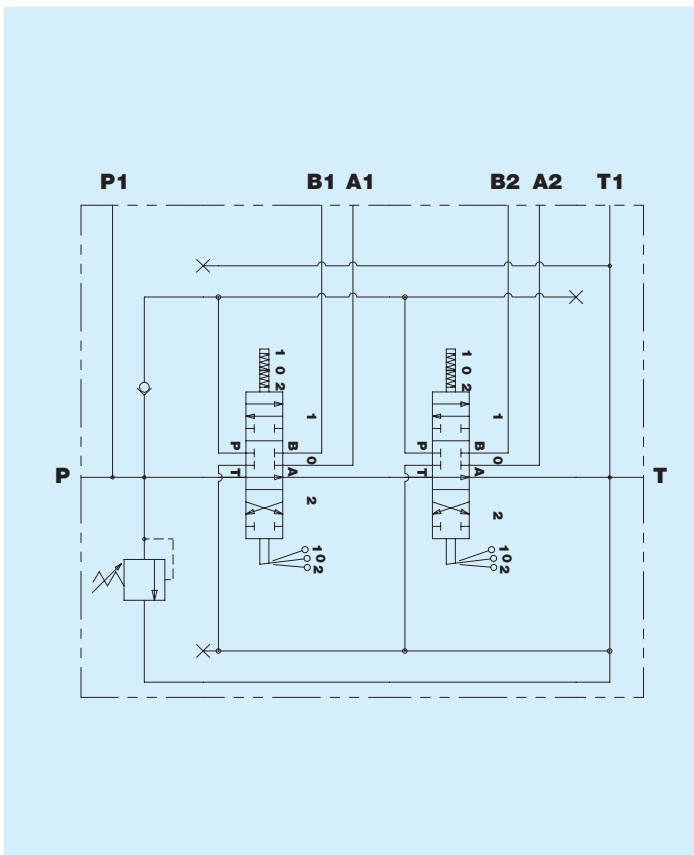


DN - Valvola di controllo direzionale

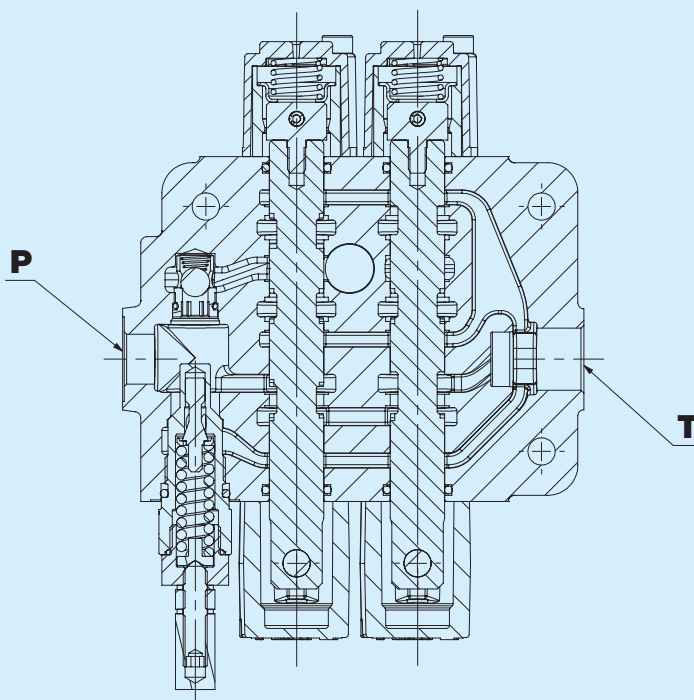


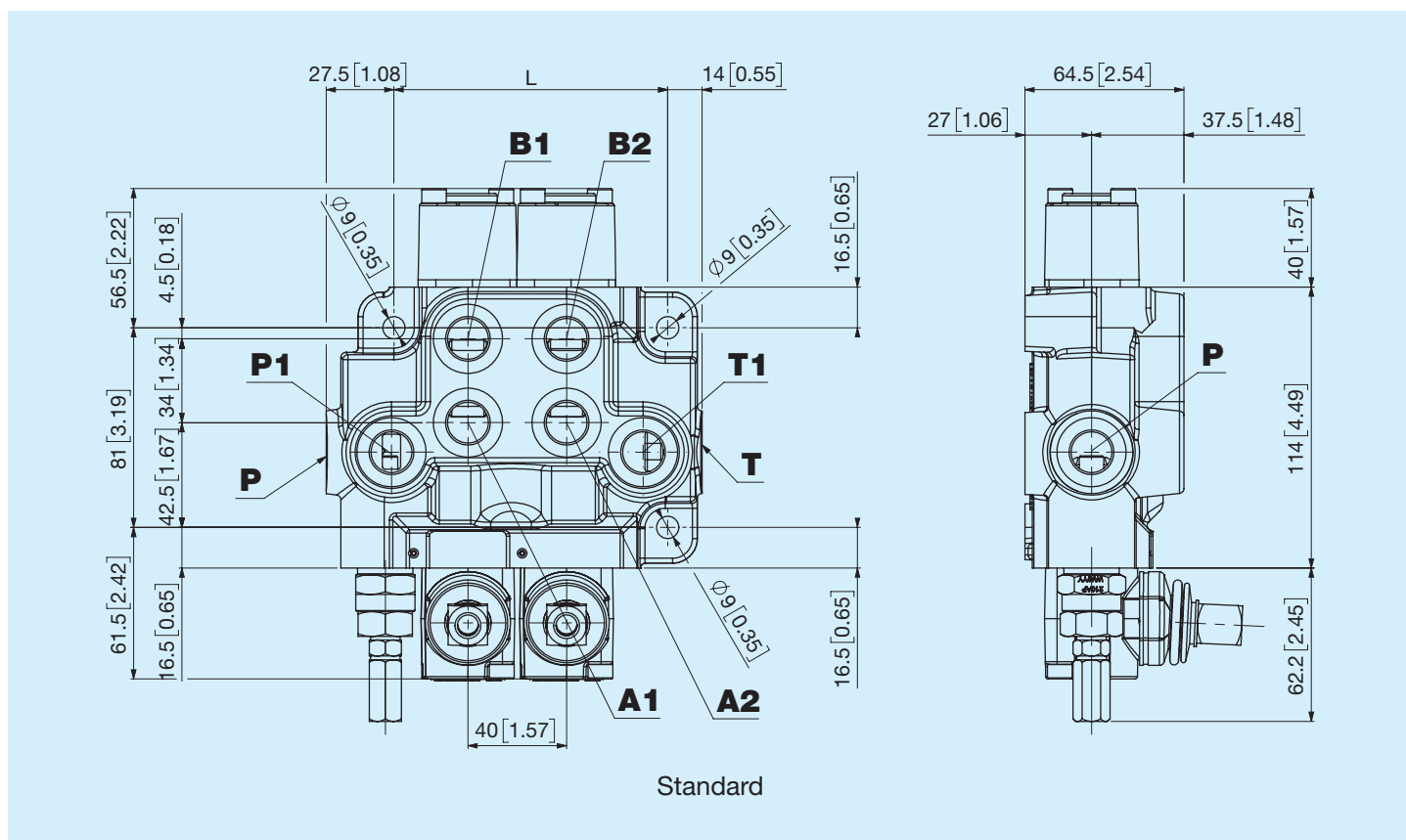
Prima di iniziare l'utilizzo leggere attentamente il documento ISTRUZIONI GENERALI D'IMPIEGO PER LE VALVOLE DI CONTROLLO DIREZIONALE

Portata nominale	45 l/min 11,9 US gpm
Pressione nominale	300 bar 4350 psi
Contropressione massima a scarico	50 bar 725 psi
Massima trafila interna (A o B -> P e T) p=100 bar (1450 psi)	8 cm³/min 0,49 in³/min
Temperatura di utilizzo	-20°C +85°C NBR seals (max peak +100°C) -20°C + 130°C HNBR seals
Viscosità olio d'esercizio	da 15 mm²/s a 90 mm²/s (15 cSt a 90 cSt)
Fluido	Fluidi idraulici definiti dalla norma ISO 6743-4



Sezionato

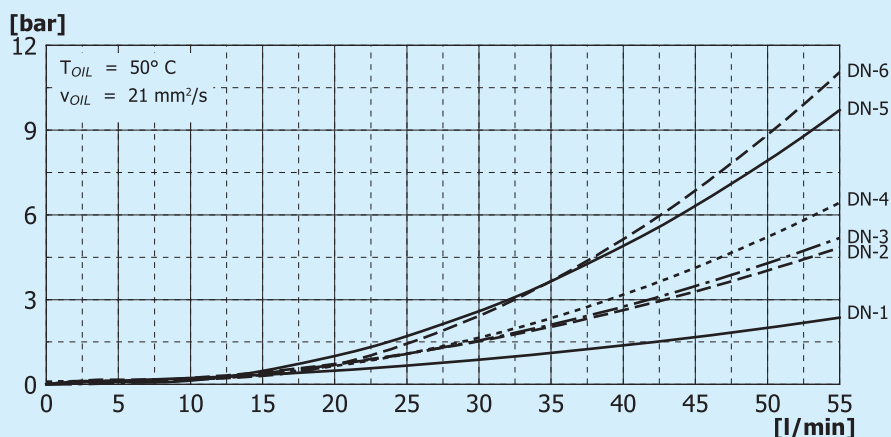
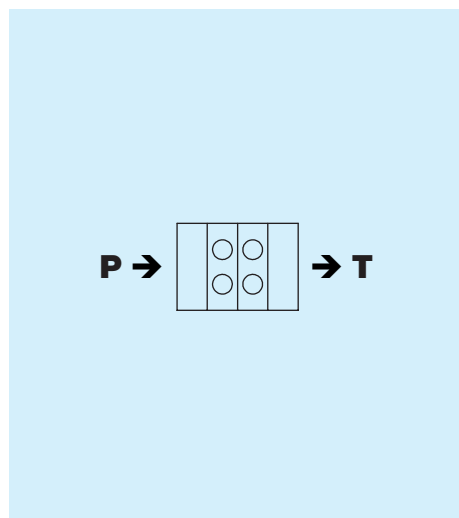




Dimensioni per numero di sezioni

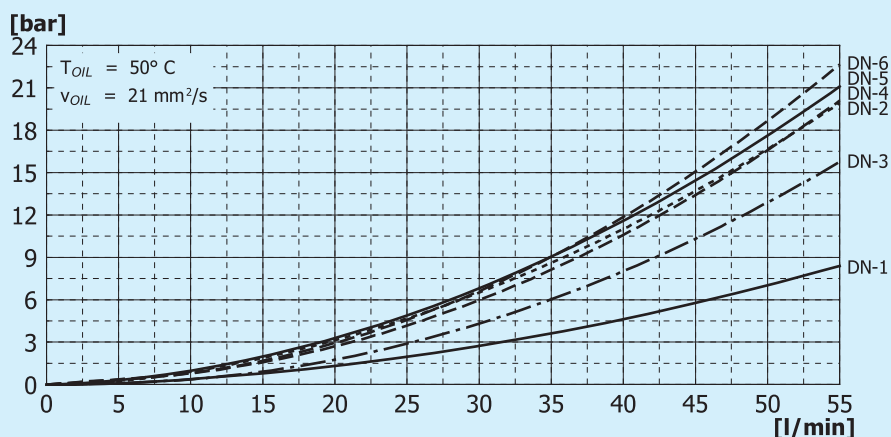
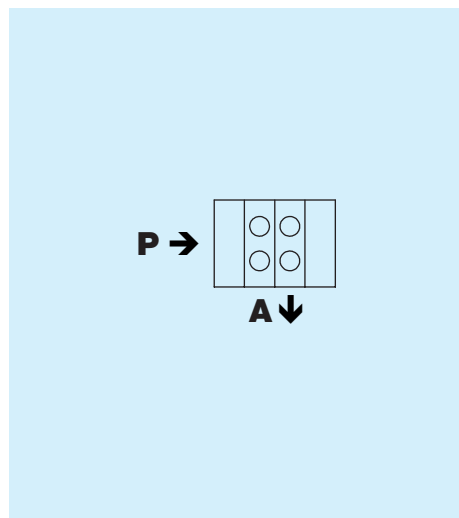
Codice	N° sezioni	L		Massa	
		mm	in	kg	lb
1	1	71	2,8	3,0	6,6
2	2	111	4,37	5,0	11,0
3	3	151	5,94	7,3	16
4	4	191	7,52	9,4	20,7
5	5	231	9,1	11,5	25,3
6	6	271	10,67	13,6	30

