatore
The unit includes: filter, pressure regulator and oil mist lubricator
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 22 cm³ (condensa), 45 cm³ (olio)
Bowl capacity: 22 cm³ (moisture), 45 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 3 o STF 3A)
Vertical installation; bracket on request (code STF 3 or STF 3A)
- Protezione metallica della tazza a richiesta (cod. PR 3-00)
Metal bowl protection on request (code PR 3-00)



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FRL 3-08-30-S
Attacchi <i>Ports</i>		G3/8"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		0.95 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.5 0.4
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n 680 NI/min
Elemento filtrante <i>Filter element</i>		30 μm

Caratteristiche di portata
Flow characteristics

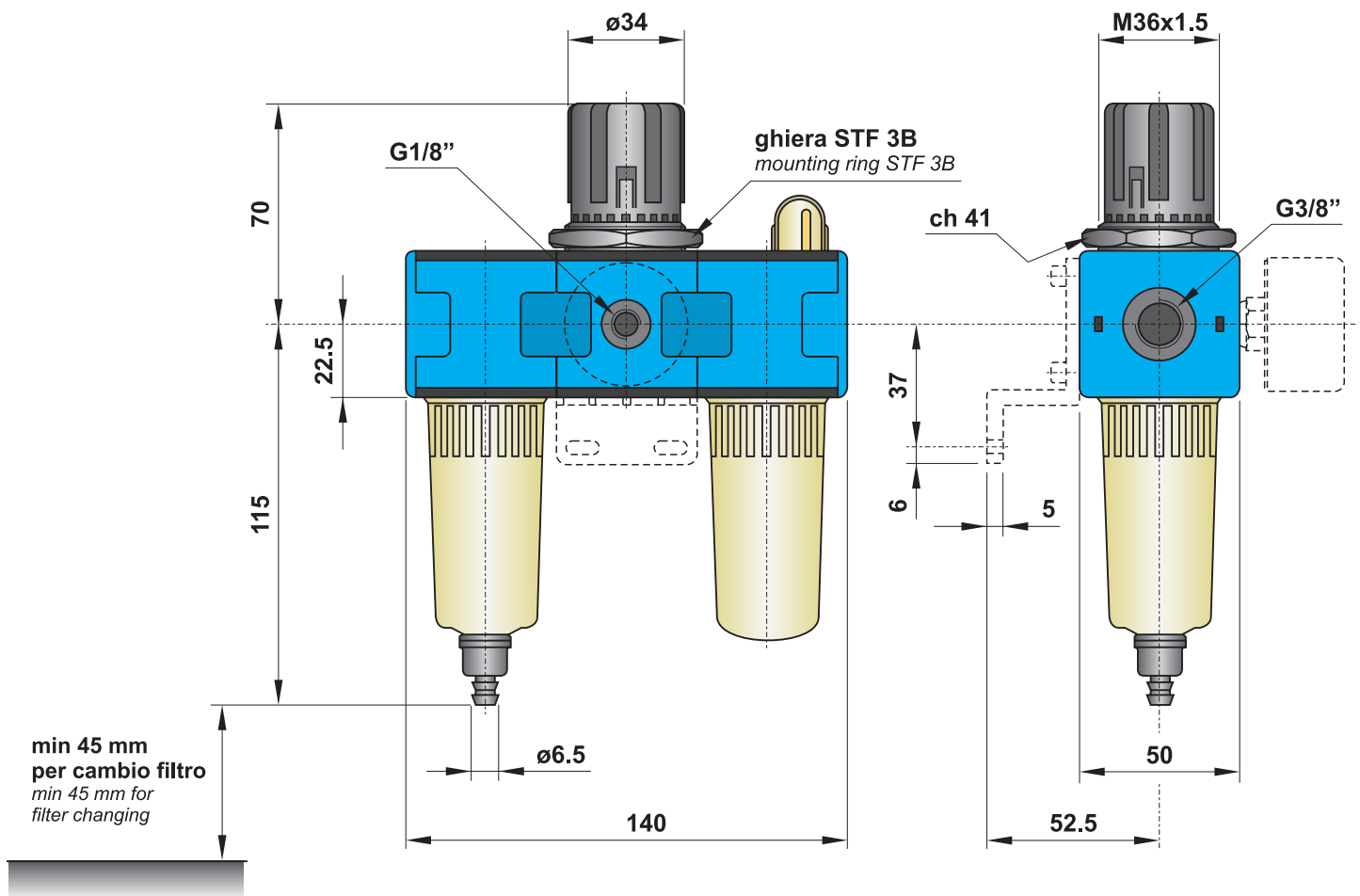
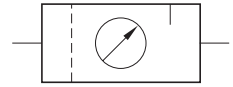


gruppo trattamento aria FRL G3/8"

G3/8" FRL air preparation unit



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FRL G1/2"

G1/2" FRL air preparation unit

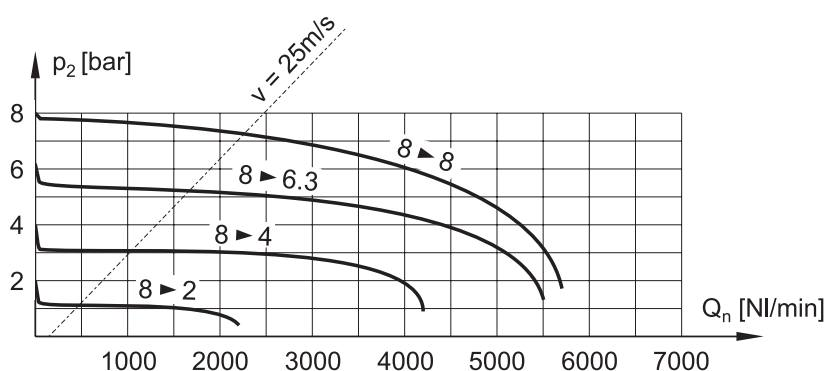


- Il gruppo comprende: filtro, regolatore di pressione e lubrificatore
The unit includes: filter, pressure regulator and oil mist lubricator
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 57 cm³ (condensa), 112 cm³ (olio)
Bowl capacity: 57 cm³ (moisture), 112 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4)
Vertical installation; bracket on request (code STF 4)
- Protezione metallica della tazza a richiesta (cod. PR 4-00)
Metal bowl protection on request (code PR 4-00)



CODICE DI ORDINAZIONE ORDER CODE		FRL 4-08-30-S
Attacchi <i>Ports</i>		G1/2"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		1.85 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n 1900 NI/min
Elemento filtrante <i>Filter element</i>		30 μm

Caratteristiche di portata
Flow characteristics

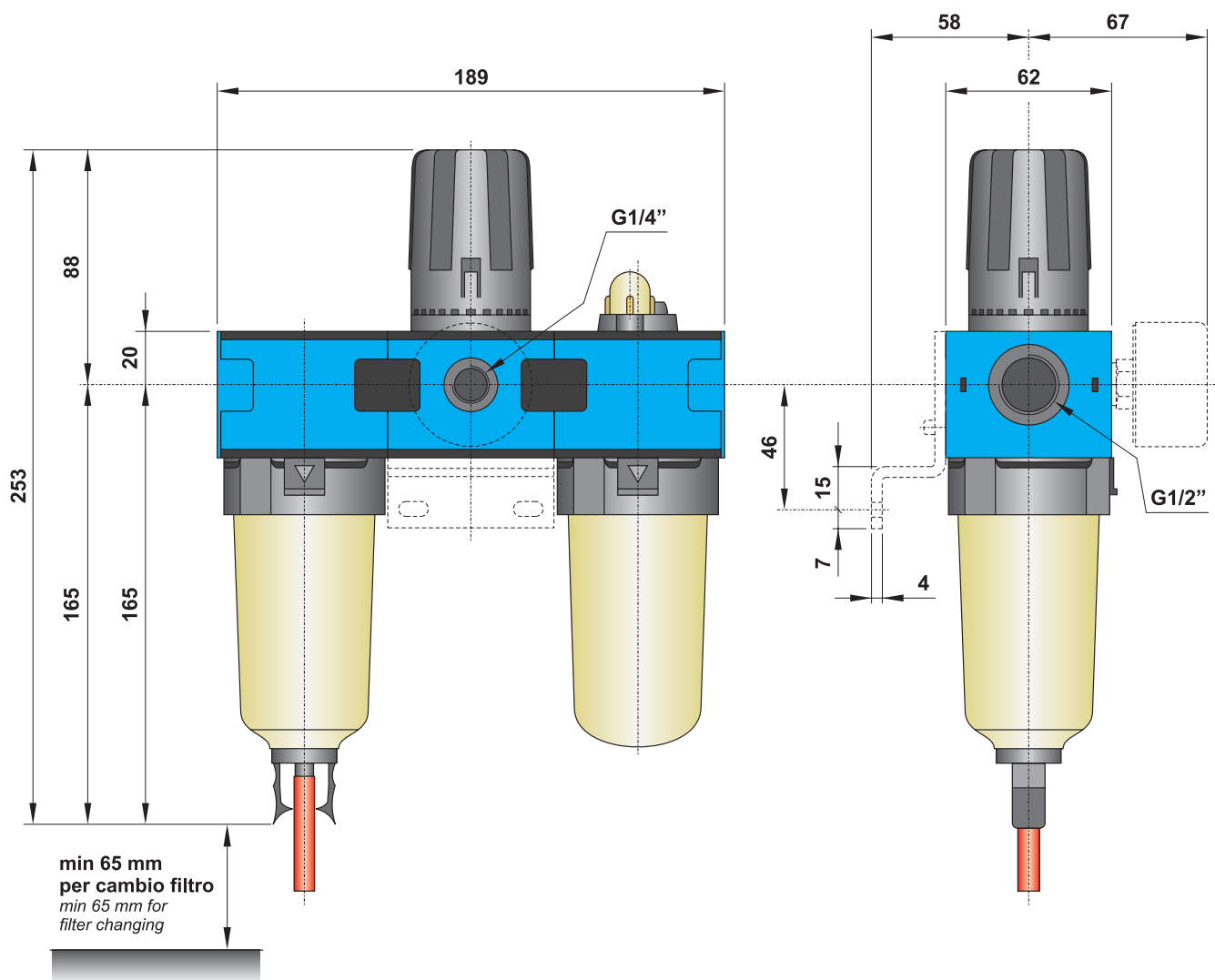
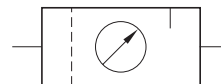


gruppo trattamento aria FRL G1/2"

G1/2" FRL air preparation unit



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FRL G1"

G1" FRL air preparation unit

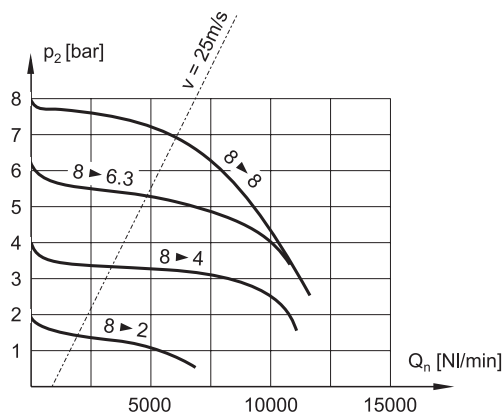


- Il gruppo comprende: filtro, regolatore di pressione e lubrificatore
The unit includes: filter, pressure regulator and oil mist lubricator
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 500 cm³ (condensa), 500 cm³ (olio)
Bowl capacity: 500 cm³ (moisture), 500 cm³ (oil)
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6)
Vertical installation; brackets on request (code STF 6)
- Tazza metallica
Metal bowl



CODICE DI ORDINAZIONE ORDER CODE		FRL 6-10-30-S
Attacchi <i>Ports</i>		G1"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		5.7 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 10 bar; 10 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.6 0.3
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n 5000 NI/min (max 9000 NI/min)
Elemento filtrante <i>Filter element</i>		30 μm

Caratteristiche di portata
Flow characteristics

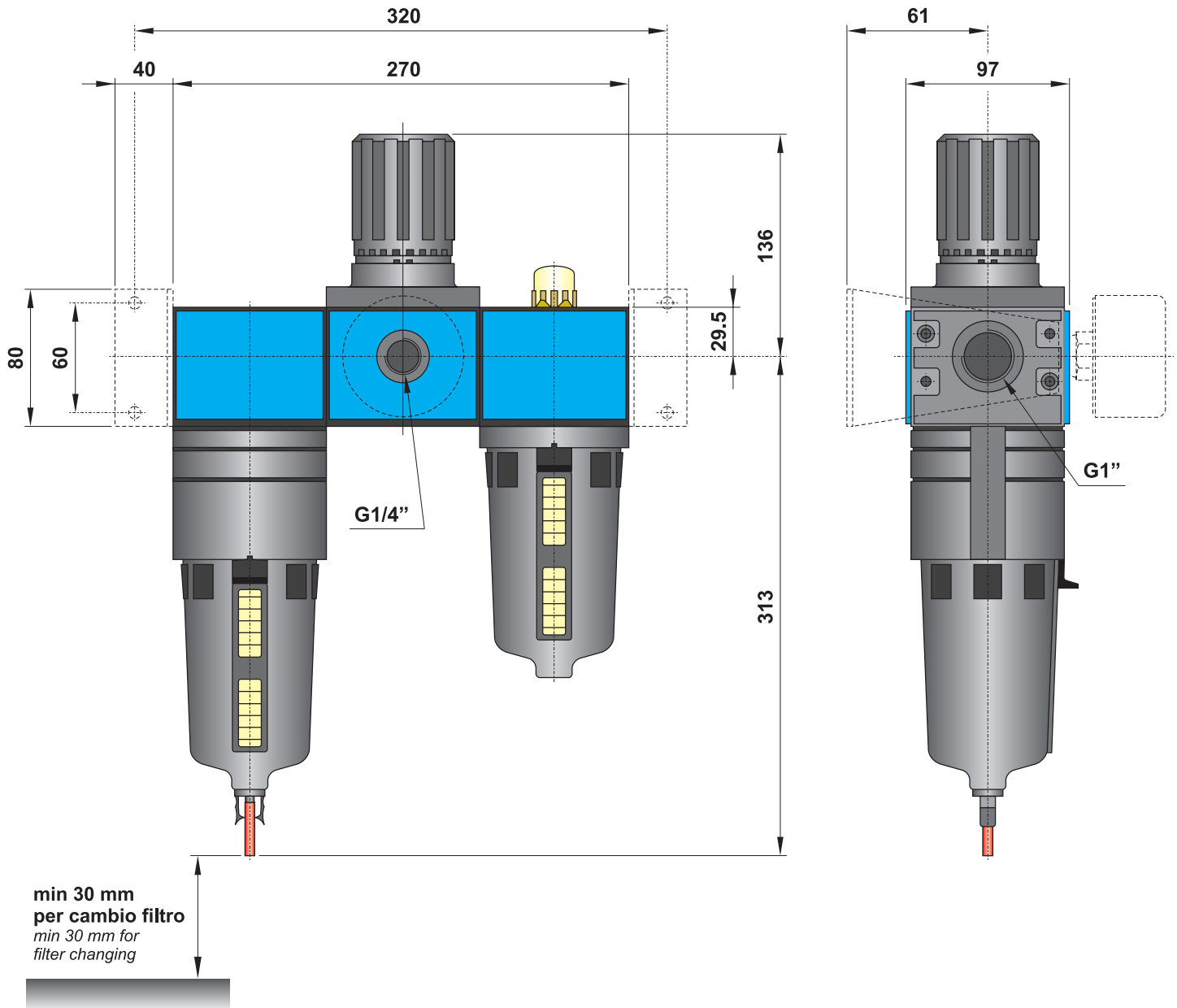
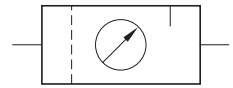


gruppo trattamento aria FRL G1"

G1" FRL air preparation unit



Le staffe di fissaggio e il manometro devono essere acquistati separatamente.
Mounting brackets and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: metalliche

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: metal

avviatore progressivo modulare G1/4"

modular slow-start valve G1/4"



Modalità di funzionamento

Questo tipo di avviatore progressivo è modulare e può essere installato in batteria con i gruppi trattamento aria serie G1/4".

(a) Dopo aver attivato l'avviatore eccitando l'elettropilota, viene fornita al circuito una pressione progressivamente crescente fino alla metà della pressione di rete. Il raggiungimento di questa soglia si effettua nel tempo determinato con la vite di regolazione **R**.

(b) Raggiunta tale pressione, l'avviatore progressivo passa ad alimentare il circuito con la pressione fornita dalla rete. Questa commutazione avviene in modo automatico senza intervento dell'operatore.

Togliendo il comando elettrico di attivazione, l'avviatore progressivo consente lo scarico del circuito senza dover togliere l'alimentazione di rete al punto 1.

Valve operation

This slow-start valve is modular and can be installed together with air preparation units, series G1/4".

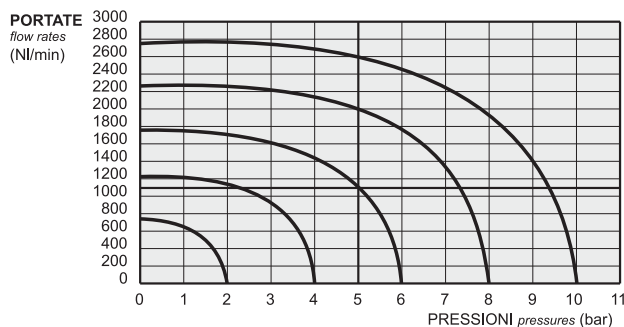
(a) When the pilot solenoid valve is energised, a progressively increasing pressure is applied to the circuit over a period of time set by screw **(R)**.

(b) Once the half of the system pressure has been reached, the slow-start valve begins to automatically feed the circuit with the system pressure.

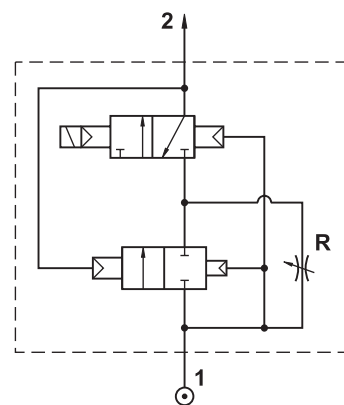
When the solenoid is de-energised the system pressure is exhausted without disconnecting system pressure at point 1.

CODICE DI ORDINAZIONE
ORDER CODE

AVP 2-00



Attacchi <i>Ports</i>	G1/4"
Massima portata nella fase (a) <i>Maximum flow rate in the phase (a)</i>	300 NI/min
Portata nella fase (b) <i>Flow rate in the phase (b)</i>	vedi grafico <i>see graphic</i>
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air



Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spole: alluminio nichelato

Parti interne: ottone OT58

Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spools: nickel plated aluminium

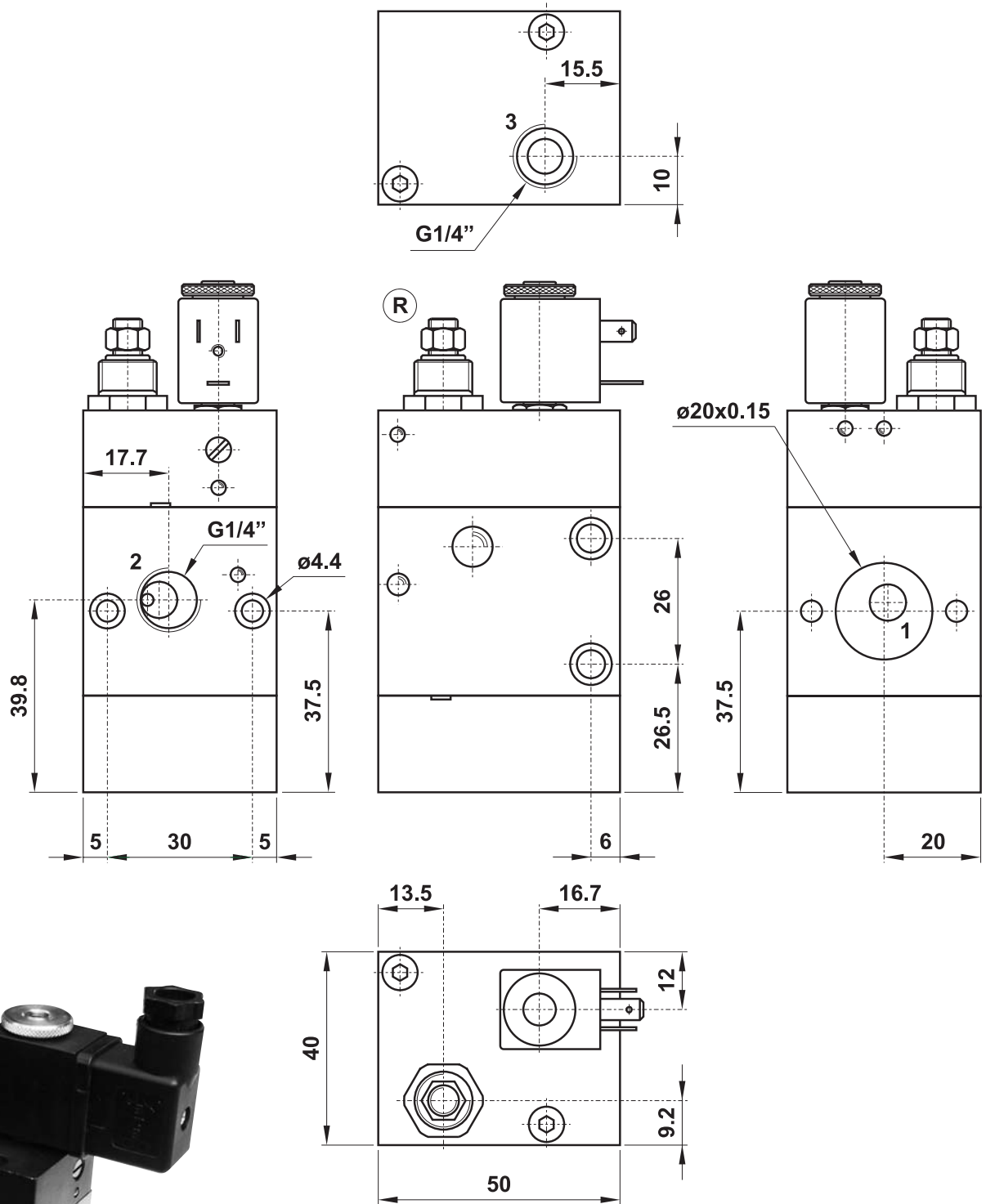
Internal parts: brass OT58

avviatore progressivo modulare G1/4"

modular slow-start valve G1/4"



Il prodotto è venduto senza bobina, da acquistarsi separatamente (vedi pag. 242).
The product is sold without coil, which is bought separately (refer to page 242).



5

valvola di scarico rapido G3/8"

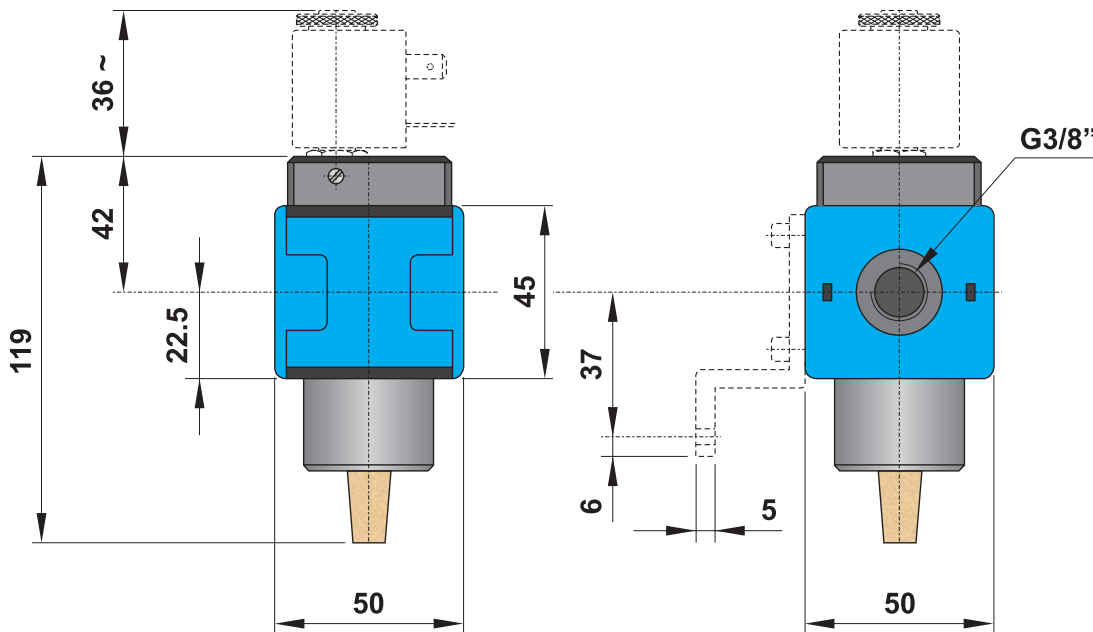
G3/8" quick exhaust valve



- Valvola 3/2 a comando elettrico o pneumatico
Pneumatically or solenoid actuated 3/2 valve
- Elevata portata in scarico
High exhaust flow rate
- Staffa di fissaggio a richiesta (cod. STF 3)
Mounting bracket on request (code STF 3)

Il prodotto è venduto senza bobina e senza staffa di fissaggio, da acquistarsi separatamente. La bobina deve essere della serie 30 mm.

The product is sold without coil and without mounting bracket, which are bought separately. The coil must be 30 mm.



Bobine
Coils

modello model	tensione tension
00.258.0	24V DC
00.029.0	24V 50/60Hz
00.030.0	110V 50/60Hz
00.031.0	220V 50/60Hz

5

Materiali Corpo: alluminio pressofuso Guarnizioni: NBR Parti interne: ottone e INOX Parti esterne: polimeri rinforzati	Materials <i>Body: die-cast aluminium</i> <i>Seals: NBR</i> <i>Internal parts: brass and stainless steel</i> <i>External parts: reinforced polymer</i>		
		comando pneumatico <i>pneumatically piloted</i>	comando elettrico <i>solenoid actuated</i>
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		SCR 3-P	SCR 3-E
Attacchi <i>Ports</i>		G3/8"	G3/8"
Temperatura di esercizio <i>Temperature range</i>		max +60°C	max +60°C
Peso <i>Weight</i>		0.5 kg	0.8 kg
Pressione di esercizio <i>Working pressure range</i>	p_{min} p_{max}	2 bar; 0.2 MPa 16 bar; 1.6 MPa	2 bar; 0.2 MPa 10 bar; 1 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	Q_n
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{max}	Q_{max}

avviatore progressivo G3/8"

G3/8" slow-start valve



Modalità di funzionamento

La valvola fornisce a un circuito pneumatico aria a pressione progressivamente crescente fino a raggiungere la metà della pressione di rete nel tempo impostato con la vite di regolazione integrata. Durante questa fase non devono essere attivi gli elementi del circuito che consumano aria. Raggiunta la soglia di commutazione, l'avviatore progressivo passa automaticamente a fornire la pressione di rete.

L'avviatore progressivo impedisce eventuali movimenti improvvisi dei dispositivi pneumatici montati nel circuito, che si potrebbero avere se venisse fornita immediatamente la pressione di rete.

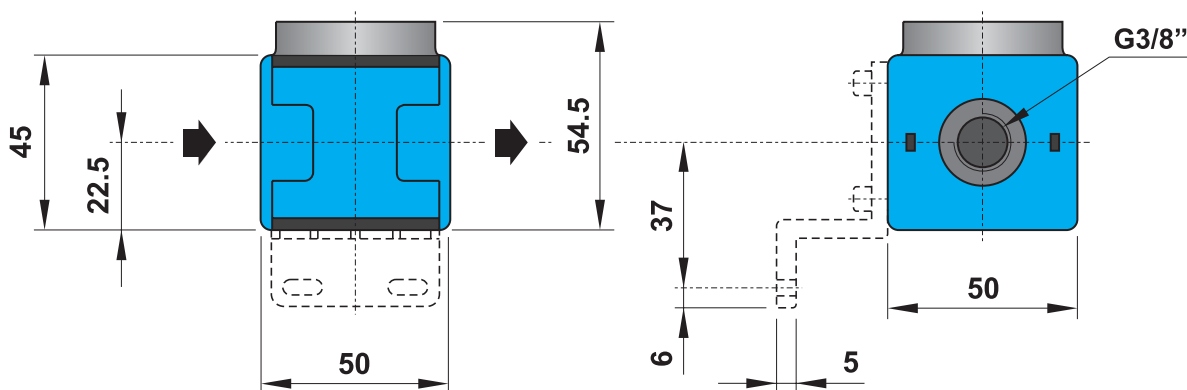
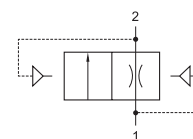
Per il montaggio è disponibile l'apposita staffa (cod. STF 3).

Valve operation

The valve applies to a pneumatic circuit a progressively increasing pressure over a period of time set by the integrated screw. During this phase no air consumption is allowed in the circuit. After having reached the half of the system pressure, the slow-start valve begins to automatically feed the circuit with the system pressure.

The slow-start valve prevents from unexpected motions of the pneumatic devices in the circuit, which could happen by applying directly the system pressure.

On request the mounting bracket (code STF 3) is available.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

La staffa di fissaggio deve essere acquistata separatamente.
Mounting bracket is bought separately.

CODICE DI ORDINAZIONE ORDER CODE		AVP 3-00
Attacchi Ports		G3/8"
Temperatura di esercizio Temperature range		max +60°C
Peso Weight		0.35 kg
Pressione di esercizio Working pressure range	p_{min} p_{max}	2 bar; 0.2 MPa 16 bar; 1.6 MPa
Portata raccomandata Recommended flow rate	$p = 6.3 \text{ bar a } 25 \text{ m/s}$ $p = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n 850 NI/min
Portata massima Maximum flow rate		Q_{max} 1600 NI/min

valvola di scarico rapido G1/2"

G1/2" quick exhaust valve

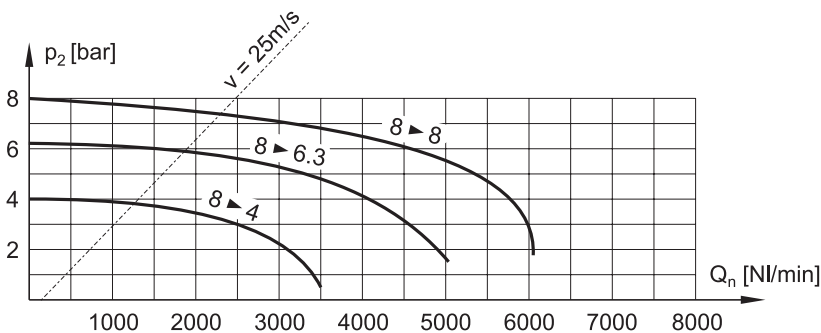


- Valvola 3/2 a comando elettrico o pneumatico
Pneumatically or solenoid actuated 3/2 valve
- Da utilizzarsi da sola o in combinazione con l'avviatore progressivo
To be used standing-alone or with the slow-start valve
- Elevata portata in scarico
High exhaust flow rate
- Staffa di fissaggio a richiesta (cod. STF 4)
Mounting bracket on request (code STF 4)



		comando pneumatico <i>pneumatically piloted</i>	comando elettrico <i>solenoid actuated</i>
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		SCR 4-P	SCR 4-E
Attacchi <i>Ports</i>		G1/2"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		max +60°C	max +60°C
Peso <i>Weight</i>		0.7 kg	0.8 kg
Pressione di esercizio <i>Working pressure range</i>	p_{min} p_{max}	2 bar; 0.2 MPa 16 bar; 1.6 MPa	2 bar; 0.2 MPa 10 bar; 1 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	1900 NI/min
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{max}	2900 NI/min

Caratteristiche di portata
Flow characteristics



Bobine
Coils

modello <i>model</i>	tensione <i>tension</i>
00.258.0	24V DC
00.029.0	24V 50/60Hz
00.030.0	110V 50/60Hz
00.031.0	220V 50/60Hz

valvola di scarico rapido G1/2"

G1/2" quick exhaust valve

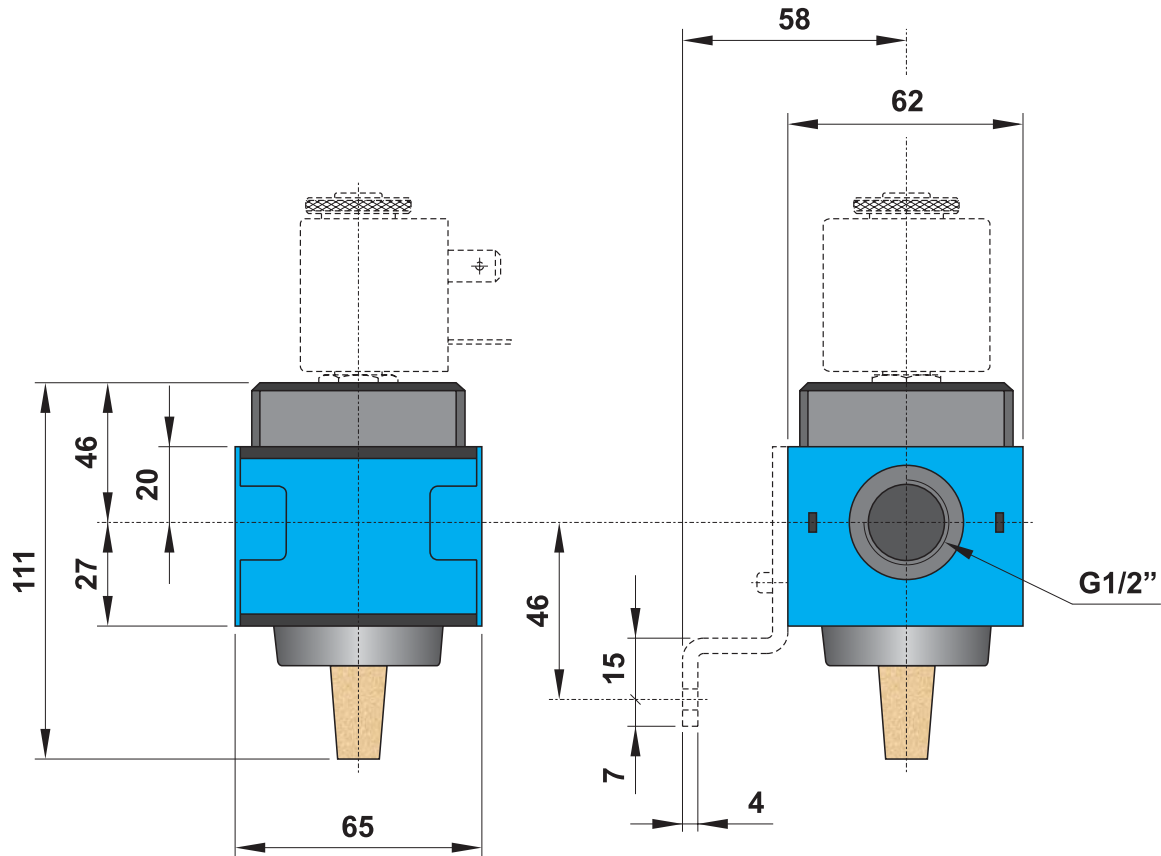


Il prodotto è venduto senza bobina e senza staffa di fissaggio, da acquistarsi separatamente.

La bobina deve essere della serie 30 mm.

The product is sold without coil and without mounting bracket, which are bought separately.

The coil must be 30 mm.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

avviatore progressivo G1/2"

G1/2" slow-start valve



Modalità di funzionamento

La valvola fornisce a un circuito pneumatico aria a pressione progressivamente crescente fino a raggiungere la metà della pressione di rete nel tempo impostato con la vite di regolazione integrata. Durante questa fase non devono essere attivi gli elementi del circuito che consumano aria. Raggiunta la soglia di commutazione, l'avviatore progressivo passa automaticamente a fornire la pressione di rete.

L'avviatore progressivo impedisce eventuali movimenti improvvisi dei dispositivi pneumatici montati nel circuito, che si potrebbero avere se venisse fornita immediatamente la pressione di rete.

Per il montaggio è disponibile l'apposita staffa (cod. STF 4).

Valve operation

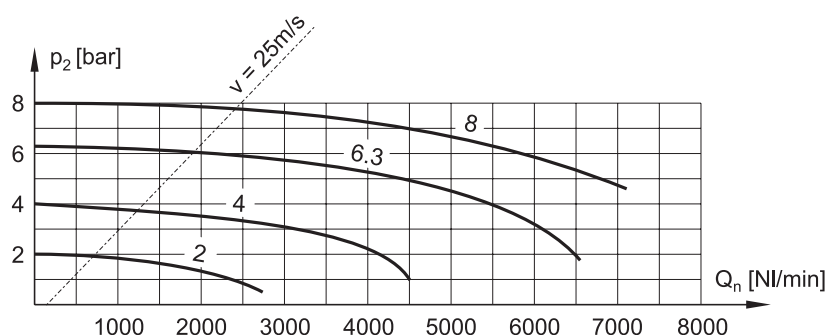
The valve applies to a pneumatic circuit a progressively increasing pressure over a period of time set by the integrated screw. During this phase no air consumption is allowed in the circuit. After having reached the half of the system pressure, the slow-start valve begins to automatically feed the circuit with the system pressure.

The slow-start valve prevents from unexpected motions of the pneumatic devices in the circuit, which could happen by applying directly the system pressure.

On request the mounting bracket (code STF 4) is available.