Curva caratteristica P-T



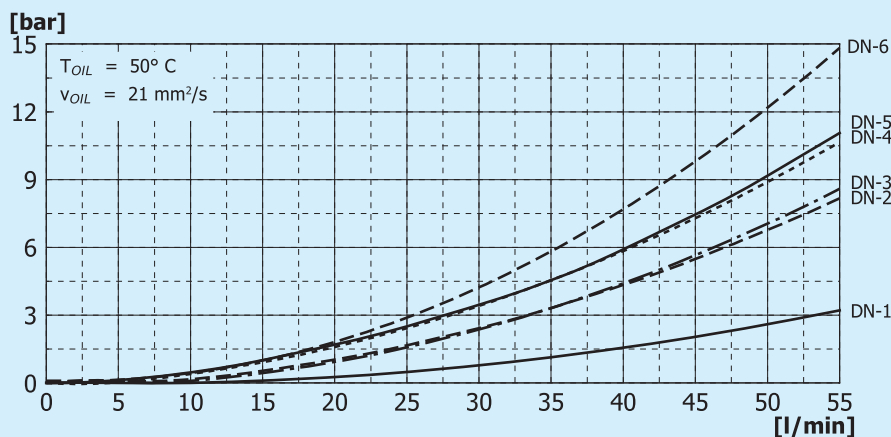
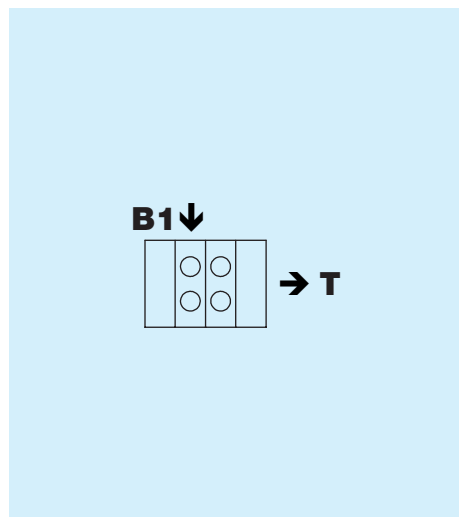
Parametri di prova: Circuito **01**

Curva caratteristica P-A



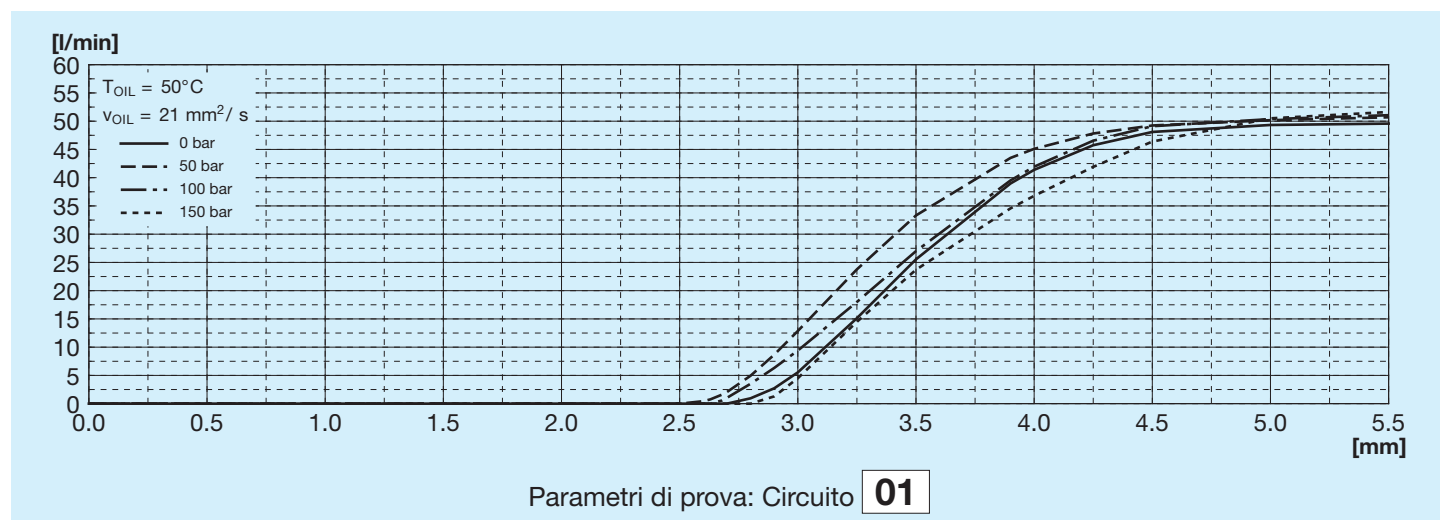
Parametri di prova: Circuito **01**

Curva caratteristica B1-T

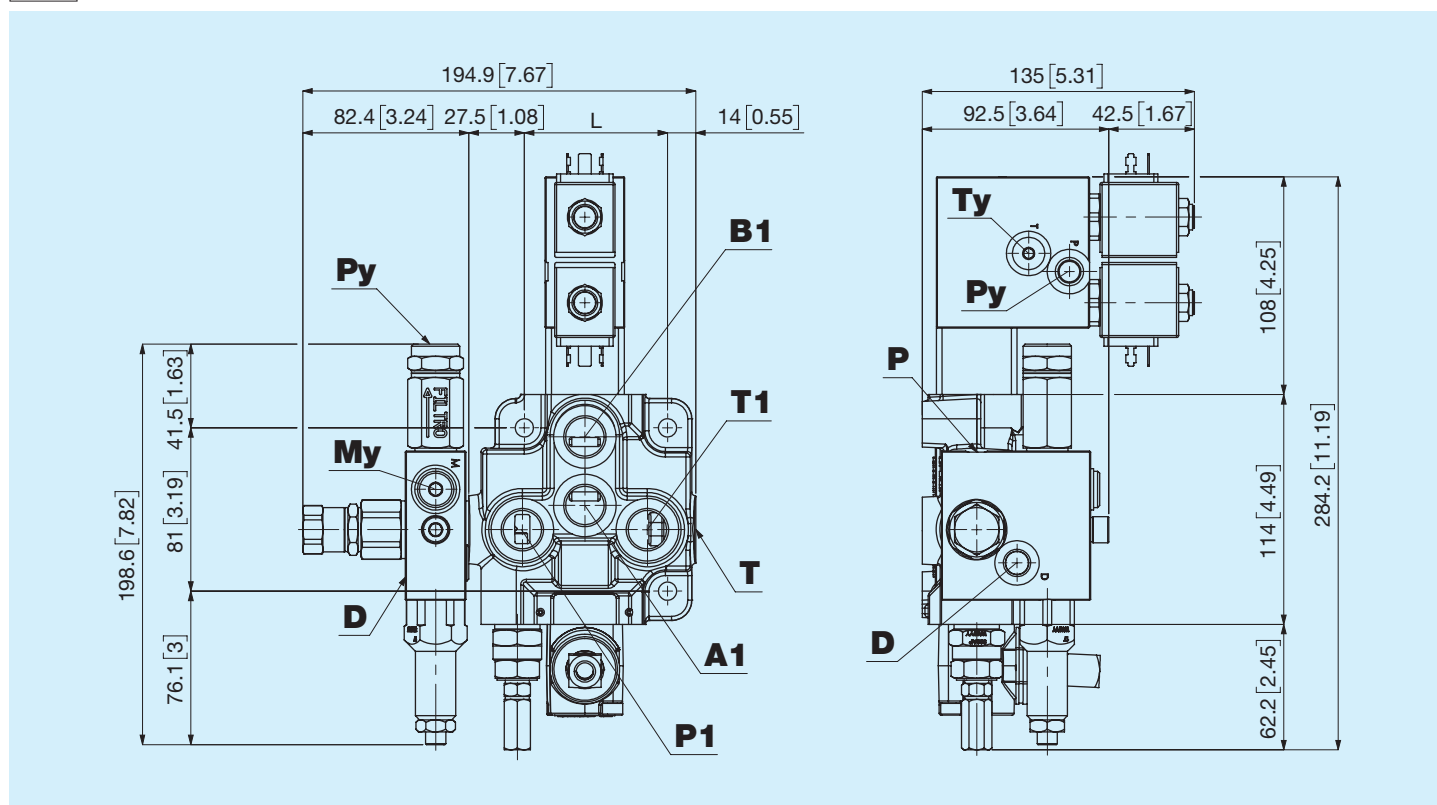


Parametri di prova: Circuito **01**

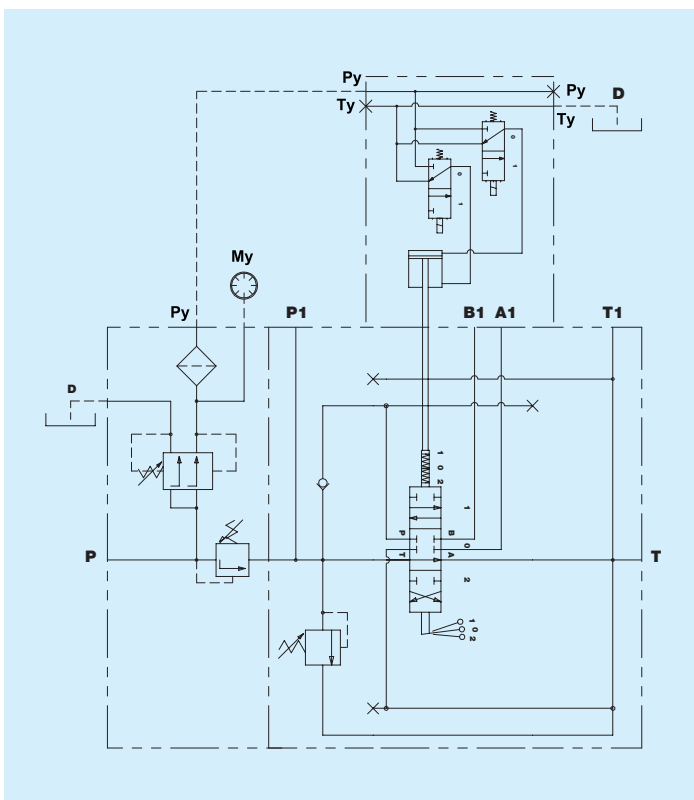
Metering



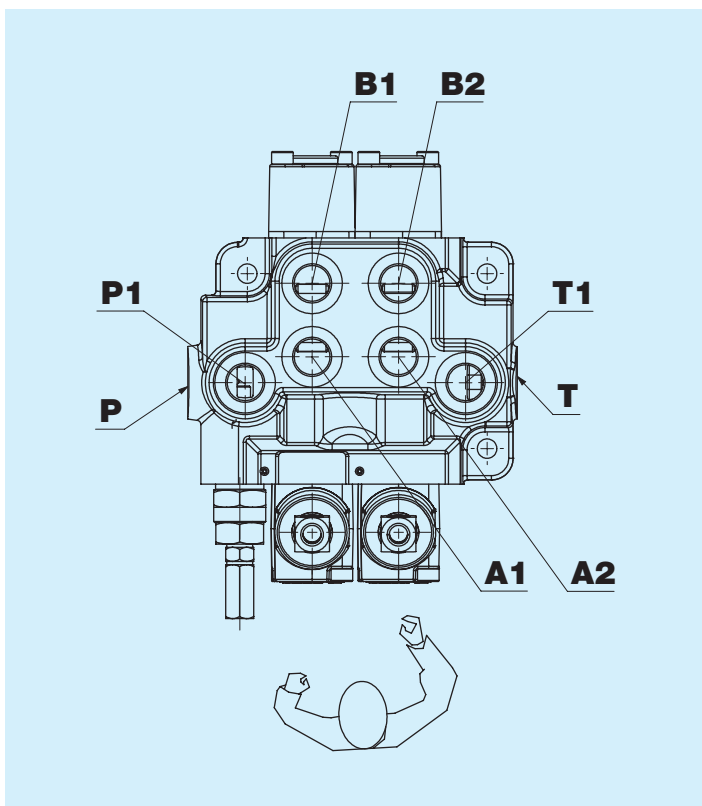
A Alimentatore



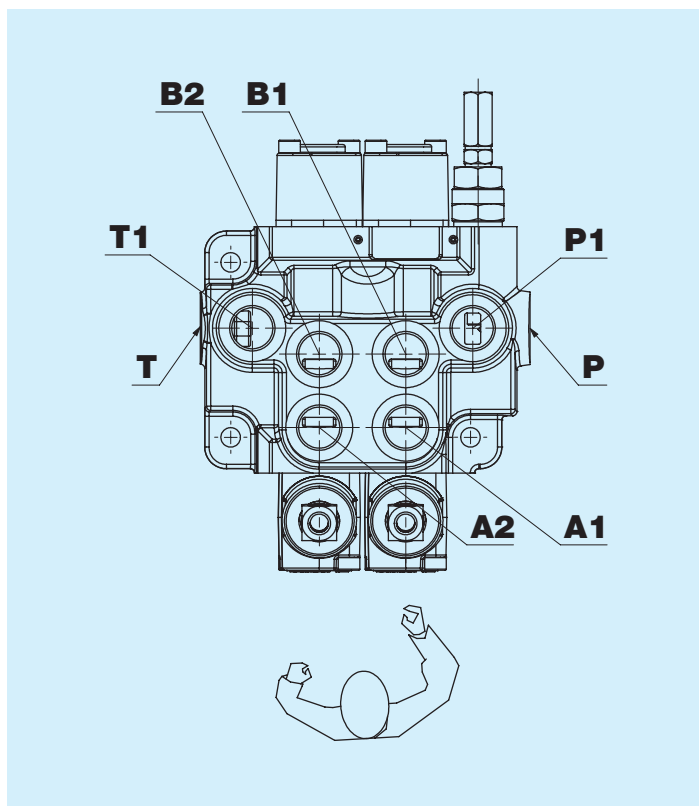
La seguente opzione viene utilizzata per lo più in quei casi in cui si desidera anche un azionamento elettro-idraulico o semplicemente idraulico del distributore. Con questa scelta, il kit per la funzione elettro-idraulica non sarà provvisto di tubi di collegamento.