CODICE DI ORDINAZIONE ORDER CODE		AVP 4-00	
Attacchi Ports		G1/2"	
Temperatura di esercizio Temperature range		max +60°C	
Peso Weight		0.6 kg	
Pressione di esercizio Working pressure range		p_{\min} p_{\max}	2 bar; 0.2 MPa 16 bar; 1.6 MPa
Portata raccomandata Recommended flow rate	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	Q_n	1900 NI/min
Portata massima Maximum flow rate	$p = 6.3 \text{ bar; } \Delta p = 1 \text{ bar}$	Q_{\max}	3700 NI/min

Caratteristiche di portata
Flow characteristics

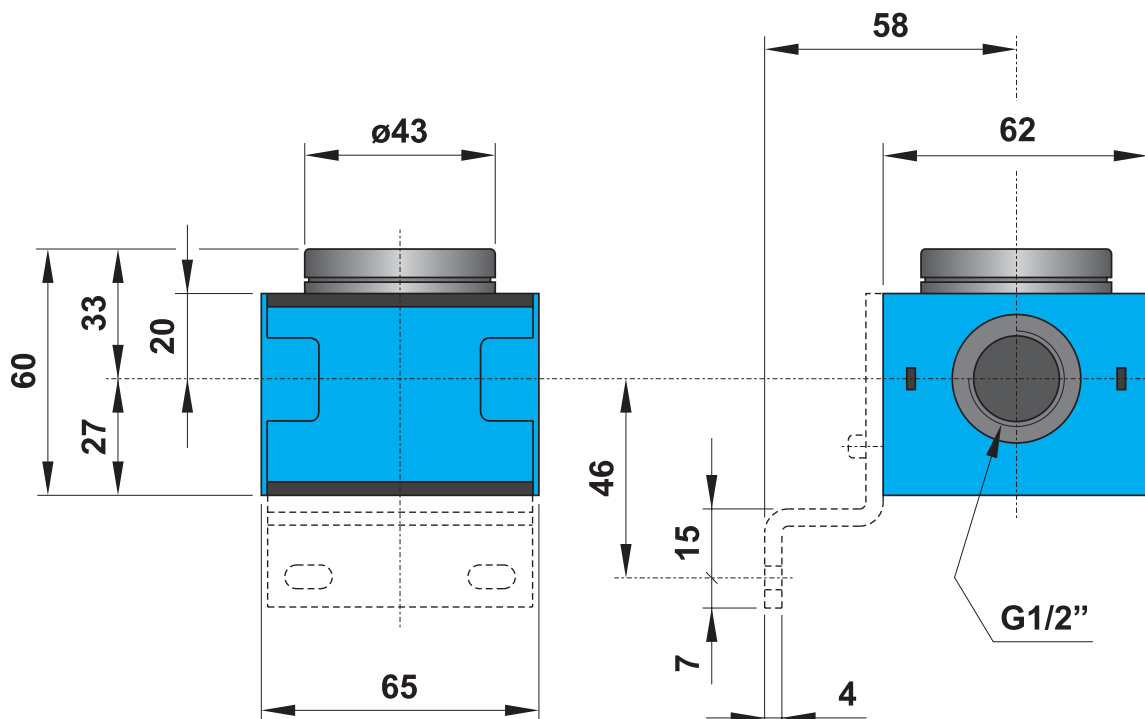
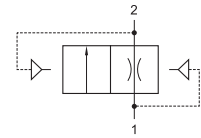


avviatore progressivo G1/2"

G1/2" slow-start valve



La staffa di fissaggio deve essere acquistata separatamente.
Mounting bracket is bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

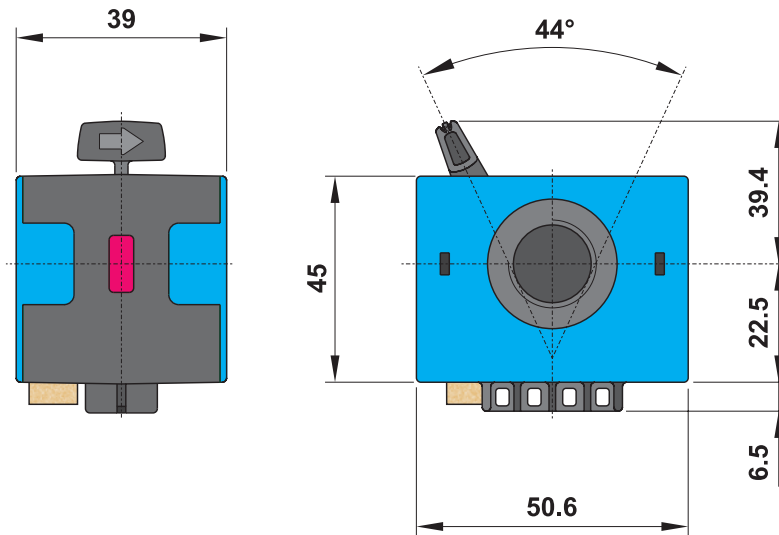
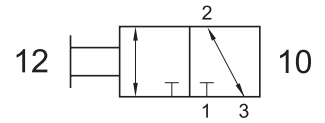
External parts: reinforced polymer

valvola di sezionamento circuito 3/2 G3/8"

3/2 G3/8" shut-off valve



- Elemento modulare ad alte prestazioni
High performance modular element
- Elevata portata in scarico
High exhaust flow rate
- Possibilità di chiusura a lucchetto
It can be secured with a padlock
- Installazione in qualsiasi posizione
Installation in any position



Materiali

Corpo: alluminio pressofuso

Parti interne: INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Internal parts: stainless steel

External parts: reinforced polymer

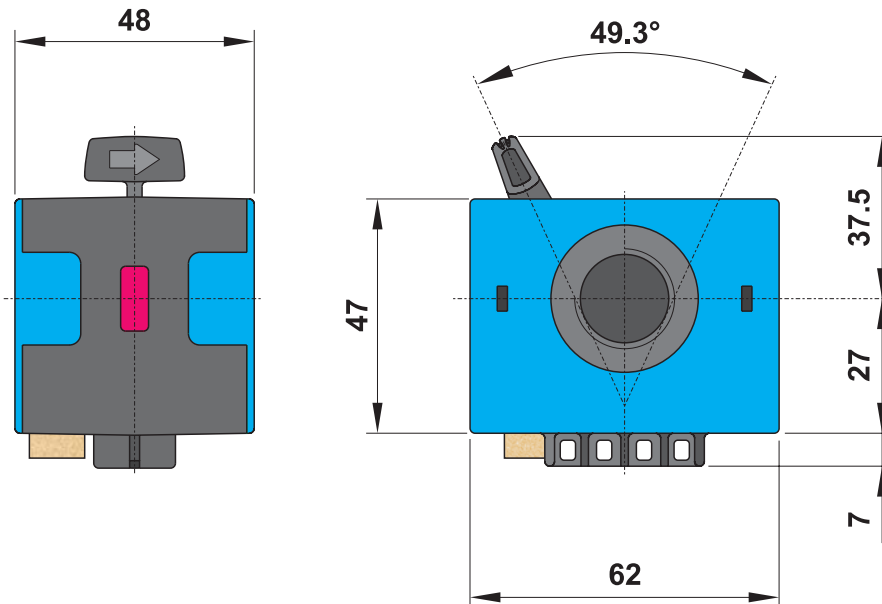
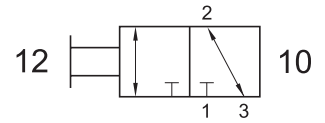
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		SR-M3
Attacchi <i>Ports</i>		G3/8"
Temperatura di esercizio <i>Temperature range</i>		max +60°C
Peso <i>Weight</i>		0.25 kg
Pressione di esercizio <i>Working pressure range</i>	p_{\min} p_{\max}	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6.3 \text{ bar a } 25 \text{ m/s}$ $p = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n 850 NI/min
Portata massima <i>Maximum flow rate</i>		Q_{\max} 5300 NI/min

valvola di sezionamento circuito 3/2 G1/2"

3/2 G1/2" shut-off valve



- Elemento modulare ad alte prestazioni
High performance modular element
- Elevata portata in scarico
High exhaust flow rate
- Possibilità di chiusura a lucchetto
It can be secured with a padlock
- Installazione in qualsiasi posizione
Installation in any position



Materiali

Corpo: alluminio pressofuso

Parti interne: INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Internal parts: stainless steel

External parts: reinforced polymer

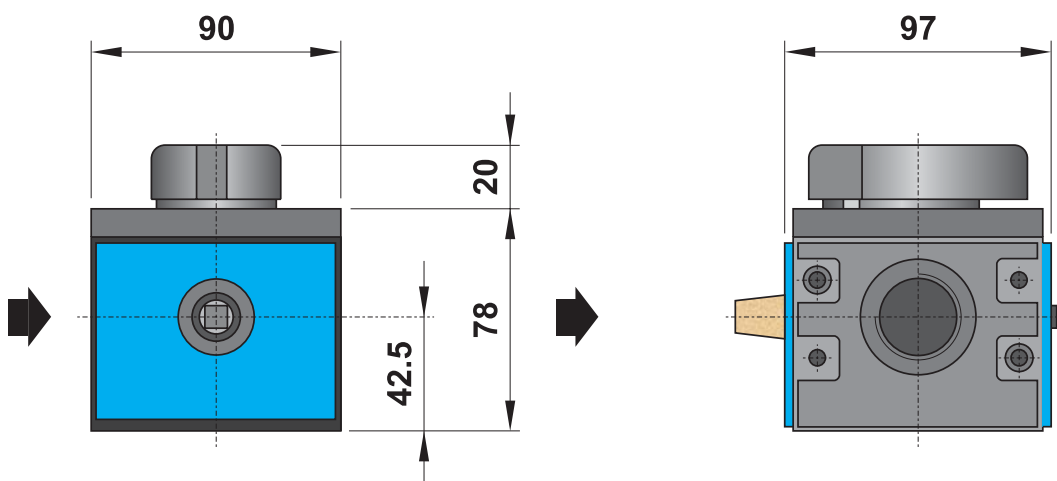
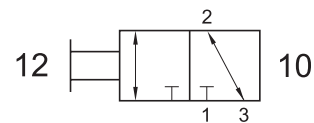
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		SR-M4
Attacchi <i>Ports</i>		G1/2"
Temperatura di esercizio <i>Temperature range</i>		max +60°C
Peso <i>Weight</i>		0.4 kg
Pressione di esercizio <i>Working pressure range</i>	p_{min} p_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6.3 \text{ bar a } 25 \text{ m/s}$ $p = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n 1900 NI/min
Portata massima <i>Maximum flow rate</i>		Q_{max} 7500 NI/min

valvola di sezionamento circuito 3/2 G1"

3/2 G1" shut-off valve



- Elemento modulare ad alte prestazioni
High performance modular element
- Elevata portata in scarico
High exhaust flow rate
- Installazione in qualsiasi posizione
Installation in any position



Materiali

Corpo: alluminio pressofuso

Parti interne: INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Internal parts: stainless steel

External parts: reinforced polymer

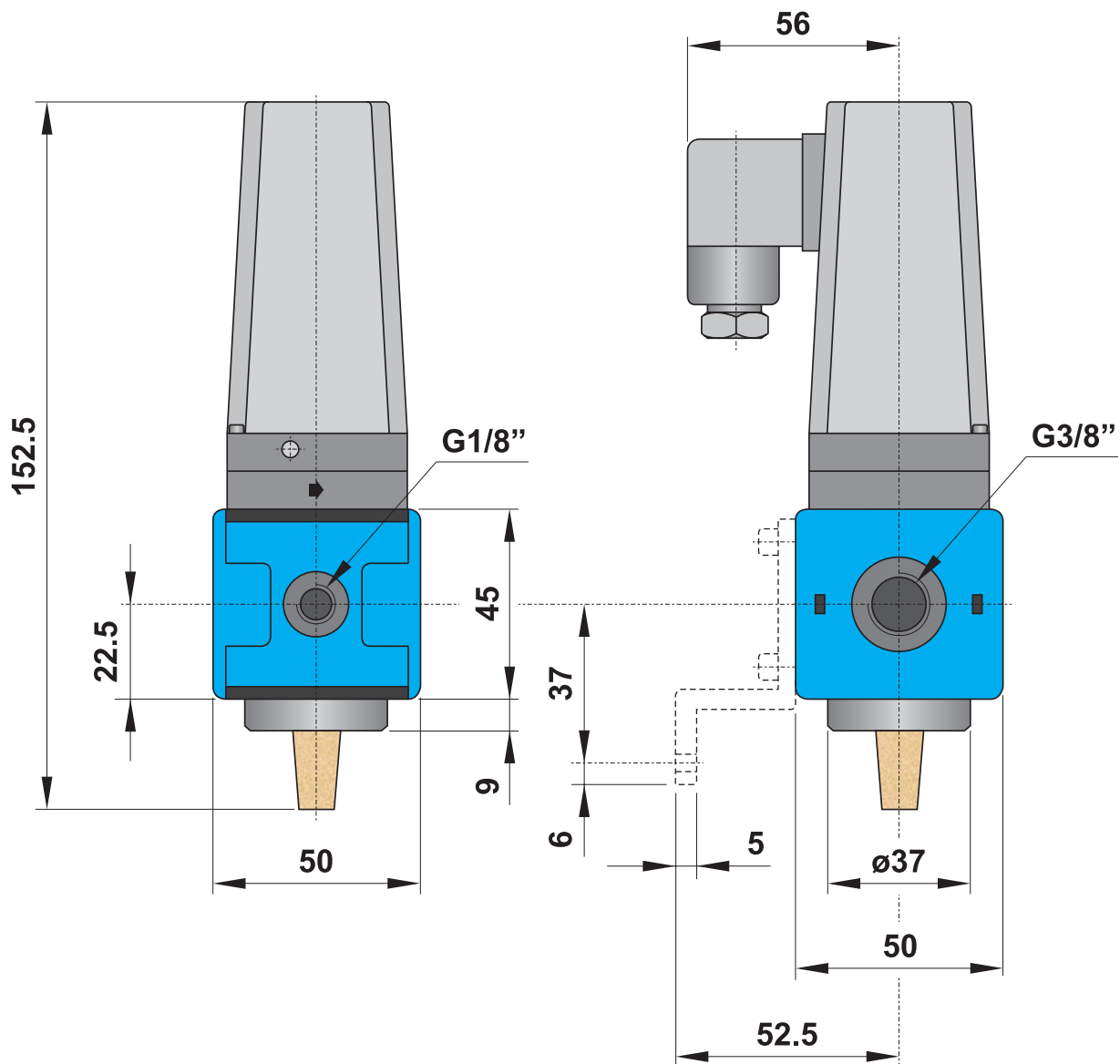
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		SR-M6
Attacchi <i>Ports</i>		G1"
Temperatura di esercizio <i>Temperature range</i>		max +60°C
Peso <i>Weight</i>		1.8 kg
Pressione di esercizio <i>Working pressure range</i>	p_{min} p_{max}	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$p = 6.3 \text{ bar a } 25 \text{ m/s}$ $p = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n 5000 NI/min
Portata massima <i>Maximum flow rate</i>		Q_{max} > 20000 NI/min

regolatore proporzionale elettronico G3/8"

electronically controlled proportional pressure regulator G3/8"



- Valvola di regolazione a pistone
Piston-type pressure regulating valve
- Controllo elettronico remoto
Remote electronic control
- Pressione minima di controllo e di funzionamento: 0 bar
Control and operating pressure: min. 0 bar
- Struttura modulare, compatibile con gli altri elementi della serie G3/8"
Modular design, direct coupling with G3/8" units
- Non consuma aria
No air consumption
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 3)
Vertical installation; bracket on request (code STF 3)



regolatore proporzionale elettronico G3/8"

electronically controlled proportional pressure regulator G3/8"



CODICE DI ORDINAZIONE ORDER CODE		RPE 3 V NC	RPE 3 V NA	RPE 3 A NC
		normalmente chiuso <i>normally closed</i>	normalmente aperto <i>normally open</i>	normalmente chiuso <i>normally closed</i>
Attacchi <i>Ports</i>		G3/8"	G3/8"	G3/8"
Temperatura di esercizio <i>Temperature range</i>		max +50°C	max +50°C	max +50°C
Fluido <i>Fluid</i>		Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>		
Peso <i>Weight</i>		0.6 kg	0.6 kg	0.6 kg
Caratteristiche pneumatiche - Pneumatic characteristics				
Pressione di alimentazione ($p_1 \geq p_2 + 0.1 \cdot p_2$) <i>Inlet pressure range</i>	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \min}$ $p_{2 \max}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Portata nominale <i>Nominal flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}$ Q_n	2500 NI/min	2500 NI/min	2500 NI/min
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$ Q_n	850 NI/min	850 NI/min	850 NI/min
Isteresi <i>Hysteresis</i>	% $p_{2 \max}$	< 1	< 1	< 1
Ripetibilità <i>Repeatability</i>	% $p_{2 \max}$	< 0.5	< 0.5	< 0.5
Sensibilità <i>Sensitivity</i>	% $p_{2 \max}$	< 0.5	< 0.5	< 0.5
Linearità <i>Linearity</i>	% $p_{2 \max}$	< 1	< 1	< 1
Caratteristiche elettriche - Electrical characteristics				
Voltaggio nominale <i>Nominal voltage</i>	U_N	24V DC ± 10%	24V DC ± 10%	24V DC ± 10%
Oscillazione residua <i>Residual ripple</i>		10%	10%	10%
Consumo di corrente <i>Power consumption</i>		0.15 A	0.15 A	0.15 A
Tensione del segnale di regolazione <i>Tension of set value input</i>	U_w	0-10 V	0-10 V	0-10 V
Intensità del segnale di regolazione <i>Current intensity of set value input</i>	I_w	0-20 mA	0-20 mA	4-20 mA
Resistenza in ingresso <i>Input resistance</i>	R_E	200 kΩ	200 kΩ	200 kΩ
Tensione del segnale di rilevazione della pressione in uscita <i>Tension of actual value output</i>	U_x	0-10 V	0-10 V	0-10 V
Intensità del segnale di rilevazione della pressione in uscita <i>Current intensity of actual value output</i>	$I_{x \max}$	20 mA	20 mA	20 mA
Protezione elettrica secondo DIN 40050, EN 60529 <i>Electrical protection according to DIN 40050, EN 60529</i>		IP 65	IP 65	IP 65

L'impostazione della regolazione per il modello **RPE 3 V NC** e **RPE 3 V NA** è basata sulla tensione del segnale di ingresso (da 0 a 10 V, un Volt per ogni bar). Per il modello **RPE 3 A NC** la regolazione è basata sull'intensità del segnale di ingresso (da 4 a 20 mA).

The setting of the input value, for the model **RPE 3 V NC** and **RPE 3 V NA**, is based on the voltage of the input signal (from 0 to 10 V, one Volt for each bar).

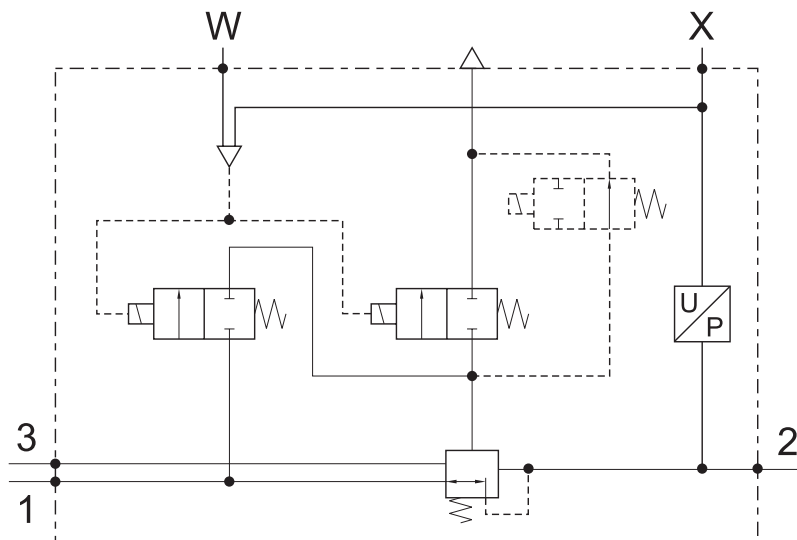
For the model **RPE 3 A NC** the setting is based on the current intensity of the input signal (from 4 to 20 mA).

regolatore proporzionale elettronico G3/8"

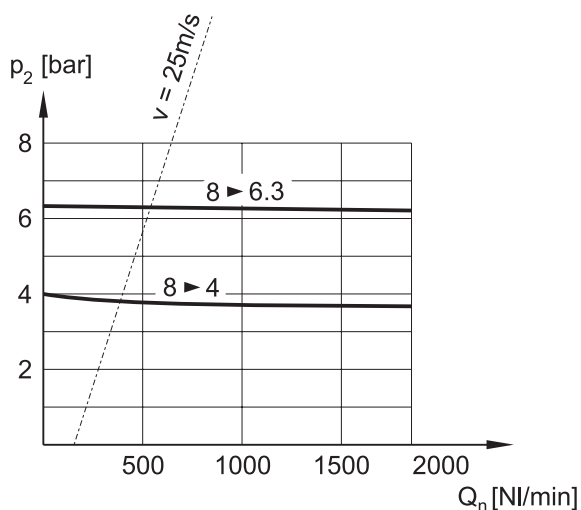
electronically controlled proportional pressure regulator G3/8"



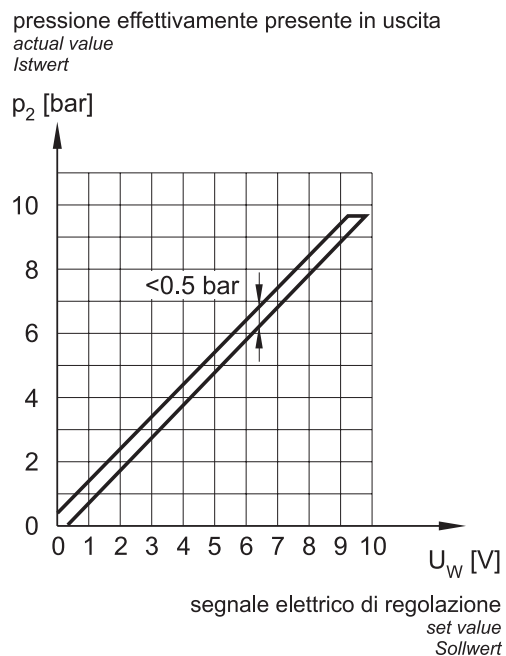
Schema pneumatico
Pneumatic diagram



Caratteristiche di portata
Flow characteristics



Pressione in uscita in funzione della tensione del segnale in ingresso
Output pressure as function of input voltage



La staffa di fissaggio (cod. STF 3), il kit di assemblaggio (cod. KIT 3-00) e il manometro devono essere acquistati separatamente.

Per lo schema di collegamento e la spiegazione dei termini tecnici vedi le pagine 449-450-451.

Mounting bracket (code STF 3), coupling kit (code KIT 3-00) and manometer are bought separately.

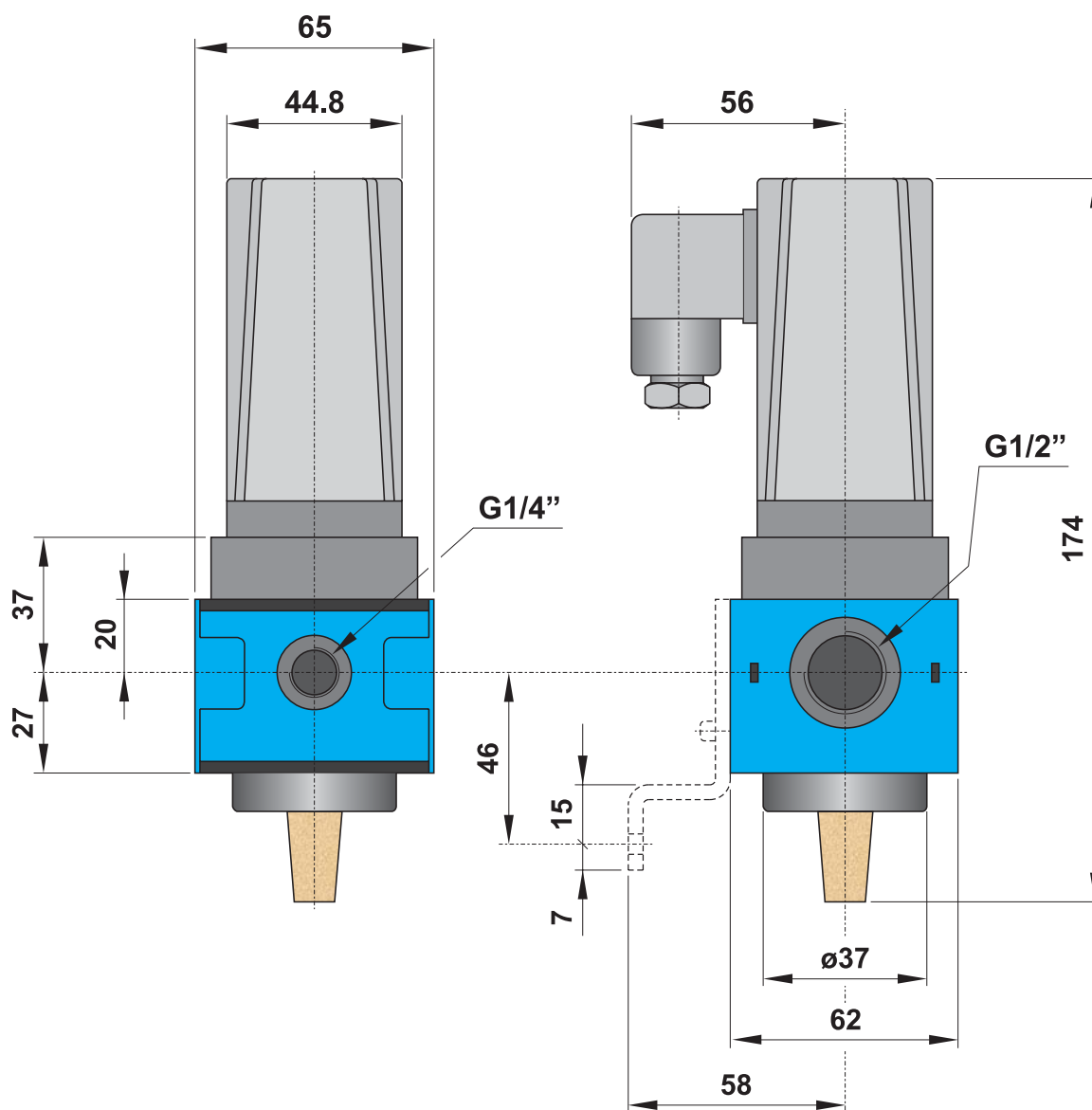
For the connection diagram and the explanation of the technical terms see pages 449-450-451.

regolatore proporzionale elettronico G1/2"

electronically controlled proportional pressure regulator G1/2"



- Valvola di regolazione a pistone
Piston-type pressure regulating valve
- Controllo elettronico remoto
Remote electronic control
- Pressione minima di controllo e di funzionamento: 0 bar
Control and operating pressure: min. 0 bar
- Struttura modulare, compatibile con gli altri elementi della serie G1/2"
Modular design, direct coupling with G1/2" units
- Non consuma aria
No air consumption
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4)
Vertical installation; bracket on request (code STF 4)



regolatore proporzionale elettronico G1/2"

electronically controlled proportional pressure regulator G1/2"



CODICE DI ORDINAZIONE ORDER CODE		RPE 4 V NC	RPE 4 V NA	RPE 4 A NC
		normalmente chiuso <i>normally closed</i>	normalmente aperto <i>normally open</i>	normalmente chiuso <i>normally closed</i>
Attacchi <i>Ports</i>		G1/2"	G1/2"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		max +50°C	max +50°C	max +50°C
Fluido <i>Fluid</i>		Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>		
Peso <i>Weight</i>		0.95 kg	0.95 kg	0.95 kg
Caratteristiche pneumatiche - Pneumatic characteristics				
Pressione di alimentazione ($p_1 \geq p_2 + 0.1 \cdot p_2$) <i>Inlet pressure range</i>	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \min}$ $p_{2 \max}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Portata nominale <i>Nominal flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}$ Q_n	6000 NI/min	6000 NI/min	6000 NI/min
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$ Q_n	1900 NI/min	1900 NI/min	1900 NI/min
Isteresi <i>Hysteresis</i>	% $p_{2 \max}$	< 1	< 1	< 1
Ripetibilità <i>Repeatability</i>	% $p_{2 \max}$	< 0.5	< 0.5	< 0.5
Sensibilità <i>Sensitivity</i>	% $p_{2 \max}$	< 0.5	< 0.5	< 0.5
Linearità <i>Linearity</i>	% $p_{2 \max}$	< 1	< 1	< 1
Caratteristiche elettriche - Electrical characteristics				
Voltaggio nominale <i>Nominal voltage</i>	U_N	24V DC ± 10%	24V DC ± 10%	24V DC ± 10%
Oscillazione residua <i>Residual ripple</i>		10%	10%	10%
Consumo di corrente <i>Power consumption</i>		0.15 A	0.15 A	0.15 A
Tensione del segnale di regolazione <i>Tension of set value input</i>	U_w	0-10 V	0-10 V	0-10 V
Intensità del segnale di regolazione <i>Current intensity of set value input</i>	I_w	0-20 mA	0-20 mA	4-20 mA
Resistenza in ingresso <i>Input resistance</i>	R_E	200 kΩ	200 kΩ	200 kΩ
Tensione del segnale di rilevazione della pressione in uscita <i>Tension of actual value output</i>	U_x	0-10 V	0-10 V	0-10 V
Intensità del segnale di rilevazione della pressione in uscita <i>Current intensity of actual value output</i>	$I_{x \max}$	20 mA	20 mA	20 mA
Protezione elettrica secondo DIN 40050, EN 60529 <i>Electrical protection according to DIN 40050, EN 60529</i>		IP 65	IP 65	IP 65

L'impostazione della regolazione per il modello **RPE 4 V NC** e **RPE 4 V NA** è basata sulla tensione del segnale di ingresso (da 0 a 10 V, un Volt per ogni bar). Per il modello **RPE 4 A NC** la regolazione è basata sull'intensità del segnale di ingresso (da 4 a 20 mA).

The setting of the input value, for the model **RPE 4 V NC** and **RPE 4 V NA**, is based on the voltage of the input signal (from 0 to 10 V, one Volt for each bar).

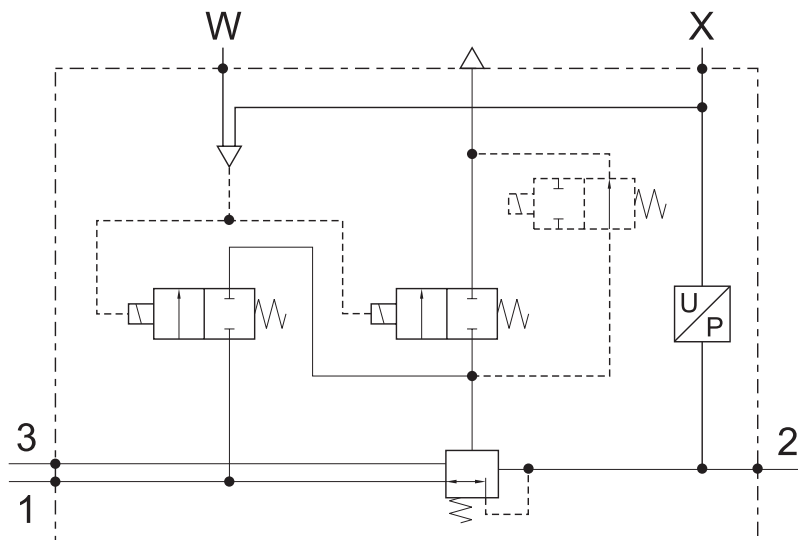
For the model **RPE 4 A NC** the setting is based on the current intensity of the input signal (from 4 to 20 mA).

regolatore proporzionale elettronico G1/2"

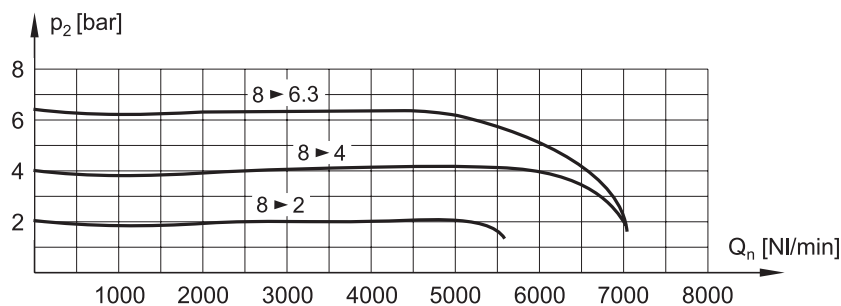
electronically controlled proportional pressure regulator G1/2"



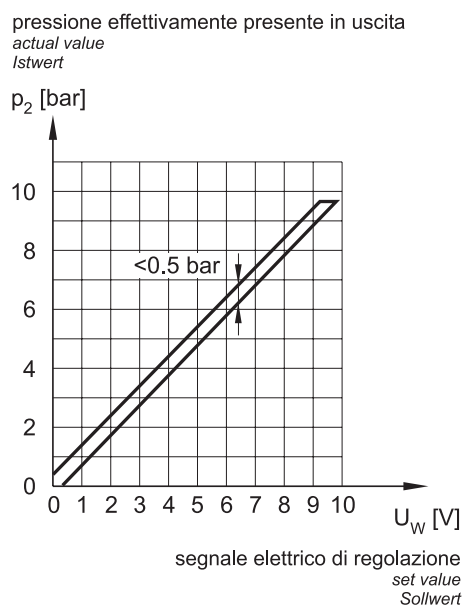
Schema pneumatico
Pneumatic diagram



Caratteristiche di portata
Flow characteristics



Pressione in uscita in funzione della tensione del segnale in ingresso
Output pressure as function of input voltage



La staffa di fissaggio (cod. STF 4), il kit di assemblaggio (cod. KIT 4-00) e il manometro devono essere acquistati separatamente.

Per lo schema di collegamento e la spiegazione dei termini tecnici vedi le pagine 449-450-451.

Mounting bracket (code STF 4), coupling kit (code KIT 4-00) and manometer are bought separately.

For the connection diagram and the explanation of the technical terms see pages 449-450-451.

regolatore proporzionale elettronico

electronically controlled proportional pressure regulator

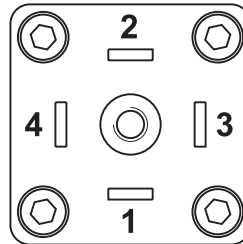


Schema di collegamento

Connection diagram

Anschlussschema

Shema priklopa



Punto 1:

Alimentazione (polo positivo) +24V DC $\pm 10\%$ 0.15 A
Oscillazione residua ammessa fino a 10%

Punto 2:

Alimentazione 0V
Potenziale di riferimento per l'impostazione del valore di regolazione (punto 3) e per la misurazione del valore di pressione effettivamente presente in uscita (punto 4).

Punto 3: Ingresso del segnale di regolazione.

Per la regolazione si utilizza la tensione (da 0 a 10V) o l'intensità di corrente (da 4 a 20 mA).

Punto 4: Rilevamento della pressione effettivamente presente in uscita. Uscita analogica variabile da 0 a 10V. La massima intensità di corrente possibile è 20mA. La tensione viene misurata in riferimento al potenziale presente al punto 2.

Klemme 1:

Stromversorgung Pluspol +24V DC $\pm 10\%$ 0.15A
Restwelligkeit 10%

Klemme 2:

Stromversorgung 0V
Bezugs- und Massepotential für Soll- und Istwert.

Klemme 3:

Sollwerteingang
An diesem Eingang liegt die positive Sollwertspannung von 0-10V bzw. der Strom 4-20 mA.

Klemme 4:

Analoger Istwertausgang 0-10V bei Geräten mit 10 bar Druckausgang.
Dieser Ausgang ist max. 20mA belastbar, die Signalspannung wird gegen Bezugspotential (Klemme 2) gemessen.

Pin 1: Power supply +24V DC $\pm 10\%$ 0.15A, residual ripple 10%

Pin 2: Power supply 0V, reference potential for set and actual value.

Pin 3: Set value input. Voltage 0-10V or current intensity 4-20mA

Pin 4: Analog actual value output. Voltage from 0 to 10V. The voltage is measured with reference to the potential at pin 2. This output has a max. capacity of 20 mA.

Pin 1: Napajanje +24V DC $\pm 10\%$ 0.15A, valovitost do 10%

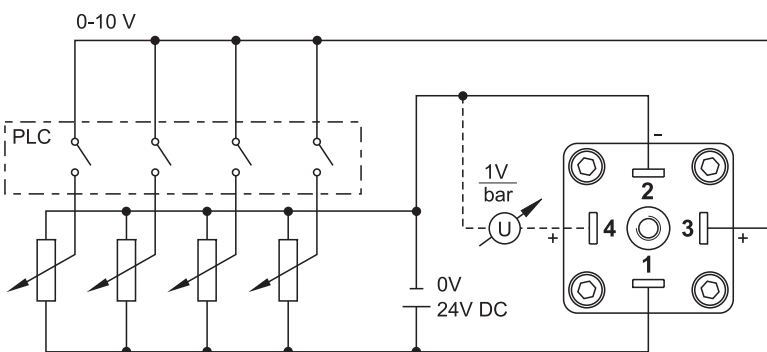
Pin 2: Napajanje 0V, referenčna vrednost za nastavljeni in dejanski veličino.

Pin 3: Nastavitveni vhod. Regulirna veličina: napetost 0-10V ali tok 4-20 mA.

Pin 4: Analogen izhod proporcionalen dejanski vrednosti tlaka, napetost 0-10V. Napetost glede na referenčno vrednost na pinu 2. Dopustna obremenitev izhoda 20 mA.

PLC connesso a più potenziometri

PLC in connection with several potentiometers

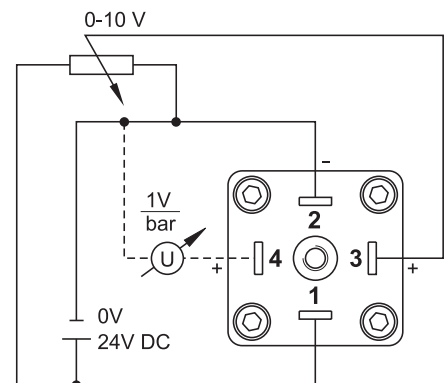


La resistenza totale dell'insieme dei potenziometri deve essere almeno 500 Ω

The total resistance of the potentiometers group should not be less than 500 Ω

Collegamento con un singolo potenziometro

Connection with a single potentiometer



La resistenza del potenziometro deve essere tra 500 Ω e 100 k Ω

The resistance of the potentiometer should range between 500 Ω and 100 k Ω



Sensibilità

La minima variazione del valore di regolazione che causa una effettiva variazione della pressione in uscita è denominata "sensibilità" e si esprime in percentuale rispetto al valore massimo di pressione consentito dal dispositivo di regolazione. Nel caso del nostro regolatore di pressione proporzionale, il valore di sensibilità è inferiore allo 0.5%. Ciò significa che la regolazione è molto precisa.

Linearità

Esprimendo la pressione in uscita in funzione del valore di regolazione impostato, si dovrebbe poter ottenere una funzione lineare che consenta di predire quale sarà il valore in uscita in riferimento a un dato valore impostato. Esiste però una differenza tra il valore teoricamente previsto e il valore effettivamente presente in uscita, ed essa si può calcolare sulla base della massima deviazione rispetto al valore teorico corrispondente alla massima pressione consentita dal dispositivo di regolazione. La linearità si esprime in percentuale rispetto a questa massima pressione.

Isteresi

L'isteresi è causata dall'attrito e da una temporanea deformazione delle parti interne di natura elastica soggette a pressione. Durante il funzionamento si possono pertanto notare differenti pressioni in uscita in riferimento a un medesimo valore di regolazione. Questi diversi valori dipendono anche dal senso della regolazione, che può andare dal basso verso l'alto o dall'alto verso il basso. Il valore di isteresi del nostro regolatore di pressione è inferiore a 0.1 bar.

Ripetibilità

Impostando ripetutamente e in tempi distinti un medesimo valore di regolazione, i diversi valori di pressione effettivamente ottenuti in uscita sono pressoché identici e differiscono meno tra di loro che rispetto al valore teorico impostato. Una isteresi minore consente pertanto una ripetibilità migliore.

Ansprechempfindlichkeit

Die kleinste Sollwertdifferenz, die zu einer Änderung des Ausgangsdruckes führt, wird als Ansprechempfindlichkeit bezeichnet. In Prozentsatz vom maximalen Ausgangsdruck angegeben, beträgt dieser Wert nur 0.5%. Das ermöglicht eine sehr feinfühligkeit Einstellbarkeit des Ausgangsdruckes.

Linearität

Wird der Ausgangsdruck in Abhängigkeit vom Sollwert dargestellt, sollte sich eine möglichst gerade (lineare) Kennlinie ergeben, so dass möglichst exakt vorhergesagt werden kann, welcher Druck bei der jeweiligen Vorgabe zu erwarten ist. Die Abweichung errechnet sich aus der maximalen Differenz zur idealen Kennlinie, bezogen auf den höchstmöglichen Ausgangsdruck.

Hysterese

Die Hysterese wird auch Umkehrspanne genannt und entsteht durch Reibung sowie kurzfristige Verformung elastischer Bauteile. Für den Betrieb ergeben sich dadurch unterschiedliche Ausgangsdrücke bei gleicher Sollwert-Vorgabe, je nachdem, ob der vorhergegangene Wert größer oder kleiner war. Unser elektronisch gesteuertes Druckregelventil hat eine Abweichung kleiner als 0.1 bar.

Wiederholgenauigkeit

Regelungstechnische Komponenten sind in der Wiederholung eines einmal eingestellten Wertes genauer als beim Anfahren absoluter Werte. Darüber hinaus wird die Wiederholgenauigkeit durch eine möglichst kleine Hysterese günstig beeinflusst.

5



Sensitivity

The smallest change of set output pressure which leads to a change in actual output pressure is named "sensitivity" and it is expressed as percentage of the maximum output pressure possible for the device. The sensitivity of our pressure regulator is below 0.5%, which allows output pressure to be set very precisely.

Linearity

The ideal graphic curve which shows the output pressure in relation with the electronic input signal would be a straight (linear) line. This line would allow to predict which output pressure can be expected when a certain input voltage is applied. The deviation from the ideal value can be calculated on the basis of the difference between the ideal and the actual output value at the highest pressure allowed by the device, and it is expressed in percentage of this maximum output pressure.

Hysteresis

The same set output pressure generates slightly different actual output pressures, depending on whether the previous setting was higher or lower. This difference, known as hysteresis, is caused by friction and temporary deformation of elastic components. The hysteresis of our pressure regulator is below 0.1 bar.

Repeatability

Control components, for a given set value, usually produce repeated actual values which differ less from each other than from the absolute set value. Repeatability is improved if hysteresis is minimized.

Občutljivost

Najmanjša sprememba nastavljenega izhodnega pritiska, ki povzroči dejansko spremembo pritiska na izhodu naprave, se imenuje občutljivost in se izraža kot odstotek največjega možnega pritiska na izhodu naprave. Občutljivost našega tlačnega regulatorja je manjša od 0.5%, kar omogoča zelo precizno nastavitvev izhodnega pritiska.

Linearnost

Idealna krivulja, ki predstavlja odvisnost izhodnega pritiska od električnega vhodnega signala, je premica. S tako krivuljo bi lahko enostavno predvideli, kakšen bo pritisk na izhodu ob določeni električni napetosti na vhodu. Odstopanje od te idealne krivulje je moč izračunati iz razlike med idealno krivuljo in dejansko vrednostjo pritiska na izhodu, ko ta doseže največjo možno vrednost; odmik izražamo kot odstotek maksimalnega možnega pritiska na izhodu naprave.

Histereza

Določena vrednost vhodnega signala povzroči spremembo izhodnega pritiska, ki pa ni vedno enaka in je odvisna od tega, ali je bila prejšnja nastavljena vrednost višja ali nižja. To minimalno razliko, znano tudi kot histerezo, povzroča trenje in začasne deformacije prožnih komponent. Histereza našega tlačnega regulatorja znaša manj kot 0.1 bar.

Ponovljivost

Krmilne naprave se na neko nastavljeno vrednost vhoda navadno odzovejo z enakimi dejanskimi vrednostmi na izhodu, ki se ena od druge manj razlikujejo, kot se vsaka posamezna razlikuje od absolutne nastavljene vrednosti. Ponovljivost se izboljša z zmanjšanjem histereze.

PRESA D'ARIA

porting block

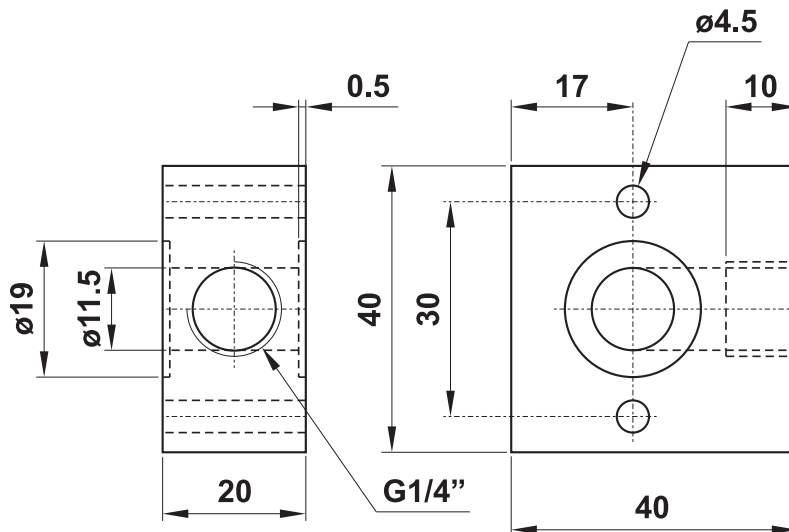
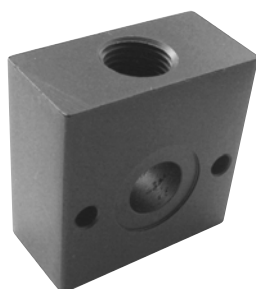
Può essere utilizzata per prelevare aria non lubrificata e/o non regolata.

It can be used to provide unlubricated and/or unregulated air.