S Sinistra (standard)



D Destra



La bocca A è generalmente la porta più vicina al lato dell'azionamento.

Filettatura bocche P - P1

Codice	Tipo	Serraggio Nm
O	Non lavorata	
L	1/4" GAS ISO 1179	28
A	3/8" GAS ISO 1179	40
B	1/2" GAS ISO 1179	65
3	M14x1,5 ISO 9974	10
T	M16x1,5 ISO 9974	28
C	M18x1,5 ISO 9974	42
I	M16x1,5 ISO 6149	28
W	M18x1,5 ISO 6149	28
P	9/16" - 18 SAE ISO 11926	28
E	3/4" - 16 SAE ISO 11926	42

Filettatura bocche A - B

Codice	Tipo	Serraggio Nm
L	1/4" GAS ISO 1179	28
A	3/8" GAS ISO 1179	40
B	1/2" GAS ISO 1179	65
T	M16x1,5 ISO 9974	28
C	M18x1,5 ISO 9974	42
I	M16x1,5 ISO 6149	28
W	M18x1,5 ISO 6149	28
P	9/16" - 18 SAE ISO 11926	28
E	3/4" - 16 SAE ISO 11926	42

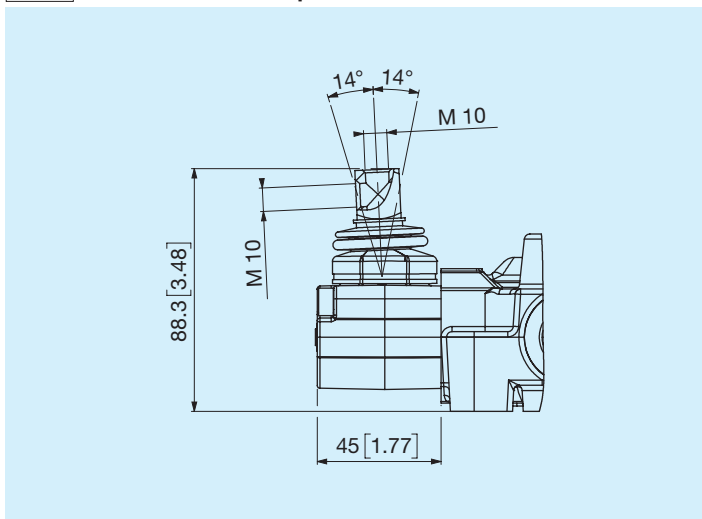
Filettatura bocca T

Codice	Tipo	Serraggio Nm
B	1/2" GAS ISO 1179	65
N	M22x1,5 ISO 9974	67
J	M22x1,5 ISO 6149	67
R	7/8" - 14 SAE ISO 11926	67

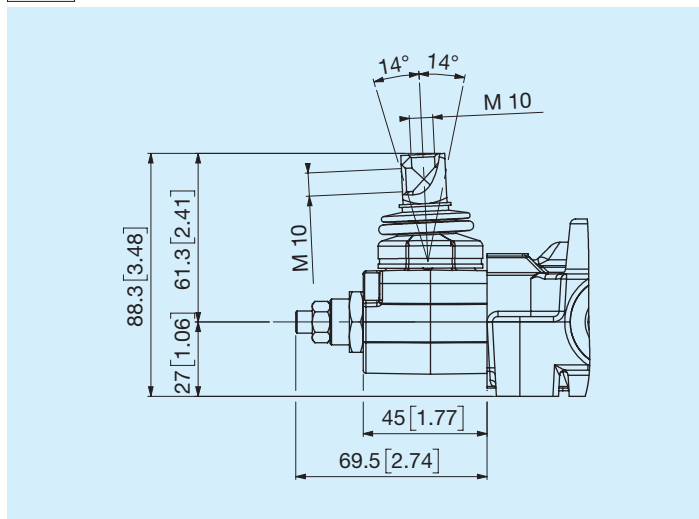
Filettatura bocca T1

Codice	Tipo	Serraggio Nm
O	Non lavorata	
L	1/4" GAS ISO 1179	28
A	3/8" GAS ISO 1179	40
B	1/2" GAS ISO 1179	65
3	M14x1,5 ISO 9974	10
T	M16x1,5 ISO 9974	28
C	M18x1,5 ISO 9974	42
I	M16x1,5 ISO 6149	28
W	M18x1,5 ISO 6149	28
P	9/16" - 18 SAE ISO 11926	28
E	3/4" - 16 SAE ISO 11926	42