G1/4"

CODICE DI ORDINAZIONE
ORDER CODE

PAI 2-00



Materiale: alluminio

Material: aluminium

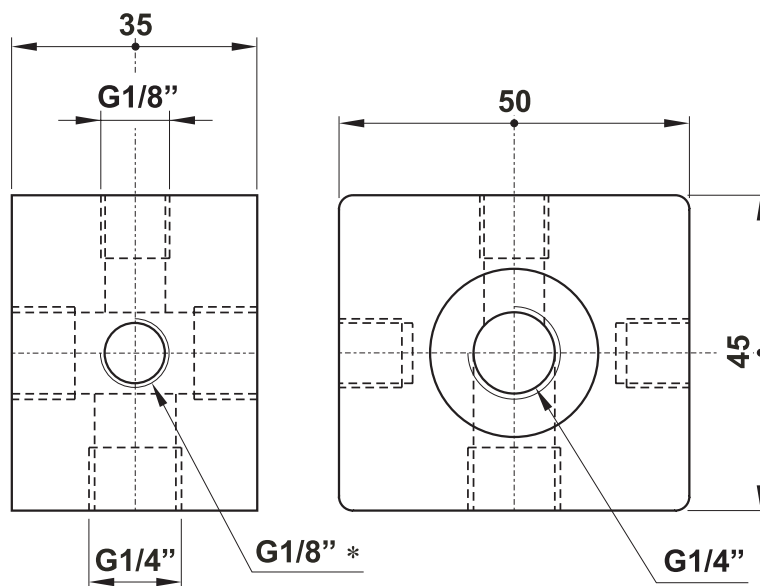
Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio

Each element is sold in kit with all necessary pieces for installation

G3/8"

CODICE DI ORDINAZIONE
ORDER CODE

PAI 3-00



Materiale: zamak

Material: zamak

* : filetto G1/8" (prof. 10 mm circa) da ambo le parti.

In caso di necessità l'utilizzatore può forare il fondo per avere una presa d'aria aggiuntiva (foro $\varnothing 4$).

* : G1/8" thread on both sides (depth about 10 mm) ready for through-drilling hole $\varnothing 4$.

accessori per gruppi trattamento aria

accessories for air preparation units

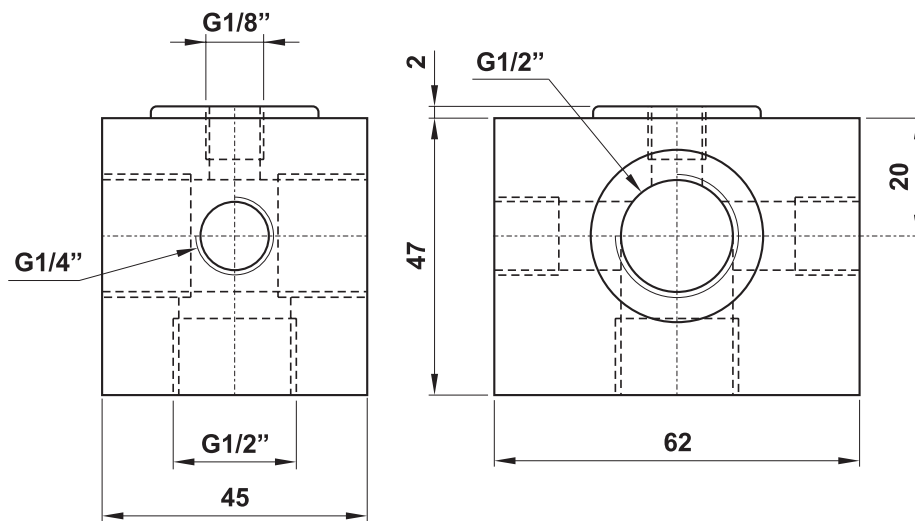
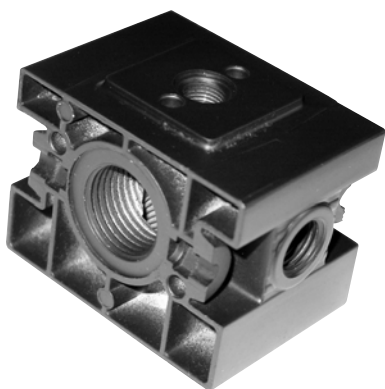


G1/2"

CODICE DI ORDINAZIONE
ORDER CODE

PAI 4-00

Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio
Each element is sold in kit with all necessary pieces for installation

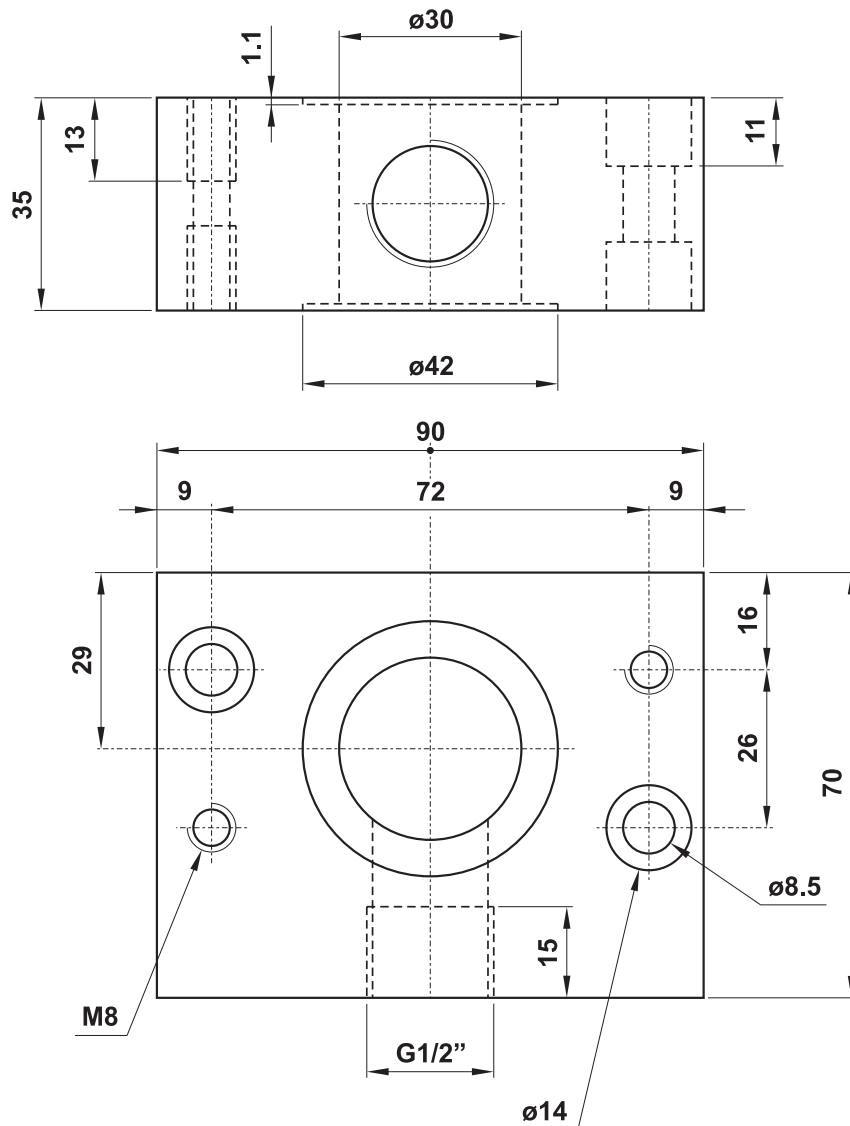


Materiale: zamak *Material: zamak*

G1"

CODICE DI ORDINAZIONE
ORDER CODE

PAI 6-00



Materiale: alluminio *Material: aluminium*

Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio
Each element is sold in kit with all necessary pieces for installation

PROTEZIONE PER TAZZA

bowl protection

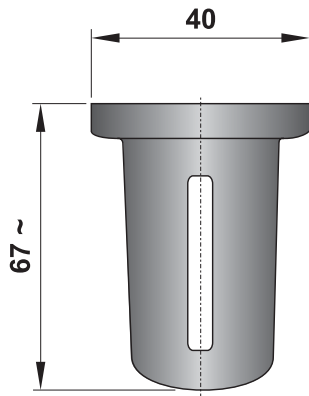
G1/4"

PLASTICA

CODICE DI ORDINAZIONE

ORDER CODE

PR 2-00



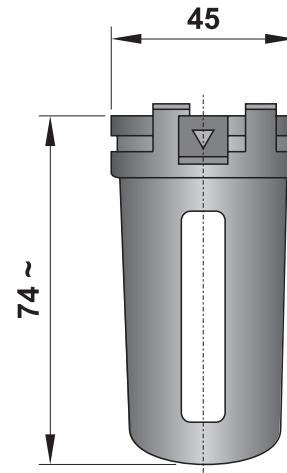
G3/8"

METALLO

CODICE DI ORDINAZIONE

ORDER CODE

PR 3-00



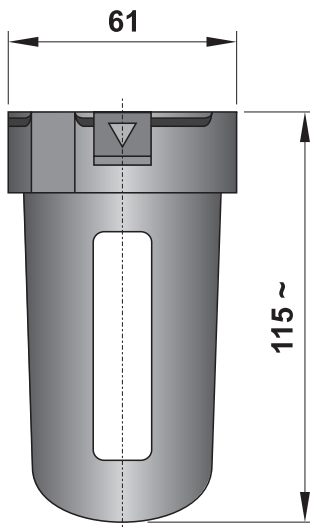
G1/2"

METALLO

CODICE DI ORDINAZIONE

ORDER CODE

PR 4-00



5

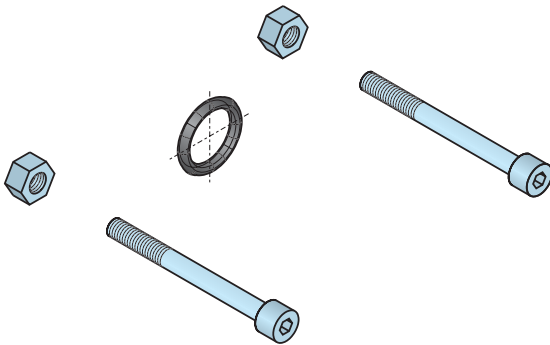
KIT MONTAGGIO

coupling kit

G1/4"

CODICE DI ORDINAZIONE
ORDER CODE

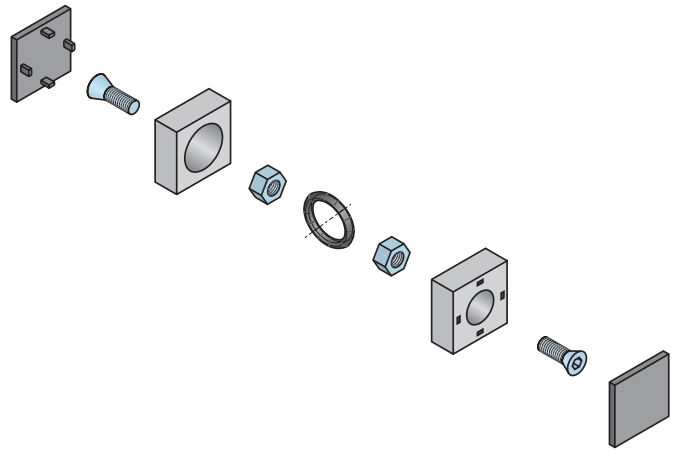
KIT 2-00



G3/8"

CODICE DI ORDINAZIONE
ORDER CODE

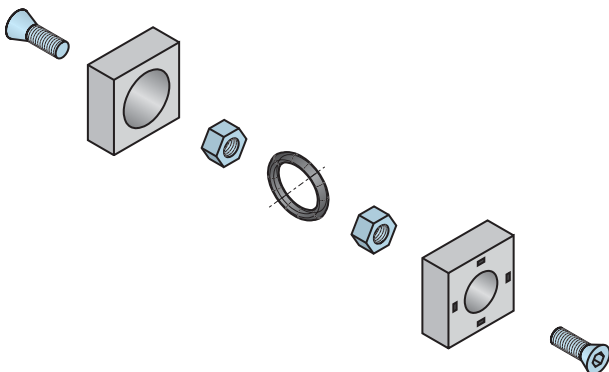
KIT 3-00



G1/2"

CODICE DI ORDINAZIONE
ORDER CODE

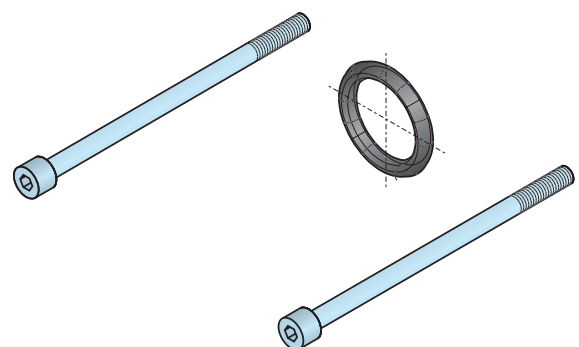
KIT 4-00



G1"

CODICE DI ORDINAZIONE
ORDER CODE

KIT 6-00



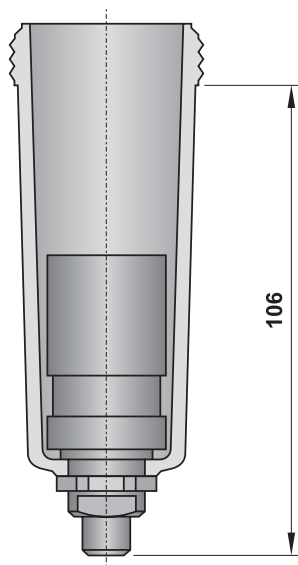
G1"
NUOVO

CODICE DI ORDINAZIONE
ORDER CODE

KIT 6N-00

SCARICO AUTOMATICO CONDENZA

automatic moisture exhaust

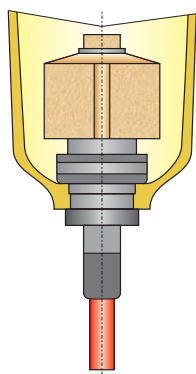


G3/8"

CODICE DI ORDINAZIONE
ORDER CODE

AKS 3

Per l'installazione sostituire la tazza normale con questa tazza dotata di scarico automatico.
This bowl with automatic exhaust replaces the normal filter bowl.



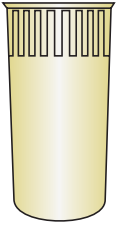
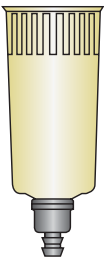



G1/2"

G1"

CODICE DI ORDINAZIONE
ORDER CODE

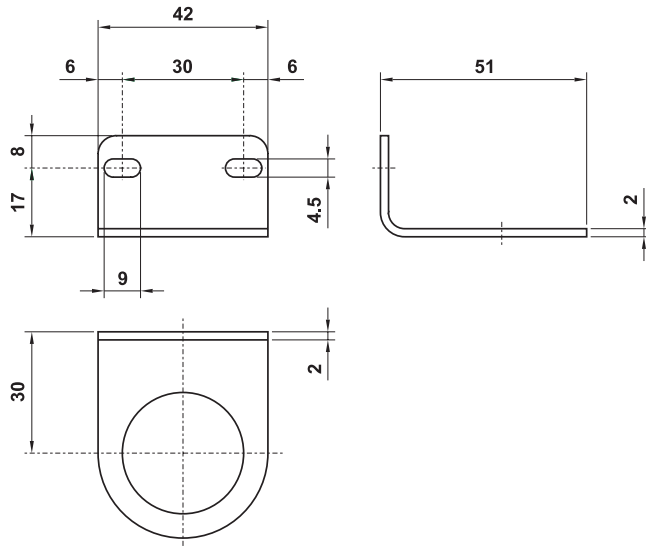
AKS 4-6

Per l'installazione montare questo elemento all'interno della tazza togliendo il dispositivo per lo scarico semiautomatico.
Lo stesso elemento si utilizza sia per i filtri da G1/2" sia per quelli da G1".
This element replaces the semi-automatic exhaust device located in a normal filter bowl.
The same element is used for G1/2" and G1" filters.

descrizione <i>description</i>		dimensione <i>size</i>	codice di ordinazione <i>order code</i>
	TAZZA PER LUBRIFICATORE <i>bowl for lubricator</i>	G1/4"	16.065.0
		G3/8"	16.067.0
		G1/2"	16.069.0
		G1"	16.009.2
	TAZZA PER FILTRO <i>bowl for filter</i>	G1/4"	16.064.0
		G3/8"	16.066.0
		G1/2"	16.068.0
		G1"	16.008.2
	MEMBRANA PER REGOLATORE DI PRESSIONE <i>diaphragm for pressure regulator</i>	G3/8"-G1/2"	16.098.0
		G1"	16.099.0
	ELEMENTO FILTRANTE <i>filter element</i>	25 µm	G1/4" 16.061.0
		5 µm	G1/4" 16.031.0
		30 µm	G3/8" 16.062.0
		5 µm	G3/8" 16.032.0
		30 µm	G1/2" 16.063.0
		5 µm	G1/2" 16.033.0
		30 µm	G1" 16.107.0 <i>per filtro [for filter]</i>
		30 µm	G1" 16.108.0 <i>per filtroregolatore [for filter-regulator]</i>
		5 µm	G1" 16.078.0 <i>per filtro [for filter]</i>
		5 µm	G1" 16.084.0 <i>per filtroregolatore [for filter-regulator]</i>
	CUPOLA VISIVA PER LUBRIFICATORE <i>oil view element for lubricator</i>	G1/4"	16.104.0
		G3/8"-G1/2"	16.105.0
		G1"	16.106.0

STAFFE DI FISSAGGIO

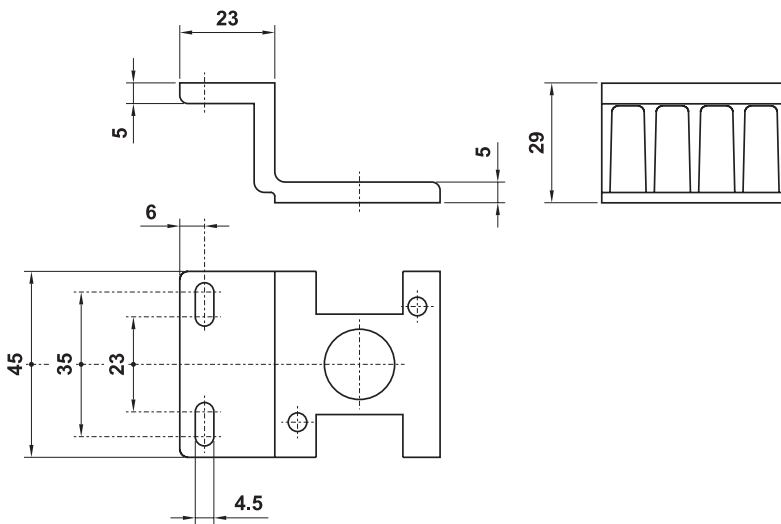
mounting brackets



G1/4"

CODICE DI ORDINAZIONE
ORDER CODE

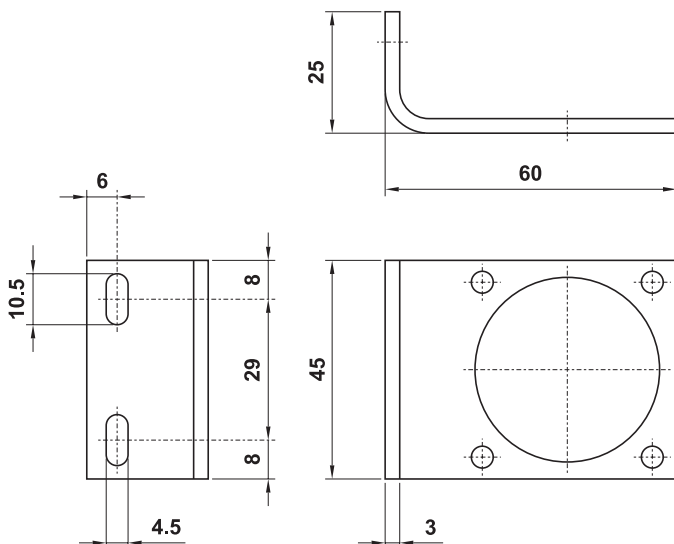
STF 2



G3/8"

CODICE DI ORDINAZIONE
ORDER CODE

STF 3



G3/8"

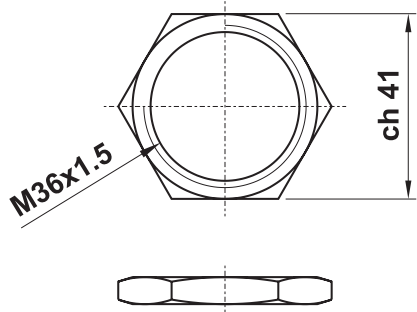
CODICE DI ORDINAZIONE
ORDER CODE

STF 3A

5

STAFFE DI FISSAGGIO

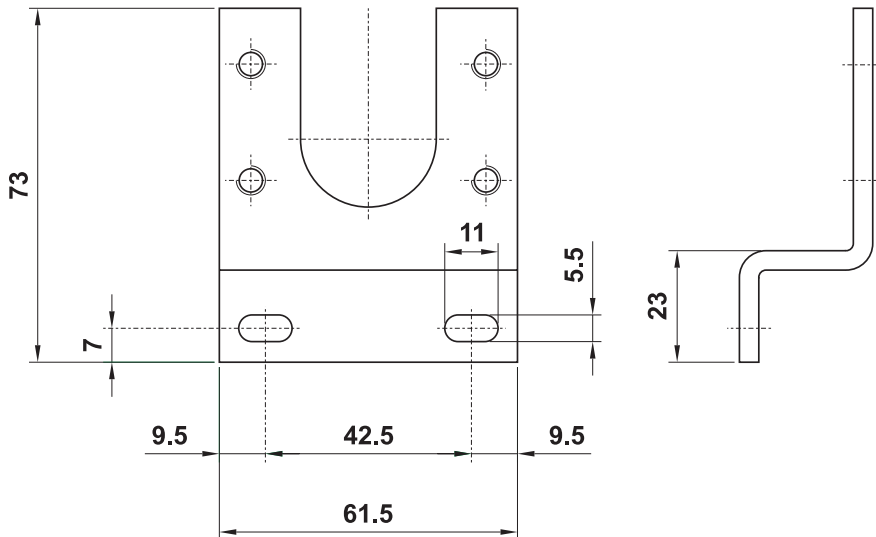
mounting brackets



G3/8"

CODICE DI ORDINAZIONE
ORDER CODE

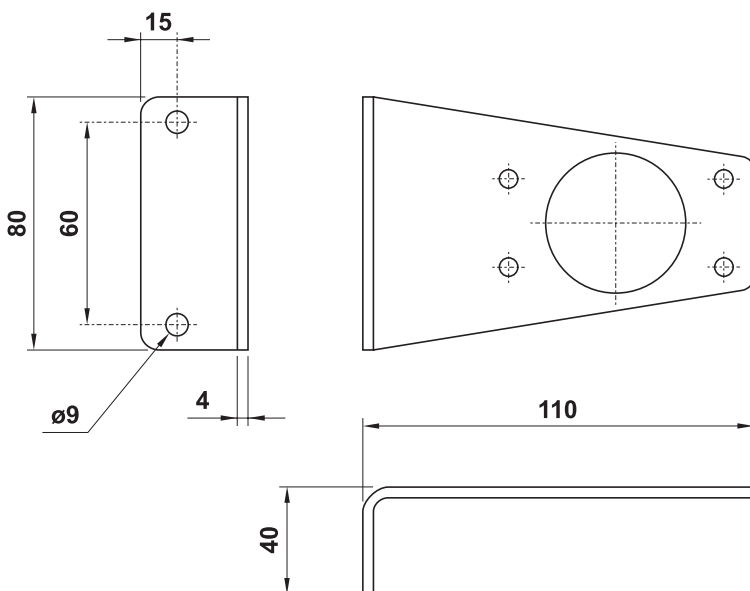
STF 3B



G1/2"

CODICE DI ORDINAZIONE
ORDER CODE

STF 4



G1"

CODICE DI ORDINAZIONE
ORDER CODE

STF 6

La sigla si riferisce a una coppia di staffe
The part number is referred to a couple of brackets

5

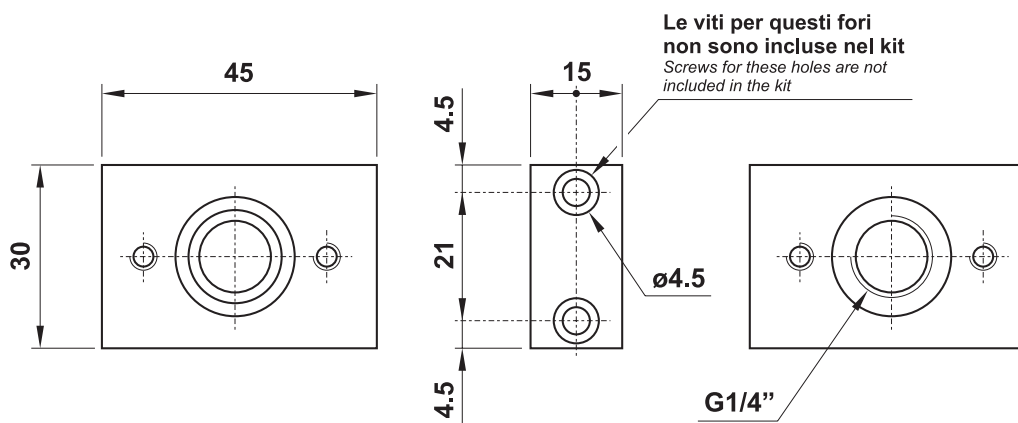
piastrina di fissaggio a parete per filtri e lubrificatori G1/4"

adaptor for side mounting - filters and lubricators G1/4"

- Utilizzabile per il fissaggio a parete di **filtro e/o lubrificatore**
*It can be used to install **filter** and/or **lubricator***
- Si utilizza in posizione intermedia per il fissaggio di **FIL + LUB**
*To be used in intermediate position to install **FIL + LUB***
- Si utilizza come terminale per il fissaggio di **FIL o LUB**
*To be used as header to install **FIL** or **LUB***
- **Materiale:** alluminio anodizzato
Material: aluminium (anodize treatment)

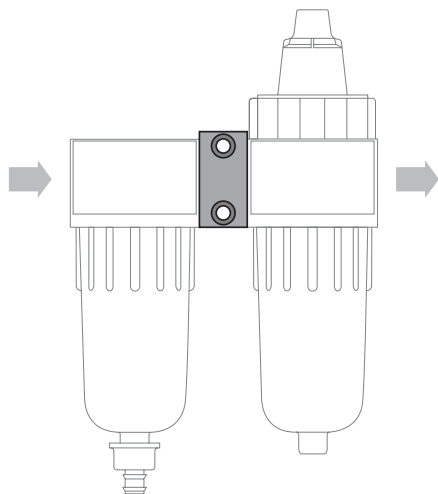
CODICE DI ORDINAZIONE
ORDER CODE

16.004.2

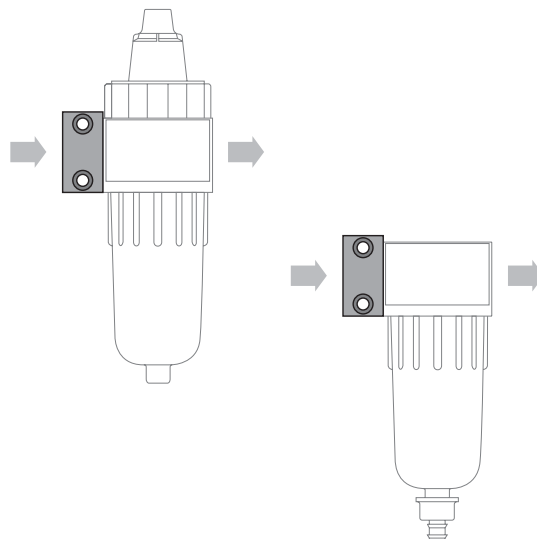


Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio
Each element is sold in kit with all necessary pieces for installation

Montaggio in posizione intermedia
Installation in intermediate position



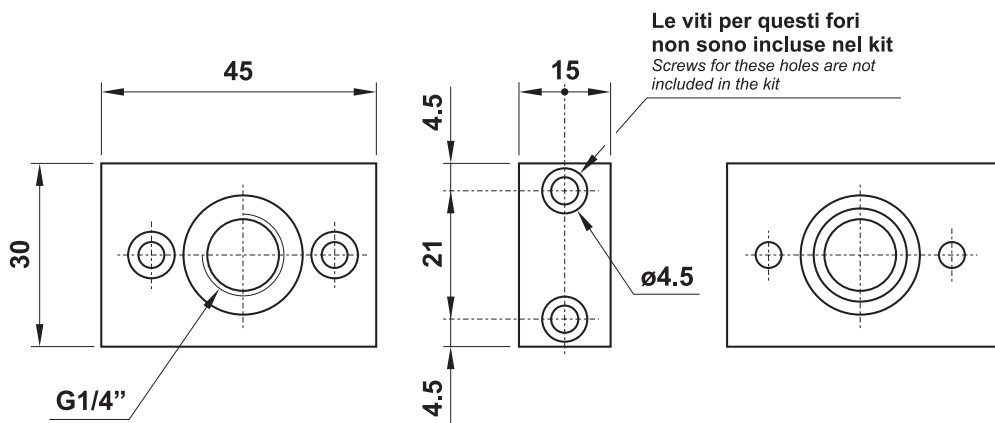
Montaggio come terminale
Installation as header



piastrina di fissaggio a parete per regolatori e filtroregolatori G1/4"

adaptor for side mounting - regulators and filter-regulators G1/4"

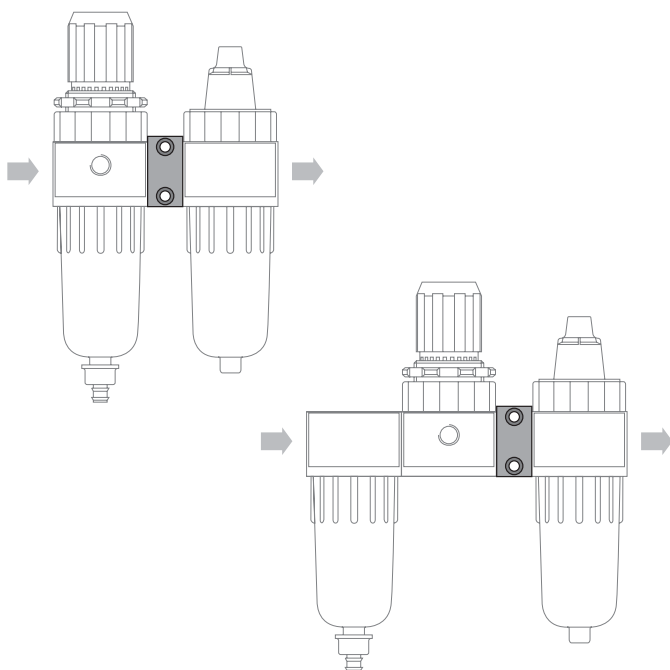
- Si utilizza in posizione intermedia (cod. **16.005.2**) per il fissaggio di FR+L o FRL
*To be used in intermediate position (code **16.005.2**) to install FR+L or FRL*
- Si utilizza come terminale (cod. **16.006.2**) per il fissaggio di FR o REG
*To be used as header (code **16.006.2**) to install FR or REG*
- Materiale: alluminio anodizzato
Material: aluminium (anodize treatment)



Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio
Each element is sold in kit with all necessary pieces for installation

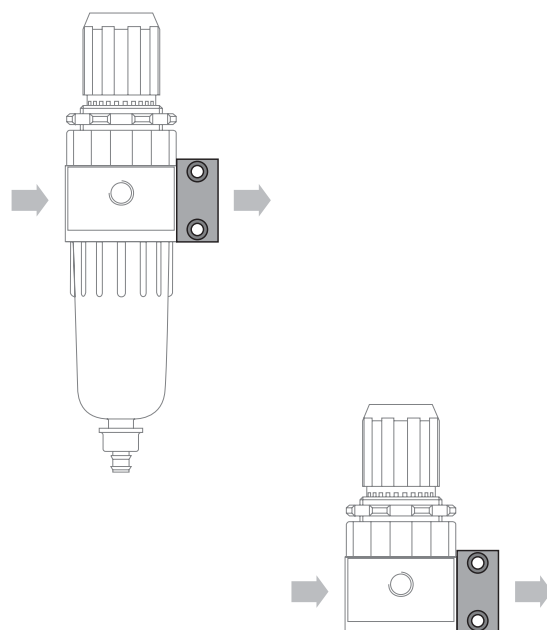
Montaggio in posizione intermedia
Installation in intermediate position

16.005.2



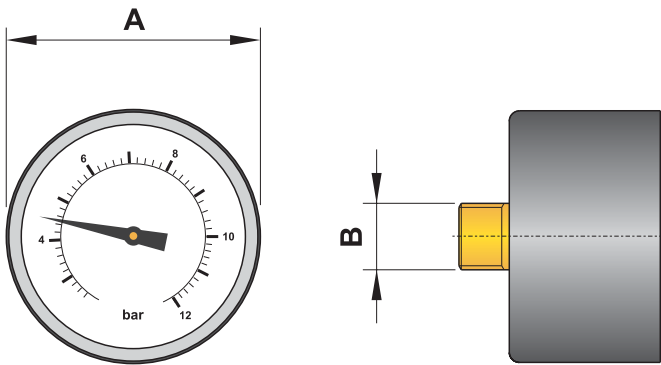
Montaggio come terminale
Installation as header

16.006.2



MANOMETRO

manometer



A	B	CODICE DI ORDINAZIONE ORDER CODE
ø40	G1/8"	M40-00
ø50	G1/8"	M50-00
ø63	G1/4"	M63-00

NOVITÀ 2005

**nuova serie
gruppi trattamento aria G1”**

new range air preparation units G1”



filtro separatore G1"

G1" filter-water-separator



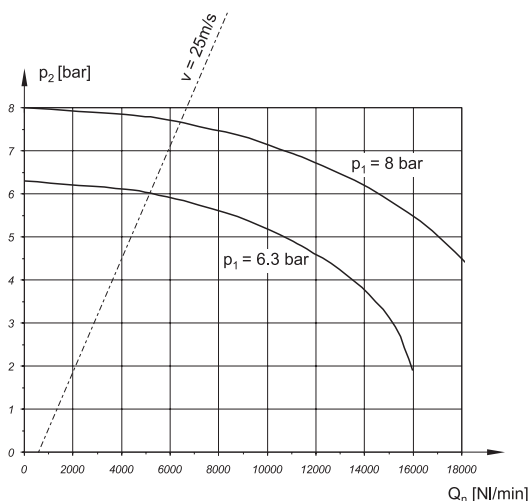
NUOVO
NEW

- Sistema di funzionamento: gruppo ciclone ed elemento filtrante
Cyclone system and filter element
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico della condensa semiautomatico o automatico
Semi-automatic or automatic moisture exhaust
- Capacità della tazza: 130 cm³
Bowl capacity: 130 cm³
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6N)
Vertical installation; brackets on request (code STF 6N)
- Tazza metallica
Metal bowl

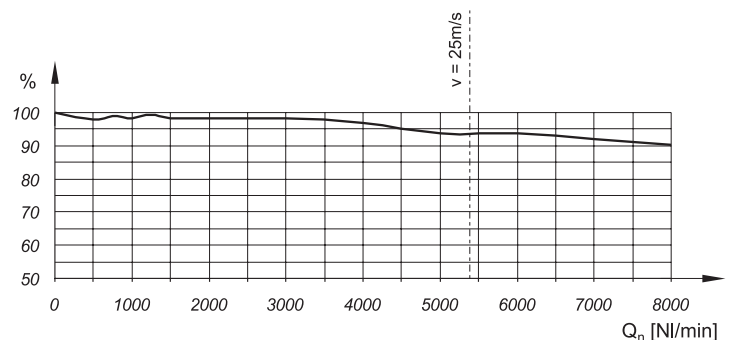


CODICE DI ORDINAZIONE ORDER CODE		FIL 6N-30-S	FIL 6N-30-A	FIL 6N-05-S
Attacchi <i>Ports</i>		G1"	G1"	G1"
Scarico della condensa <i>Moisture exhaust</i>		semiautomatico <i>semi-automatic</i>	automatico <i>automatic</i>	semiautomatico <i>semi-automatic</i>
Temperatura di esercizio <i>Temperature range</i>		max +50°C	max +50°C	max +50°C
Peso <i>Weight</i>		0.9 kg	0.9 kg	0.9 kg
Pressione di esercizio <i>Working pressure range</i>	p_{\min} p_{\max}	0 bar; 0 MPa 17.5 bar; 1.75 MPa	0 bar; 0 MPa 17.5 bar; 1.75 MPa	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{\max} 10000 NI/min	10000 NI/min	10000 NI/min
Elemento filtrante <i>Filter element</i>		30 μm	30 μm	5 μm

Caratteristiche di portata
Flow characteristics



Grado di separazione condensa con $p_1 = 6.3 \text{ bar}$ costante
Moisture separation with $p_1 = 6.3 \text{ bar}$ constant



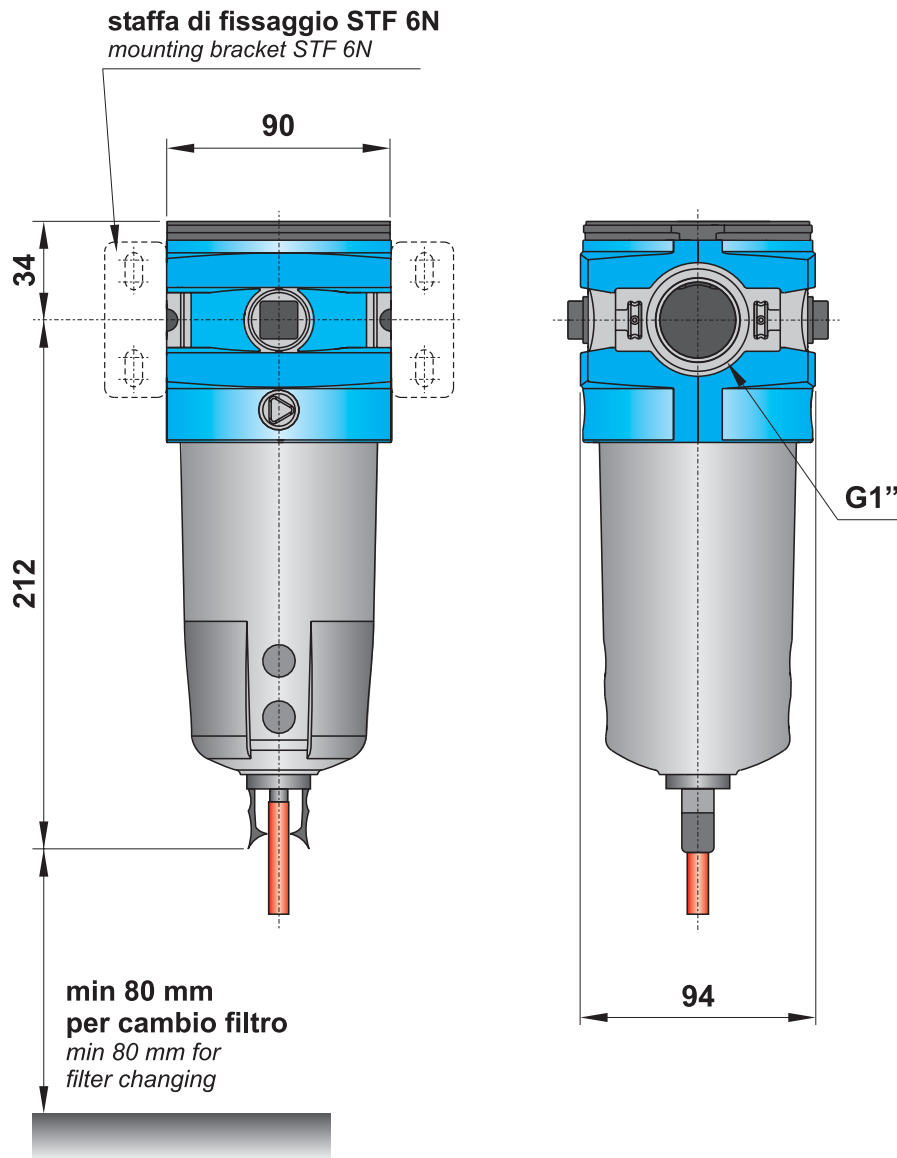
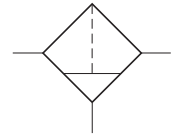
filtro separatore G1"

G1" filter-water-separator



NUOVO
NEW

Le staffe di fissaggio devono essere acquistate separatamente.
Mounting brackets are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: metallica

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: metal

regolatore di pressione G1"

G1" pressure regulator



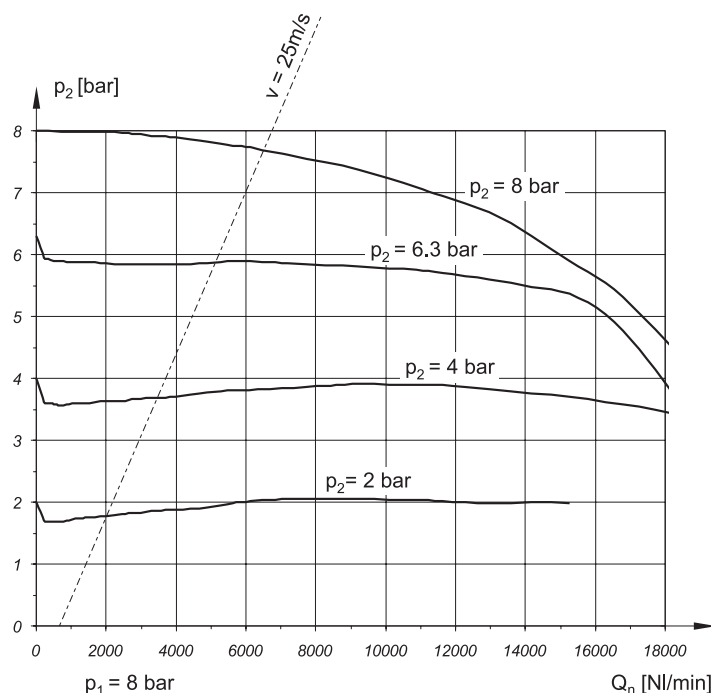
NUOVO
NEW

- Regolatore a membrana con valvola di scarico sovrappressione (relieving)
Diaphragm-type pressure regulator with relieving
- Autocompensazione durante la regolazione
Self-compensated regulation
- Elevata portata
High flow rate
- Grande sensibilità
Sensitive regulation
- Installazione in linea o a pannello; staffe di fissaggio a richiesta (cod. STF 6N; STF 6NA; STF 6NB)
In-line or panel mounting; brackets on request (code STF 6N; STF 6NA; STF 6NB)