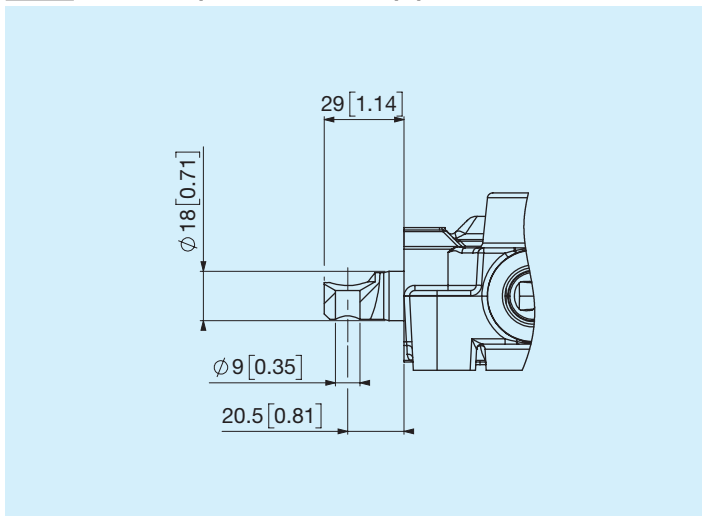
L Standard kit portaleva



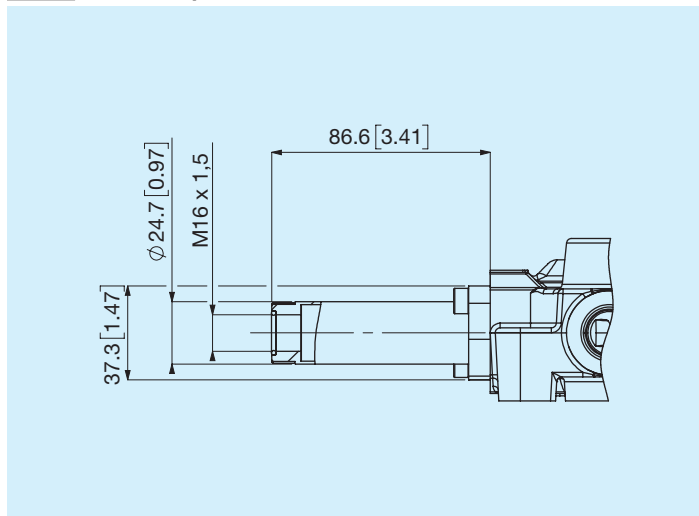
Z Portaleva con limitatore di corsa



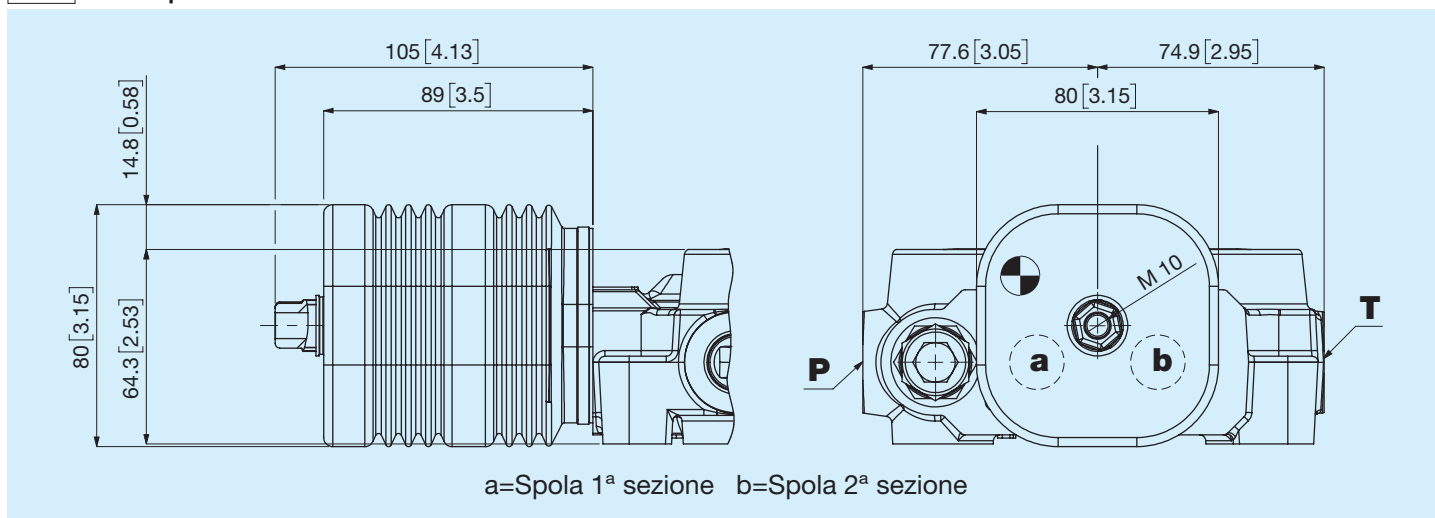
A Senza portaleva, appendice standard



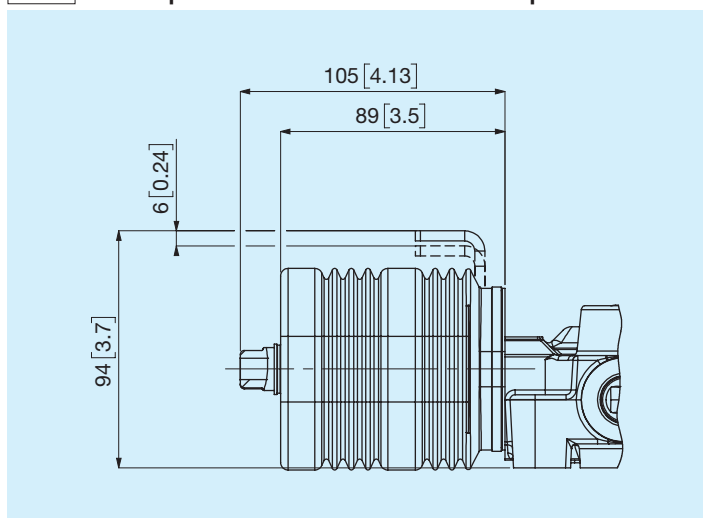
T Predisposizione cavo lato azionamento



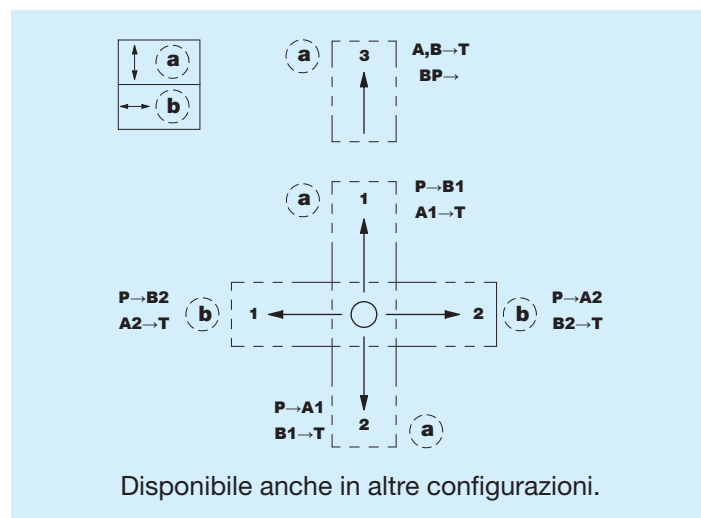
M Manipolatore



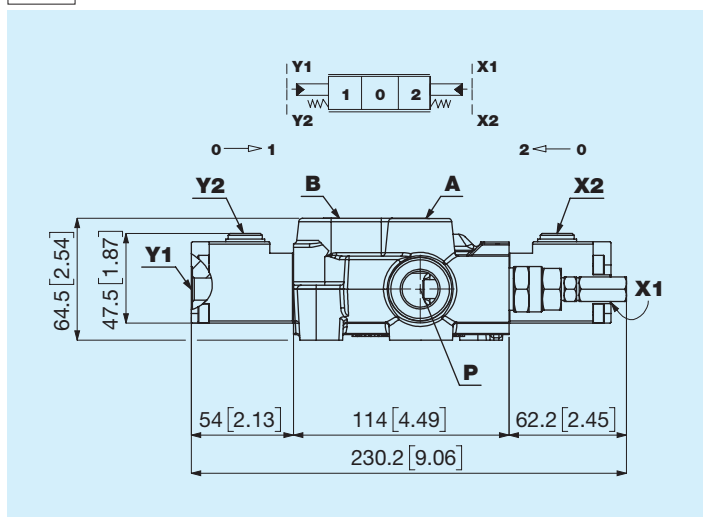
G Manipolatore con blocca spole



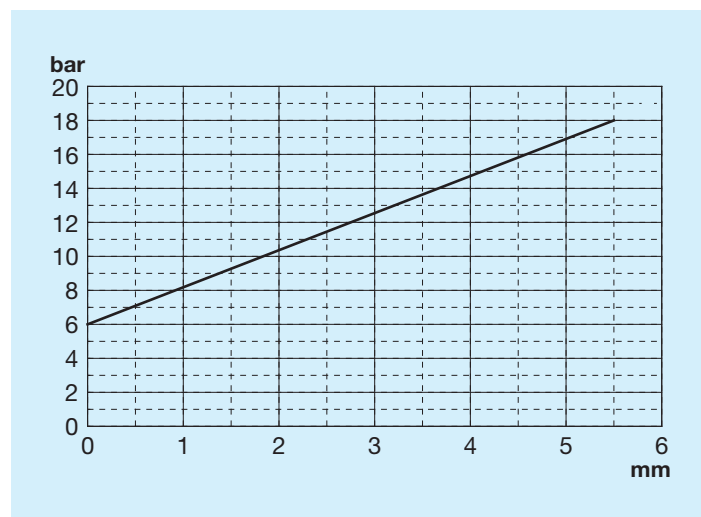
Funzioni manipolatore



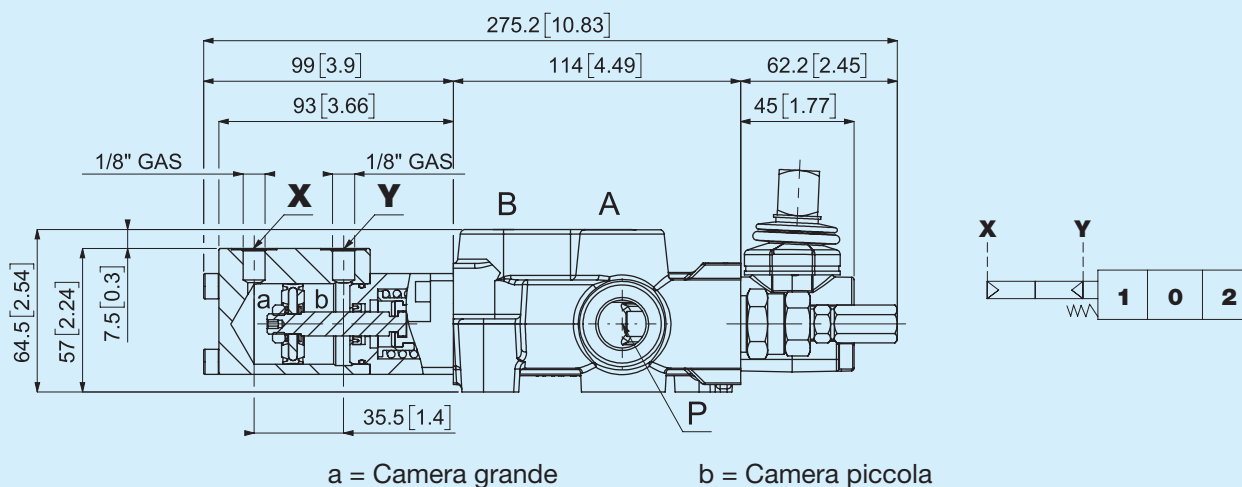
K Comando idraulico



Comando idraulico

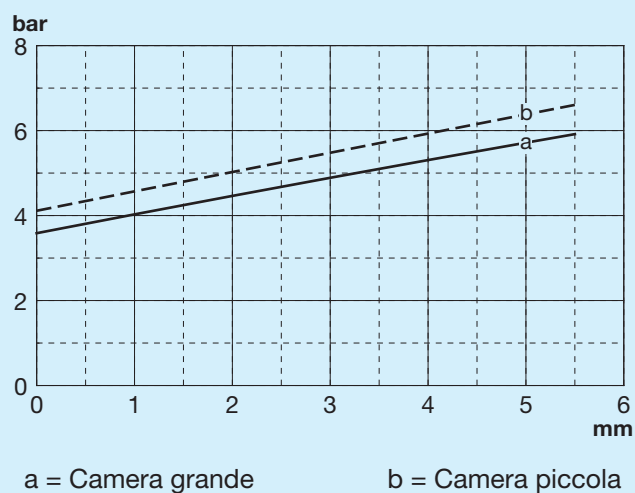


P Pneumatico

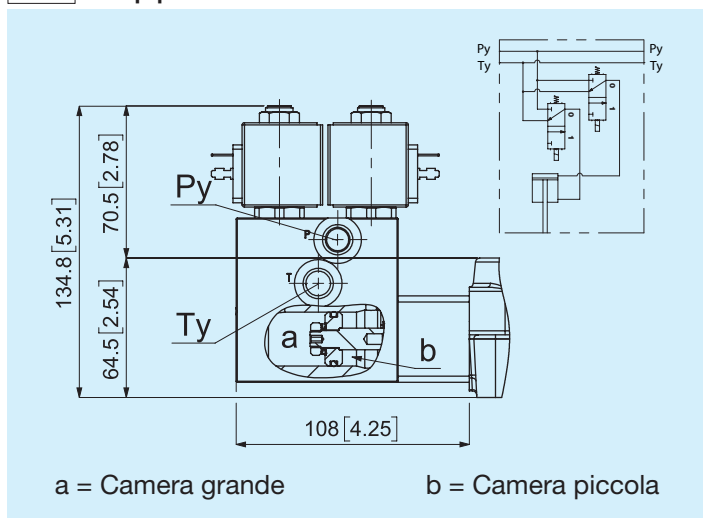


L'azionamento pneumatico va a collocarsi nel lato in cui normalmente è posto il posizionatore e rappresenta l'azionamento principale. Il distributore verrà fornito, come standard, anche, con portaleva nel lato opposto.