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		REG 6N-10
Attacchi <i>Ports</i>		G1"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		1.2 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 12 bar; 1.2 MPa
Portata massima <i>Maximum flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$ Q_{\max}	18200 NI/min

Caratteristiche di portata
Flow characteristics



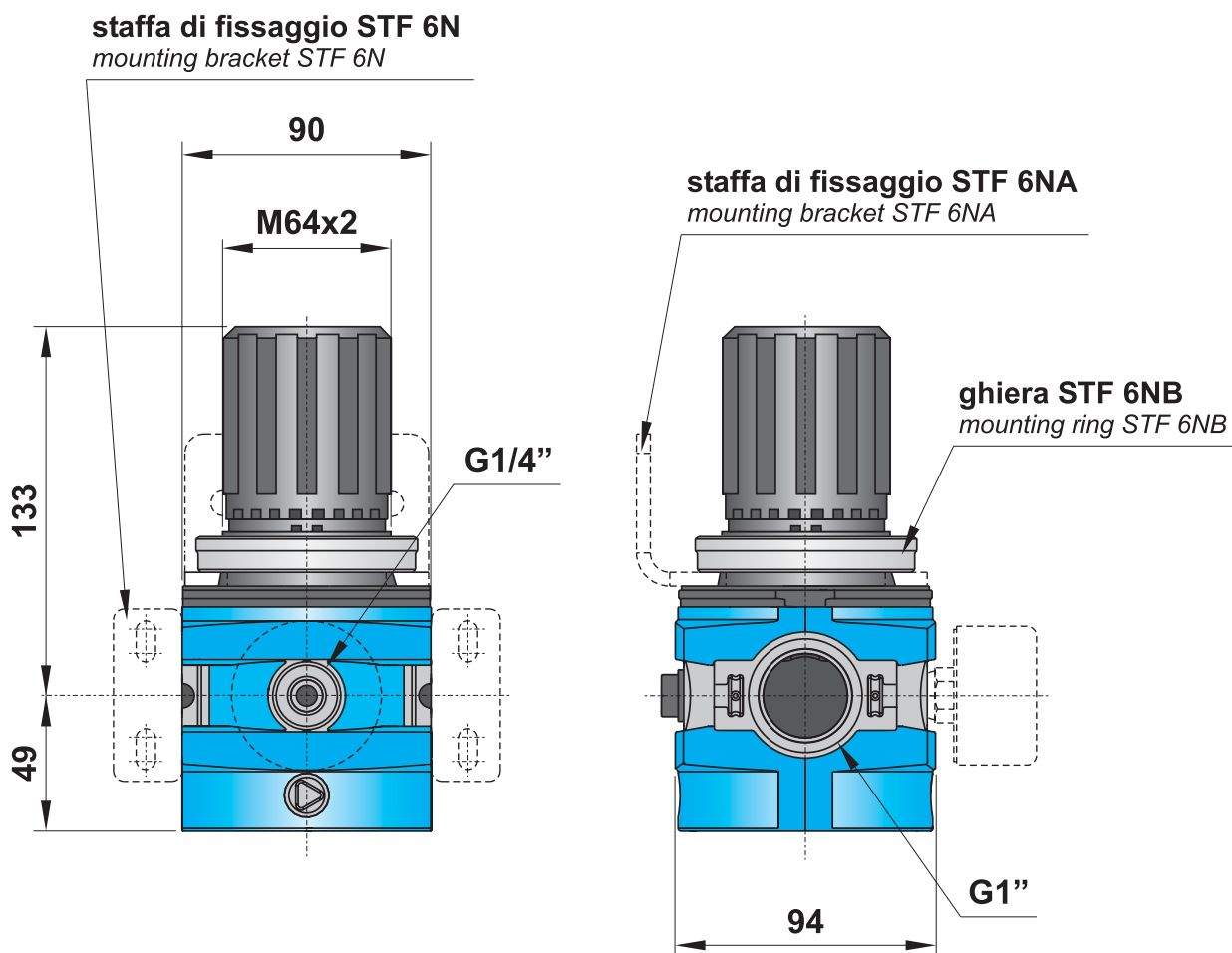
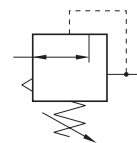
regolatore di pressione G1"

G1" pressure regulator



NUOVO
NEW

Le staffe di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting brackets, ring and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Molle: INOX e acciaio zincato

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Materials

Body: die-cast aluminium

Springs: stainless steel and zinc plated steel

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Lubrificatore G1"

G1" lubricator



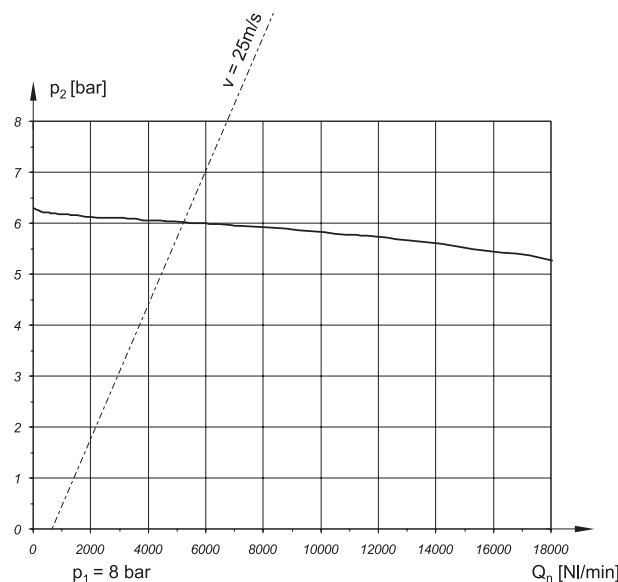
NUOVO
NEW

- Lubrificatore venturi con compensazione automatica della portata
Oil mist lubricator with flow compensation
- Il numero di gocce al minuto è costante
Number of drops per minute is constant
- Capacità tazza: 500 cm³
Bowl capacity: 500 cm³
- Rifornimento olio manuale
Manual oil refilling
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6N)
Vertical installation; brackets on request (code STF 6N)
- Tazza metallica
Metal bowl



CODICE DI ORDINAZIONE ORDER CODE		LUB 6N-00
Attacchi Ports		G1"
Temperatura di esercizio Temperature range		max +50°C
Peso Weight		0.8 kg
Pressione di esercizio Working pressure range	p_{min} p_{max}	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Portata massima Maximum flow rate	Q_{max}	17700 NI/min
	$p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	

Caratteristiche di portata
Flow characteristics



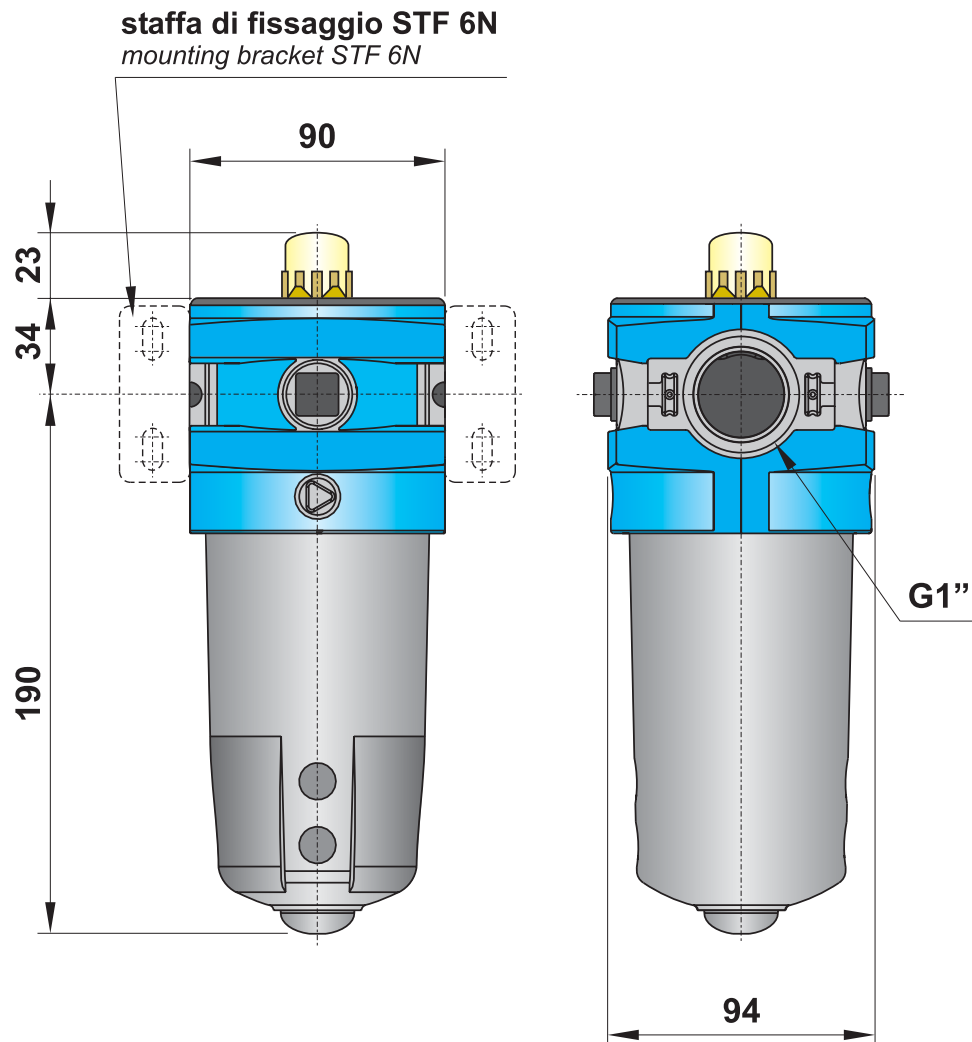
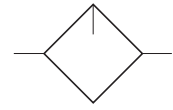
lubrificatore G1"

G1" lubricator



NUOVO
NEW

Le staffe di fissaggio devono essere acquistate separatamente.
Mounting brackets are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: metallica

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: metal

filtratore regolatore G1"

G1" filter-regulator



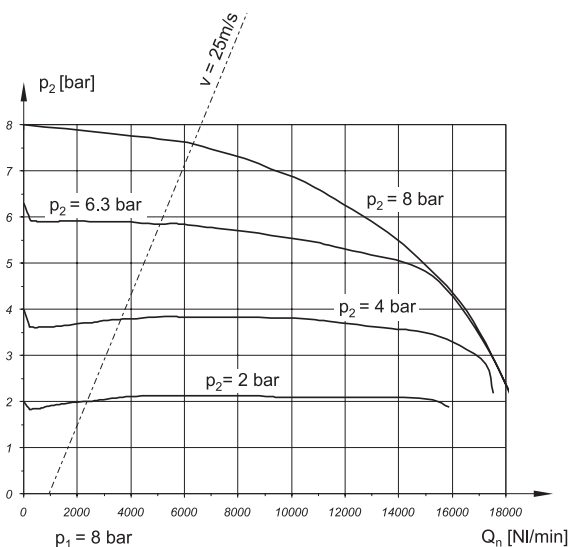
NUOVO
NEW

- Sistema di funzionamento: gruppo ciclone ed elemento filtrante, combinato con regolatore di pressione a diaframma dotato di valvola di scarico sovrappressione (relieving)
Cyclone system and filter element, combined with diaphragm-type pressure regulator (with relieving)
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico semiautomatico della condensa; automatico a richiesta
Semi-automatic moisture exhaust; automatic on request
- Capacità della tazza: 130 cm³; tazza metallica
Bowl capacity: 130 cm³; metal bowl
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6N; STF 6NA; STF 6NB)
Vertical installation; brackets on request (code STF 6N; STF 6NA; STF 6NB)

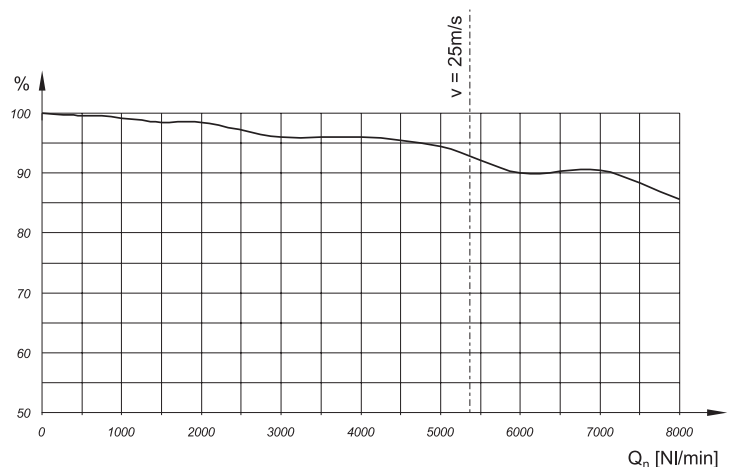


CODICE DI ORDINAZIONE ORDER CODE		FR 6N-10-30-S	FR 6N-10-05-S
Attacchi Ports		G1"	G1"
Temperatura di esercizio Temperature range		max +50°C	max +50°C
Peso Weight		1.5 kg	1.5 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 17.5 bar; 1.75 MPa	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 12 bar; 1.2 MPa	0.5 bar; 0.05 MPa 12 bar; 1.2 MPa
Portata massima Maximum flow rate	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	19000 NI/min	19000 NI/min
Elemento filtrante Filter element		30 μm	5 μm

Caratteristiche di portata
Flow characteristics



Grado di separazione condensa con $p_1 = 6.3 \text{ bar}$ costante
Moisture separation with $p_1 = 6.3 \text{ bar}$ constant



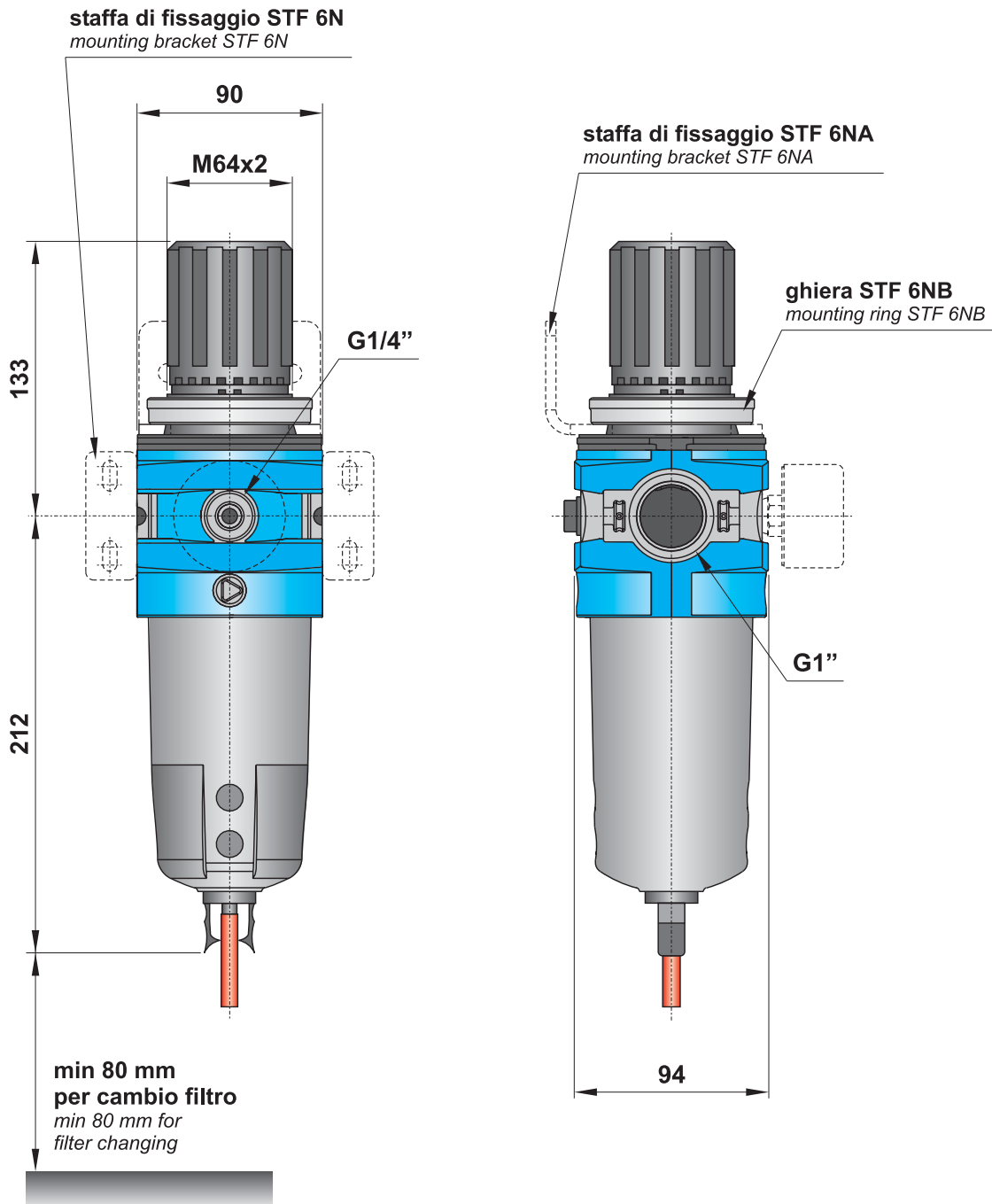
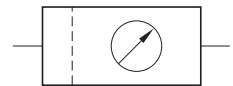
filtratore regolatore G1"

G1" filter-regulator



NUOVO
NEW

Le staffe di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting brackets, ring and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazza: metallica

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowl: metal

gruppo trattamento aria FR+L G1"

G1" FR+L air preparation unit



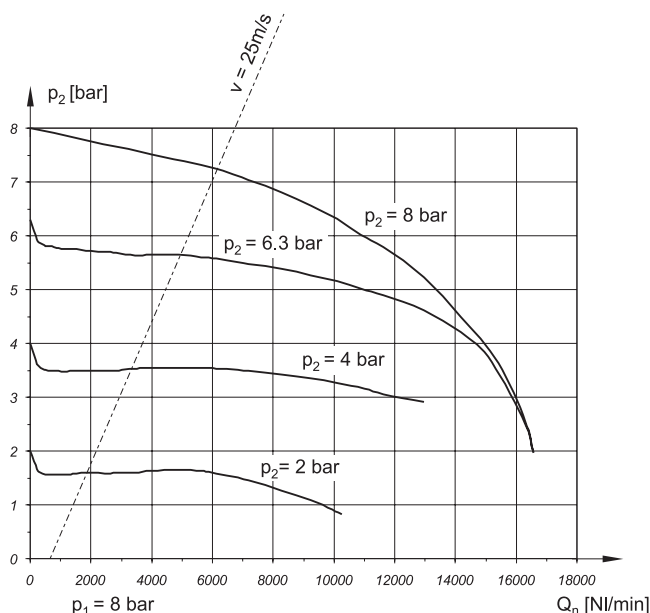
NUOVO
NEW

- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 130 cm³ (condensa), 500 cm³ (olio)
Bowl capacity: 130 cm³ (moisture), 500 cm³ (oil)
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6N; STF 6NA; STF 6NB)
Vertical installation; brackets on request (code STF 6N; STF 6NA; STF 6NB)
- Tazza metallica
Metal bowl



CODICE DI ORDINAZIONE ORDER CODE		FR+L 6N-10-30-S
Attacchi <i>Ports</i>		G1"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		2.8 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 12 bar; 1.2 MPa
Portata massima <i>Maximum flow rate</i>	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	Q_{max} 14600 NI/min
Elemento filtrante <i>Filter element</i>		30 μm

Caratteristiche di portata
Flow characteristics



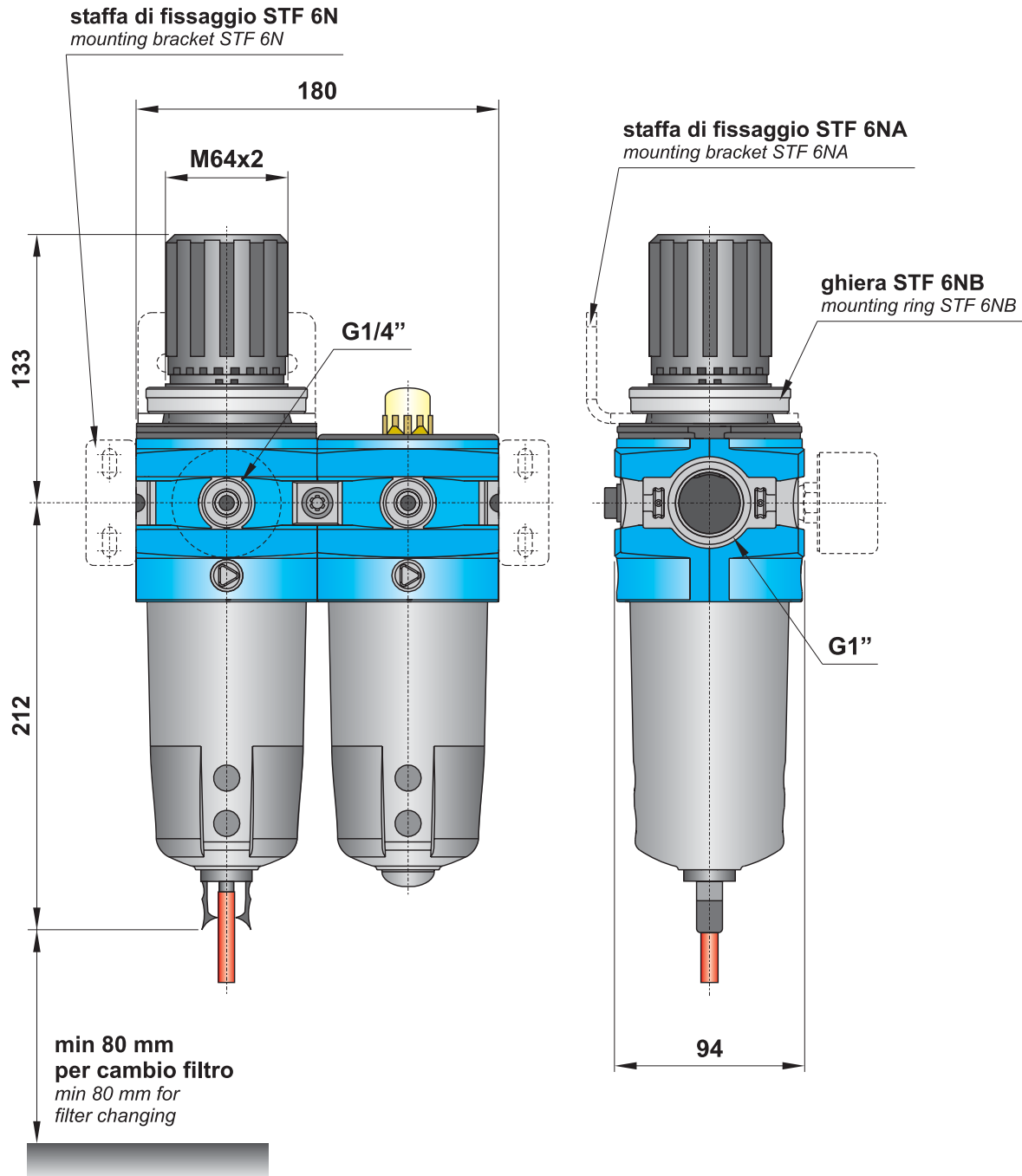
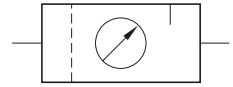
gruppo trattamento aria FR+L G1"

G1" FR+L air preparation unit



NUOVO
NEW

Le staffe di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting brackets, ring and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: metalliche

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: metal

gruppo trattamento aria FRL G1"

G1" FRL air preparation unit



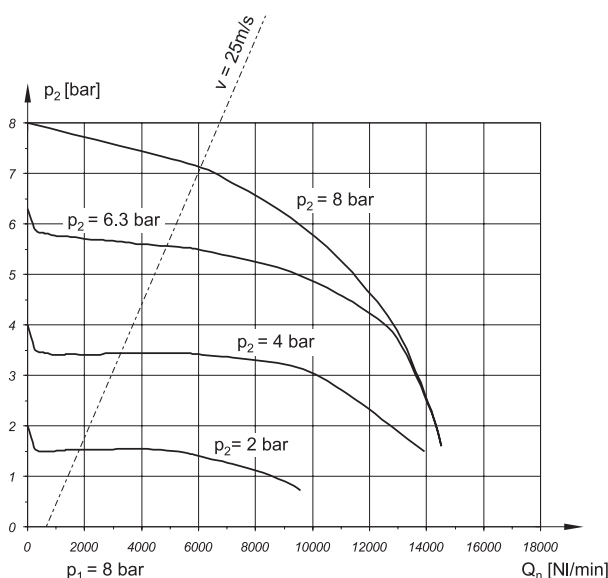
NUOVO
NEW

- Il gruppo comprende: filtro, regolatore di pressione e lubrificatore
The unit includes: filter, pressure regulator and oil mist lubricator
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 130 cm³ (condensa), 500 cm³ (olio)
Bowl capacity: 130 cm³ (moisture), 500 cm³ (oil)
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6N; STF 6NA; STF 6NB)
Vertical installation; brackets on request (code STF 6N; STF 6NA; STF 6NB)
- Tazza metallica
Metal bowl



CODICE DI ORDINAZIONE ORDER CODE		FRL 6N-10-30-S
Attacchi <i>Ports</i>		G1"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		3.3 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 12 bar; 1.2 MPa
Portata massima <i>Maximum flow rate</i>	Q_{max}	12600 NI/min
Elemento filtrante <i>Filter element</i>		30 μm

Caratteristiche di portata
Flow characteristics



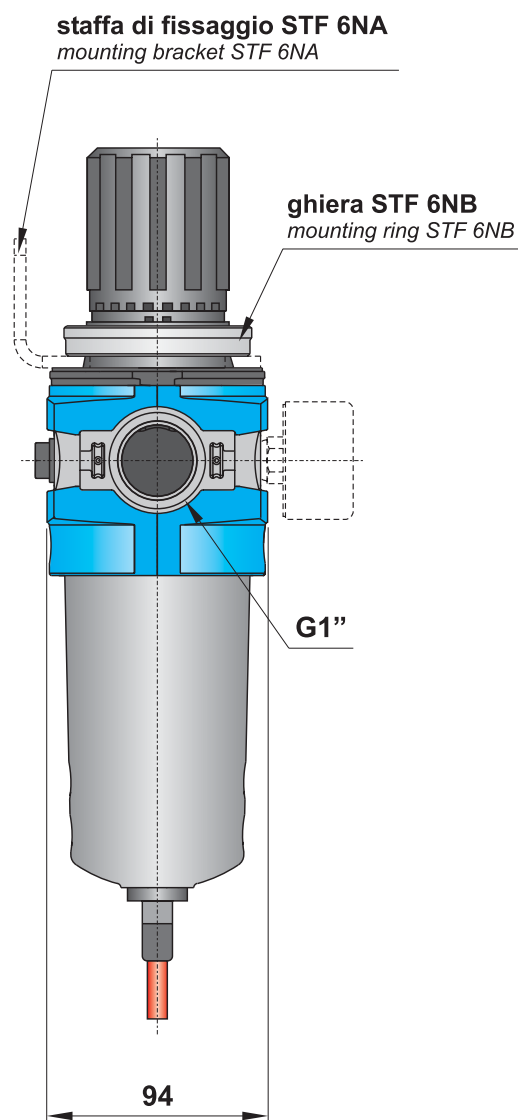
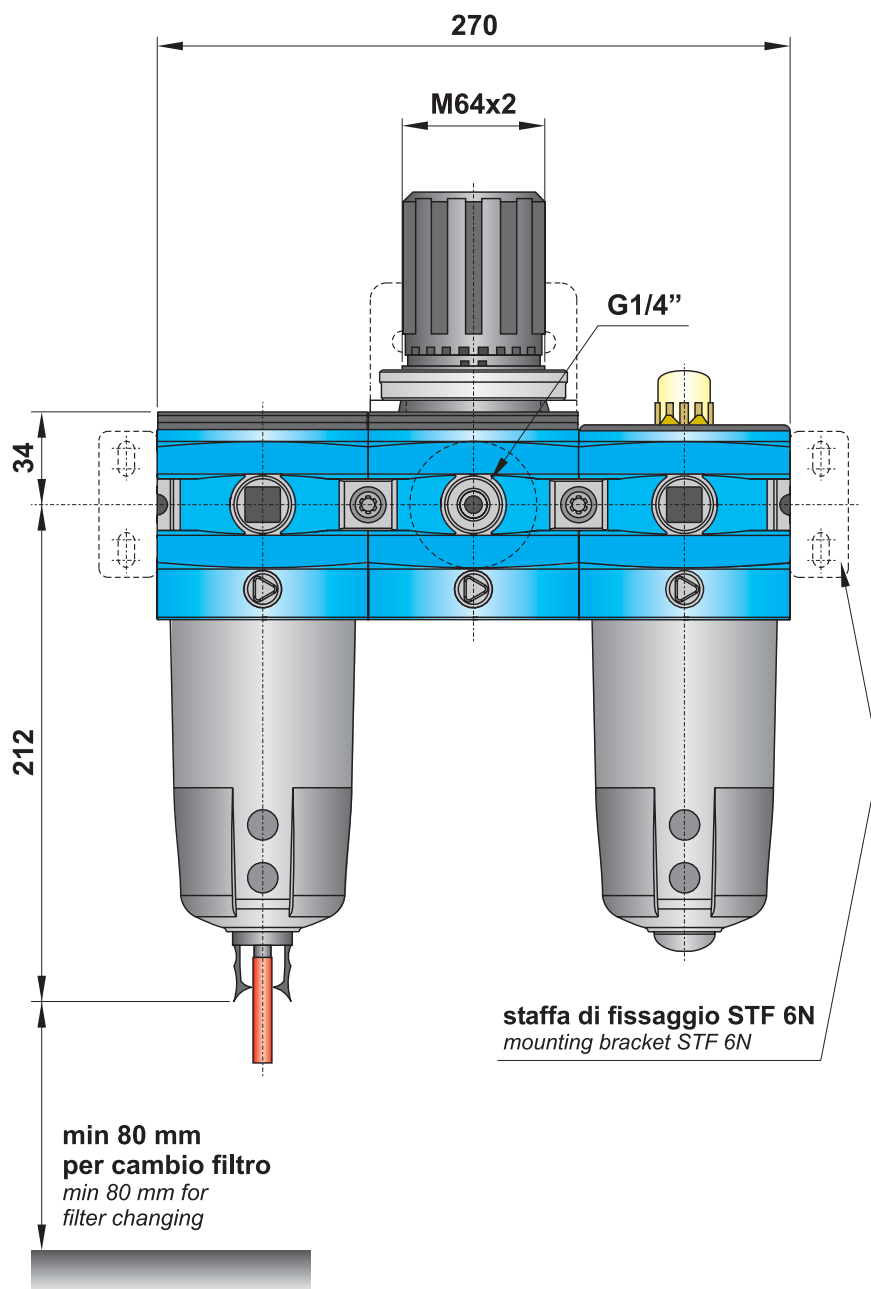
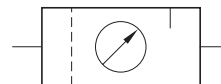
gruppo trattamento aria FRL G1"

G1" FRL air preparation unit



NUOVO
NEW

Le staffe di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting brackets, ring and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: metalliche

Materials

Body: die-cast aluminium

Seals: NBR

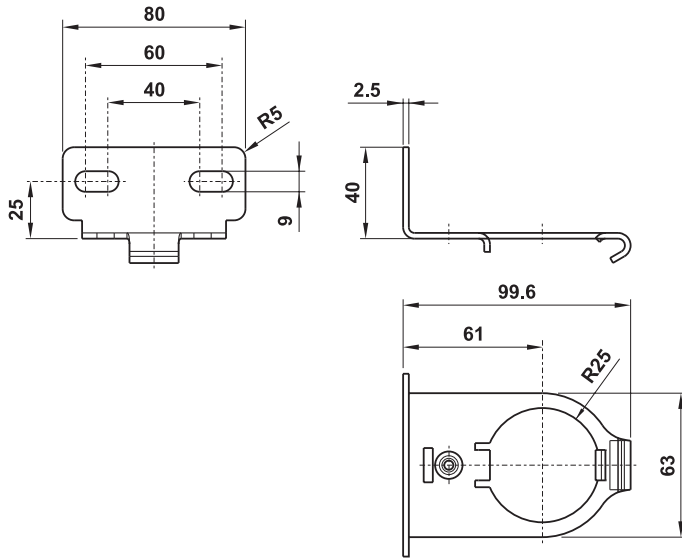
Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: metal

STAFFE E GHIERA DI FISSAGGIO

mounting brackets and ring

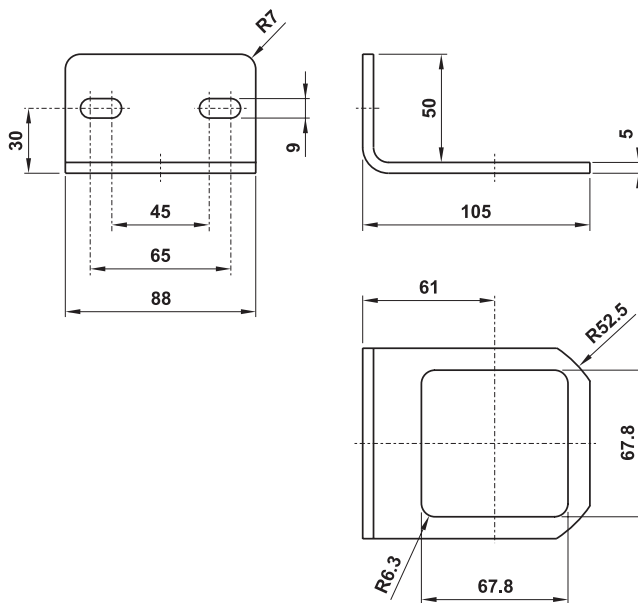


G1"

CODICE DI ORDINAZIONE
ORDER CODE

STF 6N

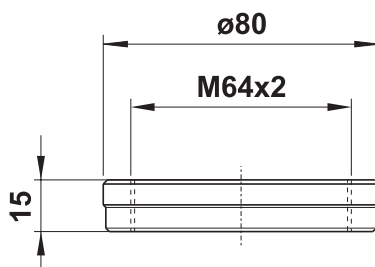
La sigla si riferisce a una coppia di staffe
The part number is referred to a couple of brackets



G1"

CODICE DI ORDINAZIONE
ORDER CODE

STF 6NA



G1"

CODICE DI ORDINAZIONE
ORDER CODE

STF 6NB

5

INDICI ALFANUMERICI

product reference directories

indice alfanumerico ordinato per pagina

product reference directory - ordered by catalogue page



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
304 MA	08.030.4	17	314 MGN	08.247.4	27	321 2PS	00.134.4	38	321 MB90	00.070.4	62
314 MA	08.035.4	17	204 MGR	08.228.4	27	521 2PS	00.019.4	38	321 MBA90	00.041.4	62
204 MA	08.104.4	17	204 MGG	08.229.4	27	321 MR	00.082.4	38	521 MB90	00.071.4	62
304 MB	08.031.4	17	204 MG	08.230.4	27	521 MR	00.083.4	39	321 BB90	00.141.4	63
314 MB	08.036.4	17	204 MGN	08.231.4	27	321 MRU	00.084.4	39	521 BB90	00.138.4	63
204 MB	08.105.4	17	304 MGR UL	08.216.4	27	521 MRU	00.085.4	39	RM 010	RM 010	64
304 MR	08.032.4	18	304 MGG UL	08.217.4	27	321 MRS	00.086.4	40	P 22804 V	P 22804 V	64
314 MR	08.037.4	18	304 MG	08.218.4	27	321 MRSA	00.087.4	40	P 22804 G	P 22804 G	64
204 MR	08.111.4	18	304 MGN UL	08.219.4	27	521 MRS	00.088.4	40	P 22804 A	P 22804 A	64
304 MS	08.033.4	18	314 MGR UL	08.248.4	27	321 MN	00.089.4	41	P 22804 B	P 22804 B	64
314 MS	08.038.4	18	314 MGG UL	08.249.4	27	321 MNA	00.090.4	41	RM 050 R	RM 050 R	64
204 MS	08.117.4	18	314 MG	08.250.4	27	521 MN	00.091.4	41	RM 050 N	RM 050 N	64
304 MV	08.034.4	19	314 MGN UL	08.251.4	27	321 ML90	00.052.4	43	RM 055 R	RM 055 R	64
314 MV	08.116.4	19	204 MGR UL	08.232.4	27	521 ML90	00.054.4	43	RM 055 N	RM 055 N	64
204 MV	08.125.4	19	204 MGG UL	08.233.4	27	321 LL90	00.053.4	44	RM 065 R	RM 065 R	64
304 MA UL	08.050.4	19	204 MG	08.234.4	27	521 LL90	00.055.4	44	RM 066 R	RM 066 R	64
314 MA UL	08.060.4	19	204 MGN UL	08.235.4	27	321 CL90	00.139.4	45	RM 066 R	RM 066 R	64
204 MA UL	08.172.4	19	305 MGR	08.220.4	28	521 CL90	00.140.4	45	RM 300 N	RM 300 N	65
304 MB UL	08.051.4	20	305 MGG	08.221.4	28	5213C ML90	00.056.4	46	RM 350 N	RM 350 N	65
314 MB UL	08.061.4	20	305 MG	08.222.4	28	5213A ML90	00.058.4	46	RM 313 N	RM 313 N	65
204 MB UL	08.130.4	20	305 MGN	08.223.4	28	5213P ML90	00.042.4	46	RM 383 N	RM 383 N	65
304 MR UL	08.052.4	20	315 MGR	08.252.4	28	5213C LL90	00.057.4	46	RM 400 N	RM 400 N	65
314 MR UL	08.062.4	20	315 MGG	08.253.4	28	5213A LL90	00.059.4	46	RM 450 N	RM 450 N	65
204 MR UL	08.196.4	20	315 MG	08.254.4	28	5213P LL90	00.060.4	46	RM 413 N	RM 413 N	65
304 MS UL	08.053.4	21	315 MGN	08.255.4	28	321 MT	00.075.4	47	RM 483 N	RM 483 N	65
314 MS UL	08.063.4	21	205 MGR	08.236.4	28	521 MT	00.076.4	47	RM 200 N	RM 200 N	65
204 MS UL	08.160.4	21	205 MGG	08.237.4	28	321 TT	00.068.4	47	PED 502 M	01.052.4	67
304 MV UL	08.054.4	21	205 MG	08.238.4	28	521 TT	00.069.4	48	PED 502 S	01.072.4	67
314 MV UL	08.158.4	21	205 MGN	08.239.4	28	321 CT	00.110.4	48	PED 502 B	01.053.4	67
204 MV UL	08.149.4	21	305 MGR UL	08.224.4	28	321 CTT	00.004.4	48	PEDS 502 M	01.080.4	67
305 MA	08.040.4	22	305 MGG UL	08.225.4	28	521 CT	00.111.4	49	PEDS 502 B	01.081.4	67
315 MA	08.045.4	22	305 MG	08.226.4	28	521 CTT	00.005.4	49		08.197.4	68
205 MA	08.141.4	22	305 MGN UL	08.227.4	28	5213A ML	00.151.4	50		08.198.4	68
305 MB	08.041.4	22	315 MGR UL	08.256.4	28		00.136.3	50		08.207.4	68
315 MB	08.046.4	22	315 MGG UL	08.257.4	28		00.137.3	50	PED 304 M	08.184.4	68
205 MB	08.157.4	22	315 MG	08.258.4	28		00.138.3	50		01.087.0	69
305 MR	08.042.4	23	315 MGN UL	08.259.4	28		00.139.3	50		01.088.0	69
315 MR	08.047.4	23	205 MGR UL	08.240.4	28		00.163.4	51	431 MP	05.136.4	71
205 MR	08.173.4	23	205 MGG UL	08.241.4	28		00.160.4	51	451 MP	05.137.4	71
305 MS	08.043.4	23	205 MG	08.242.4	28		00.164.4	51	431 MR	05.138.4	72
315 MS	08.048.4	23	205 MGN UL	08.243.4	28	321 LL	00.050.4	52	451 MR	05.139.4	72
205 MS	08.185.4	23	504 MB	08.064.4	29	521 LL	00.051.4	52	431 MRL	05.140.4	73
305 MV	08.044.4	24	2.304 MB	08.085.4	29	322 ML90	01.054.4	53	451 MRL	05.141.4	73
315 MV	08.153.4	24	2.314 MB	08.089.4	29	522 ML90	01.056.4	53	431 MGR	05.142.4	74
205 MV	08.186.4	24	505 MB	08.094.4	29	322 LL90	01.055.4	54	431 MGG	05.143.4	74
305 MA UL	08.055.4	24	2.305 MB	08.146.4	29	522 LL90	01.057.4	54	431 MG	05.144.4	74
315 MA UL	08.151.4	24	2.315 MB	08.192.4	29	322 CL90	01.082.4	55	431 MGN	05.145.4	74
205 MA UL	08.169.4	24	504 MB UL	08.065.4	30	522 CL90	01.065.4	55	451 MGR	05.146.4	74
305 MB UL	08.056.4	25	2.304 MB UL	08.067.4	30	5223C ML90	01.061.4	56	451 MGG	05.147.4	74
315 MB UL	08.175.4	25	2.314 MB UL	08.068.4	30	5223A ML90	01.062.4	56	451 MG	05.148.4	74
205 MB UL	08.187.4	25	505 MB UL	08.193.4	30	5223P ML90	01.063.4	56	451 MGN	05.149.4	74
305 MR UL	08.057.4	25	2.305 MB UL	08.194.4	30	5223C LL90	01.059.4	56	321 MC	00.022.4	76
315 MR UL	08.188.4	25	2.315 MB UL	08.195.4	30	5223A LL90	01.060.4	56	321 MCA	00.023.4	76
205 MR UL	08.119.4	25	305 LL	03.011.4	31	5223P LL90	01.058.4	56	521 MC	00.027.4	76
305 MS UL	08.058.4	26	504 MB CU	08.087.4	31	322 MT	01.066.4	57	321 CC	00.025.4	77
315 MS UL	08.152.4	26	2.304 MB CU	08.086.4	31	522 MT	01.068.4	57	321 CCD	00.024.4	77
205 MS UL	08.189.4	26		08.017.2	31	322 TT	01.067.4	57	321 CFP	00.021.4	77
305 MV UL	08.059.4	26		08.015.2	31	522 TT	01.069.4	58	521 CC	00.028.4	78
315 MV UL	08.190.4	26	321 MP	00.077.4	35	322 CT	01.041.4	58	521 CCD	00.030.4	78
205 MV UL	08.191.4	26	521 MP	00.078.4	35	322 CTT	01.078.4	58	521 CFP	00.029.4	78
304 MGR	08.212.4	27	321 2P	00.133.4	35	522 CT	01.042.4	59	5213C CC	00.031.4	79
304 MGG	08.213.4	27	521 2P	00.036.4	36	522 CTT	01.079.4	59	5213A CC	00.032.4	79
304 MG	08.214.4	27	321 CP	00.135.4	36	322 LL	01.049.4	60	5213P CC	00.043.4	79
304 MGN	08.215.4	27	521 CP	00.136.4	36	522 LL	01.050.4	60	5223C CC	01.034.4	79
314 MGR	08.244.4	27	321 MPS	00.079.4	37	321 MB	00.072.4	61	5223A CC	01.035.4	79
314 MGG	08.245.4	27	321 MPSA	00.080.4	37	321 MBA	00.061.4	61	5223P CC	01.073.4	79
314 MG	08.246.4	27	521 MPS	00.081.4	37	521 MB	00.073.4	61	322 MC	01.022.4	80