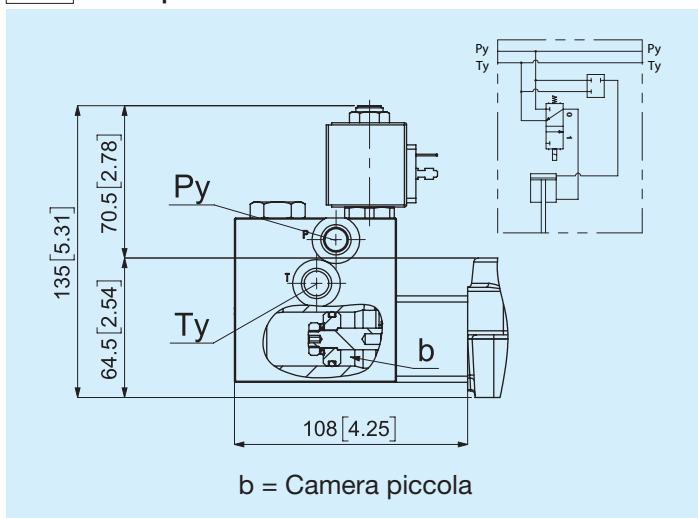
Comando pneumatico



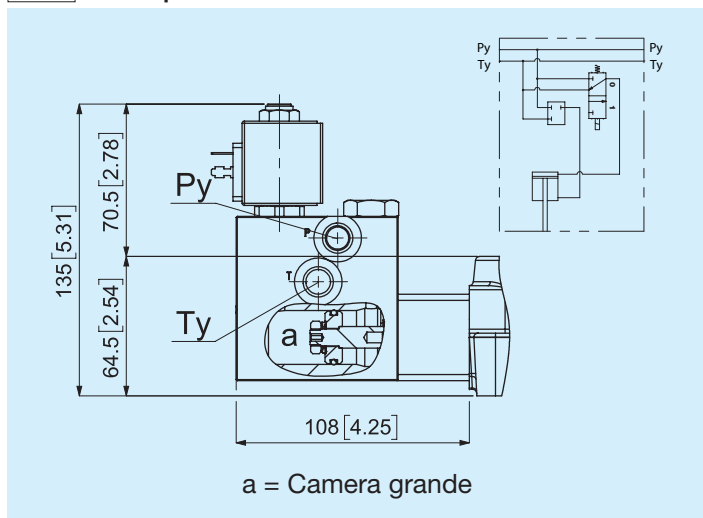
H Doppio effetto



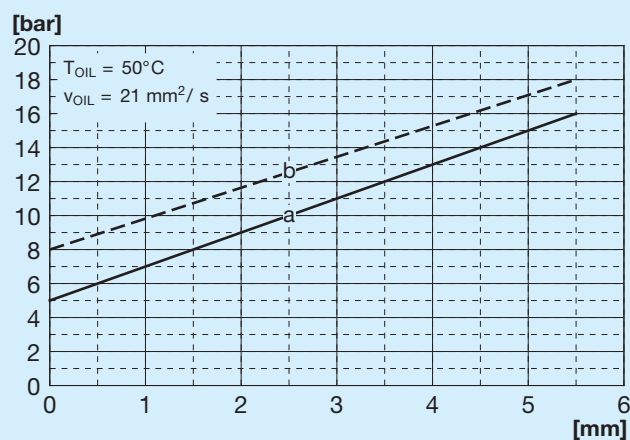
S Semplice effetto bocca A



X Semplice effetto bocca B



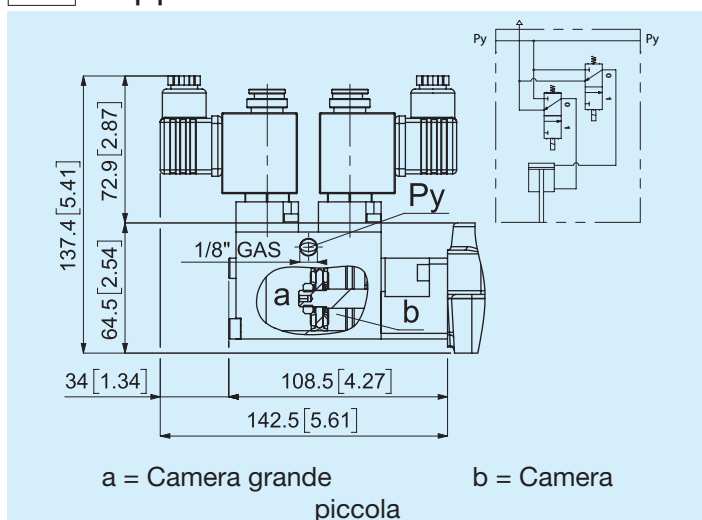
Comando elettro-idraulico



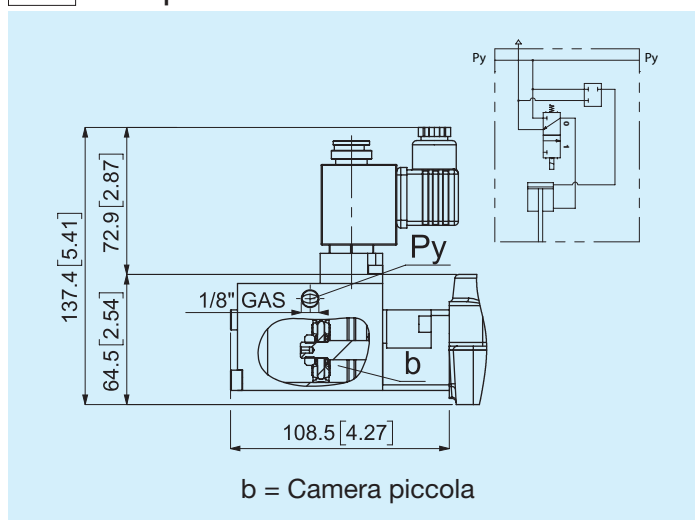
a = Camera grande

b = Camera piccola

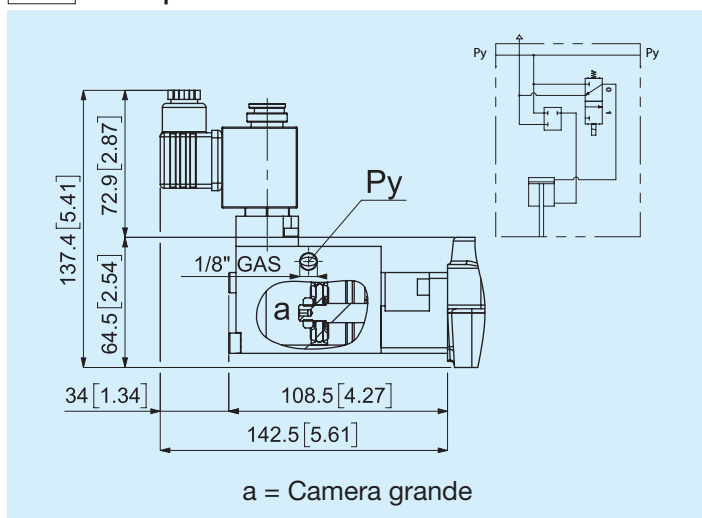
U Doppio effetto



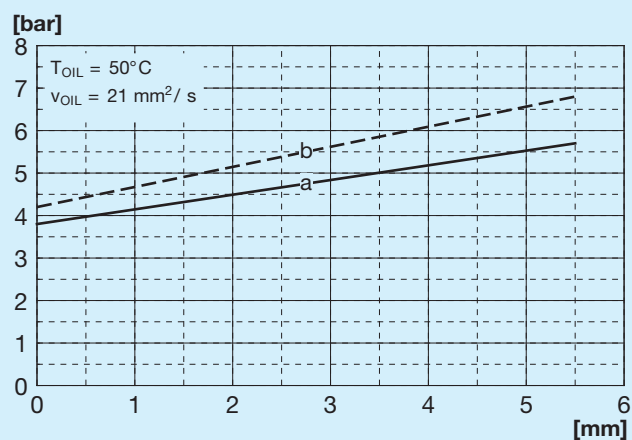
I Semplice effetto bocca A



W Semplice effetto bocca B



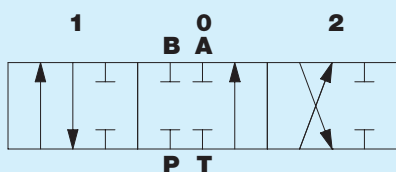
Comando elettro-pneumatico



a = Camera grande

b = Camera piccola

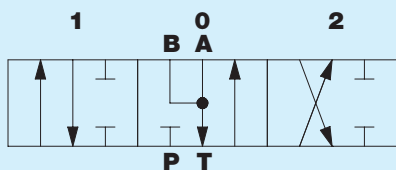
01 Circuito



Posizioni

3	1	0	2	4
	$P \rightarrow B$	$P, T \vdash$	$P \rightarrow A$	
	$A \rightarrow T$	$A, B \vdash$	$B \rightarrow T$	
	$BP \vdash$	$BP \rightarrow$	$BP \vdash$	

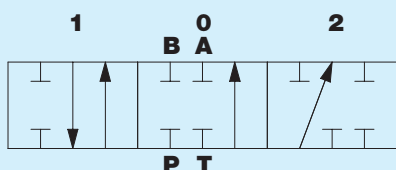
03 Circuito



Posizioni

3	1	0	2	4
	$P \rightarrow B$	$A, B \rightarrow T$	$P \rightarrow A$	
	$A \rightarrow T$	$P \dashv$	$B \rightarrow T$	
	$BP \dashv$	$BP \rightarrow$	$BP \dashv$	

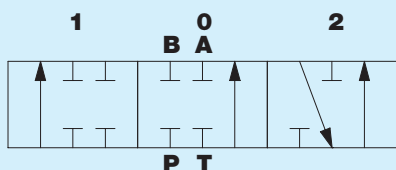
04 Circuito



Posizioni

3	1	0	2	4
	$A \rightarrow T$ $P, B \dashv$ $BP \rightarrow$	$P, T \dashv$ $A, B \dashv$ $BP \rightarrow$	$P \rightarrow A$ $B, T \dashv$ $BP \dashv$	

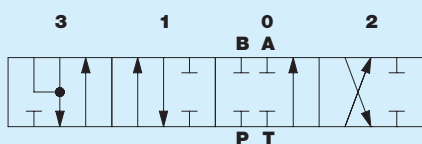
05 Circuito



Posizioni

3	1	0	2	4
	$P \rightarrow B$ $A, T \vdash$ $BP \vdash$	$P, T \vdash$ $A, B \vdash$ $BP \rightarrow$	$P, A \vdash$ $B \rightarrow T$ $BP \rightarrow$	

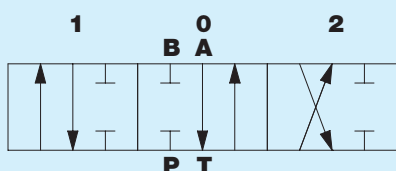
07 Circuito



Posizioni

3	1	0	2	4
A, B $\rightarrow$ T	P $\rightarrow$ B	P, T $\vdash$	P $\rightarrow$ A	
P $\vdash$	A $\rightarrow$ T	A, B $\vdash$	B $\rightarrow$ T	
BP $\rightarrow$	BP $\vdash$	BP $\rightarrow$	BP $\vdash$	

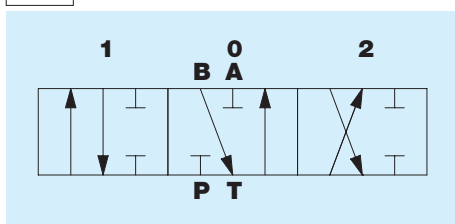
08 Circuito



Posizioni

3	1	0	2	4
	$P \rightarrow B$	$A \rightarrow T$	$P \rightarrow A$	
	$A \rightarrow T$	$P, B \vdash$	$B \rightarrow T$	
	$BP \vdash$	$BP \rightarrow$	$BP \vdash$	

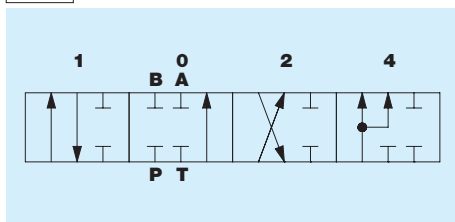
10 Circuito



Posizioni

3	1	0	2	4
	$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$B \rightarrow T$ $P, A \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$	

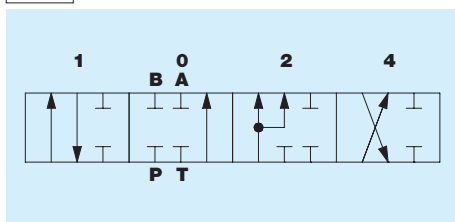
17 Circuito



Posizioni

3	1	0	2	4
	$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$P, T \rightarrow$ $A, B \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$	$P \rightarrow A, B$ $T \rightarrow$ $BP \rightarrow$

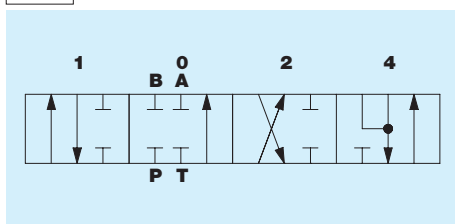
23 Circuito



Posizioni

3	1	0	2	4
	$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$P, T \rightarrow$ $A, B \rightarrow$ $BP \rightarrow$	$P \rightarrow A, B$ $T \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$

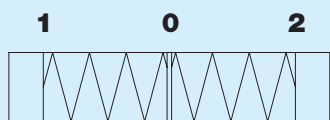
70 Circuito



Posizioni

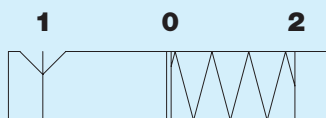
3	1	0	2	4
	$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$P, T \rightarrow$ $A, B \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$	$A, B \rightarrow T$ $P \rightarrow$ $BP \rightarrow$

0A



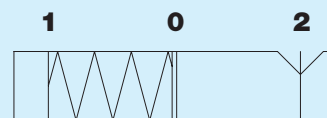
Posizione neutra in 0

0B



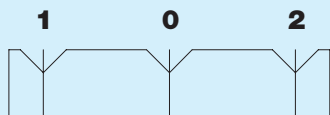
Posizione neutra in 0,
detent in 1

0C



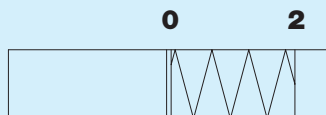
Posizione neutra in 0,
detent in 2

0D



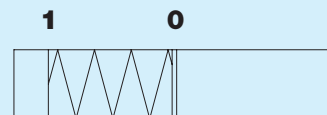
Detent in 0, 1, 2

0E



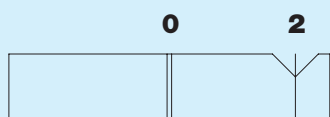
Posizione neutra in 0

0F



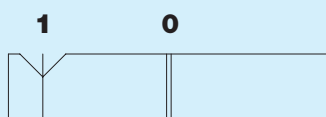
Posizione neutra in 0

0H



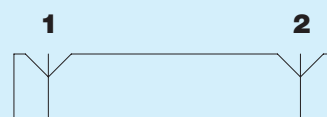
Detent in 2

0L



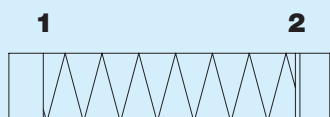
Detent in 1

0Q



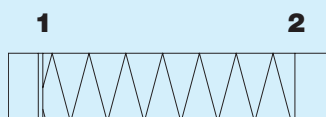
Detent in 1, 2

0R



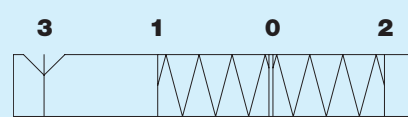
Posizione neutra in 2

0S



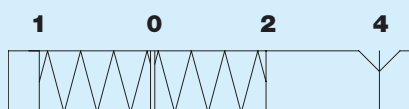
Posizione neutra in 1

NS



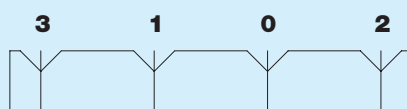
Posizione neutra in 0, detent in 3

NT



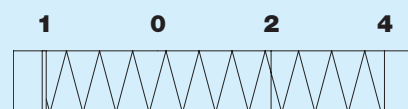
Posizione neutra in 0, detent in 4

PS



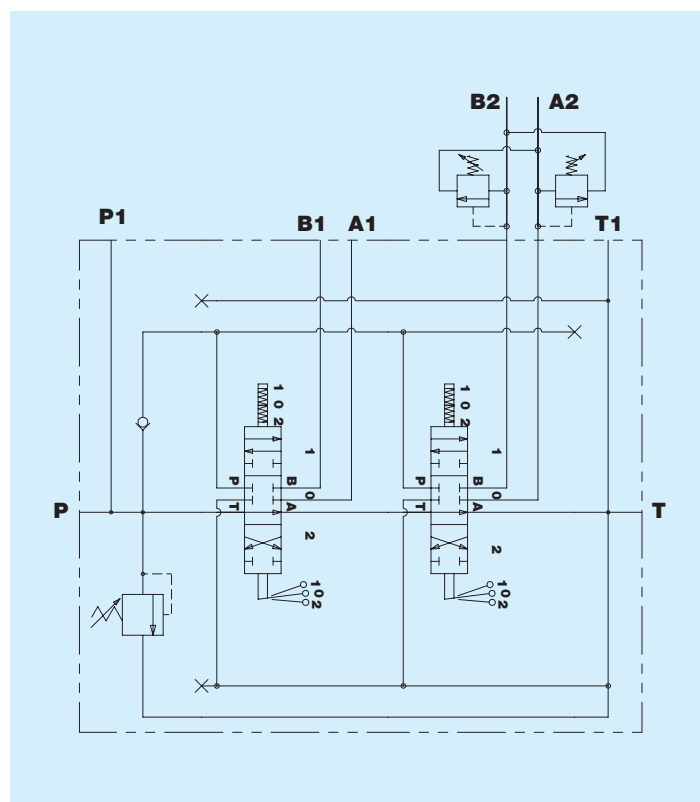
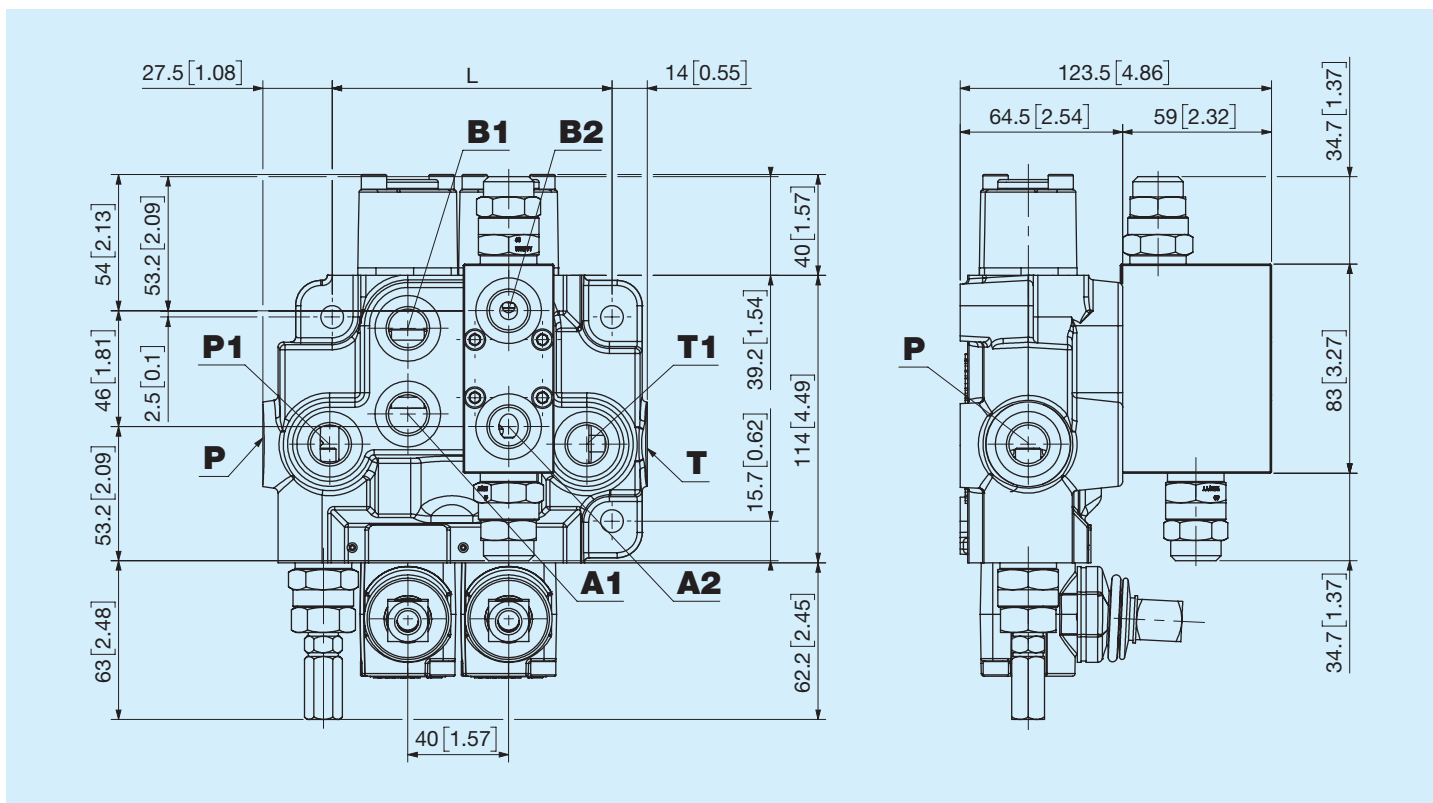
Detent in 3, 1, 0, 2

TR

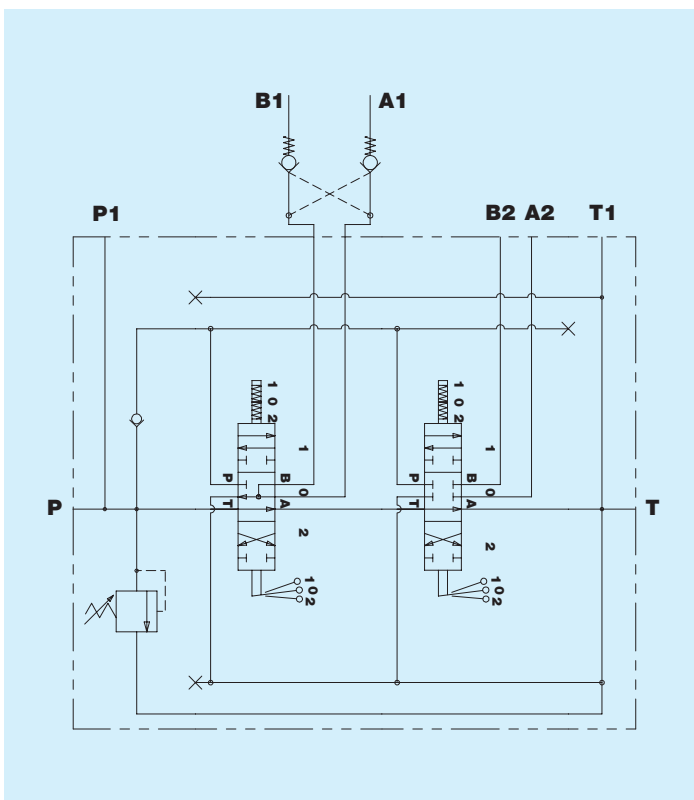
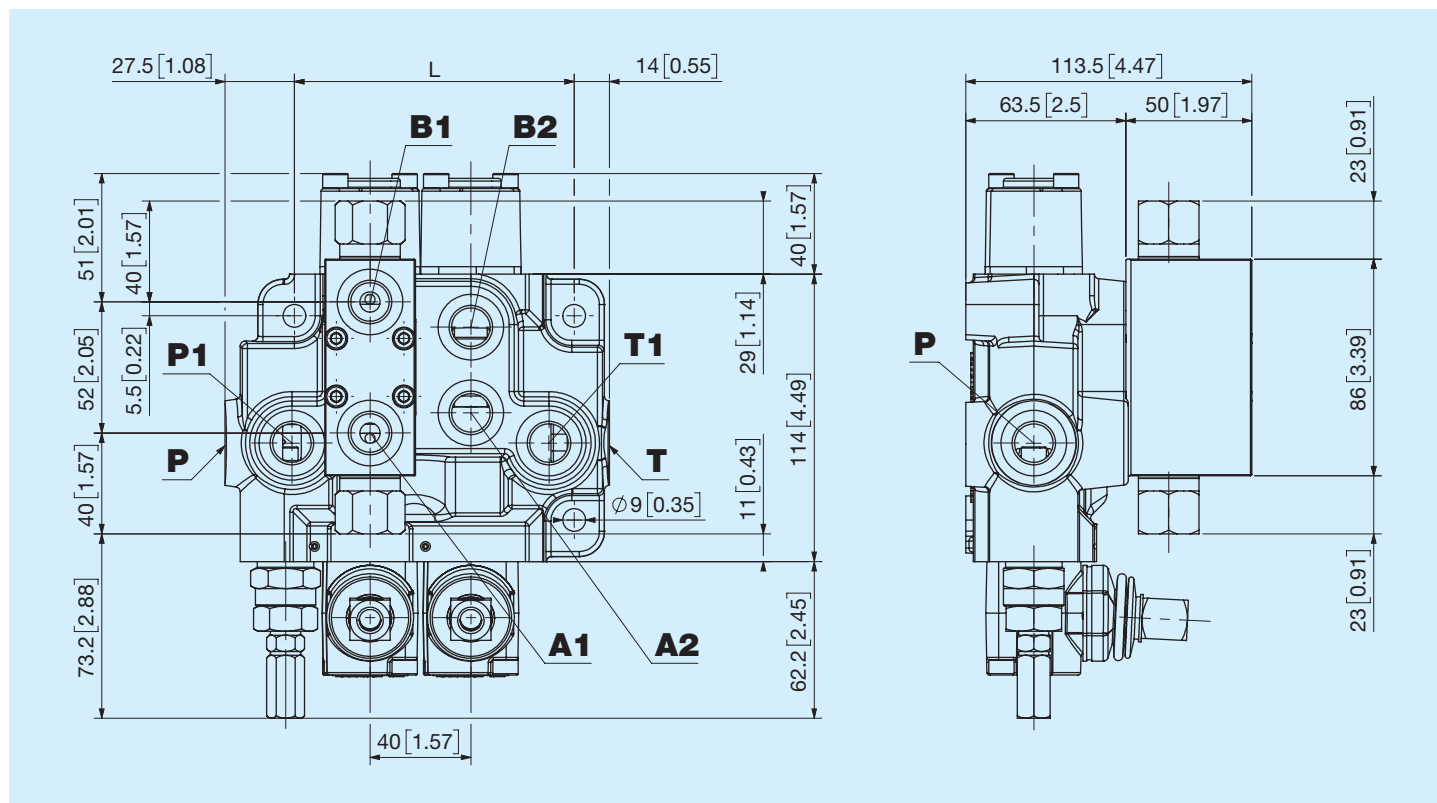


Posizione neutra in 1

VL Valvola limitatrice di pressione bocca A e B

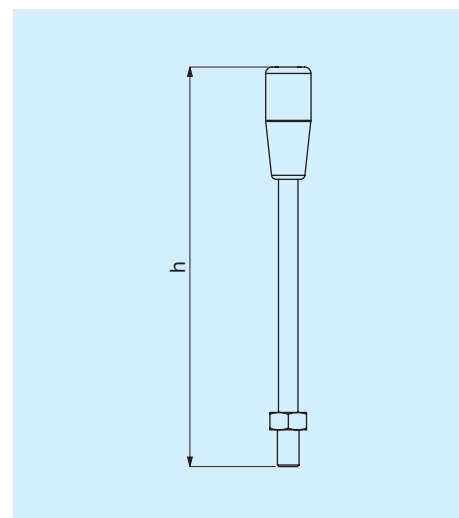


VB Valvola di blocco pilotata bocca A e B



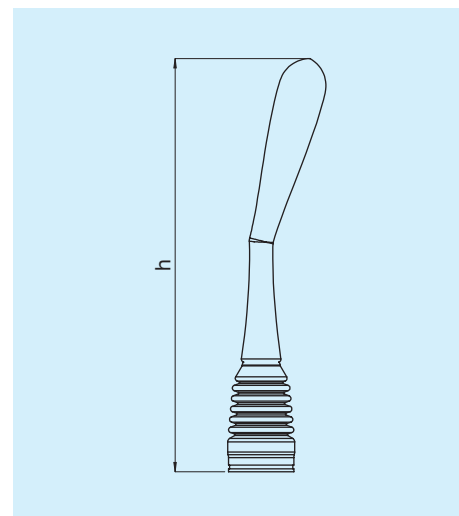
Dritta pomello standard

Codice	Descrizione	h [mm]	h [in]
A	Dritta pomello standard	109	4,3
B	Dritta pomello standard	134	5,28
C	Dritta pomello standard	184	7,24
D	Dritta pomello standard	214	8,42
E	Dritta pomello standard	254	10
F	Dritta pomello standard	304	11,97