INDEX

indice alfanumerico ordinato per pagina

product reference directory - ordered by catalogue page



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
322 MC SUP	01.037.4	80		00.197.0	98	5213C EE AS	00.039.3	109		00.054.2	125
322 MCA	01.023.4	80		00.344.0	98	5213A EE AS	00.040.3	109		00.055.2	125
522 MC	01.027.4	81		00.345.0	98	5213P EE AS	00.041.3	109		00.056.2	125
522 MC SUP	01.074.4	81		00.346.0	98	321 ME90 S	00.005.3	110		00.057.2	125
322 CC	01.025.4	81		00.347.0	98	321 ME90 L	00.059.3	110		00.058.2	125
322 CCD	01.024.4	82		00.394.0	98	521 ME90 S	00.007.3	111		00.059.2	125
322 CFP	01.021.4	82		00.395.0	98	521 ME90 L	00.061.3	111		00.060.2	125
322 CC SUP	01.036.4	82		00.258.0	99	321 EE90 S	00.006.3	112		01.042.2	125
522 CC	01.028.4	83		00.259.0	99	321 EE90 L	00.060.3	112		01.043.2	125
522 CCD	01.030.4	83		00.260.0	99	521 EE90 S	00.009.3	113		01.044.2	125
522 CFP	01.029.4	83		00.261.0	99	521 EE90 L	00.062.3	113		01.045.2	125
522 CC SUP	01.070.4	84		00.251.0	99	322 ME	01.011.3	114		01.046.2	125
322 ORM	01.009.4	84		00.348.0	99	322 MEA	01.017.3	114		01.047.2	125
322 ANDM	01.010.4	84		00.349.0	99	322 CE	01.029.3	114		01.048.2	125
322 2OR	01.011.4	85		00.350.0	99	522 ME	01.009.3	115		00.064.2	126
322 2AND	01.012.4	85		00.351.0	99	522 CE	01.020.3	115		00.080.2	126
522 ORM	01.001.4	86		00.396.0	99	322 ME AS	01.018.3	115		01.049.2	126
522 ANDM	01.002.4	86		00.397.0	99	522 ME AS	01.019.3	116		01.050.2	126
522 2OR	01.005.4	87		00.284.0	100	322 EE	01.012.3	116		00.095.2	127
522 2AND	01.006.4	87		00.305.0	100	322 EED	01.039.3	116		00.029.2	128
321 MCQ	00.010.4	88		00.332.0	100	322 EFP	01.049.3	117		00.067.2	128
321 MCS	00.015.4	88		00.393.0	100	522 EE	01.010.3	117		01.029.2	128
521 MCQ	00.011.4	88		00.333.0	100	522 EED	01.040.3	117		01.038.2	128
521 MCS	00.016.4	89		00.336.0	100	522 EFP	01.045.3	118		00.042.3	128
322 MCS	01.083.4	89		00.392.0	100	322 EE AS	01.050.3	118		00.043.3	128
522 MCS	01.004.4	89		00.370.0	100	522 EE AS	01.052.3	118		00.044.3	128
	00.071.3	90		AU.061.1	101	5223C EE	01.021.3	119		00.045.3	128
	00.088.3	90		AU.062.1	101	5223A EE	01.022.3	119		00.046.3	128
	00.051.3	90		AU.063.1	101	5223P EE	01.023.3	119		01.032.3	128
	01.068.3	90		AU.064.1	101	5223C EE AS	01.024.3	119		01.033.3	128
	01.066.3	90		AU.065.1	101	5223A EE AS	01.025.3	119		01.034.3	128
	01.005.3	90		AU.066.1	101	5223P EE AS	01.026.3	119		01.035.3	128
	00.004.3	91		AU.067.1	101		00.036.2	120		01.036.3	128
	00.064.3	91		AU.068.1	101		00.039.2	120		02.030.2	129
	00.072.3	92		AU.069.1	101		00.037.2	120		02.031.2	129
	00.073.3	92		AU.070.1	101		00.040.2	120		02.032.2	129
	00.074.3	92		00.093.2	101		01.014.2	120		02.033.2	129
	00.075.3	92		00.253.0	102		01.020.2	120	324 MC	02.001.4	130
	00.076.3	92		00.254.0	102		01.015.2	120	324 MCA	02.002.4	130
	00.077.3	92		00.255.0	102		01.021.2	120	324 CFP	02.003.4	130
	00.078.3	92		00.256.0	102		00.038.2	120	324 CC	02.004.4	130
	00.079.3	92		00.257.0	102		00.041.2	120	324 CCD	02.005.4	130
	00.080.3	92		00.252.0	102		01.019.2	120	524 MC	02.006.4	131
	00.052.3	92		00.340.0	102		01.022.2	120	524 CFP	02.007.4	131
	00.053.3	92		00.341.0	102		00.050.2	120	524 CC	02.008.4	131
	00.054.3	92		00.342.0	102		01.035.2	120	524 CCD	02.009.4	131
	00.055.3	92		00.343.0	102		00.051.2	120	5243C CC	02.010.4	131
	00.056.3	92		00.398.0	102		01.036.2	120	5243A CC	02.011.4	131
	00.094.3	94		00.399.0	102		00.108.2	120	5243P CC	02.012.4	131
	00.095.3	94	321 ME	00.015.3	104		01.061.2	120	324 ME	02.001.3	134
	00.096.3	95	321 MEA	00.010.3	104		00.021.3	123	324 MEA	02.002.3	134
	00.130.3	95	321 CE	00.032.3	104		01.032.4	123	324 ME AS	02.003.3	134
	00.097.3	95	521 ME	00.013.3	105		00.024.3	123	324 EFP	02.004.3	134
	00.131.3	95	521 CE	00.035.3	105		00.023.3	123	324 EE	02.005.3	135
	00.098.3	96	321 ME AS	00.033.3	105		01.045.4	123	324 EE AS	02.006.3	135
	00.099.3	96	521 ME AS	00.034.3	106		01.033.4	123	324 EED	02.007.3	135
	00.100.3	97	321 EE	00.016.3	106		00.011.3	123	524 ME	02.008.3	136
	00.134.3	97	321 EED	00.050.3	106		01.007.3	123	524 ME AS	02.009.3	136
	00.101.3	97	321 EFP	00.065.3	107		00.078.2	123	524 EFP	02.010.3	136
	00.135.3	97	521 EE	00.014.3	107		01.078.2	123	524 EE	02.011.3	137
	00.167.0	98	521 EED	00.049.3	107		00.044.4	124	524 EE AS	02.012.3	137
	00.028.0	98	521 EFP	00.063.3	108		01.048.4	124	524 EED	02.013.3	137
	00.029.0	98	321 EE AS	00.066.3	108		00.049.4	124	5243C EE	02.014.3	137
	00.030.0	98	521 EE AS	00.067.3	108		01.047.4	124	5243A EE	02.015.3	137
	00.031.0	98	5213C EE	00.036.3	109		00.045.4	124	5243P EE	02.016.3	137
	00.088.0	98	5213A EE	00.037.3	109		00.052.2	125	5243C EE AS	02.017.3	137
	00.306.0	98	5213P EE	00.038.3	109		00.053.2	125	5243A EE AS	02.018.3	137

INDEX

indice alfanumerico ordinato per pagina

product reference directory - ordered by catalogue page



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
5243P EE AS	02.019.3	137		05.054.1	153	731 EE AS 02	05.032.4	165		01.065.2	174
851 MC	05.077.4	140		05.055.1	153	731 EE AS 03	05.033.4	165		01.066.2	174
851 CC	05.078.4	140		05.056.1	153	731 EE AS 04	05.034.4	165	382 MC	01.013.4	175
851 CCD	05.079.4	141		05.057.1	153	751 EE AS 00	05.055.4	165	582 MC	01.008.4	175
851 CFP	05.135.4	141		05.058.1	153	751 EE AS 01	05.056.4	165	382 CC	01.014.4	175
8513C CC	05.150.4	142		05.059.1	153	751 EE AS 02	05.057.4	165	582 CC	01.015.4	175
8513A CC	05.151.4	142		05.060.1	153	751 EE AS 03	05.058.4	165	382 ME	01.041.3	176
851 ME 00	05.072.4	144		05.113.1	153	751 EE AS 04	05.059.4	165	582 ME	01.037.3	176
851 ME 01	05.073.4	144		05.114.1	153	7513C EE 00	05.060.4	166	382 EE	01.003.3	176
851 ME 02	05.074.4	144	731 MC	05.001.4	155	7513C EE 01	05.061.4	166	582 EE	01.038.3	176
851 ME 03	05.075.4	144	731 MCA	05.071.4	155	7513C EE 02	05.062.4	166		01.055.2	178
851 ME 04	05.076.4	144	751 MC	05.005.4	155	7513C EE 03	05.063.4	166	152 MC	00.095.4	180
851 ME AS 00	05.100.4	144	731 CC	05.002.4	156	7513C EE 04	05.064.4	166	152 CC	00.096.4	180
851 ME AS 01	05.101.4	144	751 CC	05.006.4	156	7513A EE 00	05.065.4	166	152 CCD	00.094.4	180
851 ME AS 02	05.102.4	144	731 CCD	05.003.4	157	7513A EE 01	05.066.4	166	152 CFP	00.173.4	180
851 ME AS 03	05.103.4	144	751 CCD	05.007.4	157	7513A EE 02	05.067.4	166	153C CC	00.101.4	180
851 ME AS 04	05.104.4	144	731 CFP	05.004.4	158	7513A EE 03	05.068.4	166	153A CC	00.102.4	180
851 EFP 00	05.120.4	145	751 CFP	05.008.4	158	7513A EE 04	05.069.4	166	153P CC	00.103.4	180
851 EFP 01	05.121.4	145	7513C CC	05.152.4	159	7513C EE AS 00	05.085.4	166	152 ME	00.112.4	181
851 EFP 02	05.122.4	145	7513A CC	05.153.4	159	7513C EE AS 01	05.086.4	166	152 EFP	06.001.4	181
851 EFP 03	05.123.4	145	731 ME 00	05.010.4	161	7513C EE AS 02	05.087.4	166	152 ME AS	00.064.4	181
851 EFP 04	05.124.4	145	731 ME 01	05.011.4	161	7513C EE AS 03	05.088.4	166	152 EE	00.114.4	182
851 EE 00	05.080.4	146	731 ME 02	05.012.4	161	7513C EE AS 04	05.089.4	166	152 EE AS	00.065.4	182
851 EE 01	05.081.4	146	731 ME 03	05.013.4	161	7513A EE AS 00	05.090.4	166	153C EE	00.116.4	182
851 EE 02	05.082.4	146	731 ME 04	05.014.4	161	7513A EE AS 01	05.091.4	166	153A EE	00.117.4	182
851 EE 03	05.083.4	146	731 MEA 00	05.015.4	161	7513A EE AS 02	05.092.4	166	153P EE	00.118.4	182
851 EE 04	05.084.4	146	731 MEA 01	05.016.4	161	7513A EE AS 03	05.093.4	166	153C EE AS	00.066.4	182
851 EE AS 00	05.105.4	146	731 MEA 02	05.017.4	161	7513A EE AS 04	05.094.4	166	153A EE AS	00.067.4	182
851 EE AS 01	05.106.4	146	731 MEA 03	05.018.4	161		05.057.2	167	153P EE AS	00.113.4	182
851 EE AS 02	05.107.4	146	731 MEA 04	05.019.4	161		05.058.2	167		00.048.2	183
851 EE AS 03	05.108.4	146	751 ME 00	05.040.4	161		05.059.2	167		00.047.2	183
851 EE AS 04	05.109.4	146	751 ME 01	05.041.4	161		05.053.2	167		00.049.2	183
8513C EE 00	05.110.4	147	751 ME 02	05.042.4	161		05.054.2	167	MLD1	00.071.2	187
8513C EE 01	05.111.4	147	751 ME 03	05.043.4	161		05.056.2	167	SL1	00.267.1	187
8513C EE 02	05.112.4	147	751 ME 04	05.044.4	161		05.055.2	167		06.001.2	187
8513C EE 03	05.113.4	147	731 ME AS 00	05.020.4	162	BM751	05.025.2	168	TL1	00.083.2	188
8513C EE 04	05.114.4	147	731 ME AS 01	05.021.4	162	DR751	05.027.2	168	TP1	00.068.2	188
8513A EE 00	05.115.4	147	731 ME AS 02	05.022.4	162	DC751	05.026.2	168	TA1	00.073.2	188
8513A EE 01	05.116.4	147	731 ME AS 03	05.023.4	162	TS751	05.024.2	169	TB1	00.082.2	189
8513A EE 02	05.117.4	147	731 ME AS 04	05.024.4	162	TD751	05.023.2	169	TC1	00.077.2	189
8513A EE 03	05.118.4	147	751 ME AS 00	05.045.4	162	DD751	05.028.2	170	DF1	00.307.0	189
8513A EE 04	05.119.4	147	751 ME AS 01	05.046.4	162	CS731	05.022.2	170	TPC1	00.084.2	189
8513C EE AS 00	05.125.4	147	751 ME AS 02	05.047.4	162	CS751	05.021.2	170		00.232.1	190
8513C EE AS 01	05.126.4	147	751 ME AS 03	05.048.4	162		05.035.2	171		00.233.1	190
8513C EE AS 02	05.127.4	147	751 ME AS 04	05.049.4	162		05.012.2	172		00.234.1	190
8513C EE AS 03	05.128.4	147	731 EFP 00	05.035.4	163		05.013.2	172		00.235.1	190
8513C EE AS 04	05.129.4	147	731 EFP 01	05.036.4	163		05.014.2	172		00.236.1	190
8513A EE AS 00	05.130.4	147	731 EFP 02	05.037.4	163		05.015.2	172		00.237.1	190
8513A EE AS 01	05.131.4	147	731 EFP 03	05.038.4	163		05.016.2	172		00.085.2	191
8513A EE AS 02	05.132.4	147	731 EFP 04	05.039.4	163		05.017.2	172		00.086.2	191
8513A EE AS 03	05.133.4	147	751 EFP 00	05.095.4	163		05.018.2	172		00.087.2	191
8513A EE AS 04	05.134.4	147	751 EFP 01	05.096.4	163		05.019.2	172	252 MC	02.050.4	193
	05.050.2	148	751 EFP 02	05.097.4	163		05.020.2	172	252 CC	02.051.4	193
	05.051.2	148	751 EFP 03	05.098.4	163		05.039.2	172	252 CCD	02.052.4	193
	05.052.2	148	751 EFP 04	05.099.4	163		05.036.2	172	252 CFP	02.053.4	193
	05.048.2	148	731 EE 00	05.025.4	164		05.002.2	172	253C CC	02.054.4	193
	05.049.2	148	731 EE 01	05.026.4	164		05.003.2	172	253A CC	02.055.4	193
BM851	05.030.2	149	731 EE 02	05.027.4	164		05.004.2	172	253P CC	02.056.4	193
BS851	05.029.1	149	731 EE 03	05.028.4	164		05.005.2	172	252 ME	02.070.3	194
TS851	05.032.2	150	731 EE 04	05.029.4	164		05.006.2	172	252 EFP	02.072.3	194
TD851	05.031.2	150	751 EE 00	05.050.4	164		05.007.2	172	252 ME AS	02.073.3	194
DR851	05.034.2	151	751 EE 01	05.051.4	164		05.008.2	172	252 EE	02.071.3	195
DC851	05.033.2	151	751 EE 02	05.052.4	164		05.009.2	172	252 EE AS	02.074.3	195
CS851	05.029.2	152	751 EE 03	05.053.4	164		05.010.2	172	253C EE	02.075.3	195
DF851	05.102.2	152	751 EE 04	05.054.4	164		05.037.2	172	253A EE	02.076.3	195
	05.052.1	153	731 EE AS 00	05.030.4	165		05.001.2	172	253P EE	02.077.3	195
	05.053.1	153	731 EE AS 01	05.031.4	165		00.109.2	173	253C EE AS	02.078.3	195

INDEX

indice alfanumerico ordinato per pagina

product reference directory - ordered by catalogue page



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
253A EE AS	02.079.4	195		08.127.4	210	AZ-SEP3	AU.051.0	223	M22S5...		266
253P EE AS	02.080.4	195		08.121.4	211	AZ-SEP4	AU.076.0	223	M22S6...		266
MLD2	02.001.2	196		08.180.4	212	AZ-SEP5	AU.075.0	223	M22M1...		266
TL2	02.004.2	196		08.181.4	212	AZ-CRS1	18.001.0	224	M22M2...		266
TA2	02.002.2	197		36.625.0	213	AZ-CRS2	18.002.0	224	M22M3...		266
TB2	02.003.2	197		17.005.0	214	AZ-CRS3	18.003.0	224	M22M4...		266
RFU M5	12.047.4	201		17.004.0	214	AZ-CRS4	18.004.0	224	M22M5...		266
RFU 1/8.1	12.010.4	201		17.007.0	214		10.003.3	226	M22M6...		266
RFU 1/8.2	12.000.4	201		17.008.0	214		10.035.4	229	M22A1...		266
RFU 1/8.3	12.000.4-1/4	201		17.011.0	215		10.018.3	230	M22A2...		266
RFU 1/4	12.001.4	201		17.012.0	215		01.044.4	232	M22A3...		266
RFU 3/8	12.002.4	201		17.006.0	216		01.046.4	233	M22A4...		266
RFU 1/2	12.003.4	201		17.010.0	217		01.008.3	234	M22A5...		266
RFUM 1/8	12.004.4	202		17.009.0	217		10.029.4	236	M22A6...		266
RFUM 1/4	12.005.4	202	TRP 8	03.016.4	218		10.027.4	237	M22B1...		266
RFP 1/8.2	12.011.4	202		03.025.4	218		10.017.3	238	M22B2...		266
RFB M5	12.049.4	203	RSW 1/8	11.012.4	219		10.019.3	239	M22B3...		266
RFB 1/8	12.006.4	203	RSW 1/4	11.013.4	219		00.047.4	241	M22B4...		266
RFB 1/4	12.007.4	203	RSW 3/8	11.039.4	219		00.008.3	241	M22B5...		266
RFB 3/8	12.008.4	203	RSW 1/2	11.014.4	219		10.001.4	243	M22B6...		266
RFB 1/2	12.009.4	203	RSTC 1/8	11.017.4	219		10.009.4	244	GPM010	26.140.2	272
VNR M5 FF	11.010.4	205	RSTC 1/4	11.018.4	219		10.003.4	245	GPM12-16	26.141.2	272
	11.011.4	205		AU.002.1	220		10.021.4	246	GPM20-25	26.142.2	272
	11.024.4	205		AU.003.1	220		AX.007.4	247	PDMC08-10	26.101.2N	273
	11.046.4	205		AU.004.1	220		00.074.4	248	PDMC12-16	26.102.2N	273
	11.050.4	205		AU.005.1	220		00.177.4	250	PDMC20-25	26.103.2N	273
VNR 1/8 FF	11.000.4	205		AU.006.1	220		08.156.4	252	FLMC08-10	26.104.2N	274
	11.002.4	205		AU.011.1	220		11.044.4	254	FLMC12-16	26.105.2N	274
	11.004.4	205		AU.013.1	220		11.066.4	254	FLMC20-25	26.106.2N	274
	11.009.4	205		AU.014.1	220		11.076.4	255	CCMC08-10	26.107.2N	275
	11.027.4	205		AU.015.1	220		11.077.4	255	CCMC12-16	26.108.2N	275
	11.031.4	205		AU.016.1	220		10.013.4	256	CCMC20-25	26.109.2N	275
	11.035.4	205		AU.000.1	221		10.014.4	256		20.100.4	277
	11.034.4	205		AU.001.1	221		10.015.4	257		20.101.4	277
VNR 1/8 MF	11.006.4	205		AU.008.1	221		10.016.4	257		20.102.4	277
	11.007.4	205		AU.009.1	221	DP 2010 E	03.020.4	258		20.103.4	277
	11.042.4	205		AU.022.1	221	DP 2018 F	03.003.4	259		20.104.4	277
	11.055.4	205		AU.023.1	221	DP 2005	03.009.4	260		20.105.4	277
	11.045.4	205		AU.024.1	221		AT.005.4	261		20.106.4	277
VNR 1/8 MFR	11.008.4	206		AU.025.1	221	M21S1...		266		20.107.4	277
	11.032.4	206		AU.027.1	221	M21S2...		266		20.108.4	277
	11.049.4	206		AU.017.1	221	M21S3...		266		20.109.4	277
	11.056.4	206		AU.018.1	221	M21S4...		266		20.110.4	277
VNR 1/4 FF	11.001.4	206		AU.019.1	221	M21S5...		266		20.111.4	277
	11.003.4	206		AU.021.1	221	M21S6...		266		20.112.4	277
	11.005.4	206		AU.020.1	221	M21M1...		266		20.113.4	277
	11.030.4	206	AZ-SFE1	AU.042.0	222	M21M2...		266		20.114.4	277
	11.028.4	206	AZ-SFE2	AU.046.0	222	M21M3...		266		20.115.4	277
	11.037.4	206	AZ-SFE3	AU.052.0	222	M21M4...		266		20.116.4	277
	11.036.4	206	AZ-SFE4	AU.058.0	222	M21M5...		266		20.117.4	277
	11.033.4	206	AZ-SFE5	AU.057.0	222	M21M6...		266	T11M2...		279
	11.040.4	206	AZ-SPL2	AU.048.0	222	M21A1...		266	T11M3...		279
VNR 1/4 MF	11.047.4	206	AZ-SPL3	AU.055.0	222	M21A2...		266	T11M4...		279
	11.048.4	206	AZ-SPL4	AU.060.0	222	M21A3...		266	T11M5...		279
	11.059.4	206	AZ-SPL5	AU.059.0	222	M21A4...		266	T12M2...		279
	08.021.4	208	AZ-SE1	AU.043.0	222	M21A5...		266	T12M3...		279
	08.025.4	208	AZ-SE2	AU.047.0	222	M21A6...		266	T12M4...		279
	08.022.4	208	AZ-SE3	AU.054.0	222	M21B1...		266	T12M5...		279
	08.026.4	208	AZ-SE4	AU.072.0	222	M21B2...		266	T13M2...		279
	08.023.4	208	AZ-SE5	AU.071.0	222	M21B3...		266	T13M3...		279
	08.027.4	208	AZ-SC1	AU.040.0	223	M21B4...		266	T13M4...		279
	08.039.4	209	AZ-SC2	AU.044.0	223	M21B5...		266	T13M5...		279
	08.049.4	209	AZ-SC3	AU.053.0	223	M21B6...		266	T21M2...		279
	04.003.4	209	AZ-SC4	AU.074.0	223	M22S1...		266	T21M3...		279
	04.002.4	209	AZ-SC5	AU.073.0	223	M22S2...		266	T21M4...		279
	08.092.1	209	AZ-SEP1	AU.041.0	223	M22S3...		266	T21M5...		279
	08.133.4	210	AZ-SEP2	AU.045.0	223	M22S4...		266	T22M2...		279

indice alfanumerico ordinato per pagina

product reference directory - ordered by catalogue page



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
T22M3...		279	SGM125P	21.116.2	296	CMSS063	26.082.2N	301	SNINT032B	26.094.2N	307
T22M4...		279	SGM160P	21.117.2	296	CMSS080	26.083.2N	301	SNINT040-050B	26.095.2N	307
T22M5...		279	SGM200P	21.118.2	296	CMSS100	26.084.2N	301	SNINT063-080B	26.097.2N	307
T23M2...		279	SGM032V	21.120.2	296	CMSS125	26.085.2N	301	SNINT100-125B	26.099.2N	307
T23M3...		279	SGM040V	21.121.2	296	CMSS160	26.086.2N	301	CSIS160TI	26.325.2N	308
T23M4...		279	SGM050V	21.122.2	296	CMSS200	26.087.2N	301	CSIS200TI	26.326.2N	308
T23M5...		279	SGM063V	21.123.2	296	CMIS032	26.019.2N	302	COIS032	26.052.2N	309
SGT032	26.192.2N	284	SGM080V	21.124.2	296	CMIS040	26.020.2N	302	COIS040	26.053.2N	309
SGT040	26.193.2N	284	SGM100V	21.125.2	296	CMIS050	26.021.2N	302	COIS050	26.054.2N	309
SGT050	26.194.2N	284	SGM125V	21.126.2	296	CMIS063	26.022.2N	302	COIS063	26.055.2N	309
SGT032V	26.360.2N	284	SGM160V	21.127.2	296	CMIS080	26.023.2N	302	COIS080	26.056.2N	309
SGT040V	26.361.2N	284	SGM200V	21.128.2	296	CMIS100	26.024.2N	302	COIS100	26.057.2N	309
SGT050V	26.362.2N	284	SGM032PV	21.130.2	296	CMIS125	26.025.2N	302	COIS125	26.320.2N	309
SGT032A	26.430.2	284	SGM040PV	21.131.2	296	CMIS160	26.026.2N	302	COIS160	26.322.2N	309
SGT040A	26.431.2	284	SGM050PV	21.132.2	296	CMIS200	26.027.2N	302	COIS200	26.329.2N	309
SGT050A	26.432.2	284	SGM063PV	21.133.2	296	CMKS032	26.028.2N	302	P11M1...		313
SGT032AV	26.433.2	284	SGM080PV	21.134.2	296	CMKS040	26.029.2N	302	P11M2...		313
SGT040AV	26.434.2	284	SGM100PV	21.135.2	296	CMKS050	26.030.2N	302	P11M3...		313
SGT050AV	26.435.2	284	SGM125PV	21.136.2	296	CMKS063	26.031.2N	302	P11M4...		313
GPT032	26.113.2	285	SGM160PV	21.137.2	296	CMKS080	26.032.2N	302	P12M1...		313
GPT040	26.114.2	285	SGM200PV	21.138.2	296	CMKS100	26.033.2N	302	P12M2...		313
GPT050	26.115.2	285	KSM032	21.001.3	297	CMKS125	26.034.2N	302	P12M3...		313
CCR032	26.116.2	285	KSM040	21.002.3	297	CMKS160	26.035.2N	302	P12M4...		313
CCR040	26.117.2	285	KSM050	21.003.3	297	CMKS200	26.036.2N	302	P13M1...		313
CCR050	26.118.2	285	KSM063	21.004.3	297	CFIS032	26.001.2N	303	P13M2...		313
FPT032	26.110.2	286	KSM080	21.005.3	297	CFIS040	26.002.2N	303	P13M3...		313
FPT040	26.111.2	286	KSM100	21.006.3	297	CFIS050	26.003.2N	303	P13M4...		313
FPT050	26.112.2	286	KSM125	21.007.3	297	CFIS063	26.004.2N	303	P21M1...		313
N11M2...		288	KSM160	21.008.3	297	CFIS080	26.005.2N	303	P21M2...		313
N11M4...		288	KSM200	21.009.3	297	CFIS100	26.006.2N	303	P21M3...		313
N11B2...		288	KSM032P	21.011.3	297	CFIS125	26.007.2N	303	P21M4...		313
N11B4...		288	KSM040P	21.012.3	297	CFIS160	26.008.2N	303	P22M1...		313
N12M2...		288	KSM050P	21.013.3	297	CFIS200	26.009.2N	303	P22M2...		313
N12M4...		288	KSM063P	21.014.3	297	CFKS032	26.010.2N	303	P22M3...		313
N12B2...		288	KSM080P	21.015.3	297	CFKS040	26.011.2N	303	P22M4...		313
N12B4...		288	KSM100P	21.016.3	297	CFKS050	26.012.2N	303	P23M1...		313
N13M2...		288	KSM125P	21.017.3	297	CFKS063	26.013.2N	303	P23M2...		313
N13M4...		288	KSM160P	21.018.3	297	CFKS080	26.014.2N	303	P23M3...		313
N13B2...		288	KSM200P	21.019.3	297	CFKS100	26.015.2N	303	P23M4...		313
N13B4...		288	KSM032V	21.021.3	297	CFKS125	26.016.2N	303	P31M1...		313
N21M2...		288	KSM040V	21.022.3	297	CFKS160	26.017.2N	303	P31M2...		313
N21M4...		288	KSM050V	21.023.3	297	CFKS200	26.018.2N	303	P31M3...		313
N21B2...		288	KSM063V	21.024.3	297	FLIS032	26.070.2N	304	P31M4...		313
N21B4...		288	KSM080V	21.025.3	297	FLIS040	26.071.2N	304	P32M1...		313
N22M2...		288	KSM100V	21.026.3	297	FLIS050	26.072.2N	304	P32M2...		313
N22M4...		288	KSM125V	21.027.3	297	FLIS063	26.073.2N	304	P32M3...		313
N22B2...		288	KSM160V	21.028.3	297	FLIS080	26.074.2N	304	P32M4...		313
N22B4...		288	KSM200V	21.029.3	297	FLIS100	26.075.2N	304	P33M1...		313
N23M2...		288	KSM032PV	21.031.3	297	FLIS125	26.076.2N	304	P33M2...		313
N23M4...		288	KSM040PV	21.032.3	297	FLIS160	26.077.2N	304	P33M3...		313
N23B2...		288	KSM050PV	21.033.3	297	FLIS200	26.078.2N	304	P33M4...		313
N23B4...		288	KSM063PV	21.034.3	297	PBIS032	26.037.2N	305	P41M1...		313
SGM032	21.100.2	296	KSM080PV	21.035.3	297	PBIS040	26.038.2N	305	P41M2...		313
SGM040	21.101.2	296	KSM100PV	21.036.3	297	PBIS050	26.039.2N	305	P41M3...		313
SGM050	21.102.2	296	KSM125PV	21.037.3	297	PBIS063	26.040.2N	305	P41M4...		313
SGM063	21.103.2	296	KSM160PV	21.038.3	297	PBIS080	26.041.2N	305	P42M1...		313
SGM080	21.104.2	296	KSM200PV	21.039.3	297	PBIS100	26.042.2N	305	P42M2...		313
SGM100	21.105.2	296		000.510.7	300	PBIS125	26.043.2N	305	P42M3...		313
SGM125	21.106.2	296		000.511.7	300	PBIS160	26.044.2N	305	P42M4...		313
SGM160	21.107.2	296		000.512.7	300	PBIS200	26.045.2N	305	P43M1...		313
SGM200	21.108.2	296		000.513.7	300	CIN032	26.088.2N	306	P43M2...		313
SGM032P	21.110.2	296		000.514.7	300	CIN040	26.089.2N	306	P43M3...		313
SGM040P	21.111.2	296		000.515.7	300	CIN050	26.090.2N	306	P43M4...		313
SGM050P	21.112.2	296		000.516.7	300	CIN063	26.091.2N	306	R11M1...		313
SGM063P	21.113.2	296	CMSS032	26.079.2N	301	CIN080	26.092.2N	306	R11M2...		313
SGM080P	21.114.2	296	CMSS040	26.080.2N	301	CIN100	26.093.2N	306	R11M3...		313
SGM100P	21.115.2	296	CMSS050	26.081.2N	301	CIN125	26.100.2N	306	R11M4...		313

indice alfanumerico ordinato per pagina

product reference directory - ordered by catalogue page



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
R12M1...		313	GP100PV	25.138.2	317	FLUN032	26.570.2	331	GD040PV	22.134.2	342
R12M2...		313	KP032	25.004.3	326	FLUN040	26.571.2	331	GD050PV	22.135.2	342
R12M3...		313	KP040	25.005.3	326	FLUN050	26.572.2	331	GD063PV	22.136.2	342
R12M4...		313	KP050	25.006.3	326	FLUN063	26.573.2	331	GD080PV	22.137.2	342
R13M1...		313	KP063	25.007.3	326	FLUN080	26.574.2	331	GD100PV	22.138.2	342
R13M2...		313	KP080	25.008.3	326	FLUN100	26.575.2	331	DCCB 16/32 (M5)	26.156.0T	343
R13M3...		313	KP100	25.009.3	326	PBUN032	26.537.2	332	DCCB 32/100 (M6)	26.157.0T	343
R13M4...		313	KR032	25.104.3	326	PBUN040	26.538.2	332	J11M2...		345
R21M1...		313	KR040	25.105.3	326	PBUN050	26.539.2	332	J11M4...		345
R21M2...		313	KR050	25.106.3	326	PBUN063	26.540.2	332	J11M9...		345
R21M3...		313	KR063	25.107.3	326	PBUN080	26.541.2	332	BM012	27.157.0	352
R21M4...		313	KR080	25.108.3	326	PBUN100	26.542.2	332	BM020	27.158.0	352
R22M1...		313	KR100	25.109.3	326	D11M1...		334	BM025	27.159.0	352
R22M2...		313	KP032P	25.014.3	326	D11M2...		334	BM032	27.160.0	352
R22M3...		313	KP040P	25.015.3	326	D11M3...		334	BM040	27.161.0	352
R22M4...		313	KP050P	25.016.3	326	D11M4...		334	BM050	27.162.0	352
R23M1...		313	KP063P	25.017.3	326	D12M1...		334	BM063	27.163.0	352
R23M2...		313	KP080P	25.018.3	326	D12M2...		334	BM080	27.164.0	352
R23M3...		313	KP100P	25.019.3	326	D12M3...		334	BM100	27.165.0	352
R23M4...		313	KR032P	25.114.3	326	D12M4...		334	BM125	27.166.0	352
R31M1...		313	KR040P	25.115.3	326	D13M1...		334	FR8C10	26.119.2	354
R31M2...		313	KR050P	25.116.3	326	D13M2...		334	FR12C16	26.120.2	354
R31M3...		313	KR063P	25.117.3	326	D13M3...		334	FRC20	26.121.2	354
R31M4...		313	KR080P	25.118.3	326	D13M4...		334	FR25C32	26.122.2	354
R32M1...		313	KR100P	25.119.3	326	D21M1...		334	FRC40	26.123.2	354
R32M2...		313	KP032V	25.024.3	326	D21M2...		334	FR50C63	26.124.2	354
R32M3...		313	KP040V	25.025.3	326	D21M3...		334	FR80C100	26.125.2	354
R32M4...		313	KP050V	25.026.3	326	D21M4...		334	FRC125	26.126.2	354
R33M1...		313	KP063V	25.027.3	326	D22M1...		334	FR160C200	26.127.2	354
R33M2...		313	KP080V	25.028.3	326	D22M2...		334	DSMC8-10	26.196.2	355
R33M3...		313	KP100V	25.029.3	326	D22M3...		334	DSMC12-16	26.197.2	355
R33M4...		313	KR032V	25.124.3	326	D22M4...		334	DSMC20	26.198.2	355
R41M1...		313	KR040V	25.125.3	326	D23M1...		334	DSIS032	21.750.0	355
R41M2...		313	KR050V	25.126.3	326	D23M2...		334	DSIS040	21.751.0	355
R41M3...		313	KR063V	25.127.3	326	D23M3...		334	DSIS05063	21.752.0	355
R41M4...		313	KR080V	25.128.3	326	D23M4...		334	DSIS080100	21.753.0	355
R42M1...		313	KR100V	25.129.3	326	GD016	22.100.2	342	DSIS125	21.754.0	355
R42M2...		313	KP032PV	25.034.3	326	GD020	22.101.2	342	DSIS160200	21.755.0	355
R42M3...		313	KP040PV	25.035.3	326	GD025	22.102.2	342	TS8T10	26.010.0	356
R42M4...		313	KP050PV	25.036.3	326	GD032	22.103.2	342	TS12T16	26.011.0	356
R43M1...		313	KP063PV	25.037.3	326	GD040	22.104.2	342	TST20	26.012.0	356
R43M2...		313	KP080PV	25.038.3	326	GD050	22.105.2	342	TS25T32	26.013.0	356
R43M3...		313	KP100PV	25.039.3	326	GD063	22.106.2	342	TST40	26.014.0	356
R43M4...		313	KR032PV	25.134.3	326	GD080	22.107.2	342	TS50T63	26.015.0	356
GP032	25.103.2	317	KR040PV	25.135.3	326	GD100	22.108.2	342	TS80T100	26.016.0	356
GP040	25.104.2	317	KR050PV	25.136.3	326	GD16V	22.120.2	342	TST125	26.017.0	356
GP050	25.105.2	317	KR063PV	25.137.3	326	GD020V	22.121.2	342	TS160T200	26.018.0	356
GP063	25.106.2	317	KR080PV	25.138.3	326	GD025V	22.122.2	342	SN12D16	26.019.0	357
GP080	25.107.2	317	KR100PV	25.139.3	326	GD032V	22.123.2	342	SND20	26.020.0	357
GP100	25.108.2	317		000.523.7	327	GD040V	22.124.2	342	SN25D32	26.021.0	357
GP032P	25.113.2	317		000.524.7	327	GD050V	22.125.2	342	SND40	26.022.0	357
GP040P	25.114.2	317		000.525.7	327	GD063V	22.126.2	342	SN50D63	26.023.0	357
GP050P	25.115.2	317		000.526.7	327	GD080V	22.127.2	342	SN80D100	26.024.0	357
GP063P	25.116.2	317		000.527.7	327	GD100V	22.128.2	342	UB012C050	27.117.2	360
GP080P	25.117.2	317		000.528.7	327	GD016P	22.110.2	342	UB012C100	27.118.2	360
GP100P	25.118.2	317	CFUN032	26.501.2	330	GD020P	22.111.2	342	UB012C160	27.119.2	360
GP032V	25.123.2	317	CFUN040	26.502.2	330	GD025P	22.112.2	342	UB012C200	27.120.2	360
GP040V	25.124.2	317	CFUN050	26.503.2	330	GD032P	22.113.2	342	UB012C250	27.121.2	360
GP050V	25.125.2	317	CFUN063	26.504.2	330	GD040P	22.114.2	342	UB020C050	27.122.2	360
GP063V	25.126.2	317	CFUN080	26.505.2	330	GD050P	22.115.2	342	UB020C100	27.123.2	360
GP080V	25.127.2	317	CFUN100	26.506.2	330	GD063P	22.116.2	342	UB020C160	27.124.2	360
GP100V	25.128.2	317	CFKN032	26.510.2	330	GD080P	22.117.2	342	UB020C200	27.125.2	360
GP032PV	25.133.2	317	CFKN040	26.511.2	330	GD100P	22.118.2	342	UB020C250	27.126.2	360
GP040PV	25.134.2	317	CFKN050	26.512.2	330	GD016PV	22.130.2	342	UB025C050	27.198.2	360
GP050PV	25.135.2	317	CFKN063	26.513.2	330	GD020PV	22.131.2	342	UB025C100	27.199.2	360
GP063PV	25.136.2	317	CFKN080	26.514.2	330	GD025PV	22.132.2	342	UB025C160	27.200.2	360
GP080PV	25.137.2	317	CFKN100	26.515.2	330	GD032PV	22.133.2	342	UB025C200	27.201.2	360

indice alfanumerico ordinato per pagina

product reference directory - ordered by catalogue page



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	
UB025C250	27.202.2	360	HB012C200	27.062.2	362	HB032C500	27.076.2	363		26.195.0	369	
UB032C050	27.127.2	361	HB012C250	27.063.2	362	HB040C050	27.077.2	363		26.196.0	369	
UB032C100	27.128.2	361	HB020C050	27.064.2	362	HB040C100	27.078.2	363	FIL 2-25-S	16.002.3	376	
UB032C150	27.129.2	361	HB020C100	27.065.2	362	HB040C150	27.079.2	363	FIL 2-05-S	16.016.3	376	
UB032C200	27.130.2	361	HB020C160	27.066.2	362	HB040C200	27.080.2	363	FIL 3-30-S	16.006.3	378	
UB032C250	27.131.2	361	HB020C200	27.067.2	362	HB040C250	27.081.2	363	FIL 3-30-A	16.036.3	378	
UB032C300	27.132.2	361	HB020C250	27.068.2	362	HB040C300	27.082.2	363	FIL 3-05-S	16.017.3	378	
UB032C400	27.133.2	361	HB025C050	27.208.2	362	HB040C400	27.083.2	363	FIL 4-30-S	16.010.3	380	
UB032C500	27.134.2	361	HB025C100	27.209.2	362	HB040C500	27.084.2	363	FIL 4-30-A	16.023.3	380	
UB040C050	27.135.2	361	HB025C160	27.210.2	362	HB050C050	27.085.2	363	FIL 4-05-S	16.018.3	380	
UB040C100	27.136.2	361	HB025C200	27.211.2	362	HB050C100	27.086.2	363	FIL 6-30-S	16.040.3	382	
UB040C150	27.137.2	361	HB025C250	27.212.2	362	HB050C150	27.087.2	363	FIL 6-30-A	16.037.3	382	
UB040C200	27.138.2	361	HS032C050	27.011.0	363	HB050C200	27.088.2	363	FIL 6-05-S	16.038.3	382	
UB040C250	27.139.2	361	HS032C100	27.012.0	363	HB050C250	27.089.2	363	MFIL 2-S	16.024.3	384	
UB040C300	27.140.2	361	HS032C150	27.013.0	363	HB050C300	27.090.2	363	MFIL 3-S	16.025.3	384	
UB040C400	27.141.2	361	HS032C200	27.014.0	363	HB050C400	27.091.2	363	MFIL 4-S	16.026.3	384	
UB040C500	27.142.2	361	HS032C250	27.015.0	363	HB050C500	27.092.2	363	CFIL 2-S	16.056.3	386	
UB050C050	27.143.2	361	HS032C300	27.016.0	363	HB063C050	27.093.2	363	CFIL 3-S	16.057.3	386	
UB050C100	27.144.2	361	HS032C400	27.017.0	363	HB063C100	27.094.2	363	CFIL 4-S	16.059.3	386	
UB050C150	27.145.2	361	HS032C500	27.018.0	363	HB063C150	27.095.2	363	MREG 1-08	16.018.4	388	
UB050C200	27.146.2	361	HS040C050	27.019.0	363	HB063C200	27.096.2	363	MREG 2-08	16.011.4	388	
UB050C250	27.147.2	361	HS040C100	27.020.0	363	HB063C250	27.097.2	363	MREG 2-04	16.016.4	388	
UB050C300	27.148.2	361	HS040C150	27.021.0	363	HB063C300	27.098.2	363	REG 2-08	16.001.3	390	
UB050C400	27.149.2	361	HS040C200	27.022.0	363	HB063C400	27.099.2	363	REG 2-04	16.015.3	390	
UB050C500	27.150.2	361	HS040C250	27.023.0	363	HB063C500	27.100.2	363	REG 2-08-SR	16.032.3	392	
UB063C050	27.151.2	361	HS040C300	27.024.0	363	HB080C050	27.230.2	363	REG 3-08	16.005.3	394	
UB063C100	27.152.2	361	HS040C400	27.025.0	363	HB080C100	27.231.2	363	REG 4-08	16.009.3	396	
UB063C150	27.153.2	361	HS040C500	27.026.0	363	HB080C150	27.232.2	363	REG 6-10	16.043.3	398	
UB063C200	27.154.2	361	HS050C050	27.027.0	363	HB080C200	27.104.2	363	LUB 2-00	16.003.3	400	
UB063C250	27.155.2	361	HS050C100	27.028.0	363	HB080C250	27.105.2	363	LUB 3-00	16.007.3	402	
UB063C300	27.156.2	361	HS050C150	27.029.0	363	HB080C300	27.106.2	363	LUB 4-00	16.011.3	404	
UB063C400	27.180.2	361	HS050C200	27.030.0	363	HB080C400	27.107.2	363	LUB 6-00	16.044.3	406	
UB063C500	27.181.2	361	HS050C250	27.031.0	363	HB080C500	27.108.2	363	FR 2-08-25-S	16.004.3	408	
UB080C050	27.182.2	361	HS050C300	27.032.0	363	HB100C050	27.109.2	363	FR 2-08-05-S	16.020.3	408	
UB080C100	27.183.2	361	HS050C400	27.033.0	363	HB100C100	27.110.2	363	FR 3-08-30-S	16.008.3	410	
UB080C150	27.184.2	361	HS050C500	27.034.0	363	HB100C150	27.111.2	363	FR 3-08-05-S	16.021.3	410	
UB080C200	27.185.2	361	HS063C050	27.035.0	363	HB100C200	27.112.2	363	FR 4-08-30-S	16.012.3	412	
UB080C250	27.186.2	361	HS063C100	27.036.0	363	HB100C250	27.113.2	363	FR 4-08-05-S	16.022.3	412	
UB080C300	27.187.2	361	HS063C150	27.037.0	363	HB100C300	27.114.2	363	FR 6-10-30-S	16.045.3	414	
UB080C400	27.188.2	361	HS063C200	27.038.0	363	HB100C400	27.115.2	363	FR 6-10-05-S	16.039.3	414	
UB080C500	27.189.2	361	HS063C250	27.039.0	363	HB100C500	27.116.2	363	FR+L 2-08-25-S	16.001.4	416	
UB100C050	27.190.2	361	HS063C300	27.040.0	363	RS1-A	RS1/A	364	FR+L 3-08-30-S	16.003.4	418	
UB100C100	27.191.2	361	HS063C400	27.041.0	363	RS1-A 5MT	RS1/A 5MT	364	FR+L 4-08-30-S	16.007.4	420	
UB100C150	27.192.2	361	HS063C500	27.042.0	363	RS2-A	RS2/A	364	FR+L 6-10-30-S	16.024.4	422	
UB100C200	27.193.2	361	HS080C050	27.043.0	363	RS3-A	RS3/A	364	FRL 2-08-25-S	16.002.4	424	
UB100C250	27.194.2	361	HS080C100	27.044.0	363	RS4-A	RS4/A	364	FRL 3-08-30-S	16.004.4	426	
UB100C300	27.195.2	361	HS080C150	27.045.0	363	RS5-C	RS5/C	364	FRL 4-08-30-S	16.008.4	428	
UB100C400	27.196.2	361	HS080C200	27.046.0	363	RS6-3F	RS6/3F	365	FRL 6-10-30-S	16.025.4	430	
UB100C500	27.197.2	361	HS080C250	27.047.0	363	RS7-3F	RS7/3F	365	AVP 2-00	10.004.3	432	
HS012C050	27.001.0	362	HS080C300	27.048.0	363	SH1-P	SH1/P	365	SCR 3-P	16.029.4	434	
HS012C100	27.002.0	362	HS080C400	27.049.0	363	SH2-P	SH2/P	365	SCR 3-E	16.035.3	434	
HS012C160	27.003.0	362	HS080C500	27.050.0	363			26.164.0	366	AVP 3-00	16.030.4	435
HS012C200	27.004.0	362	HS100C050	27.051.0	363			26.165.0	366	SCR 4-P	16.013.4	436
HS012C250	27.005.0	362	HS100C100	27.052.0	363			26.166.0	366	SCR 4-E	16.019.3	436
HS020C050	27.006.0	362	HS100C150	27.053.0	363			26.167.0	366	AVP 4-00	16.012.4	438
HS020C100	27.007.0	362	HS100C200	27.054.0	363			26.147.0	368	SR-M3	16.013.3	440
HS020C160	27.008.0	362	HS100C250	27.055.0	363			26.219.2	368	SR-M4	16.014.3	441
HS020C200	27.009.0	362	HS100C300	27.056.0	363			26.039.0	368	SR-M6	16.046.3	442
HS020C250	27.010.0	362	HS100C400	27.057.0	363			26.040.0	368	RPE 3 V NC	16.050.3	444
HS025C050	27.203.0	362	HS100C500	27.058.0	363			26.041.0	368	RPE 3 V NA	16.051.3	444
HS025C100	27.204.0	362	HB032C050	27.069.2	363			26.042.0	368	RPE 3 A NC	16.052.3	444
HS025C160	27.205.0	362	HB032C100	27.070.2	363			26.229.0	368	RPE 4 V NC	16.053.3	447
HS025C200	27.206.0	362	HB032C150	27.071.2	363			26.230.0	368	RPE 4 V NA	16.054.3	447
HS025C250	27.207.0	362	HB032C200	27.072.2	363			26.231.0	368	RPE 4 A NC	16.055.3	447
HB012C050	27.059.2	362	HB032C250	27.073.2	363			26.232.0	368	PAI 2-00	16.010.2	452
HB012C100	27.060.2	362	HB032C300	27.074.2	363			26.194.0	369	PAI 3-00	16.041.0	452
HB012C160	27.061.2	362	HB032C400	27.075.2	363			26.145.0	369	PAI 4-00	16.042.0	453

indice alfanumerico ordinato per sigla

product reference directory - ordered by part number



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
152 CC	00.096.4	180	252 EE AS	02.074.3	195	314 MV	08.116.4	19	322 CC	01.025.4	81
152 CCD	00.094.4	180	252 EFP	02.072.3	194	314 MV UL	08.158.4	21	322 CC SUP	01.036.4	82
152 CFP	00.173.4	180	252 MC	02.050.4	193	315 MA	08.045.4	22	322 CCD	01.024.4	82
152 EE	00.114.4	182	252 ME	02.070.3	194	315 MA UL	08.151.4	24	322 CE	01.029.3	114
152 EE AS	00.065.4	182	252 ME AS	02.073.3	194	315 MB	08.046.4	22	322 CFP	01.021.4	82
152 EFP	06.001.4	181	253A CC	02.055.4	193	315 MB UL	08.175.4	25	322 CL90	01.082.4	55
152 MC	00.095.4	180	253A EE	02.076.3	195	315 MGG	08.253.4	28	322 CT	01.041.4	58
152 ME	00.112.4	181	253A EE AS	02.079.4	195	315 MGG UL	08.257.4	28	322 CTT	01.078.4	58
152 ME AS	00.064.4	181	253C CC	02.054.4	193	315 MGN	08.255.4	28	322 EE	01.012.3	116
153A CC	00.102.4	180	253C EE	02.075.3	195	315 MGN UL	08.259.4	28	322 EE AS	01.050.3	118
153A EE	00.117.4	182	253C EE AS	02.078.3	195	315 MGR	08.252.4	28	322 EED	01.039.3	116
153A EE AS	00.067.4	182	253P CC	02.056.4	193	315 MGR UL	08.256.4	28	322 EFP	01.049.3	117
153C CC	00.101.4	180	253P EE	02.077.3	195	315 MG V	08.254.4	28	322 LL	01.049.4	60
153C EE	00.116.4	182	253P EE AS	02.080.4	195	315 MG V UL	08.258.4	28	322 LL90	01.055.4	54
153C EE AS	00.066.4	182	304 MA	08.030.4	17	315 MR	08.047.4	23	322 MC	01.022.4	80
153P CC	00.103.4	180	304 MA UL	08.050.4	19	315 MR UL	08.188.4	25	322 MC SUP	01.037.4	80
153P EE	00.118.4	182	304 MB	08.031.4	17	315 MS	08.048.4	23	322 MCA	01.023.4	80
153P EE AS	00.113.4	182	304 MB UL	08.051.4	20	315 MS UL	08.152.4	26	322 MCS	01.083.4	89
2.304 MB	08.085.4	29	304 MGG	08.213.4	27	315 MV	08.153.4	24	322 ME	01.011.3	114
2.304 MB CU	08.086.4	31	304 MGG UL	08.217.4	27	315 MV UL	08.190.4	26	322 ME AS	01.018.3	115
2.304 MB UL	08.067.4	30	304 MGN	08.215.4	27	321 2P	00.133.4	35	322 MEA	01.017.3	114
2.305 MB	08.146.4	29	304 MGN UL	08.219.4	27	321 2PS	00.134.4	38	322 ML90	01.054.4	53
2.305 MB UL	08.194.4	30	304 MGR	08.212.4	27	321 BB90	00.141.4	63	322 MT	01.066.4	57
2.314 MB	08.089.4	29	304 MGR UL	08.216.4	27	321 CC	00.025.4	77	322 ORM	01.009.4	84
2.314 MB UL	08.068.4	30	304 MG V	08.214.4	27	321 CCD	00.024.4	77	322 TT	01.067.4	57
2.315 MB	08.192.4	29	304 MG V UL	08.218.4	27	321 CE	00.032.3	104	324 CC	02.004.4	130
2.315 MB UL	08.195.4	30	304 MR	08.032.4	18	321 CFP	00.021.4	77	324 CCD	02.005.4	130
204 MA	08.104.4	17	304 MR UL	08.052.4	20	321 CL90	00.139.4	45	324 CFP	02.003.4	130
204 MA UL	08.172.4	19	304 MS	08.033.4	18	321 CP	00.135.4	36	324 EE	02.005.3	135
204 MB	08.105.4	17	304 MS UL	08.053.4	21	321 CT	00.110.4	48	324 EE AS	02.006.3	135
204 MB UL	08.130.4	20	304 MV	08.034.4	19	321 CTT	00.004.4	48	324 EED	02.007.3	135
204 MGG	08.229.4	27	304 MV UL	08.054.4	21	321 EE	00.016.3	106	324 EFP	02.004.3	134
204 MGG UL	08.233.4	27	305 LL	03.011.4	31	321 EE AS	00.066.3	108	324 MC	02.001.4	130
204 MGN	08.231.4	27	305 MA	08.040.4	22	321 EE90 L	00.060.3	112	324 MCA	02.002.4	130
204 MGN UL	08.235.4	27	305 MA UL	08.055.4	24	321 EE90 S	00.006.3	112	324 ME	02.001.3	134
204 MGR	08.228.4	27	305 MB	08.041.4	22	321 EED	00.050.3	106	324 ME AS	02.003.3	134
204 MGR UL	08.232.4	27	305 MB UL	08.056.4	25	321 EFP	00.065.3	107	324 MEA	02.002.3	134
204 MG V	08.230.4	27	305 MGG	08.221.4	28	321 LL	00.050.4	52	382 CC	01.014.4	175
204 MG V UL	08.234.4	27	305 MGG UL	08.225.4	28	321 LL90	00.053.4	44	382 EE	01.003.3	176
204 MR	08.111.4	18	305 MGN	08.223.4	28	321 MB	00.072.4	61	382 MC	01.013.4	175
204 MR UL	08.196.4	20	305 MGN UL	08.227.4	28	321 MB90	00.070.4	62	382 ME	01.041.3	176
204 MS	08.117.4	18	305 MGR	08.220.4	28	321 MBA	00.061.4	61	431 MGG	05.143.4	74
204 MS UL	08.160.4	21	305 MGR UL	08.224.4	28	321 MBA90	00.041.4	62	431 MGN	05.145.4	74
204 MV	08.125.4	19	305 MG V	08.222.4	28	321 MC	00.022.4	76	431 MGR	05.142.4	74
204 MV UL	08.149.4	21	305 MG V UL	08.226.4	28	321 MCA	00.023.4	76	431 MG V	05.144.4	74
205 MA	08.141.4	22	305 MR	08.042.4	23	321 MCQ	00.010.4	88	431 MP	05.136.4	71
205 MA UL	08.169.4	24	305 MR UL	08.057.4	25	321 MCS	00.015.4	88	431 MR	05.138.4	72
205 MB	08.157.4	22	305 MS	08.043.4	23	321 ME	00.015.3	104	431 MRL	05.140.4	73
205 MB UL	08.187.4	25	305 MS UL	08.058.4	26	321 ME AS	00.033.3	105	451 MGG	05.147.4	74
205 MGG	08.237.4	28	305 MV	08.044.4	24	321 ME90 L	00.059.3	110	451 MGN	05.149.4	74
205 MGG UL	08.241.4	28	305 MV UL	08.059.4	26	321 ME90 S	00.005.3	110	451 MGR	05.146.4	74
205 MGN	08.239.4	28	314 MA	08.035.4	17	321 MEA	00.010.3	104	451 MG V	05.148.4	74
205 MGN UL	08.243.4	28	314 MA UL	08.060.4	19	321 ML90	00.052.4	43	451 MP	05.137.4	71
205 MGR	08.236.4	28	314 MB	08.036.4	17	321 MN	00.089.4	41	451 MR	05.139.4	72
205 MGR UL	08.240.4	28	314 MB UL	08.061.4	20	321 MNA	00.090.4	41	451 MRL	05.141.4	73
205 MG V	08.238.4	28	314 MGG	08.245.4	27	321 MP	00.077.4	35	504 MB	08.064.4	29
205 MG V UL	08.242.4	28	314 MGG UL	08.249.4	27	321 MPS	00.079.4	37	504 MB CU	08.087.4	31
205 MR	08.173.4	23	314 MGN	08.247.4	27	321 MP SA	00.080.4	37	504 MB UL	08.065.4	30
205 MR UL	08.119.4	25	314 MGN UL	08.251.4	27	321 MR	00.082.4	38	505 MB	08.094.4	29
205 MS	08.185.4	23	314 MGR	08.244.4	27	321 MRS	00.086.4	40	505 MB UL	08.193.4	30
205 MS UL	08.189.4	26	314 MGR UL	08.248.4	27	321 MR SA	00.087.4	40	521 2P	00.036.4	36
205 MV	08.186.4	24	314 MG V	08.246.4	27	321 MRU	00.084.4	39	521 2PS	00.019.4	38
205 MV UL	08.191.4	26	314 MG V UL	08.250.4	27	321 MT	00.075.4	47	521 BB90	00.138.4	63
252 CC	02.051.4	193	314 MR	08.037.4	18	321 TT	00.068.4	47	521 CC	00.028.4	78
252 CCD	02.052.4	193	314 MR UL	08.062.4	20	322 2AND	01.012.4	85	521 CCD	00.030.4	78
252 CFP	02.053.4	193	314 MS	08.038.4	18	322 2OR	01.011.4	85	521 CE	00.035.3	105
252 EE	02.071.3	195	314 MS UL	08.063.4	21	322 ANDM	01.010.4	84	521 CFP	00.029.4	78

indice alfanumerico ordinato per sigla

product reference directory - ordered by part number



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
521 CL90	00.140.4	45	522 ME AS	01.019.3	116	731 ME 04	05.014.4	161	851 EE 02	05.082.4	146
521 CP	00.136.4	36	522 ML90	01.056.4	53	731 ME AS 00	05.020.4	162	851 EE 03	05.083.4	146
521 CT	00.111.4	49	522 MT	01.068.4	57	731 ME AS 01	05.021.4	162	851 EE 04	05.084.4	146
521 CTT	00.005.4	49	522 ORM	01.001.4	86	731 ME AS 02	05.022.4	162	851 EE AS 00	05.105.4	146
521 EE	00.014.3	107	522 TT	01.069.4	58	731 ME AS 03	05.023.4	162	851 EE AS 01	05.106.4	146
521 EE AS	00.067.3	108	5223A CC	01.035.4	79	731 ME AS 04	05.024.4	162	851 EE AS 02	05.107.4	146
521 EE90 L	00.062.3	113	5223A EE	01.022.3	119	731 MEA 00	05.015.4	161	851 EE AS 03	05.108.4	146
521 EE90 S	00.009.3	113	5223A EE AS	01.025.3	119	731 MEA 01	05.016.4	161	851 EE AS 04	05.109.4	146
521 EED	00.049.3	107	5223A LL90	01.060.4	56	731 MEA 02	05.017.4	161	851 EFP 00	05.120.4	145
521 EFP	00.063.3	108	5223A ML90	01.062.4	56	731 MEA 03	05.018.4	161	851 EFP 01	05.121.4	145
521 LL	00.051.4	52	5223C CC	01.034.4	79	731 MEA 04	05.019.4	161	851 EFP 02	05.122.4	145
521 LL90	00.055.4	44	5223C EE	01.021.3	119	751 CC	05.006.4	156	851 EFP 03	05.123.4	145
521 MB	00.073.4	61	5223C EE AS	01.024.3	119	751 CCD	05.007.4	157	851 EFP 04	05.124.4	145
521 MB90	00.071.4	62	5223C LL90	01.059.4	56	751 CFP	05.008.4	158	851 MC	05.077.4	140
521 MC	00.027.4	76	5223C ML90	01.061.4	56	751 EE 00	05.050.4	164	851 ME 00	05.072.4	144
521 MCQ	00.011.4	88	5223P CC	01.073.4	79	751 EE 01	05.051.4	164	851 ME 01	05.073.4	144
521 MCS	00.016.4	89	5223P EE	01.023.3	119	751 EE 02	05.052.4	164	851 ME 02	05.074.4	144
521 ME	00.013.3	105	5223P EE AS	01.026.3	119	751 EE 03	05.053.4	164	851 ME 03	05.075.4	144
521 ME AS	00.034.3	106	5223P LL90	01.058.4	56	751 EE 04	05.054.4	164	851 ME 04	05.076.4	144
521 ME90 L	00.061.3	111	5223P ML90	01.063.4	56	751 EE AS 00	05.055.4	165	851 ME AS 00	05.100.4	144
521 ME90 S	00.007.3	111	524 CC	02.008.4	131	751 EE AS 01	05.056.4	165	851 ME AS 01	05.101.4	144
521 ML90	00.054.4	43	524 CCD	02.009.4	131	751 EE AS 02	05.057.4	165	851 ME AS 02	05.102.4	144
521 MN	00.091.4	41	524 CFP	02.007.4	131	751 EE AS 03	05.058.4	165	851 ME AS 03	05.103.4	144
521 MP	00.078.4	35	524 EE	02.011.3	137	751 EE AS 04	05.059.4	165	851 ME AS 04	05.104.4	144
521 MPS	00.081.4	37	524 EE AS	02.012.3	137	751 EFP 00	05.095.4	163	8513A CC	05.151.4	142
521 MR	00.083.4	39	524 EED	02.013.3	137	751 EFP 01	05.096.4	163	8513A EE 00	05.115.4	147
521 MRS	00.088.4	40	524 EFP	02.010.3	136	751 EFP 02	05.097.4	163	8513A EE 01	05.116.4	147
521 MRU	00.085.4	39	524 MC	02.006.4	131	751 EFP 03	05.098.4	163	8513A EE 02	05.117.4	147
521 MT	00.076.4	47	524 ME	02.008.3	136	751 EFP 04	05.099.4	163	8513A EE 03	05.118.4	147
521 TT	00.069.4	48	524 ME AS	02.009.3	136	751 MC	05.005.4	155	8513A EE 04	05.119.4	147
5213A CC	00.032.4	79	5243A CC	02.011.4	131	751 ME 00	05.040.4	161	8513A EE AS 00	05.130.4	147
5213A EE	00.037.3	109	5243A EE	02.015.3	137	751 ME 01	05.041.4	161	8513A EE AS 01	05.131.4	147
5213A EE AS	00.040.3	109	5243A EE AS	02.018.3	137	751 ME 02	05.042.4	161	8513A EE AS 02	05.132.4	147
5213A LL90	00.059.4	46	5243C CC	02.010.4	131	751 ME 03	05.043.4	161	8513A EE AS 03	05.133.4	147
5213A ML	00.151.4	50	5243C EE	02.014.3	137	751 ME 04	05.044.4	161	8513A EE AS 04	05.134.4	147
5213A ML90	00.058.4	46	5243C EE AS	02.017.3	137	751 ME AS 00	05.045.4	162	8513C CC	05.150.4	142
5213C CC	00.031.4	79	5243P CC	02.012.4	131	751 ME AS 01	05.046.4	162	8513C EE 00	05.110.4	147
5213C EE	00.036.3	109	5243P EE	02.016.3	137	751 ME AS 02	05.047.4	162	8513C EE 01	05.111.4	147
5213C EE AS	00.039.3	109	5243P EE AS	02.019.3	137	751 ME AS 03	05.048.4	162	8513C EE 02	05.112.4	147
5213C LL90	00.057.4	46	582 CC	01.015.4	175	751 ME AS 04	05.049.4	162	8513C EE 03	05.113.4	147
5213C ML90	00.056.4	46	582 EE	01.038.3	176	7513A CC	05.153.4	159	8513C EE 04	05.114.4	147
5213P CC	00.043.4	79	582 MC	01.008.4	175	7513A EE 00	05.065.4	166	8513C EE AS 00	05.125.4	147
5213P EE	00.038.3	109	582 ME	01.037.3	176	7513A EE 01	05.066.4	166	8513C EE AS 01	05.126.4	147
5213P EE AS	00.041.3	109	731 CC	05.002.4	156	7513A EE 02	05.067.4	166	8513C EE AS 02	05.127.4	147
5213P LL90	00.060.4	46	731 CCD	05.003.4	157	7513A EE 03	05.068.4	166	8513C EE AS 03	05.128.4	147
5213P ML90	00.042.4	46	731 CFP	05.004.4	158	7513A EE 04	05.069.4	166	8513C EE AS 04	05.129.4	147
522 2AND	01.006.4	87	731 EE 00	05.025.4	164	7513A EE AS 00	05.090.4	166	AKS 3	16.007.2	456
522 2OR	01.005.4	87	731 EE 01	05.026.4	164	7513A EE AS 01	05.091.4	166	AKS 4-6	16.029.0	456
522 ANDM	01.002.4	86	731 EE 02	05.027.4	164	7513A EE AS 02	05.092.4	166	AVP 2-00	10.004.3	432
522 CC	01.028.4	83	731 EE 03	05.028.4	164	7513A EE AS 03	05.093.4	166	AVP 3-00	16.030.4	435
522 CC SUP	01.070.4	84	731 EE 04	05.029.4	164	7513A EE AS 04	05.094.4	166	AVP 4-00	16.012.4	438
522 CCD	01.030.4	83	731 EE AS 00	05.030.4	165	7513C CC	05.152.4	159	AZ-CRS1	18.001.0	224
522 CE	01.020.3	115	731 EE AS 01	05.031.4	165	7513C EE 00	05.060.4	166	AZ-CRS2	18.002.0	224
522 CFP	01.029.4	83	731 EE AS 02	05.032.4	165	7513C EE 01	05.061.4	166	AZ-CRS3	18.003.0	224
522 CL90	01.065.4	55	731 EE AS 03	05.033.4	165	7513C EE 02	05.062.4	166	AZ-CRS4	18.004.0	224
522 CT	01.042.4	59	731 EE AS 04	05.034.4	165	7513C EE 03	05.063.4	166	AZ-SC1	AU.040.0	223
522 CTT	01.079.4	59	731 EFP 00	05.035.4	163	7513C EE 04	05.064.4	166	AZ-SC2	AU.044.0	223
522 EE	01.010.3	117	731 EFP 01	05.036.4	163	7513C EE AS 00	05.085.4	166	AZ-SC3	AU.053.0	223
522 EE AS	01.052.3	118	731 EFP 02	05.037.4	163	7513C EE AS 01	05.086.4	166	AZ-SC4	AU.074.0	223
522 EED	01.040.3	117	731 EFP 03	05.038.4	163	7513C EE AS 02	05.087.4	166	AZ-SC5	AU.073.0	223
522 EFP	01.045.3	118	731 EFP 04	05.039.4	163	7513C EE AS 03	05.088.4	166	AZ-SE1	AU.043.0	222
522 LL	01.050.4	60	731 MC	05.001.4	155	7513C EE AS 04	05.089.4	166	AZ-SE2	AU.047.0	222
522 LL90	01.057.4	54	731 MCA	05.071.4	155	851 CC	05.078.4	140	AZ-SE3	AU.054.0	222
522 MC	01.027.4	81	731 ME 00	05.010.4	161	851 CCD	05.079.4	141	AZ-SE4	AU.072.0	222
522 MC SUP	01.074.4	81	731 ME 01	05.011.4	161	851 CFP	05.135.4	141	AZ-SE5	AU.071.0	222
522 MCS	01.004.4	89	731 ME 02	05.012.4	161	851 EE 00	05.080.4	146	AZ-SEP1	AU.041.0	223
522 ME	01.009.3	115	731 ME 03	05.013.4	161	851 EE 01	05.081.4	146	AZ-SEP2	AU.045.0	223

INDEX

indice alfanumerico ordinato per sigla

product reference directory - ordered by part number



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
AZ-SEP3	AU.051.0	223	CIN063	26.091.2N	306	D23M3...		334	FR 6N-10-30-S	16.120.0	470
AZ-SEP4	AU.076.0	223	CIN080	26.092.2N	306	D23M4...		334	FR+L 2-08-25-S	16.001.4	416
AZ-SEP5	AU.075.0	223	CIN100	26.093.2N	306	DC751	05.026.2	168	FR+L 3-08-30-S	16.003.4	418
AZ-SFE1	AU.042.0	222	CIN125	26.100.2N	306	DC851	05.033.2	151	FR+L 4-08-30-S	16.007.4	420
AZ-SFE2	AU.046.0	222	CMIS032	26.019.2N	302	DCCB 16/32 (M5)	26.156.0T	343	FR+L 6-10-30-S	16.024.4	422
AZ-SFE3	AU.052.0	222	CMIS040	26.020.2N	302	DCCB 32/100 (M6)	26.157.0T	343	FR+L 6N-10-30-S	16.060.4	472
AZ-SFE4	AU.058.0	222	CMIS050	26.021.2N	302	DD751	05.028.2	170	FR12C16	26.120.2	354
AZ-SFE5	AU.057.0	222	CMIS063	26.022.2N	302	DF1	00.307.0	189	FR160C200	26.127.2	354
AZ-SPL2	AU.048.0	222	CMIS080	26.023.2N	302	DF851	05.102.2	152	FR25C32	26.122.2	354
AZ-SPL3	AU.055.0	222	CMIS100	26.024.2N	302	DP 2005	03.009.4	260	FR50C63	26.124.2	354
AZ-SPL4	AU.060.0	222	CMIS125	26.025.2N	302	DP 2010 E	03.020.4	258	FR80C100	26.125.2	354
AZ-SPL5	AU.059.0	222	CMIS160	26.026.2N	302	DP 2018 F	03.003.4	259	FR8C10	26.119.2	354
BM012	27.157.0	352	CMIS200	26.027.2N	302	DR751	05.027.2	168	FRC125	26.126.2	354
BM020	27.158.0	352	CMKS032	26.028.2N	302	DR851	05.034.2	151	FRC20	26.121.2	354
BM025	27.159.0	352	CMKS040	26.029.2N	302	DSIS032	21.750.0	355	FRC40	26.123.2	354
BM032	27.160.0	352	CMKS050	26.030.2N	302	DSIS040	21.751.0	355	FRL 2-08-25-S	16.002.4	424
BM040	27.161.0	352	CMKS063	26.031.2N	302	DSIS05063	21.752.0	355	FRL 3-08-30-S	16.004.4	426
BM050	27.162.0	352	CMKS080	26.032.2N	302	DSIS080100	21.753.0	355	FRL 4-08-30-S	16.008.4	428
BM063	27.163.0	352	CMKS100	26.033.2N	302	DSIS125	21.754.0	355	FRL 6-10-30-S	16.025.4	430
BM080	27.164.0	352	CMKS125	26.034.2N	302	DSIS160200	21.755.0	355	FRL 6N-10-30-S	16.061.4	474
BM100	27.165.0	352	CMKS160	26.035.2N	302	DSMC12-16	26.197.2	355	GD016	22.100.2	342
BM125	27.166.0	352	CMKS200	26.036.2N	302	DSMC20	26.198.2	355	GD016P	22.110.2	342
BM751	05.025.2	168	CMSS032	26.079.2N	301	DSMC8-10	26.196.2	355	GD016PV	22.130.2	342
BM851	05.030.2	149	CMSS040	26.080.2N	301	FIL 2-05-S	16.016.3	376	GD016V	22.120.2	342
BS851	05.029.1	149	CMSS050	26.081.2N	301	FIL 2-25-S	16.002.3	376	GD020	22.101.2	342
CCMC08-10	26.107.2N	275	CMSS063	26.082.2N	301	FIL 3-05-S	16.017.3	378	GD020P	22.111.2	342
CCMC12-16	26.108.2N	275	CMSS080	26.083.2N	301	FIL 3-30-A	16.036.3	378	GD020PV	22.131.2	342
CCMC20-25	26.109.2N	275	CMSS100	26.084.2N	301	FIL 3-30-S	16.006.3	378	GD020V	22.121.2	342
CCR032	26.116.2	285	CMSS125	26.085.2N	301	FIL 4-05-S	16.018.3	380	GD025	22.102.2	342
CCR040	26.117.2	285	CMSS160	26.086.2N	301	FIL 4-30-A	16.023.3	380	GD025P	22.112.2	342
CCR050	26.118.2	285	CMSS200	26.087.2N	301	FIL 4-30-S	16.010.3	380	GD025PV	22.132.2	342
CFIL 2-S	16.056.3	386	COIS032	26.052.2N	309	FIL 6-05-S	16.038.3	382	GD025V	22.122.2	342
CFIL 3-S	16.057.3	386	COIS040	26.053.2N	309	FIL 6-30-A	16.037.3	382	GD032	22.103.2	342
CFIL 4-S	16.059.3	386	COIS050	26.054.2N	309	FIL 6-30-S	16.040.3	382	GD032P	22.113.2	342
CFIS032	26.001.2N	303	COIS063	26.055.2N	309	FIL 6N-05-S	16.117.0	464	GD032PV	22.133.2	342
CFIS040	26.002.2N	303	COIS080	26.056.2N	309	FIL 6N-30-A	16.116.0	464	GD032V	22.123.2	342
CFIS050	26.003.2N	303	COIS100	26.057.2N	309	FIL 6N-30-S	16.115.0	464	GD040	22.104.2	342
CFIS063	26.004.2N	303	COIS125	26.320.2N	309	FLIS032	26.070.2N	304	GD040P	22.114.2	342
CFIS080	26.005.2N	303	COIS160	26.322.2N	309	FLIS040	26.071.2N	304	GD040PV	22.134.2	342
CFIS100	26.006.2N	303	COIS200	26.329.2N	309	FLIS050	26.072.2N	304	GD040V	22.124.2	342
CFIS125	26.007.2N	303	CS731	05.022.2	170	FLIS063	26.073.2N	304	GD050	22.105.2	342
CFIS160	26.008.2N	303	CS751	05.021.2	170	FLIS080	26.074.2N	304	GD050P	22.115.2	342
CFIS200	26.009.2N	303	CS851	05.029.2	152	FLIS100	26.075.2N	304	GD050PV	22.135.2	342
CFKN032	26.510.2	330	CSIS160TI	26.325.2N	308	FLIS125	26.076.2N	304	GD050V	22.125.2	342
CFKN040	26.511.2	330	CSIS200TI	26.326.2N	308	FLIS160	26.077.2N	304	GD063	22.106.2	342
CFKN050	26.512.2	330	D11M1...		334	FLIS200	26.078.2N	304	GD063P	22.116.2	342
CFKN063	26.513.2	330	D11M2...		334	FLMC08-10	26.104.2N	274	GD063PV	22.136.2	342
CFKN080	26.514.2	330	D11M3...		334	FLMC12-16	26.105.2N	274	GD063V	22.126.2	342
CFKN100	26.515.2	330	D11M4...		334	FLMC20-25	26.106.2N	274	GD080	22.107.2	342
CFKS032	26.010.2N	303	D12M1...		334	FLUN032	26.570.2	331	GD080P	22.117.2	342
CFKS040	26.011.2N	303	D12M2...		334	FLUN040	26.571.2	331	GD080PV	22.137.2	342
CFKS050	26.012.2N	303	D12M3...		334	FLUN050	26.572.2	331	GD080V	22.127.2	342
CFKS063	26.013.2N	303	D12M4...		334	FLUN063	26.573.2	331	GD100	22.108.2	342
CFKS080	26.014.2N	303	D13M1...		334	FLUN080	26.574.2	331	GD100P	22.118.2	342
CFKS100	26.015.2N	303	D13M2...		334	FLUN100	26.575.2	331	GD100PV	22.138.2	342
CFKS125	26.016.2N	303	D13M3...		334	FPT032	26.110.2	286	GD100V	22.128.2	342
CFKS160	26.017.2N	303	D13M4...		334	FPT040	26.111.2	286	GPO32	25.103.2	317
CFKS200	26.018.2N	303	D21M1...		334	FPT050	26.112.2	286	GPO32P	25.113.2	317
CFUN032	26.501.2	330	D21M2...		334	FR 2-08-05-S	16.020.3	408	GPO32PV	25.133.2	317
CFUN040	26.502.2	330	D21M3...		334	FR 2-08-25-S	16.004.3	408	GPO32V	25.123.2	317
CFUN050	26.503.2	330	D21M4...		334	FR 3-08-05-S	16.021.3	410	GPO40	25.104.2	317
CFUN063	26.504.2	330	D22M1...		334	FR 3-08-30-S	16.008.3	410	GPO40P	25.114.2	317
CFUN080	26.505.2	330	D22M2...		334	FR 4-08-05-S	16.022.3	412	GPO40PV	25.134.2	317
CFUN100	26.506.2	330	D22M3...		334	FR 4-08-30-S	16.012.3	412	GPO40V	25.124.2	317
CIN032	26.088.2N	306	D22M4...		334	FR 6-10-05-S	16.039.3	414	GPO50	25.105.2	317
CIN040	26.089.2N	306	D23M1...		334	FR 6-10-30-S	16.045.3	414	GPO50P	25.115.2	317
CIN050	26.090.2N	306	D23M2...		334	FR 6N-10-05-S	16.121.0	470	GPO50PV	25.135.2	317

indice alfanumerico ordinato per sigla

product reference directory - ordered by part number



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
GP050V	25.125.2	317	HB080C100	27.231.2	363	HS080C300	27.048.0	363	KSM032	21.001.3	297
GP063	25.106.2	317	HB080C150	27.232.2	363	HS080C400	27.049.0	363	KSM032P	21.011.3	297
GP063P	25.116.2	317	HB080C200	27.104.2	363	HS080C500	27.050.0	363	KSM032PV	21.031.3	297
GP063PV	25.136.2	317	HB080C250	27.105.2	363	HS100C050	27.051.0	363	KSM032V	21.021.3	297
GP063V	25.126.2	317	HB080C300	27.106.2	363	HS100C100	27.052.0	363	KSM040	21.002.3	297
GP080	25.107.2	317	HB080C400	27.107.2	363	HS100C150	27.053.0	363	KSM040P	21.012.3	297
GP080P	25.117.2	317	HB080C500	27.108.2	363	HS100C200	27.054.0	363	KSM040PV	21.032.3	297
GP080PV	25.137.2	317	HB100C050	27.109.2	363	HS100C250	27.055.0	363	KSM040V	21.022.3	297
GP080V	25.127.2	317	HB100C100	27.110.2	363	HS100C300	27.056.0	363	KSM050	21.003.3	297
GP100	25.108.2	317	HB100C150	27.111.2	363	HS100C400	27.057.0	363	KSM050P	21.013.3	297
GP100P	25.118.2	317	HB100C200	27.112.2	363	HS100C500	27.058.0	363	KSM050PV	21.033.3	297
GP100PV	25.138.2	317	HB100C250	27.113.2	363	J11M2...		345	KSM050V	21.023.3	297
GP100V	25.128.2	317	HB100C300	27.114.2	363	J11M4...		345	KSM063	21.004.3	297
GPM010	26.140.2	272	HB100C400	27.115.2	363	J11M9...		345	KSM063P	21.014.3	297
GPM12-16	26.141.2	272	HB100C500	27.116.2	363	KIT 2-00	16.002.2	455	KSM063PV	21.034.3	297
GPM20-25	26.142.2	272	HS012C050	27.001.0	362	KIT 3-00	16.003.2	455	KSM063V	21.024.3	297
GPT032	26.113.2	285	HS012C100	27.002.0	362	KIT 4-00	16.018.0	455	KSM080	21.005.3	297
GPT040	26.114.2	285	HS012C160	27.003.0	362	KIT 6-00	16.075.0	455	KSM080P	21.015.3	297
GPT050	26.115.2	285	HS012C200	27.004.0	362	KIT 6N-00	16.122.0	455	KSM080PV	21.035.3	297
HB012C050	27.059.2	362	HS012C250	27.005.0	362	KP032	25.004.3	326	KSM080V	21.025.3	297
HB012C100	27.060.2	362	HS020C050	27.006.0	362	KP032P	25.014.3	326	KSM100	21.006.3	297
HB012C160	27.061.2	362	HS020C100	27.007.0	362	KP032PV	25.034.3	326	KSM100P	21.016.3	297
HB012C200	27.062.2	362	HS020C160	27.008.0	362	KP032V	25.024.3	326	KSM100PV	21.036.3	297
HB012C250	27.063.2	362	HS020C200	27.009.0	362	KP040	25.005.3	326	KSM100V	21.026.3	297
HB020C050	27.064.2	362	HS020C250	27.010.0	362	KP040P	25.015.3	326	KSM125	21.007.3	297
HB020C100	27.065.2	362	HS025C050	27.203.0	362	KP040PV	25.035.3	326	KSM125P	21.017.3	297
HB020C160	27.066.2	362	HS025C100	27.204.0	362	KP040V	25.025.3	326	KSM125PV	21.037.3	297
HB020C200	27.067.2	362	HS025C160	27.205.0	362	KP050	25.006.3	326	KSM125V	21.027.3	297
HB020C250	27.068.2	362	HS025C200	27.206.0	362	KP050P	25.016.3	326	KSM160	21.008.3	297
HB025C050	27.208.2	362	HS025C250	27.207.0	362	KP050PV	25.036.3	326	KSM160P	21.018.3	297
HB025C100	27.209.2	362	HS032C050	27.011.0	363	KP050V	25.026.3	326	KSM160PV	21.038.3	297
HB025C160	27.210.2	362	HS032C100	27.012.0	363	KP063	25.007.3	326	KSM160V	21.028.3	297
HB025C200	27.211.2	362	HS032C150	27.013.0	363	KP063P	25.017.3	326	KSM200	21.009.3	297
HB025C250	27.212.2	362	HS032C200	27.014.0	363	KP063PV	25.037.3	326	KSM200P	21.019.3	297
HB032C050	27.069.2	363	HS032C250	27.015.0	363	KP063V	25.027.3	326	KSM200PV	21.039.3	297
HB032C100	27.070.2	363	HS032C300	27.016.0	363	KP080	25.008.3	326	KSM200V	21.029.3	297
HB032C150	27.071.2	363	HS032C400	27.017.0	363	KP080P	25.018.3	326	LUB 2-00	16.003.3	400
HB032C200	27.072.2	363	HS032C500	27.018.0	363	KP080PV	25.038.3	326	LUB 3-00	16.007.3	402
HB032C250	27.073.2	363	HS040C050	27.019.0	363	KP080V	25.028.3	326	LUB 4-00	16.011.3	404
HB032C300	27.074.2	363	HS040C100	27.020.0	363	KP100	25.009.3	326	LUB 6-00	16.044.3	406
HB032C400	27.075.2	363	HS040C150	27.021.0	363	KP100P	25.019.3	326	LUB 6N-00	16.119.0	468
HB032C500	27.076.2	363	HS040C200	27.022.0	363	KP100PV	25.039.3	326	M21A1...		266
HB040C050	27.077.2	363	HS040C250	27.023.0	363	KP100V	25.029.3	326	M21A2...		266
HB040C100	27.078.2	363	HS040C300	27.024.0	363	KR032	25.104.3	326	M21A3...		266
HB040C150	27.079.2	363	HS040C400	27.025.0	363	KR032P	25.114.3	326	M21A4...		266
HB040C200	27.080.2	363	HS040C500	27.026.0	363	KR032PV	25.134.3	326	M21A5...		266
HB040C250	27.081.2	363	HS050C050	27.027.0	363	KR032V	25.124.3	326	M21A6...		266
HB040C300	27.082.2	363	HS050C100	27.028.0	363	KR040	25.105.3	326	M21B1...		266
HB040C400	27.083.2	363	HS050C150	27.029.0	363	KR040P	25.115.3	326	M21B2...		266
HB040C500	27.084.2	363	HS050C200	27.030.0	363	KR040PV	25.135.3	326	M21B3...		266
HB050C050	27.085.2	363	HS050C250	27.031.0	363	KR040V	25.125.3	326	M21B4...		266
HB050C100	27.086.2	363	HS050C300	27.032.0	363	KR050	25.106.3	326	M21B5...		266
HB050C150	27.087.2	363	HS050C400	27.033.0	363	KR050P	25.116.3	326	M21B6...		266
HB050C200	27.088.2	363	HS050C500	27.034.0	363	KR050PV	25.136.3	326	M21M1...		266
HB050C250	27.089.2	363	HS063C050	27.035.0	363	KR050V	25.126.3	326	M21M2...		266
HB050C300	27.090.2	363	HS063C100	27.036.0	363	KR063	25.107.3	326	M21M3...		266
HB050C400	27.091.2	363	HS063C150	27.037.0	363	KR063P	25.117.3	326	M21M4...		266
HB050C500	27.092.2	363	HS063C200	27.038.0	363	KR063PV	25.137.3	326	M21M5...		266
HB063C050	27.093.2	363	HS063C250	27.039.0	363	KR063V	25.127.3	326	M21M6...		266
HB063C100	27.094.2	363	HS063C300	27.040.0	363	KR080	25.108.3	326	M21S1...		266
HB063C150	27.095.2	363	HS063C400	27.041.0	363	KR080P	25.118.3	326	M21S2...		266
HB063C200	27.096.2	363	HS063C500	27.042.0	363	KR080PV	25.138.3	326	M21S3...		266
HB063C250	27.097.2	363	HS080C050	27.043.0	363	KR080V	25.128.3	326	M21S4...		266
HB063C300	27.098.2	363	HS080C100	27.044.0	363	KR100	25.109.3	326	M21S5...		266
HB063C400	27.099.2	363	HS080C150	27.045.0	363	KR100P	25.119.3	326	M21S6...		266
HB063C500	27.100.2	363	HS080C200	27.046.0	363	KR100PV	25.139.3	326	M22A1...		266
HB080C050	27.230.2	363	HS080C250	27.047.0	363	KR100V	25.129.3	326	M22A2...		266