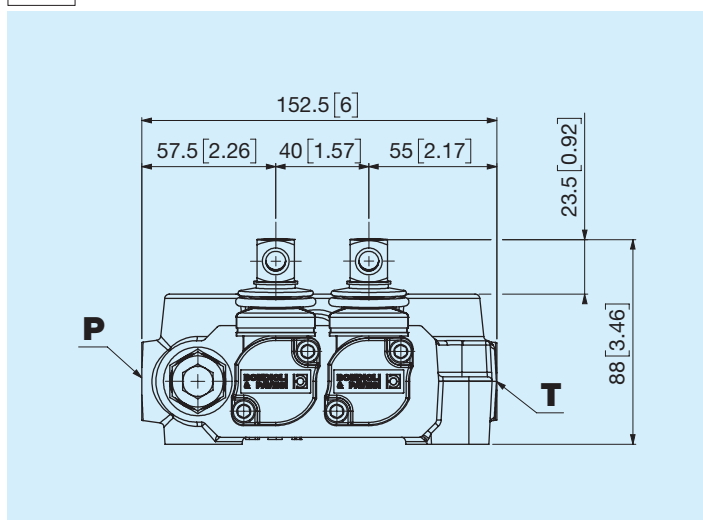


Leva ergonomica

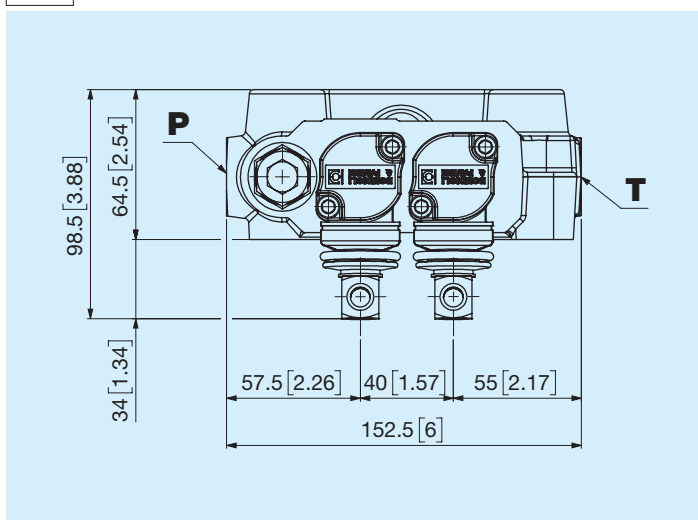
Codice	Descrizione	h [mm]	h [in]
L	Dritta verticale	180	7,09
O	Piegata 15° verticale	180	7,09
R	Piegata 30° verticale	180	7,09
M	Dritta orizzontale	180	7,09
Y	Piegata 15° orizzontale	180	7,09
Q	Piegata 30° orizzontale	180	7,09



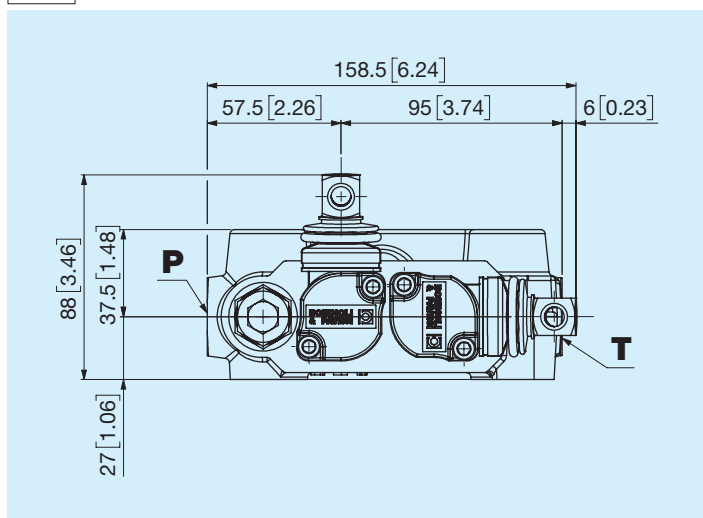
A Dritta



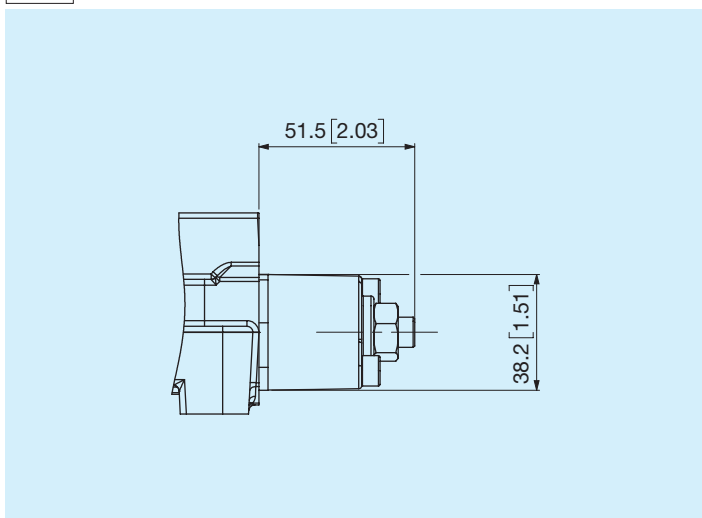
C Ruotata 180°



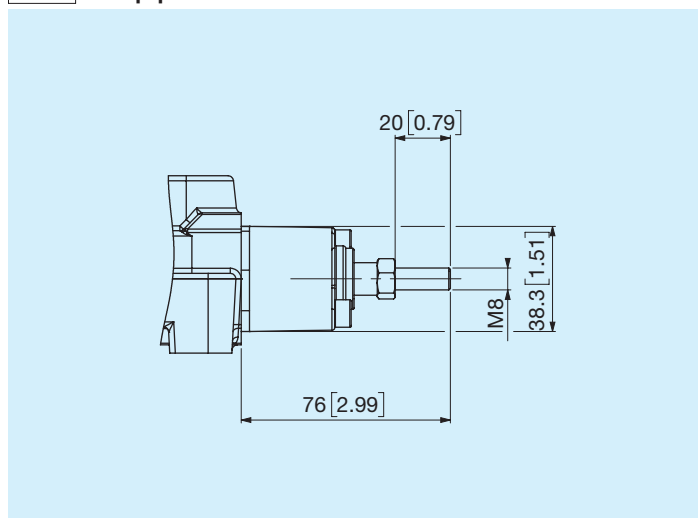
D Ruotata 90° verso il T



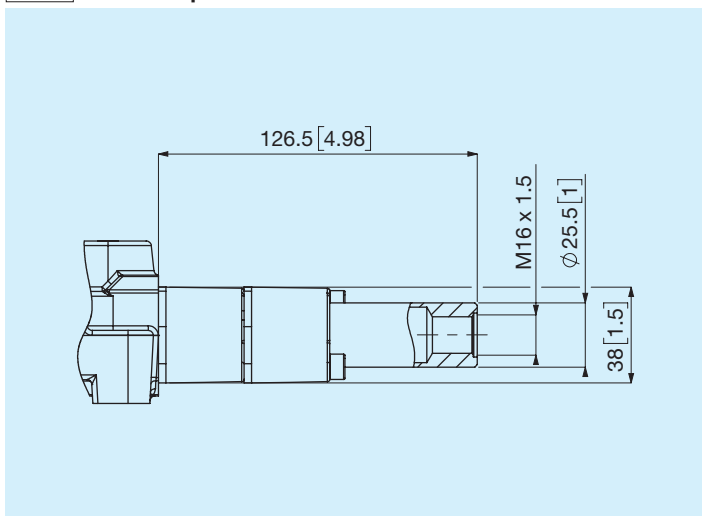
C Limitatore di corsa



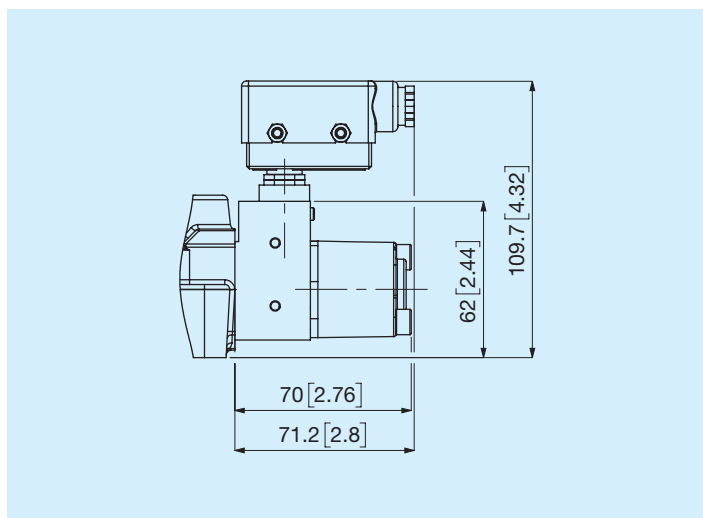
M Doppio comando maschio



T Predisposizione cavo



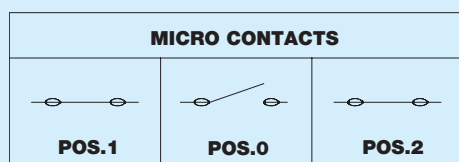
Micro



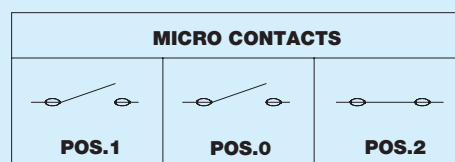
Caratteristiche posizionario Micro

Portata dei contatti	16(5)A a 250V A.C 50 Hz 3A at 30V D.C. L/R= 5 ms
Temperatura di funzionamento	-20° a 85° C
Vita meccanica attesa	10 milioni di cicli a 1 Hz
Isolamento	Fino a 100 MΩ

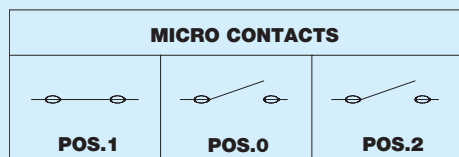
Y Micro doppio effetto



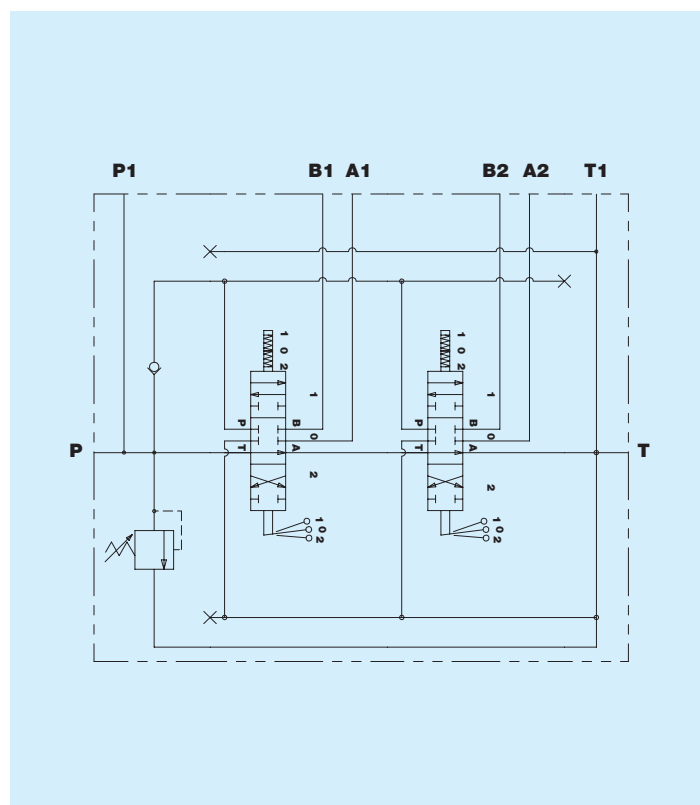
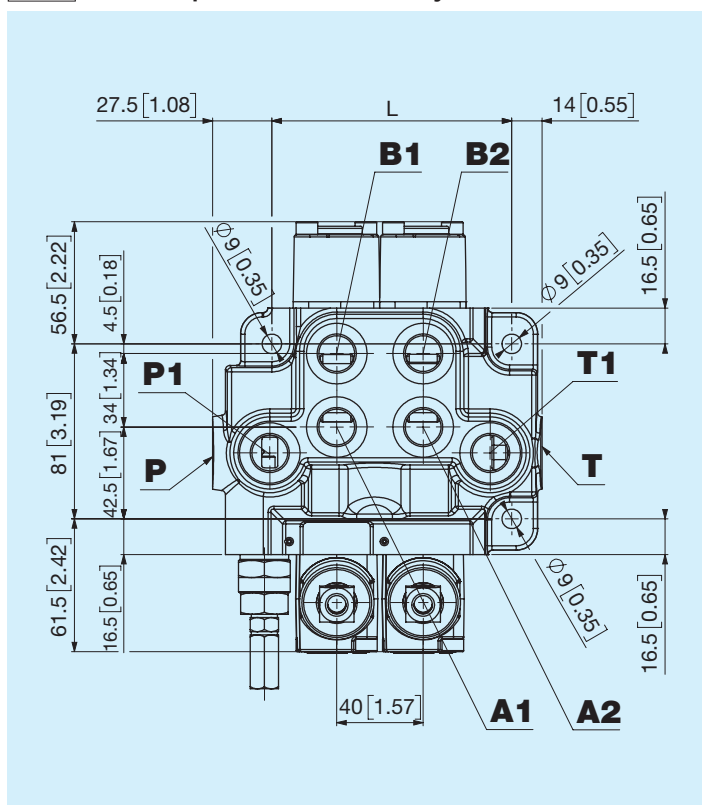
P Micro semplice effetto bocca A