indice alfanumerico ordinato per sigla

product reference directory - ordered by part number



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
M22A3...		266	P12M3...		313	PED 502 S	01.072.4	67	RFU 1/2	12.003.4	201
M22A4...		266	P12M4...		313	PEDS 502 B	01.081.4	67	RFU 1/4	12.001.4	201
M22A5...		266	P13M1...		313	PEDS 502 M	01.080.4	67	RFU 1/8.1	12.010.4	201
M22A6...		266	P13M2...		313	PR 2-00	16.100.0	454	RFU 1/8.2	12.000.4	201
M22B1...		266	P13M3...		313	PR 3-00	16.012.0	454	RFU 1/8.3	12.000.4-1/4	201
M22B2...		266	P13M4...		313	PR 4-00	16.020.0	454	RFU 3/8	12.002.4	201
M22B3...		266	P21M1...		313	R11M1...		313	RFU M5	12.047.4	201
M22B4...		266	P21M2...		313	R11M2...		313	RFUM 1/4	12.005.4	202
M22B5...		266	P21M3...		313	R11M3...		313	RFUM 1/8	12.004.4	202
M22B6...		266	P21M4...		313	R11M4...		313	RM 010	RM 010	64
M22M1...		266	P22M1...		313	R12M1...		313	RM 050 N	RM 050 N	64
M22M2...		266	P22M2...		313	R12M2...		313	RM 050 R	RM 050 R	64
M22M3...		266	P22M3...		313	R12M3...		313	RM 055 N	RM 055 N	64
M22M4...		266	P22M4...		313	R12M4...		313	RM 055 R	RM 055 R	64
M22M5...		266	P23M1...		313	R13M1...		313	RM 056 R	RM 056 R	64
M22M6...		266	P23M2...		313	R13M2...		313	RM 065 R	RM 065 R	64
M22S1...		266	P23M3...		313	R13M3...		313	RM 066 R	RM 066 R	64
M22S2...		266	P23M4...		313	R13M4...		313	RM 200 N	RM 200 N	65
M22S3...		266	P31M1...		313	R21M1...		313	RM 300 N	RM 300 N	65
M22S4...		266	P31M2...		313	R21M2...		313	RM 313 N	RM 313 N	65
M22S5...		266	P31M3...		313	R21M3...		313	RM 350 N	RM 350 N	65
M22S6...		266	P31M4...		313	R21M4...		313	RM 383 N	RM 383 N	65
M40-00	17.001.0	462	P32M1...		313	R22M1...		313	RM 400 N	RM 400 N	65
M50-00	17.002.0	462	P32M2...		313	R22M2...		313	RM 413 N	RM 413 N	65
M63-00	17.003.0	462	P32M3...		313	R22M3...		313	RM 450 N	RM 450 N	65
MFIL 2-S	16.024.3	384	P32M4...		313	R22M4...		313	RM 483 N	RM 483 N	65
MFIL 3-S	16.025.3	384	P33M1...		313	R23M1...		313	RPE 3 A NC	16.052.3	444
MFIL 4-S	16.026.3	384	P33M2...		313	R23M2...		313	RPE 3 V NA	16.051.3	444
MLD1	00.071.2	187	P33M3...		313	R23M3...		313	RPE 3 V NC	16.050.3	444
MLD2	02.001.2	196	P33M4...		313	R23M4...		313	RPE 4 A NC	16.055.3	447
MREG 1-08	16.018.4	388	P41M1...		313	R31M1...		313	RPE 4 V NA	16.054.3	447
MREG 2-04	16.016.4	388	P41M2...		313	R31M2...		313	RPE 4 V NC	16.053.3	447
MREG 2-08	16.011.4	388	P41M3...		313	R31M3...		313	RS1-A	RS1/A	364
N11B2...		288	P41M4...		313	R31M4...		313	RS1-A 5MT	RS1/A 5MT	364
N11B4...		288	P42M1...		313	R32M1...		313	RS2-A	RS2/A	364
N11M2...		288	P42M2...		313	R32M2...		313	RS3-A	RS3/A	364
N11M4...		288	P42M3...		313	R32M3...		313	RS4-A	RS4/A	364
N12B2...		288	P42M4...		313	R32M4...		313	RS5-C	RS5/C	364
N12B4...		288	P43M1...		313	R33M1...		313	RS6-3F	RS6/3F	365
N12M2...		288	P43M2...		313	R33M2...		313	RS7-3F	RS7/3F	365
N12M4...		288	P43M3...		313	R33M3...		313	RSTC 1/4	11.018.4	219
N13B2...		288	P43M4...		313	R33M4...		313	RSTC 1/8	11.017.4	219
N13B4...		288	PAI 2-00	16.010.2	452	R41M1...		313	RSW 1/2	11.014.4	219
N13M2...		288	PAI 3-00	16.041.0	452	R41M2...		313	RSW 1/4	11.013.4	219
N13M4...		288	PAI 4-00	16.042.0	453	R41M3...		313	RSW 1/8	11.012.4	219
N21B2...		288	PAI 6-00	16.076.0	453	R41M4...		313	RSW 3/8	11.039.4	219
N21B4...		288	PBISO32	26.037.2N	305	R42M1...		313	SCR 3-E	16.035.3	434
N21M2...		288	PBISO40	26.038.2N	305	R42M2...		313	SCR 3-P	16.029.4	434
N21M4...		288	PBISO50	26.039.2N	305	R42M3...		313	SCR 4-E	16.019.3	436
N22B2...		288	PBISO63	26.040.2N	305	R42M4...		313	SCR 4-P	16.013.4	436
N22B4...		288	PBISO80	26.041.2N	305	R43M1...		313	SGM032	21.100.2	296
N22M2...		288	PBISO100	26.042.2N	305	R43M2...		313	SGM032P	21.110.2	296
N22M4...		288	PBISO125	26.043.2N	305	R43M3...		313	SGM032PV	21.130.2	296
N23B2...		288	PBISO160	26.044.2N	305	R43M4...		313	SGM032V	21.120.2	296
N23B4...		288	PBISO200	26.045.2N	305	REG 2-04	16.015.3	390	SGM040	21.101.2	296
N23M2...		288	PBUN032	26.537.2	332	REG 2-08	16.001.3	390	SGM040P	21.111.2	296
N23M4...		288	PBUN040	26.538.2	332	REG 2-08-SR	16.032.3	392	SGM040PV	21.131.2	296
P 22804 A	P 22804 A	64	PBUN050	26.539.2	332	REG 3-08	16.005.3	394	SGM040V	21.121.2	296
P 22804 B	P 22804 B	64	PBUN063	26.540.2	332	REG 4-08	16.009.3	396	SGM050	21.102.2	296
P 22804 G	P 22804 G	64	PBUN080	26.541.2	332	REG 6-10	16.043.3	398	SGM050P	21.112.2	296
P 22804 V	P 22804 V	64	PBUN100	26.542.2	332	REG 6N-10	16.118.0	466	SGM050PV	21.132.2	296
P11M1...		313	PDMC08-10	26.101.2N	273	RFB 1/2	12.009.4	203	SGM050V	21.122.2	296
P11M2...		313	PDMC12-16	26.102.2N	273	RFB 1/4	12.007.4	203	SGM063	21.103.2	296
P11M3...		313	PDMC20-25	26.103.2N	273	RFB 1/8	12.006.4	203	SGM063P	21.113.2	296
P11M4...		313	PED 304 M	08.184.4	68	RFB 3/8	12.008.4	203	SGM063PV	21.133.2	296
P12M1...		313	PED 502 B	01.053.4	67	RFB M5	12.049.4	203	SGM063V	21.123.2	296
P12M2...		313	PED 502 M	01.052.4	67	RFP 1/8.2	12.011.4	202	SGM080	21.104.2	296

indice alfanumerico ordinato per sigla

product reference directory - ordered by part number



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
SGM080P	21.114.2	296	T13M5...		279	UB050C050	27.143.2	361		00.050.2	120
SGM080PV	21.134.2	296	T21M2...		279	UB050C100	27.144.2	361		00.051.2	120
SGM080V	21.124.2	296	T21M3...		279	UB050C150	27.145.2	361		00.051.3	90
SGM100	21.105.2	296	T21M4...		279	UB050C200	27.146.2	361		00.052.2	125
SGM100P	21.115.2	296	T21M5...		279	UB050C250	27.147.2	361		00.052.3	92
SGM100PV	21.135.2	296	T22M2...		279	UB050C300	27.148.2	361		00.053.2	125
SGM100V	21.125.2	296	T22M3...		279	UB050C400	27.149.2	361		00.053.3	92
SGM125	21.106.2	296	T22M4...		279	UB050C500	27.150.2	361		00.054.2	125
SGM125P	21.116.2	296	T22M5...		279	UB063C050	27.151.2	361		00.054.3	92
SGM125PV	21.136.2	296	T23M2...		279	UB063C100	27.152.2	361		00.055.2	125
SGM125V	21.126.2	296	T23M3...		279	UB063C150	27.153.2	361		00.055.3	92
SGM160	21.107.2	296	T23M4...		279	UB063C200	27.154.2	361		00.056.2	125
SGM160P	21.117.2	296	T23M5...		279	UB063C250	27.155.2	361		00.056.3	92
SGM160PV	21.137.2	296	TA1	00.073.2	188	UB063C300	27.156.2	361		00.057.2	125
SGM160V	21.127.2	296	TA2	02.002.2	197	UB063C400	27.180.2	361		00.058.2	125
SGM200	21.108.2	296	TB1	00.082.2	189	UB063C500	27.181.2	361		00.059.2	125
SGM200P	21.118.2	296	TB2	02.003.2	197	UB080C050	27.182.2	361		00.060.2	125
SGM200PV	21.138.2	296	TC1	00.077.2	189	UB080C100	27.183.2	361		00.064.2	126
SGM200V	21.128.2	296	TD751	05.023.2	169	UB080C150	27.184.2	361		00.064.3	91
SGT032	26.192.2N	284	TD851	05.031.2	150	UB080C200	27.185.2	361		00.067.2	128
SGT032A	26.430.2	284	TL1	00.083.2	188	UB080C250	27.186.2	361		00.071.3	90
SGT032AV	26.433.2	284	TL2	02.004.2	196	UB080C300	27.187.2	361		00.072.3	92
SGT032V	26.360.2N	284	TP1	00.068.2	188	UB080C400	27.188.2	361		00.073.3	92
SGT040	26.193.2N	284	TPC1	00.084.2	189	UB080C500	27.189.2	361		00.074.3	92
SGT040A	26.431.2	284	TRP 8	03.016.4	218	UB100C050	27.190.2	361		00.074.4	248
SGT040AV	26.434.2	284	TS12T16	26.011.0	356	UB100C100	27.191.2	361		00.075.3	92
SGT040V	26.361.2N	284	TS160T200	26.018.0	356	UB100C150	27.192.2	361		00.076.3	92
SGT050	26.194.2N	284	TS25T32	26.013.0	356	UB100C200	27.193.2	361		00.077.3	92
SGT050A	26.432.2	284	TS50T63	26.015.0	356	UB100C250	27.194.2	361		00.078.2	123
SGT050AV	26.435.2	284	TS751	05.024.2	169	UB100C300	27.195.2	361		00.078.3	92
SGT050V	26.362.2N	284	TS80T100	26.016.0	356	UB100C400	27.196.2	361		00.079.3	92
SH1-P	SH1/P	365	TS851	05.032.2	150	UB100C500	27.197.2	361		00.080.2	126
SH2-P	SH2/P	365	TS8T10	26.010.0	356	VNR 1/4 FF	11.001.4	206		00.080.3	92
SL1	00.267.1	187	TST125	26.017.0	356	VNR 1/4 MF	11.047.4	206		00.085.2	191
SN12D16	26.019.0	357	TST20	26.012.0	356	VNR 1/8 FF	11.000.4	205		00.086.2	191
SN25D32	26.021.0	357	TST40	26.014.0	356	VNR 1/8 MF	11.006.4	205		00.087.2	191
SN50D63	26.023.0	357	UB012C050	27.117.2	360	VNR 1/8 MFR	11.008.4	206		00.088.0	98
SN80D100	26.024.0	357	UB012C100	27.118.2	360	VNR M5 FF	11.010.4	205		00.088.3	90
SND20	26.020.0	357	UB012C160	27.119.2	360		00.004.3	91		00.093.2	101
SND40	26.022.0	357	UB012C200	27.120.2	360		00.008.3	241		00.094.3	94
SNINT032B	26.094.2N	307	UB012C250	27.121.2	360		00.011.3	123		00.095.2	127
SNINT040-050B	26.095.2N	307	UB020C050	27.122.2	360		00.021.3	123		00.095.3	94
SNINT063-080B	26.097.2N	307	UB020C100	27.123.2	360		00.023.3	123		00.096.3	95
SNINT100-125B	26.099.2N	307	UB020C160	27.124.2	360		00.024.3	123		00.097.3	95
SR-M3	16.013.3	440	UB020C200	27.125.2	360		00.028.0	98		00.098.3	96
SR-M4	16.014.3	441	UB020C250	27.126.2	360		00.029.0	98		00.099.3	96
SR-M6	16.046.3	442	UB025C050	27.198.2	360		00.029.2	128		00.100.3	97
STF 2	16.021.0	458	UB025C100	27.199.2	360		00.030.0	98		00.101.3	97
STF 3	16.011.0	458	UB025C160	27.200.2	360		00.031.0	98		00.108.2	120
STF 3A	16.083.0	458	UB025C200	27.201.2	360		00.036.2	120		00.109.2	173
STF 3B	16.030.0	459	UB025C250	27.202.2	360		00.037.2	120		00.130.3	95
STF 4	16.019.0	459	UB032C050	27.127.2	361		00.038.2	120		00.131.3	95
STF 6	16.077.0	459	UB032C100	27.128.2	361		00.039.2	120		00.134.3	97
STF 6N	16.123.0	476	UB032C150	27.129.2	361		00.040.2	120		00.135.3	97
STF 6NA	16.124.0	476	UB032C200	27.130.2	361		00.041.2	120		00.136.3	50
STF 6NB	16.125.0	476	UB032C250	27.131.2	361		00.042.3	128		00.137.3	50
T11M2...		279	UB032C300	27.132.2	361		00.043.3	128		00.138.3	50
T11M3...		279	UB032C400	27.133.2	361		00.044.3	128		00.139.3	50
T11M4...		279	UB032C500	27.134.2	361		00.044.4	124		00.160.4	51
T11M5...		279	UB040C050	27.135.2	361		00.045.3	128		00.163.4	51
T12M2...		279	UB040C100	27.136.2	361		00.045.4	124		00.164.4	51
T12M3...		279	UB040C150	27.137.2	361		00.046.3	128		00.167.0	98
T12M4...		279	UB040C200	27.138.2	361		00.047.2	183		00.177.4	250
T12M5...		279	UB040C250	27.139.2	361		00.047.4	241		00.197.0	98
T13M2...		279	UB040C300	27.140.2	361		00.048.2	183		00.232.1	190
T13M3...		279	UB040C400	27.141.2	361		00.049.2	183		00.233.1	190
T13M4...		279	UB040C500	27.142.2	361		00.049.4	124		00.234.1	190

indice alfanumerico ordinato per sigla

product reference directory - ordered by part number



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
	00.235.1	190		01.033.4	123		05.053.2	167		11.035.4	205
	00.236.1	190		01.034.3	128		05.054.1	153		11.036.4	206
	00.237.1	190		01.035.2	120		05.054.2	167		11.037.4	206
	00.251.0	99		01.035.3	128		05.055.1	153		11.040.4	206
	00.252.0	102		01.036.2	120		05.055.2	167		11.042.4	205
	00.253.0	102		01.036.3	128		05.056.1	153		11.044.4	254
	00.254.0	102		01.038.2	128		05.056.2	167		11.045.4	205
	00.255.0	102		01.042.2	125		05.057.1	153		11.046.4	205
	00.256.0	102		01.043.2	125		05.057.2	167		11.048.4	206
	00.257.0	102		01.044.2	125		05.058.1	153		11.049.4	206
	00.258.0	99		01.044.4	232		05.058.2	167		11.050.4	205
	00.259.0	99		01.045.2	125		05.059.1	153		11.055.4	205
	00.260.0	99		01.045.4	123		05.059.2	167		11.056.4	206
	00.261.0	99		01.046.2	125		05.060.1	153		11.059.4	206
	00.284.0	100		01.046.4	233		05.113.1	153		11.066.4	254
	00.305.0	100		01.047.2	125		05.114.1	153		11.076.4	255
	00.306.0	98		01.047.4	124		06.001.2	187		11.077.4	255
	00.332.0	100		01.048.2	125		08.015.2	31		16.004.2	460
	00.333.0	100		01.048.4	124		08.017.2	31		16.005.2	461
	00.336.0	100		01.049.2	126		08.021.4	208		16.006.2	461
	00.340.0	102		01.050.2	126		08.022.4	208		16.008.2	457
	00.341.0	102		01.055.2	178		08.023.4	208		16.009.2	457
	00.342.0	102		01.061.2	120		08.025.4	208		16.031.0	457
	00.343.0	102		01.065.2	174		08.026.4	208		16.032.0	457
	00.344.0	98		01.066.2	174		08.027.4	208		16.033.0	457
	00.345.0	98		01.066.3	90		08.039.4	209		16.061.0	457
	00.346.0	98		01.068.3	90		08.049.4	209		16.062.0	457
	00.347.0	98		01.078.2	123		08.092.1	209		16.063.0	457
	00.348.0	99		01.087.0	69		08.121.4	211		16.064.0	457
	00.349.0	99		01.088.0	69		08.127.4	210		16.065.0	457
	00.350.0	99		02.030.2	129		08.133.4	210		16.066.0	457
	00.351.0	99		02.031.2	129		08.156.4	252		16.067.0	457
	00.370.0	100		02.032.2	129		08.180.4	212		16.068.0	457
	00.392.0	100		02.033.2	129		08.181.4	212		16.069.0	457
	00.393.0	100		03.025.4	218		08.197.4	68		16.078.0	457
	00.394.0	98		04.002.4	209		08.198.4	68		16.084.0	457
	00.395.0	98		04.003.4	209		08.207.4	68		16.098.0	457
	00.396.0	99		05.001.2	172		10.001.4	243		16.099.0	457
	00.397.0	99		05.002.2	172		10.003.3	226		16.104.0	457
	00.398.0	102		05.003.2	172		10.003.4	245		16.105.0	457
	00.399.0	102		05.004.2	172		10.009.4	244		16.106.0	457
	000.510.7	300		05.005.2	172		10.013.4	256		16.107.0	457
	000.511.7	300		05.006.2	172		10.014.4	256		16.108.0	457
	000.512.7	300		05.007.2	172		10.015.4	257		17.004.0	214
	000.513.7	300		05.008.2	172		10.016.4	257		17.005.0	214
	000.514.7	300		05.009.2	172		10.017.3	238		17.006.0	216
	000.515.7	300		05.010.2	172		10.018.3	230		17.007.0	214
	000.516.7	300		05.012.2	172		10.019.3	239		17.008.0	214
	000.523.7	327		05.013.2	172		10.021.4	246		17.009.0	217
	000.524.7	327		05.014.2	172		10.027.4	237		17.010.0	217
	000.525.7	327		05.015.2	172		10.029.4	236		17.011.0	215
	000.526.7	327		05.016.2	172		10.035.4	229		17.012.0	215
	000.527.7	327		05.017.2	172		11.002.4	205		20.100.4	277
	000.528.7	327		05.018.2	172		11.003.4	206		20.101.4	277
	01.005.3	90		05.019.2	172		11.004.4	205		20.102.4	277
	01.007.3	123		05.020.2	172		11.005.4	206		20.103.4	277
	01.008.3	234		05.035.2	171		11.007.4	205		20.104.4	277
	01.014.2	120		05.036.2	172		11.009.4	205		20.105.4	277
	01.015.2	120		05.037.2	172		11.011.4	205		20.106.4	277
	01.019.2	120		05.039.2	172		11.024.4	205		20.107.4	277
	01.020.2	120		05.048.2	148		11.027.4	205		20.108.4	277
	01.021.2	120		05.049.2	148		11.028.4	206		20.109.4	277
	01.022.2	120		05.050.2	148		11.030.4	206		20.110.4	277
	01.029.2	128		05.051.2	148		11.031.4	205		20.111.4	277
	01.032.3	128		05.052.1	153		11.032.4	206		20.112.4	277
	01.032.4	123		05.052.2	148		11.033.4	206		20.113.4	277
	01.033.3	128		05.053.1	153		11.034.4	205		20.114.4	277

indice alfanumerico ordinato per sigla

product reference directory - ordered by part number



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
	20.115.4	277									
	20.116.4	277									
	20.117.4	277									
	26.039.0	368									
	26.040.0	368									
	26.041.0	368									
	26.042.0	368									
	26.145.0	369									
	26.147.0	368									
	26.164.0	366									
	26.165.0	366									
	26.166.0	366									
	26.167.0	366									
	26.194.0	369									
	26.195.0	369									
	26.196.0	369									
	26.219.2	368									
	26.229.0	368									
	26.230.0	368									
	26.231.0	368									
	26.232.0	368									
	36.625.0	213									
	AT.005.4	261									
	AU.000.1	221									
	AU.001.1	221									
	AU.002.1	220									
	AU.003.1	220									
	AU.004.1	220									
	AU.005.1	220									
	AU.006.1	220									
	AU.008.1	221									
	AU.009.1	221									
	AU.011.1	220									
	AU.013.1	220									
	AU.014.1	220									
	AU.015.1	220									
	AU.016.1	220									
	AU.017.1	221									
	AU.018.1	221									
	AU.019.1	221									
	AU.020.1	221									
	AU.021.1	221									
	AU.022.1	221									
	AU.023.1	221									
	AU.024.1	221									
	AU.025.1	221									
	AU.027.1	221									
	AU.061.1	101									
	AU.062.1	101									
	AU.063.1	101									
	AU.064.1	101									
	AU.065.1	101									
	AU.066.1	101									
	AU.067.1	101									
	AU.068.1	101									
	AU.069.1	101									
	AU.070.1	101									
	AX.007.4	247									

INDEX

indice alfanumerico ordinato per codice

product reference directory - ordered by code



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
	00.004.3	91		00.048.2	183	TC1	00.077.2	189	521 BB90	00.138.4	63
321 CTT	00.004.4	48		00.049.2	183		00.077.3	92		00.139.3	50
321 ME90 S	00.005.3	110	521 EED	00.049.3	107	321 MP	00.077.4	35	321 CL90	00.139.4	45
521 CTT	00.005.4	49		00.049.4	124		00.078.2	123	521 CL90	00.140.4	45
321 EE90 S	00.006.3	112		00.050.2	120		00.078.3	92	321 BB90	00.141.4	63
521 ME90 S	00.007.3	111	321 EED	00.050.3	106	521 MP	00.078.4	35	5213A ML	00.151.4	50
	00.008.3	241	321 LL	00.050.4	52		00.079.3	92		00.160.4	51
521 EE90 S	00.009.3	113		00.051.2	120	321 MPS	00.079.4	37		00.163.4	51
321 MEA	00.010.3	104		00.051.3	90		00.080.2	126		00.164.4	51
321 MCQ	00.010.4	88	521 LL	00.051.4	52		00.080.3	92		00.167.0	98
	00.011.3	123		00.052.2	125	321 MPSA	00.080.4	37	152 CFP	00.173.4	180
521 MCQ	00.011.4	88		00.052.3	92	521 MPS	00.081.4	37		00.177.4	250
521 ME	00.013.3	105	321 ML90	00.052.4	43	TB1	00.082.2	189		00.197.0	98
521 EE	00.014.3	107		00.053.2	125	321 MR	00.082.4	38		00.232.1	190
321 ME	00.015.3	104		00.053.3	92	TL1	00.083.2	188		00.233.1	190
321 MCS	00.015.4	88	321 LL90	00.053.4	44	521 MR	00.083.4	39		00.234.1	190
321 EE	00.016.3	106		00.054.2	125	TPC1	00.084.2	189		00.235.1	190
521 MCS	00.016.4	89		00.054.3	92	321 MRU	00.084.4	39		00.236.1	190
521 2PS	00.019.4	38	521 ML90	00.054.4	43		00.085.2	191		00.237.1	190
	00.021.3	123		00.055.2	125	521 MRU	00.085.4	39		00.251.0	99
321 CFP	00.021.4	77		00.055.3	92		00.086.2	191		00.252.0	102
321 MC	00.022.4	76	521 LL90	00.055.4	44	321 MRS	00.086.4	40		00.253.0	102
	00.023.3	123		00.056.2	125		00.087.2	191		00.254.0	102
321 MCA	00.023.4	76		00.056.3	92	321 MRSA	00.087.4	40		00.255.0	102
	00.024.3	123	5213C ML90	00.056.4	46		00.088.0	98		00.256.0	102
321 CCD	00.024.4	77		00.057.2	125		00.088.3	90		00.257.0	102
321 CC	00.025.4	77	5213C LL90	00.057.4	46	521 MRS	00.088.4	40		00.258.0	99
521 MC	00.027.4	76		00.058.2	125	321 MN	00.089.4	41		00.259.0	99
	00.028.0	98	5213A ML90	00.058.4	46	321 MNA	00.090.4	41		00.260.0	99
521 CC	00.028.4	78		00.059.2	125	521 MN	00.091.4	41		00.261.0	99
	00.029.0	98	321 ME90 L	00.059.3	110		00.093.2	101	SL1	00.267.1	187
	00.029.2	128	5213A LL90	00.059.4	46		00.094.3	94		00.284.0	100
521 CFP	00.029.4	78		00.060.2	125	152 CCD	00.094.4	180		00.305.0	100
	00.030.0	98	321 EE90 L	00.060.3	112		00.095.2	127		00.306.0	98
521 CCD	00.030.4	78	5213P LL90	00.060.4	46		00.095.3	94	DF1	00.307.0	189
	00.031.0	98	521 ME90 L	00.061.3	111	152 MC	00.095.4	180		00.332.0	100
5213C CC	00.031.4	79	321 MBA	00.061.4	61		00.096.3	95		00.333.0	100
321 CE	00.032.3	104	521 EE90 L	00.062.3	113	152 CC	00.096.4	180		00.336.0	100
5213A CC	00.032.4	79	521 EFP	00.063.3	108		00.097.3	95		00.340.0	102
321 ME AS	00.033.3	105		00.064.2	126		00.098.3	96		00.341.0	102
521 ME AS	00.034.3	106		00.064.3	91		00.099.3	96		00.342.0	102
521 CE	00.035.3	105	152 ME AS	00.064.4	181		00.100.3	97		00.343.0	102
	00.036.2	120	321 EFP	00.065.3	107		00.101.3	97		00.344.0	98
5213C EE	00.036.3	109	152 EE AS	00.065.4	182	153C CC	00.101.4	180		00.345.0	98
521 2P	00.036.4	36	321 EE AS	00.066.3	108	153A CC	00.102.4	180		00.346.0	98
	00.037.2	120	153C EE AS	00.066.4	182	153P CC	00.103.4	180		00.347.0	98
5213A EE	00.037.3	109		00.067.2	128		00.108.2	120		00.348.0	99
	00.038.2	120	521 EE AS	00.067.3	108		00.109.2	173		00.349.0	99
5213P EE	00.038.3	109	153A EE AS	00.067.4	182	321 CT	00.110.4	48		00.350.0	99
	00.039.2	120	TP1	00.068.2	188	521 CT	00.111.4	49		00.351.0	99
5213C EE AS	00.039.3	109	321 TT	00.068.4	47	152 ME	00.112.4	181		00.370.0	100
	00.040.2	120	521 TT	00.069.4	48	153P EE AS	00.113.4	182		00.392.0	100
5213A EE AS	00.040.3	109	321 MB90	00.070.4	62	152 EE	00.114.4	182		00.393.0	100
	00.041.2	120	MLD1	00.071.2	187	153C EE	00.116.4	182		00.394.0	98
5213P EE AS	00.041.3	109		00.071.3	90	153A EE	00.117.4	182		00.395.0	98
321 MBA90	00.041.4	62	521 MB90	00.071.4	62	153P EE	00.118.4	182		00.396.0	99
	00.042.3	128		00.072.3	92		00.130.3	95		00.397.0	99
5213P ML90	00.042.4	46	321 MB	00.072.4	61		00.131.3	95		00.398.0	102
	00.043.3	128	TA1	00.073.2	188	321 2P	00.133.4	35		00.399.0	102
5213P CC	00.043.4	79		00.073.3	92		00.134.3	97		000.510.7	300
	00.044.3	128	521 MB	00.073.4	61	321 2PS	00.134.4	38		000.511.7	300
	00.044.4	124		00.074.3	92		00.135.3	97		000.512.7	300
	00.045.3	128		00.074.4	248	321 CP	00.135.4	36		000.513.7	300
	00.045.4	124		00.075.3	92		00.136.3	50		000.514.7	300
	00.046.3	128	321 MT	00.075.4	47	521 CP	00.136.4	36		000.515.7	300
	00.047.2	183		00.076.3	92		00.137.3	50		000.516.7	300
	00.047.4	241	521 MT	00.076.4	47		00.138.3	50		000.523.7	327

INDEX

indice alfanumerico ordinato per codice

product reference directory - ordered by code



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
	000.524.7	327		01.038.2	128	324 MEA	02.002.3	134		05.004.2	172
	000.525.7	327	582 EE	01.038.3	176	324 MCA	02.002.4	130	731 CFP	05.004.4	158
	000.526.7	327	322 EED	01.039.3	116	TB2	02.003.2	197		05.005.2	172
	000.527.7	327	522 EED	01.040.3	117	324 ME AS	02.003.3	134	751 MC	05.005.4	155
	000.528.7	327	382 ME	01.041.3	176	324 CFP	02.003.4	130		05.006.2	172
522 ORM	01.001.4	86	322 CT	01.041.4	58	TL2	02.004.2	196	751 CC	05.006.4	156
522 ANDM	01.002.4	86		01.042.2	125	324 EFP	02.004.3	134		05.007.2	172
382 EE	01.003.3	176	522 CT	01.042.4	59	324 CC	02.004.4	130	751 CCD	05.007.4	157
522 MCS	01.004.4	89		01.043.2	125	324 EE	02.005.3	135		05.008.2	172
	01.005.3	90		01.044.2	125	324 CCD	02.005.4	130	751 CFP	05.008.4	158
522 2OR	01.005.4	87		01.044.4	232	324 EE AS	02.006.3	135		05.009.2	172
522 2AND	01.006.4	87		01.045.2	125	524 MC	02.006.4	131		05.010.2	172
	01.007.3	123	522 EFP	01.045.3	118	324 EED	02.007.3	135	731 ME 00	05.010.4	161
	01.008.3	234		01.045.4	123	524 CFP	02.007.4	131	731 ME 01	05.011.4	161
582 MC	01.008.4	175		01.046.2	125	524 ME	02.008.3	136		05.012.2	172
522 ME	01.009.3	115		01.046.4	233	524 CC	02.008.4	131	731 ME 02	05.012.4	161
322 ORM	01.009.4	84		01.047.2	125	524 ME AS	02.009.3	136		05.013.2	172
522 EE	01.010.3	117		01.047.4	124	524 CCD	02.009.4	131	731 ME 03	05.013.4	161
322 ANDM	01.010.4	84		01.048.2	125	524 EFP	02.010.3	136		05.014.2	172
322 ME	01.011.3	114		01.048.4	124	5243C CC	02.010.4	131	731 ME 04	05.014.4	161
322 2OR	01.011.4	85		01.049.2	126	524 EE	02.011.3	137		05.015.2	172
322 EE	01.012.3	116	322 EFP	01.049.3	117	5243A CC	02.011.4	131	731 MEA 00	05.015.4	161
322 2AND	01.012.4	85	322 LL	01.049.4	60	524 EE AS	02.012.3	137		05.016.2	172
382 MC	01.013.4	175		01.050.2	126	5243P CC	02.012.4	131	731 MEA 01	05.016.4	161
	01.014.2	120	322 EE AS	01.050.3	118	524 EED	02.013.3	137		05.017.2	172
382 CC	01.014.4	175	522 LL	01.050.4	60	5243C EE	02.014.3	137	731 MEA 02	05.017.4	161
	01.015.2	120	522 EE AS	01.052.3	118	5243A EE	02.015.3	137		05.018.2	172
582 CC	01.015.4	175	PED 502 M	01.052.4	67	5243P EE	02.016.3	137	731 MEA 03	05.018.4	161
322 MEA	01.017.3	114	PED 502 B	01.053.4	67	5243C EE AS	02.017.3	137		05.019.2	172
322 ME AS	01.018.3	115	322 ML90	01.054.4	53	5243A EE AS	02.018.3	137	731 MEA 04	05.019.4	161
	01.019.2	120		01.055.2	178	5243P EE AS	02.019.3	137		05.020.2	172
522 ME AS	01.019.3	116	322 LL90	01.055.4	54		02.030.2	129	731 ME AS 00	05.020.4	162
	01.020.2	120	522 ML90	01.056.4	53		02.031.2	129	CS751	05.021.2	170
522 CE	01.020.3	115	522 LL90	01.057.4	54		02.032.2	129	731 ME AS 01	05.021.4	162
	01.021.2	120	5223P LL90	01.058.4	56		02.033.2	129	CS731	05.022.2	170
5223C EE	01.021.3	119	5223C LL90	01.059.4	56	252 MC	02.050.4	193	731 ME AS 02	05.022.4	162
322 CFP	01.021.4	82	5223A LL90	01.060.4	56	252 CC	02.051.4	193	TD751	05.023.2	169
	01.022.2	120		01.061.2	120	252 CCD	02.052.4	193	731 ME AS 03	05.023.4	162
5223A EE	01.022.3	119	5223C ML90	01.061.4	56	252 CFP	02.053.4	193	TS751	05.024.2	169
322 MC	01.022.4	80	5223A ML90	01.062.4	56	253C CC	02.054.4	193	731 ME AS 04	05.024.4	162
5223P EE	01.023.3	119	5223P ML90	01.063.4	56	253A CC	02.055.4	193	BM751	05.025.2	168
322 MCA	01.023.4	80		01.065.2	174	253P CC	02.056.4	193	731 EE 00	05.025.4	164
5223C EE AS	01.024.3	119	522 CL90	01.065.4	55	252 ME	02.070.3	194	DC751	05.026.2	168
322 CCD	01.024.4	82		01.066.2	174	252 EE	02.071.3	195	731 EE 01	05.026.4	164
5223A EE AS	01.025.3	119		01.066.3	90	252 EFP	02.072.3	194	DR751	05.027.2	168
322 CC	01.025.4	81	322 MT	01.066.4	57	252 ME AS	02.073.3	194	731 EE 02	05.027.4	164
5223P EE AS	01.026.3	119	322 TT	01.067.4	57	252 EE AS	02.074.3	195	DD751	05.028.2	170
522 MC	01.027.4	81		01.068.3	90	253C EE	02.075.3	195	731 EE 03	05.028.4	164
522 CC	01.028.4	83	522 MT	01.068.4	57	253A EE	02.076.3	195	BS851	05.029.1	149
	01.029.2	128	522 TT	01.069.4	58	253P EE	02.077.3	195	CS851	05.029.2	152
322 CE	01.029.3	114	522 CC SUP	01.070.4	84	253C EE AS	02.078.3	195	731 EE 04	05.029.4	164
522 CFP	01.029.4	83	PED 502 S	01.072.4	67	253A EE AS	02.079.4	195	BM851	05.030.2	149
522 CCD	01.030.4	83	5223P CC	01.073.4	79	253P EE AS	02.080.4	195	731 EE AS 00	05.030.4	165
	01.032.3	128	522 MC SUP	01.074.4	81	DP 2018 F	03.003.4	259	TD851	05.031.2	150
	01.032.4	123		01.078.2	123	DP 2005	03.009.4	260	731 EE AS 01	05.031.4	165
	01.033.3	128	322 CTT	01.078.4	58	305 LL	03.011.4	31	TS851	05.032.2	150
	01.033.4	123	522 CTT	01.079.4	59	TRP 8	03.016.4	218	731 EE AS 02	05.032.4	165
	01.034.3	128	PEDS 502 M	01.080.4	67	DP 2010 E	03.020.4	258	DC851	05.033.2	151
5223C CC	01.034.4	79	PEDS 502 B	01.081.4	67		03.025.4	218	731 EE AS 03	05.033.4	165
	01.035.2	120	322 CL90	01.082.4	55		04.002.4	209	DR851	05.034.2	151
	01.035.3	128	322 MCS	01.083.4	89		04.003.4	209	731 EE AS 04	05.034.4	165
5223A CC	01.035.4	79		01.087.0	69		05.001.2	172		05.035.2	171
	01.036.2	120		01.088.0	69	731 MC	05.001.4	155	731 EFP 00	05.035.4	163
	01.036.3	128	MLD2	02.001.2	196		05.002.2	172		05.036.2	172
322 CC SUP	01.036.4	82	324 ME	02.001.3	134	731 CC	05.002.4	156	731 EFP 01	05.036.4	163
582 ME	01.037.3	176	324 MC	02.001.4	130		05.003.2	172		05.037.2	172
322 MC SUP	01.037.4	80	TA2	02.002.2	197	731 CCD	05.003.4	157	731 EFP 02	05.037.4	163

indice alfanumerico ordinato per codice

product reference directory - ordered by code



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
731 EFP 03	05.038.4	163	851 EE 04	05.084.4	146	451 MG	05.148.4	74	204 MV	08.125.4	19
	05.039.2	172	7513C EE AS 00	05.085.4	166	451 MGN	05.149.4	74		08.127.4	210
731 EFP 04	05.039.4	163	7513C EE AS 01	05.086.4	166	8513C CC	05.150.4	142	204 MB UL	08.130.4	20
751 ME 00	05.040.4	161	7513C EE AS 02	05.087.4	166	8513A CC	05.151.4	142		08.133.4	210
751 ME 01	05.041.4	161	7513C EE AS 03	05.088.4	166	7513C CC	05.152.4	159	205 MA	08.141.4	22
751 ME 02	05.042.4	161	7513C EE AS 04	05.089.4	166	7513A CC	05.153.4	159	2.305 MB	08.146.4	29
751 ME 03	05.043.4	161	7513A EE AS 00	05.090.4	166		06.001.2	187	204 MV UL	08.149.4	21
751 ME 04	05.044.4	161	7513A EE AS 01	05.091.4	166	152 EFP	06.001.4	181	315 MA UL	08.151.4	24
751 ME AS 00	05.045.4	162	7513A EE AS 02	05.092.4	166		08.015.2	31	315 MS UL	08.152.4	26
751 ME AS 01	05.046.4	162	7513A EE AS 03	05.093.4	166		08.017.2	31	315 MV	08.153.4	24
751 ME AS 02	05.047.4	162	7513A EE AS 04	05.094.4	166		08.021.4	208		08.156.4	252
	05.048.2	148	751 EFP 00	05.095.4	163		08.022.4	208	205 MB	08.157.4	22
751 ME AS 03	05.048.4	162	751 EFP 01	05.096.4	163		08.023.4	208	314 MV UL	08.158.4	21
	05.049.2	148	751 EFP 02	05.097.4	163		08.025.4	208	204 MS UL	08.160.4	21
751 ME AS 04	05.049.4	162	751 EFP 03	05.098.4	163		08.026.4	208	205 MA UL	08.169.4	24
	05.050.2	148	751 EFP 04	05.099.4	163		08.027.4	208	204 MA UL	08.172.4	19
751 EE 00	05.050.4	164	851 ME AS 00	05.100.4	144	304 MA	08.030.4	17	205 MR	08.173.4	23
	05.051.2	148	851 ME AS 01	05.101.4	144	304 MB	08.031.4	17	315 MB UL	08.175.4	25
751 EE 01	05.051.4	164	DF851	05.102.2	152	304 MR	08.032.4	18		08.180.4	212
	05.052.1	153	851 ME AS 02	05.102.4	144	304 MS	08.033.4	18		08.181.4	212
	05.052.2	148	851 ME AS 03	05.103.4	144	304 MV	08.034.4	19	PED 304 M	08.184.4	68
751 EE 02	05.052.4	164	851 ME AS 04	05.104.4	144	314 MA	08.035.4	17	205 MS	08.185.4	23
	05.053.1	153	851 EE AS 00	05.105.4	146	314 MB	08.036.4	17	205 MV	08.186.4	24
	05.053.2	167	851 EE AS 01	05.106.4	146	314 MR	08.037.4	18	205 MB UL	08.187.4	25
751 EE 03	05.053.4	164	851 EE AS 02	05.107.4	146	314 MS	08.038.4	18	315 MR UL	08.188.4	25
	05.054.1	153	851 EE AS 03	05.108.4	146		08.039.4	209	205 MS UL	08.189.4	26
	05.054.2	167	851 EE AS 04	05.109.4	146	305 MA	08.040.4	22	315 MV UL	08.190.4	26
751 EE 04	05.054.4	164	8513C EE 00	05.110.4	147	305 MB	08.041.4	22	205 MV UL	08.191.4	26
	05.055.1	153	8513C EE 01	05.111.4	147	305 MR	08.042.4	23	2.315 MB	08.192.4	29
	05.055.2	167	8513C EE 02	05.112.4	147	305 MS	08.043.4	23	505 MB UL	08.193.4	30
751 EE AS 00	05.055.4	165		05.113.1	153	305 MV	08.044.4	24	2.305 MB UL	08.194.4	30
	05.056.1	153	8513C EE 03	05.113.4	147	315 MA	08.045.4	22	2.315 MB UL	08.195.4	30
	05.056.2	167		05.114.1	153	315 MB	08.046.4	22	204 MR UL	08.196.4	20
751 EE AS 01	05.056.4	165	8513C EE 04	05.114.4	147	315 MR	08.047.4	23		08.197.4	68
	05.057.1	153	8513A EE 00	05.115.4	147	315 MS	08.048.4	23		08.198.4	68
	05.057.2	167	8513A EE 01	05.116.4	147		08.049.4	209		08.207.4	68
751 EE AS 02	05.057.4	165	8513A EE 02	05.117.4	147	304 MA UL	08.050.4	19	304 MGR	08.212.4	27
	05.058.1	153	8513A EE 03	05.118.4	147	304 MB UL	08.051.4	20	304 MGG	08.213.4	27
	05.058.2	167	8513A EE 04	05.119.4	147	304 MR UL	08.052.4	20	304 MG	08.214.4	27
751 EE AS 03	05.058.4	165	851 EFP 00	05.120.4	145	304 MS UL	08.053.4	21	304 MGN	08.215.4	27
	05.059.1	153	851 EFP 01	05.121.4	145	304 MV UL	08.054.4	21	304 MGR UL	08.216.4	27
	05.059.2	167	851 EFP 02	05.122.4	145	305 MA UL	08.055.4	24	304 MGG UL	08.217.4	27
751 EE AS 04	05.059.4	165	851 EFP 03	05.123.4	145	305 MB UL	08.056.4	25	304 MG	08.218.4	27
	05.060.1	153	851 EFP 04	05.124.4	145	305 MR UL	08.057.4	25	304 MGN UL	08.219.4	27
7513C EE 00	05.060.4	166	8513C EE AS 00	05.125.4	147	305 MS UL	08.058.4	26	305 MGR	08.220.4	28
7513C EE 01	05.061.4	166	8513C EE AS 01	05.126.4	147	305 MV UL	08.059.4	26	305 MGG	08.221.4	28
7513C EE 02	05.062.4	166	8513C EE AS 02	05.127.4	147	314 MA UL	08.060.4	19	305 MG	08.222.4	28
7513C EE 03	05.063.4	166	8513C EE AS 03	05.128.4	147	314 MB UL	08.061.4	20	305 MGN	08.223.4	28
7513C EE 04	05.064.4	166	8513C EE AS 04	05.129.4	147	314 MR UL	08.062.4	20	305 MGR UL	08.224.4	28
7513A EE 00	05.065.4	166	8513A EE AS 00	05.130.4	147	314 MS UL	08.063.4	21	305 MGG UL	08.225.4	28
7513A EE 01	05.066.4	166	8513A EE AS 01	05.131.4	147	504 MB	08.064.4	29	305 MG	08.226.4	28
7513A EE 02	05.067.4	166	8513A EE AS 02	05.132.4	147	504 MB UL	08.065.4	30	305 MGN UL	08.227.4	28
7513A EE 03	05.068.4	166	8513A EE AS 03	05.133.4	147	2.304 MB UL	08.067.4	30	204 MGR	08.228.4	27
7513A EE 04	05.069.4	166	8513A EE AS 04	05.134.4	147	2.314 MB UL	08.068.4	30	204 MGG	08.229.4	27
731 MCA	05.071.4	155	851 CFP	05.135.4	141	2.304 MB	08.085.4	29	204 MG	08.230.4	27
851 ME 00	05.072.4	144	431 MP	05.136.4	71	2.304 MB CU	08.086.4	31	204 MGN	08.231.4	27
851 ME 01	05.073.4	144	451 MP	05.137.4	71	504 MB CU	08.087.4	31	204 MGR UL	08.232.4	27
851 ME 02	05.074.4	144	431 MR	05.138.4	72	2.314 MB	08.089.4	29	204 MGG UL	08.233.4	27
851 ME 03	05.075.4	144	451 MR	05.139.4	72		08.092.1	209	204 MG	08.234.4	27
851 ME 04	05.076.4	144	431 MRL	05.140.4	73	505 MB	08.094.4	29	204 MGN UL	08.235.4	27
851 MC	05.077.4	140	451 MRL	05.141.4	73	204 MA	08.104.4	17	205 MGR	08.236.4	28
851 CC	05.078.4	140	431 MGR	05.142.4	74	204 MB	08.105.4	17	205 MGG	08.237.4	28
851 CCD	05.079.4	141	431 MGG	05.143.4	74	204 MR	08.111.4	18	205 MG	08.238.4	28
851 EE 00	05.080.4	146	431 MG	05.144.4	74	314 MV	08.116.4	19	205 MGN	08.239.4	28
851 EE 01	05.081.4	146	431 MGN	05.145.4	74	204 MS	08.117.4	18	205 MGR UL	08.240.4	28
851 EE 02	05.082.4	146	451 MGR	05.146.4	74	205 MR UL	08.119.4	25	205 MGG UL	08.241.4	28
851 EE 03	05.083.4	146	451 MGG	05.147.4	74		08.121.4	211	205 MG	08.242.4	28

indice alfanumerico ordinato per codice

product reference directory - ordered by code



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
205 MGN UL	08.243.4	28	VNR 1/4 MF	11.047.4	206	SCR 4-E	16.019.3	436	FIL 6N-30-A	16.116.0	464
314 MGR	08.244.4	27		11.048.4	206	PR 4-00	16.020.0	454	FIL 6N-05-S	16.117.0	464
314 MGG	08.245.4	27		11.049.4	206	FR 2-08-05-S	16.020.3	408	REG 6N-10	16.118.0	466
314 MGVL	08.246.4	27		11.050.4	205	STF 2	16.021.0	458	LUB 6N-00	16.119.0	468
314 MGN	08.247.4	27		11.055.4	205	FR 3-08-05-S	16.021.3	410	FR 6N-10-30-S	16.120.0	470
314 MGR UL	08.248.4	27		11.056.4	206	FR 4-08-05-S	16.022.3	412	FR 6N-10-05-S	16.121.0	470
314 MGG UL	08.249.4	27		11.059.4	206	FIL 4-30-A	16.023.3	380	KIT 6N-00	16.122.0	455
314 MGVL UL	08.250.4	27		11.066.4	254	MFIL 2-S	16.024.3	384	STF 6N	16.123.0	476
314 MGN UL	08.251.4	27		11.076.4	255	FR+L 6-10-30-S	16.024.4	422	STF 6NA	16.124.0	476
315 MGR	08.252.4	28		11.077.4	255	MFIL 3-S	16.025.3	384	STF 6NB	16.125.0	476
315 MGG	08.253.4	28	RFU 1/8.2	12.000.4	201	FRL 6-10-30-S	16.025.4	430	M40-00	17.001.0	462
315 MGVL	08.254.4	28	RFU 1/8.3	12.000.4-1/4	201	MFIL 4-S	16.026.3	384	M50-00	17.002.0	462
315 MGN	08.255.4	28	RFU 1/4	12.001.4	201	AKS 4-6	16.029.0	456	M63-00	17.003.0	462
315 MGR UL	08.256.4	28	RFU 3/8	12.002.4	201	SCR 3-P	16.029.4	434		17.004.0	214
315 MGG UL	08.257.4	28	RFU 1/2	12.003.4	201	STF 3B	16.030.0	459		17.005.0	214
315 MGVL UL	08.258.4	28	RFUM 1/8	12.004.4	202	AVP 3-00	16.030.4	435		17.006.0	216
315 MGN UL	08.259.4	28	RFUM 1/4	12.005.4	202		16.031.0	457		17.007.0	214
	10.001.4	243	RFB 1/8	12.006.4	203		16.032.0	457		17.008.0	214
	10.003.3	226	RFB 1/4	12.007.4	203	REG 2-08-SR	16.032.3	392		17.009.0	217
	10.003.4	245	RFB 3/8	12.008.4	203		16.033.0	457		17.010.0	217
AVP 2-00	10.004.3	432	RFB 1/2	12.009.4	203	SCR 3-E	16.035.3	434		17.011.0	215
	10.009.4	244	RFU 1/8.1	12.010.4	201	FIL 3-30-A	16.036.3	378		17.012.0	215
	10.013.4	256	RFP 1/8.2	12.011.4	202	FIL 6-30-A	16.037.3	382	AZ-CRS1	18.001.0	224
	10.014.4	256	RFU M5	12.047.4	201	FIL 6-05-S	16.038.3	382	AZ-CRS2	18.002.0	224
	10.015.4	257	RFB M5	12.049.4	203	FR 6-10-05-S	16.039.3	414	AZ-CRS3	18.003.0	224
	10.016.4	257	REG 2-08	16.001.3	390	FIL 6-30-S	16.040.3	382	AZ-CRS4	18.004.0	224
	10.017.3	238	FR+L 2-08-25-S	16.001.4	416	PAI 3-00	16.041.0	452		20.100.4	277
	10.018.3	230	KIT 2-00	16.002.2	455	PAI 4-00	16.042.0	453		20.101.4	277
	10.019.3	239	FIL 2-25-S	16.002.3	376	REG 6-10	16.043.3	398		20.102.4	277
	10.021.4	246	FRL 2-08-25-S	16.002.4	424	LUB 6-00	16.044.3	406		20.103.4	277
	10.027.4	237	KIT 3-00	16.003.2	455	FR 6-10-30-S	16.045.3	414		20.104.4	277
	10.029.4	236	LUB 2-00	16.003.3	400	SR-M6	16.046.3	442		20.105.4	277
	10.035.4	229	FR+L 3-08-30-S	16.003.4	418	RPE 3 V NC	16.050.3	444		20.106.4	277
VNR 1/8 FF	11.000.4	205		16.004.2	460	RPE 3 V NA	16.051.3	444		20.107.4	277
VNR 1/4 FF	11.001.4	206	FR 2-08-25-S	16.004.3	408	RPE 3 A NC	16.052.3	444		20.108.4	277
	11.002.4	205	FRL 3-08-30-S	16.004.4	426	RPE 4 V NC	16.053.3	447		20.109.4	277
	11.003.4	206		16.005.2	461	RPE 4 V NA	16.054.3	447		20.110.4	277
	11.004.4	205	REG 3-08	16.005.3	394	RPE 4 A NC	16.055.3	447		20.111.4	277
	11.005.4	206		16.006.2	461	CFIL 2-S	16.056.3	386		20.112.4	277
VNR 1/8 MF	11.006.4	205	FIL 3-30-S	16.006.3	378	CFIL 3-S	16.057.3	386		20.113.4	277
	11.007.4	205	AKS 3	16.007.2	456	CFIL 4-S	16.059.3	386		20.114.4	277
VNR 1/8 MFR	11.008.4	206	LUB 3-00	16.007.3	402	FR+L 6N-10-30-S	16.060.4	472		20.115.4	277
	11.009.4	205	FR+L 4-08-30-S	16.007.4	420		16.061.0	457		20.116.4	277
VNR M5 FF	11.010.4	205		16.008.2	457	FRL 6N-10-30-S	16.061.4	474		20.117.4	277
	11.011.4	205	FR 3-08-30-S	16.008.3	410		16.062.0	457	KSM032	21.001.3	297
RSW 1/8	11.012.4	219	FRL 4-08-30-S	16.008.4	428		16.063.0	457	KSM040	21.002.3	297
RSW 1/4	11.013.4	219		16.009.2	457		16.064.0	457	KSM050	21.003.3	297
RSW 1/2	11.014.4	219	REG 4-08	16.009.3	396		16.065.0	457	KSM063	21.004.3	297
RSTC 1/8	11.017.4	219	PAI 2-00	16.010.2	452		16.066.0	457	KSM080	21.005.3	297
RSTC 1/4	11.018.4	219	FIL 4-30-S	16.010.3	380		16.067.0	457	KSM100	21.006.3	297
	11.024.4	205	STF 3	16.011.0	458		16.068.0	457	KSM125	21.007.3	297
	11.027.4	205	LUB 4-00	16.011.3	404		16.069.0	457	KSM160	21.008.3	297
	11.028.4	206	MREG 2-08	16.011.4	388	KIT 6-00	16.075.0	455	KSM200	21.009.3	297
	11.030.4	206	PR 3-00	16.012.0	454	PAI 6-00	16.076.0	453	KSM032P	21.011.3	297
	11.031.4	205	FR 4-08-30-S	16.012.3	412	STF 6	16.077.0	459	KSM040P	21.012.3	297
	11.032.4	206	AVP 4-00	16.012.4	438		16.078.0	457	KSM050P	21.013.3	297
	11.033.4	206	SR-M3	16.013.3	440	STF 3A	16.083.0	458	KSM063P	21.014.3	297
	11.034.4	205	SCR 4-P	16.013.4	436		16.084.0	457	KSM080P	21.015.3	297
	11.035.4	205	SR-M4	16.014.3	441		16.098.0	457	KSM100P	21.016.3	297
	11.036.4	206	REG 2-04	16.015.3	390		16.099.0	457	KSM125P	21.017.3	297
	11.037.4	206	FIL 2-05-S	16.016.3	376	PR 2-00	16.100.0	454	KSM160P	21.018.3	297
RSW 3/8	11.039.4	219	MREG 2-04	16.016.4	388		16.104.0	457	KSM200P	21.019.3	297
	11.040.4	206	FIL 3-05-S	16.017.3	378		16.105.0	457	KSM032V	21.021.3	297
	11.042.4	205	KIT 4-00	16.018.0	455		16.106.0	457	KSM040V	21.022.3	297
	11.044.4	254	FIL 4-05-S	16.018.3	380		16.107.0	457	KSM050V	21.023.3	297
	11.045.4	205	MREG 1-08	16.018.4	388		16.108.0	457	KSM063V	21.024.3	297
	11.046.4	205	STF 4	16.019.0	459	FIL 6N-30-S	16.115.0	464	KSM080V	21.025.3	297

indice alfanumerico ordinato per codice

product reference directory - ordered by code



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
KSM100V	21.026.3	297	GD032P	22.113.2	342	GP080P	25.117.2	317	CMIS100	26.024.2N	302
KSM125V	21.027.3	297	GD040P	22.114.2	342	KR063P	25.117.3	326	CMIS125	26.025.2N	302
KSM160V	21.028.3	297	GD050P	22.115.2	342	GP100P	25.118.2	317	CMIS160	26.026.2N	302
KSM200V	21.029.3	297	GD063P	22.116.2	342	KR080P	25.118.3	326	CMIS200	26.027.2N	302
KSM032PV	21.031.3	297	GD080P	22.117.2	342	KR100P	25.119.3	326	CMKS032	26.028.2N	302
KSM040PV	21.032.3	297	GD100P	22.118.2	342	GP032V	25.123.2	317	CMKS040	26.029.2N	302
KSM050PV	21.033.3	297	GD016V	22.120.2	342	GP040V	25.124.2	317	CMKS050	26.030.2N	302
KSM063PV	21.034.3	297	GD020V	22.121.2	342	KR032V	25.124.3	326	CMKS063	26.031.2N	302
KSM080PV	21.035.3	297	GD025V	22.122.2	342	GP050V	25.125.2	317	CMKS080	26.032.2N	302
KSM100PV	21.036.3	297	GD032V	22.123.2	342	KR040V	25.125.3	326	CMKS100	26.033.2N	302
KSM125PV	21.037.3	297	GD040V	22.124.2	342	GP063V	25.126.2	317	CMKS125	26.034.2N	302
KSM160PV	21.038.3	297	GD050V	22.125.2	342	KR050V	25.126.3	326	CMKS160	26.035.2N	302
KSM200PV	21.039.3	297	GD063V	22.126.2	342	GP080V	25.127.2	317	CMKS200	26.036.2N	302
SGM032	21.100.2	296	GD080V	22.127.2	342	KR063V	25.127.3	326	PBIS032	26.037.2N	305
SGM040	21.101.2	296	GD100V	22.128.2	342	GP100V	25.128.2	317	PBIS040	26.038.2N	305
SGM050	21.102.2	296	GD016PV	22.130.2	342	KR080V	25.128.3	326		26.039.0	368
SGM063	21.103.2	296	GD020PV	22.131.2	342	KR100V	25.129.3	326	PBIS050	26.039.2N	305
SGM080	21.104.2	296	GD025PV	22.132.2	342	GP032PV	25.133.2	317		26.040.0	368
SGM100	21.105.2	296	GD032PV	22.133.2	342	GP040PV	25.134.2	317	PBIS063	26.040.2N	305
SGM125	21.106.2	296	GD040PV	22.134.2	342	KR032PV	25.134.3	326		26.041.0	368
SGM160	21.107.2	296	GD050PV	22.135.2	342	GP050PV	25.135.2	317	PBIS080	26.041.2N	305
SGM200	21.108.2	296	GD063PV	22.136.2	342	KR040PV	25.135.3	326		26.042.0	368
SGM032P	21.110.2	296	GD080PV	22.137.2	342	GP063PV	25.136.2	317	PBIS100	26.042.2N	305
SGM040P	21.111.2	296	GD100PV	22.138.2	342	KR050PV	25.136.3	326	PBIS125	26.043.2N	305
SGM050P	21.112.2	296	KP032	25.004.3	326	GP080PV	25.137.2	317	PBIS160	26.044.2N	305
SGM063P	21.113.2	296	KP040	25.005.3	326	KR063PV	25.137.3	326	PBIS200	26.045.2N	305
SGM080P	21.114.2	296	KP050	25.006.3	326	GP100PV	25.138.2	317	COIS032	26.052.2N	309
SGM100P	21.115.2	296	KP063	25.007.3	326	KR080PV	25.138.3	326	COIS040	26.053.2N	309
SGM125P	21.116.2	296	KP080	25.008.3	326	KR100PV	25.139.3	326	COIS050	26.054.2N	309
SGM160P	21.117.2	296	KP100	25.009.3	326	CFIS032	26.001.2N	303	COIS063	26.055.2N	309
SGM200P	21.118.2	296	KP032P	25.014.3	326	CFIS040	26.002.2N	303	COIS080	26.056.2N	309
SGM032V	21.120.2	296	KP040P	25.015.3	326	CFIS050	26.003.2N	303	COIS100	26.057.2N	309
SGM040V	21.121.2	296	KP050P	25.016.3	326	CFIS063	26.004.2N	303	FLIS032	26.070.2N	304
SGM050V	21.122.2	296	KP063P	25.017.3	326	CFIS080	26.005.2N	303	FLIS040	26.071.2N	304
SGM063V	21.123.2	296	KP080P	25.018.3	326	CFIS100	26.006.2N	303	FLIS050	26.072.2N	304
SGM080V	21.124.2	296	KP100P	25.019.3	326	CFIS125	26.007.2N	303	FLIS063	26.073.2N	304
SGM100V	21.125.2	296	KP032V	25.024.3	326	CFIS160	26.008.2N	303	FLIS080	26.074.2N	304
SGM125V	21.126.2	296	KP040V	25.025.3	326	CFIS200	26.009.2N	303	FLIS100	26.075.2N	304
SGM160V	21.127.2	296	KP050V	25.026.3	326	TS8T10	26.010.0	356	FLIS125	26.076.2N	304
SGM200V	21.128.2	296	KP063V	25.027.3	326	CFKS032	26.010.2N	303	FLIS160	26.077.2N	304
SGM032PV	21.130.2	296	KP080V	25.028.3	326	TS12T16	26.011.0	356	FLIS200	26.078.2N	304
SGM040PV	21.131.2	296	KP100V	25.029.3	326	CFKS040	26.011.2N	303	CMSS032	26.079.2N	301
SGM050PV	21.132.2	296	KP032PV	25.034.3	326	TST20	26.012.0	356	CMSS040	26.080.2N	301
SGM063PV	21.133.2	296	KP040PV	25.035.3	326	CFKS050	26.012.2N	303	CMSS050	26.081.2N	301
SGM080PV	21.134.2	296	KP050PV	25.036.3	326	TS25T32	26.013.0	356	CMSS063	26.082.2N	301
SGM100PV	21.135.2	296	KP063PV	25.037.3	326	CFKS063	26.013.2N	303	CMSS080	26.083.2N	301
SGM125PV	21.136.2	296	KP080PV	25.038.3	326	TST40	26.014.0	356	CMSS100	26.084.2N	301
SGM160PV	21.137.2	296	KP100PV	25.039.3	326	CFKS080	26.014.2N	303	CMSS125	26.085.2N	301
SGM200PV	21.138.2	296	GP032	25.103.2	317	TS50T63	26.015.0	356	CMSS160	26.086.2N	301
DSIS032	21.750.0	355	GP040	25.104.2	317	CFKS100	26.015.2N	303	CMSS200	26.087.2N	301
DSIS040	21.751.0	355	KR032	25.104.3	326	TS80T100	26.016.0	356	CIN032	26.088.2N	306
DSIS05063	21.752.0	355	GP050	25.105.2	317	CFKS125	26.016.2N	303	CIN040	26.089.2N	306
DSIS080100	21.753.0	355	KR040	25.105.3	326	TST125	26.017.0	356	CIN050	26.090.2N	306
DSIS125	21.754.0	355	GP063	25.106.2	317	CFKS160	26.017.2N	303	CIN063	26.091.2N	306
DSIS160200	21.755.0	355	KR050	25.106.3	326	TS160T200	26.018.0	356	CIN080	26.092.2N	306
GD016	22.100.2	342	GP080	25.107.2	317	CFKS200	26.018.2N	303	CIN100	26.093.2N	306
GD020	22.101.2	342	KR063	25.107.3	326	SN12D16	26.019.0	357	SNINT032B	26.094.2N	307
GD025	22.102.2	342	GP100	25.108.2	317	CMIS032	26.019.2N	302	SNINT040-050B	26.095.2N	307
GD032	22.103.2	342	KR080	25.108.3	326	SND20	26.020.0	357	SNINT063-080B	26.097.2N	307
GD040	22.104.2	342	KR100	25.109.3	326	CMIS040	26.020.2N	302	SNINT100-125B	26.099.2N	307
GD050	22.105.2	342	GP032P	25.113.2	317	SN25D32	26.021.0	357	CIN125	26.100.2N	306
GD063	22.106.2	342	GP040P	25.114.2	317	CMIS050	26.021.2N	302	PDMC08-10	26.101.2N	273
GD080	22.107.2	342	KR032P	25.114.3	326	SND40	26.022.0	357	PDMC12-16	26.102.2N	273
GD100	22.108.2	342	GP050P	25.115.2	317	CMIS063	26.022.2N	302	PDMC20-25	26.103.2N	273
GD016P	22.110.2	342	KR040P	25.115.3	326	SN50D63	26.023.0	357	FLMC08-10	26.104.2N	274
GD020P	22.111.2	342	GP063P	25.116.2	317	CMIS080	26.023.2N	302	FLMC12-16	26.105.2N	274
GD025P	22.112.2	342	KR050P	25.116.3	326	SN80D100	26.024.0	357	FLMC20-25	26.106.2N	274

indice alfanumerico ordinato per codice

product reference directory - ordered by code



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
CXMC08-10	26.107.2N	275	CFKN040	26.511.2	330	HS100C050	27.051.0	363	UB012C250	27.121.2	360
CXMC12-16	26.108.2N	275	CFKN050	26.512.2	330	HS100C100	27.052.0	363	UB020C050	27.122.2	360
CXMC20-25	26.109.2N	275	CFKN063	26.513.2	330	HS100C150	27.053.0	363	UB020C100	27.123.2	360
FPT032	26.110.2	286	CFKN080	26.514.2	330	HS100C200	27.054.0	363	UB020C160	27.124.2	360
FPT040	26.111.2	286	CFKN100	26.515.2	330	HS100C250	27.055.0	363	UB020C200	27.125.2	360
FPT050	26.112.2	286	PBUN032	26.537.2	332	HS100C300	27.056.0	363	UB020C250	27.126.2	360
GPT032	26.113.2	285	PBUN040	26.538.2	332	HS100C400	27.057.0	363	UB032C050	27.127.2	361
GPT040	26.114.2	285	PBUN050	26.539.2	332	HS100C500	27.058.0	363	UB032C100	27.128.2	361
GPT050	26.115.2	285	PBUN063	26.540.2	332	HB012C050	27.059.2	362	UB032C150	27.129.2	361
CCR032	26.116.2	285	PBUN080	26.541.2	332	HB012C100	27.060.2	362	UB032C200	27.130.2	361
CCR040	26.117.2	285	PBUN100	26.542.2	332	HB012C160	27.061.2	362	UB032C250	27.131.2	361
CCR050	26.118.2	285	FLUN032	26.570.2	331	HB012C200	27.062.2	362	UB032C300	27.132.2	361
FR8C10	26.119.2	354	FLUN040	26.571.2	331	HB012C250	27.063.2	362	UB032C400	27.133.2	361
FR12C16	26.120.2	354	FLUN050	26.572.2	331	HB020C050	27.064.2	362	UB032C500	27.134.2	361
FRC20	26.121.2	354	FLUN063	26.573.2	331	HB020C100	27.065.2	362	UB040C050	27.135.2	361
FR25C32	26.122.2	354	FLUN080	26.574.2	331	HB020C160	27.066.2	362	UB040C100	27.136.2	361
FRC40	26.123.2	354	FLUN100	26.575.2	331	HB020C200	27.067.2	362	UB040C150	27.137.2	361
FR50C63	26.124.2	354	HS012C050	27.001.0	362	HB020C250	27.068.2	362	UB040C200	27.138.2	361
FR80C100	26.125.2	354	HS012C100	27.002.0	362	HB032C050	27.069.2	363	UB040C250	27.139.2	361
FRC125	26.126.2	354	HS012C160	27.003.0	362	HB032C100	27.070.2	363	UB040C300	27.140.2	361
FR160C200	26.127.2	354	HS012C200	27.004.0	362	HB032C150	27.071.2	363	UB040C400	27.141.2	361
GPM010	26.140.2	272	HS012C250	27.005.0	362	HB032C200	27.072.2	363	UB040C500	27.142.2	361
GPM12-16	26.141.2	272	HS020C050	27.006.0	362	HB032C250	27.073.2	363	UB050C050	27.143.2	361
GPM20-25	26.142.2	272	HS020C100	27.007.0	362	HB032C300	27.074.2	363	UB050C100	27.144.2	361
	26.145.0	369	HS020C160	27.008.0	362	HB032C400	27.075.2	363	UB050C150	27.145.2	361
	26.147.0	368	HS020C200	27.009.0	362	HB032C500	27.076.2	363	UB050C200	27.146.2	361
DCCB 16/32 (M5)	26.156.0T	343	HS020C250	27.010.0	362	HB040C050	27.077.2	363	UB050C250	27.147.2	361
DCCB 32/100 (M6)	26.157.0T	343	HS032C050	27.011.0	363	HB040C100	27.078.2	363	UB050C300	27.148.2	361
	26.164.0	366	HS032C100	27.012.0	363	HB040C150	27.079.2	363	UB050C400	27.149.2	361
	26.165.0	366	HS032C150	27.013.0	363	HB040C200	27.080.2	363	UB050C500	27.150.2	361
	26.166.0	366	HS032C200	27.014.0	363	HB040C250	27.081.2	363	UB063C050	27.151.2	361
	26.167.0	366	HS032C250	27.015.0	363	HB040C300	27.082.2	363	UB063C100	27.152.2	361
SGT032	26.192.2N	284	HS032C300	27.016.0	363	HB040C400	27.083.2	363	UB063C150	27.153.2	361
SGT040	26.193.2N	284	HS032C400	27.017.0	363	HB040C500	27.084.2	363	UB063C200	27.154.2	361
	26.194.0	369	HS032C500	27.018.0	363	HB050C050	27.085.2	363	UB063C250	27.155.2	361
SGT050	26.194.2N	284	HS040C050	27.019.0	363	HB050C100	27.086.2	363	UB063C300	27.156.2	361
	26.195.0	369	HS040C100	27.020.0	363	HB050C150	27.087.2	363	BM012	27.157.0	352
	26.196.0	369	HS040C150	27.021.0	363	HB050C200	27.088.2	363	BM020	27.158.0	352
DSMC8-10	26.196.2	355	HS040C200	27.022.0	363	HB050C250	27.089.2	363	BM025	27.159.0	352
DSMC12-16	26.197.2	355	HS040C250	27.023.0	363	HB050C300	27.090.2	363	BM032	27.160.0	352
DSMC20	26.198.2	355	HS040C300	27.024.0	363	HB050C400	27.091.2	363	BM040	27.161.0	352
	26.219.2	368	HS040C400	27.025.0	363	HB050C500	27.092.2	363	BM050	27.162.0	352
	26.229.0	368	HS040C500	27.026.0	363	HB063C050	27.093.2	363	BM063	27.163.0	352
	26.230.0	368	HS050C050	27.027.0	363	HB063C100	27.094.2	363	BM080	27.164.0	352
	26.231.0	368	HS050C100	27.028.0	363	HB063C150	27.095.2	363	BM100	27.165.0	352
	26.232.0	368	HS050C150	27.029.0	363	HB063C200	27.096.2	363	BM125	27.166.0	352
COIS125	26.320.2N	309	HS050C200	27.030.0	363	HB063C250	27.097.2	363	UB063C400	27.180.2	361
COIS160	26.322.2N	309	HS050C250	27.031.0	363	HB063C300	27.098.2	363	UB063C500	27.181.2	361
CSIS160TI	26.325.2N	308	HS050C300	27.032.0	363	HB063C400	27.099.2	363	UB080C050	27.182.2	361
CSIS200TI	26.326.2N	308	HS050C400	27.033.0	363	HB063C500	27.100.2	363	UB080C100	27.183.2	361
COIS200	26.329.2N	309	HS050C500	27.034.0	363	HB080C200	27.104.2	363	UB080C150	27.184.2	361
SGT032V	26.360.2N	284	HS063C050	27.035.0	363	HB080C250	27.105.2	363	UB080C200	27.185.2	361
SGT040V	26.361.2N	284	HS063C100	27.036.0	363	HB080C300	27.106.2	363	UB080C250	27.186.2	361
SGT050V	26.362.2N	284	HS063C150	27.037.0	363	HB080C400	27.107.2	363	UB080C300	27.187.2	361
SGT032A	26.430.2	284	HS063C200	27.038.0	363	HB080C500	27.108.2	363	UB080C400	27.188.2	361
SGT040A	26.431.2	284	HS063C250	27.039.0	363	HB100C050	27.109.2	363	UB080C500	27.189.2	361
SGT050A	26.432.2	284	HS063C300	27.040.0	363	HB100C100	27.110.2	363	UB100C050	27.190.2	361
SGT032AV	26.433.2	284	HS063C400	27.041.0	363	HB100C150	27.111.2	363	UB100C100	27.191.2	361
SGT040AV	26.434.2	284	HS063C500	27.042.0	363	HB100C200	27.112.2	363	UB100C150	27.192.2	361
SGT050AV	26.435.2	284	HS080C050	27.043.0	363	HB100C250	27.113.2	363	UB100C200	27.193.2	361
CFUN032	26.501.2	330	HS080C100	27.044.0	363	HB100C300	27.114.2	363	UB100C250	27.194.2	361
CFUN040	26.502.2	330	HS080C150	27.045.0	363	HB100C400	27.115.2	363	UB100C300	27.195.2	361
CFUN050	26.503.2	330	HS080C200	27.046.0	363	HB100C500	27.116.2	363	UB100C400	27.196.2	361
CFUN063	26.504.2	330	HS080C250	27.047.0	363	UB012C050	27.117.2	360	UB100C500	27.197.2	361
CFUN080	26.505.2	330	HS080C300	27.048.0	363	UB012C100	27.118.2	360	UB025C050	27.198.2	360
CFUN100	26.506.2	330	HS080C400	27.049.0	363	UB012C160	27.119.2	360	UB025C100	27.199.2	360
CFKN032	26.510.2	330	HS080C500	27.050.0	363	UB012C200	27.120.2	360	UB025C160	27.200.2	360

indice alfanumerico ordinato per codice

product reference directory - ordered by code



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
UB025C200	27.201.2	360		AU.069.1	101	M21A1...		266	N22M4...		288
UB025C250	27.202.2	360		AU.070.1	101	M21A2...		266	N23B2...		288
HS025C050	27.203.0	362	AZ-SE5	AU.071.0	222	M21A3...		266	N23B4...		288
HS025C100	27.204.0	362	AZ-SE4	AU.072.0	222	M21A4...		266	N23M2...		288
HS025C160	27.205.0	362	AZ-SC5	AU.073.0	223	M21A5...		266	N23M4...		288
HS025C200	27.206.0	362	AZ-SC4	AU.074.0	223	M21A6...		266	P11M1...		313
HS025C250	27.207.0	362	AZ-SEP5	AU.075.0	223	M21B1...		266	P11M2...		313
HB025C050	27.208.2	362	AZ-SEP4	AU.076.0	223	M21B2...		266	P11M3...		313
HB025C100	27.209.2	362		AX.007.4	247	M21B3...		266	P11M4...		313
HB025C160	27.210.2	362	P 22804 A	P 22804 A	64	M21B4...		266	P12M1...		313
HB025C200	27.211.2	362	P 22804 B	P 22804 B	64	M21B5...		266	P12M2...		313
HB025C250	27.212.2	362	P 22804 G	P 22804 G	64	M21B6...		266	P12M3...		313
HB080C050	27.230.2	363	P 22804 V	P 22804 V	64	M21M1...		266	P12M4...		313
HB080C100	27.231.2	363	RM 010	RM 010	64	M21M2...		266	P13M1...		313
HB080C150	27.232.2	363	RM 050 N	RM 050 N	64	M21M3...		266	P13M2...		313
	36.625.0	213	RM 050 R	RM 050 R	64	M21M4...		266	P13M3...		313
	AT.005.4	261	RM 055 N	RM 055 N	64	M21M5...		266	P13M4...		313
	AU.000.1	221	RM 055 R	RM 055 R	64	M21M6...		266	P21M1...		313
	AU.001.1	221	RM 056 R	RM 056 R	64	M21S1...		266	P21M2...		313
	AU.002.1	220	RM 065 R	RM 065 R	64	M21S2...		266	P21M3...		313
	AU.003.1	220	RM 066 R	RM 066 R	64	M21S3...		266	P21M4...		313
	AU.004.1	220	RM 200 N	RM 200 N	65	M21S4...		266	P22M1...		313
	AU.005.1	220	RM 300 N	RM 300 N	65	M21S5...		266	P22M2...		313
	AU.006.1	220	RM 313 N	RM 313 N	65	M21S6...		266	P22M3...		313
	AU.008.1	221	RM 350 N	RM 350 N	65	M22A1...		266	P22M4...		313
	AU.009.1	221	RM 383 N	RM 383 N	65	M22A2...		266	P23M1...		313
	AU.011.1	220	RM 400 N	RM 400 N	65	M22A3...		266	P23M2...		313
	AU.013.1	220	RM 413 N	RM 413 N	65	M22A4...		266	P23M3...		313
	AU.014.1	220	RM 450 N	RM 450 N	65	M22A5...		266	P23M4...		313
	AU.015.1	220	RM 483 N	RM 483 N	65	M22A6...		266	P31M1...		313
	AU.016.1	220	RS1-A	RS1/A	364	M22B1...		266	P31M2...		313
	AU.017.1	221	RS1-A 5MT	RS1/A 5MT	364	M22B2...		266	P31M3...		313
	AU.018.1	221	RS2-A	RS2/A	364	M22B3...		266	P31M4...		313
	AU.019.1	221	RS3-A	RS3/A	364	M22B4...		266	P32M1...		313
	AU.020.1	221	RS4-A	RS4/A	364	M22B5...		266	P32M2...		313
	AU.021.1	221	RS5-C	RS5/C	364	M22B6...		266	P32M3...		313
	AU.022.1	221	RS6-3F	RS6/3F	365	M22M1...		266	P32M4...		313
	AU.023.1	221	RS7-3F	RS7/3F	365	M22M2...		266	P33M1...		313
	AU.024.1	221	SH1-P	SH1/P	365	M22M3...		266	P33M2...		313
	AU.025.1	221	SH2-P	SH2/P	365	M22M4...		266	P33M3...		313
	AU.027.1	221	D11M1...		334	M22M5...		266	P33M4...		313
AZ-SC1	AU.040.0	223	D11M2...		334	M22M6...		266	P41M1...		313
AZ-SEP1	AU.041.0	223	D11M3...		334	M22S1...		266	P41M2...		313
AZ-SFE1	AU.042.0	222	D11M4...		334	M22S2...		266	P41M3...		313
AZ-SE1	AU.043.0	222	D12M1...		334	M22S3...		266	P41M4...		313
AZ-SC2	AU.044.0	223	D12M2...		334	M22S4...		266	P42M1...		313
AZ-SEP2	AU.045.0	223	D12M3...		334	M22S5...		266	P42M2...		313
AZ-SFE2	AU.046.0	222	D12M4...		334	M22S6...		266	P42M3...		313
AZ-SE2	AU.047.0	222	D13M1...		334	N11B2...		288	P42M4...		313
AZ-SPL2	AU.048.0	222	D13M2...		334	N11B4...		288	P43M1...		313
AZ-SEP3	AU.051.0	223	D13M3...		334	N11M2...		288	P43M2...		313
AZ-SFE3	AU.052.0	222	D13M4...		334	N11M4...		288	P43M3...		313
AZ-SC3	AU.053.0	223	D21M1...		334	N12B2...		288	P43M4...		313
AZ-SE3	AU.054.0	222	D21M2...		334	N12B4...		288	R11M1...		313
AZ-SPL3	AU.055.0	222	D21M3...		334	N12M2...		288	R11M2...		313
AZ-SFE5	AU.057.0	222	D21M4...		334	N12M4...		288	R11M3...		313
AZ-SFE4	AU.058.0	222	D22M1...		334	N13B2...		288	R11M4...		313
AZ-SPL5	AU.059.0	222	D22M2...		334	N13B4...		288	R12M1...		313
AZ-SPL4	AU.060.0	222	D22M3...		334	N13M2...		288	R12M2...		313
	AU.061.1	101	D22M4...		334	N13M4...		288	R12M3...		313
	AU.062.1	101	D23M1...		334	N21B2...		288	R12M4...		313
	AU.063.1	101	D23M2...		334	N21B4...		288	R13M1...		313
	AU.064.1	101	D23M3...		334	N21M2...		288	R13M2...		313
	AU.065.1	101	D23M4...		334	N21M4...		288	R13M3...		313
	AU.066.1	101	J11M2...		345	N22B2...		288	R13M4...		313
	AU.067.1	101	J11M4...		345	N22B4...		288	R21M1...		313
	AU.068.1	101	J11M9...		345	N22M2...		288	R21M2...		313

INDEX

indice alfanumerico ordinato per codice

product reference directory - ordered by code



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
R21M3...		313									
R21M4...		313									
R22M1...		313									
R22M2...		313									
R22M3...		313									
R22M4...		313									
R23M1...		313									
R23M2...		313									
R23M3...		313									
R23M4...		313									
R31M1...		313									
R31M2...		313									
R31M3...		313									
R31M4...		313									
R32M1...		313									
R32M2...		313									
R32M3...		313									
R32M4...		313									
R33M1...		313									
R33M2...		313									
R33M3...		313									
R33M4...		313									
R41M1...		313									
R41M2...		313									
R41M3...		313									
R41M4...		313									
R42M1...		313									
R42M2...		313									
R42M3...		313									
R42M4...		313									
R43M1...		313									
R43M2...		313									
R43M3...		313									
R43M4...		313									
T11M2...		279									
T11M3...		279									
T11M4...		279									
T11M5...		279									
T12M2...		279									
T12M3...		279									
T12M4...		279									
T12M5...		279									
T13M2...		279									
T13M3...		279									
T13M4...		279									
T13M5...		279									
T21M2...		279									
T21M3...		279									
T21M4...		279									
T21M5...		279									
T22M2...		279									
T22M3...		279									
T22M4...		279									
T22M5...		279									
T23M2...		279									
T23M3...		279									
T23M4...		279									
T23M5...		279									



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