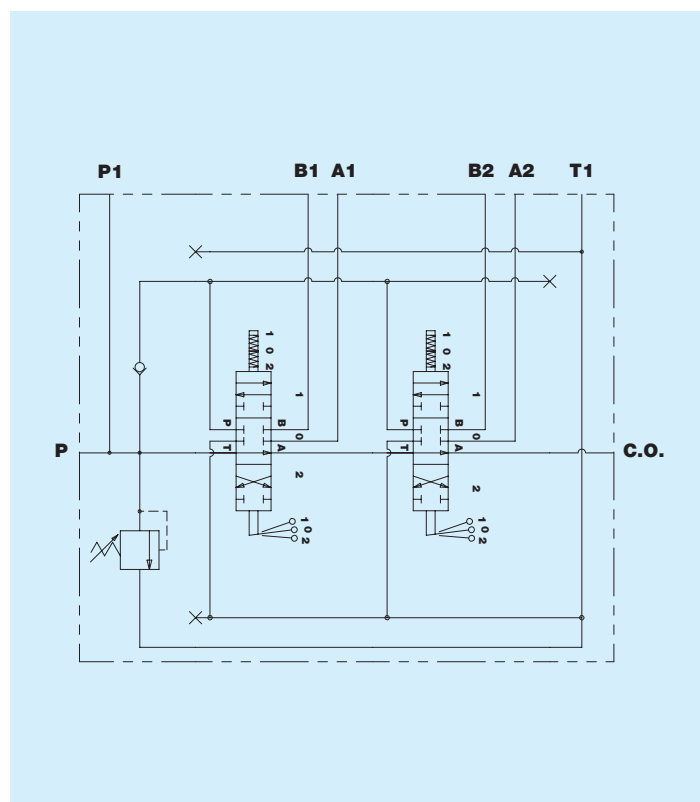
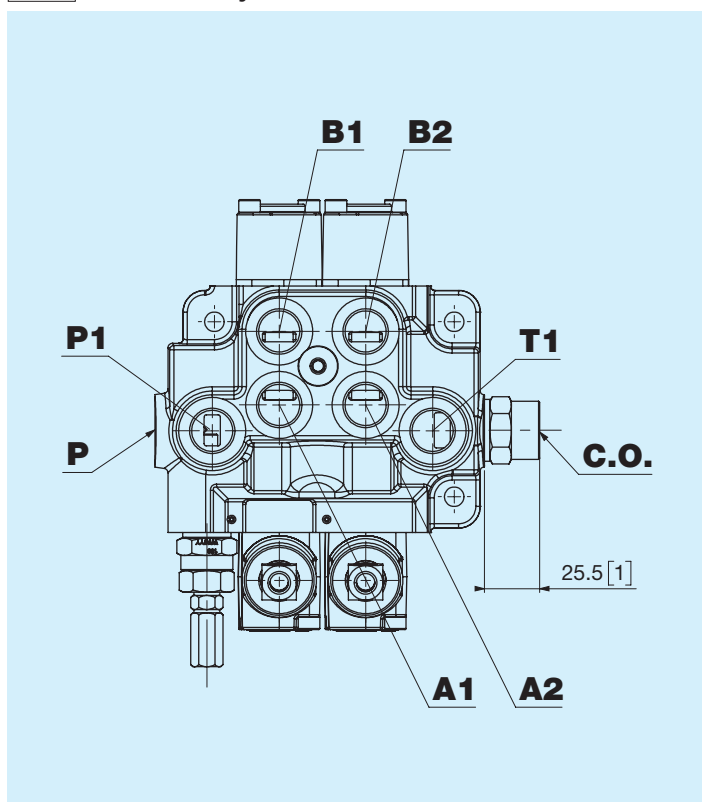
O Micro semplice effetto bocca B



A Predisposizione Carry-Over



B Con Carry-Over bocca T



	1	2	3	4	5	6	7	8	9	10	Ripetere per ogni sezione del distributore						
											11	12	13	14	15	16	17
DN																	
1	Numero di sezioni																
	1 Sezioni				3 Sezioni				5 Sezioni								
	2 Sezioni				4 Sezioni				6 Sezioni								
2	Opzioni generali																
	N Nessuna				Z Zincatura				B Alimentatore e verniciatura nera								
	V Verniciatura nera				A Alimentatore				E Alimentatore e zincatura								
3	Tipo di entrata																
	S Sinistra (standard)				D Destra												
4	Filettatura bocca P																
	O Non lavorata				B 1/2" GAS ISO 1179				C M18x1,5 ISO 9974				P 9/16" - 18 SAE ISO 11926				
	L 1/4" GAS ISO 1179				3 M14x1,5 ISO 9974				I M16x1,5 ISO 6149				E 3/4" - 16 SAE ISO 11926				
	A 3/8" GAS ISO 1179				T M16x1,5 ISO 9974				W M18x1,5 ISO 6149								
5	Filettatura bocca P1																
	O Non lavorata				B 1/2" GAS ISO 1179				C M18x1,5 ISO 9974				P 9/16" - 18 SAE ISO 11926				
	L 1/4" GAS ISO 1179				3 M14x1,5 ISO 9974				I M16x1,5 ISO 6149				E 3/4" - 16 SAE ISO 11926				
	A 3/8" GAS ISO 1179				T M16x1,5 ISO 9974				W M18x1,5 ISO 6149								
6	Opzioni su bocca P - P1																
	A P aperto - P1 aperto (standard)				C P tappato - P1 aperto				E P non lavorato - P1 aperto								
	B P aperto - P1 tappato				D P aperto - P1 non lavorato												
7 8	Tipo valvola di massima pressione																
	00 Tappo sostitutivo VMP				12 120 bar				19 190 bar				26 260 bar				
	06 60 bar				13 130 bar				20 200 bar				27 270 bar				
	07 70 bar				14 140 bar				21 210 bar				28 280 bar				
	08 80 bar				15 150 bar				22 220 bar				29 290 bar				
	09 90 bar				16 160 bar				23 230 bar				30 300 bar				
	10 100 bar				17 170 bar				24 240 bar								
	11 110 bar				18 180 bar				25 250 bar								
9	Tipo di terminale valvola di massima pressione																
	G Grano				P Sigillata				N Nessuna								
	C Cappuccio				R Predisposta sigillatura												
10	Filettatura bocche A e B																
	L 1/4" GAS ISO 1179				T M16x1,5 ISO 9974				W M18x1,5 ISO 6149								
	A 3/8" GAS ISO 1179				C M18x1,5 ISO 9974				P 9/16" - 18 SAE ISO 11926								
	B 1/2" GAS ISO 1179				I M16x1,5 ISO 6149				E 3/4" - 16 SAE ISO 11926								
11	Tipo di sezione																
	A Parallelo (standard)																

18	19	20	21	22	23	24	25	26	27	28	29

12	Azionamenti															
	L	Standard kit portaleva	M	Manipolatore	H	Comando elettro-idraulico doppio effetto	I	Comando elettro-pneumatico semplice effetto bocca A	Z	Portaleva con limitatore di corsa	G	Manipolatore con blocca spoie	S	Comando elettro-idraulico semplice effetto bocca A	W	Comando elettro-pneumatico semplice effetto bocca B
	A	Senza portaleva, appendice standard	K	Comando idraulico	X	Comando elettro-idraulico semplice effetto bocca B			T	Predisposizione cavo lato azionamento	P	Pneumatico	U	Comando elettro-pneumatico doppio effetto		
13 14	Circuiti															
	01	Circuito	05	Circuito	10	Circuito	70	Circuito	03	Circuito	07	Circuito	17	Circuito		
	04	Circuito	08	Circuito	23	Circuito										
15	Opzioni spoie															
	A	Spola standard 25-50 l/min	C	Spola nichelata 25-50 l/min	N	Nessuna			B	Spola standard 10-25 l/min	D	Spola nichelata 10-25 l/min				
16 17	Posizionatore															
	NN	Nessuno	OE	Posizione neutra in 0	OR	Posizione neutra in 2	TR	Posizione neutra in 1	0A	Posizione neutra in 0	OF	Posizione neutra in 0	OS	Posizione neutra in 1	...	...
	0B	Posizione neutra in 0, detent in 1	0H	Detent in 2	NS	Posizione neutra in 0, detent in 3	...	Per la scelta, vedi capitolo dedicato	0C	Posizione neutra in 0, detent in 2	OL	Detent in 1	NT	Posizione neutra in 0, detent in 4		
	0D	Detent in 0, 1, 2	0Q	Detent in 1, 2	PS	Detent in 3, 1, 0, 2										
18 19	Tipo di valvola bocca A															
	00	Nessuna	09	VL 90 bar	15	VL 150 bar	21	VL 210 bar	TB	Lavorato tappato	10	VL 100 bar	16	VL 160 bar	22	VL 220 bar
	VB	Valvola di blocco pilotata	11	VL 110 bar	17	VL 170 bar	23	VL 230 bar	06	VL 60 bar	12	VL 120 bar	18	VL 180 bar	24	VL 240 bar
	07	VL 70 bar	13	VL 130 bar	19	VL 190 bar	25	VL 250 bar	08	VL 80 bar	14	VL 140 bar	20	VL 200 bar		
20 21	Tipo di valvola bocca B															
	00	Nessuna	09	VL 90 bar	15	VL 150 bar	21	VL 210 bar	TB	Lavorato tappato	10	VL 100 bar	16	VL 160 bar	22	VL 220 bar
	VB	Valvola di blocco pilotata	11	VL 110 bar	17	VL 170 bar	23	VL 230 bar	06	VL 60 bar	12	VL 120 bar	18	VL 180 bar	24	VL 240 bar
	07	VL 70 bar	13	VL 130 bar	19	VL 190 bar	25	VL 250 bar	08	VL 80 bar	14	VL 140 bar	20	VL 200 bar		
22	Opzioni leva															
	N	Nessuna	C	h 184 mm / 7,24 in	L	Dritta verticale	Y	Piegata 15° orizzontale	S	Senza leva	D	h 214 mm / 8,42 in	O	Piegata 15° verticale	Q	Piegata 30° orizzontale
	A	h 109 mm / 4,3 in	E	h 254 mm / 10 in	R	Piegata 30° verticale			B	h 134 mm / 5,28 in	F	h 304 mm / 11,97 in	M	Dritta orizzontale		
23	Posizioni leva															
	A	Dritta	C	Ruotata 180°	N	Nessuna			B	Ruotata 90° verso il P (entrata a destra)	D	Ruotata 90° verso il T				
24	Opzioni lato posizionatore															
	N	Nessuno	M	Doppio comando maschio	Y	Micro doppio effetto	O	Micro semplice effetto bocca B	C	Limitatore di corsa	T	Predisposizione cavo	P	Micro semplice effetto bocca A		

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Tensione e connettore

N Nessuno	A 12V DIN 43650	B 24V DIN 43650
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Filettatura bocca T

B 1/2" GAS ISO 1179	N M22x1,5 ISO 9974	J M22x1,5 ISO 6149	R 7/8" - 14 SAE ISO 11926
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Filettatura bocca T1

O Non lavorata	B 1/2" GAS ISO 1179	C M18x1,5 ISO 9974	P 9/16" - 18 SAE ISO 11926
L 1/4" GAS ISO 1179	3 M14x1,5 ISO 9974	I M16x1,5 ISO 6149	E 3/4" - 16 SAE ISO 11926
A 3/8" GAS ISO 1179	T M16x1,5 ISO 9974	W M18x1,5 ISO 6149	

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Opzioni su bocca T - T1

A T aperto - T1 aperto (Standard)	B T aperto - T1 tappato	C T tappato - T1 aperto	D T aperto - T1 non lavorato
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Opzioni a scarico

A Predisposizione carry-over (standard)	B Con carry-over bocca T
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