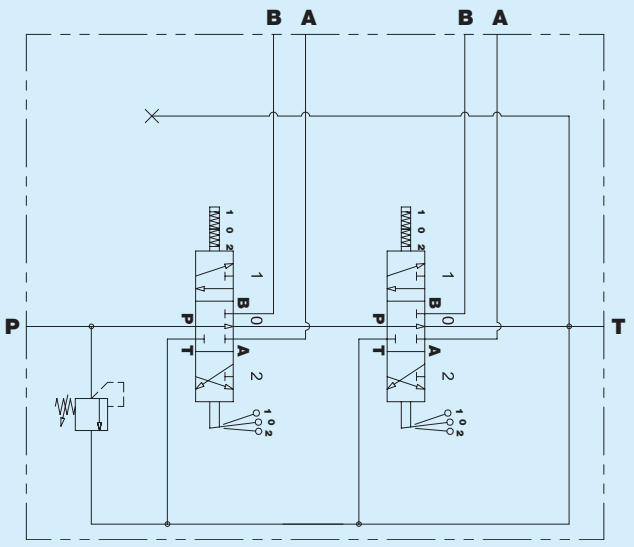
DNM35 - Valvola di controllo direzionale

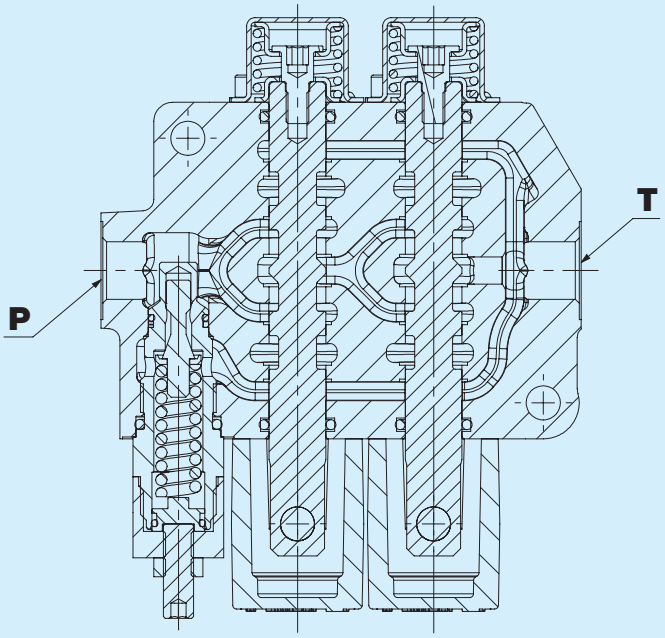
Prima di iniziare l'utilizzo leggere attentamente il documento ISTRUZIONI GENERALI D'IMPIEGO PER LE VALVOLE DI CONTROLLO DIREZIONALE

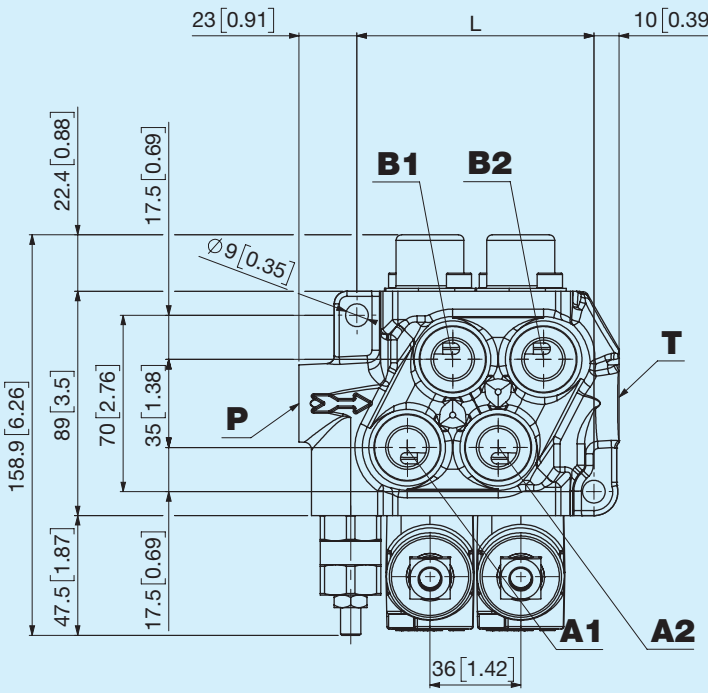
Portata nominale	**35 l/min** ***9,2 US gpm***
Pressione nominale	**250 bar** ***3625 psi***
Portata nominale in ingresso con azionamenti elettrici	**20 l/min** ***5,3 US gpm***
Pressione massima con azionamenti elettrici	**180 bar** ***2610 psi***
Contropressione massima a scarico	**50 bar** ***725 psi***
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**



Versione STANDARD

Sezionato



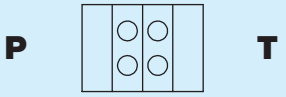


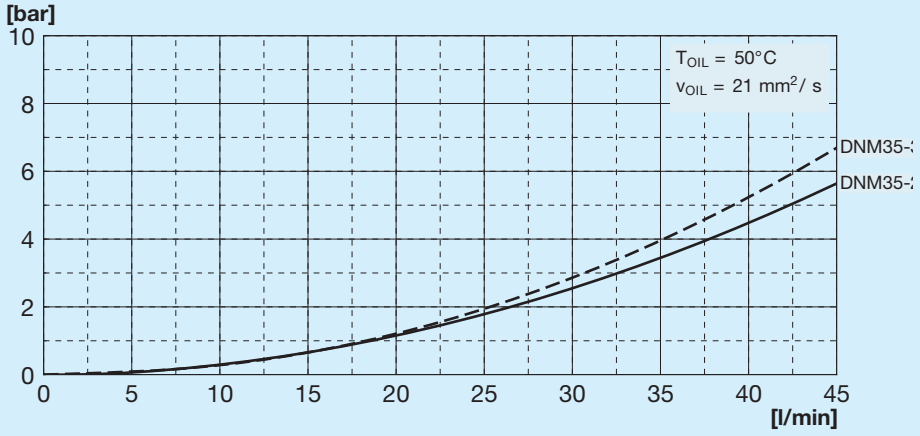
Standard

Dimensioni per numero di sezioni

Codice	N° sezioni	L		Massa	
		mm	in	kg	lb
2	2	94	3,7	3,5	7,7
3	3	130	5,1	4,9	10,8
4	4	166	6.5	6,3	13,9

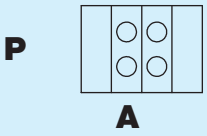
Curva caratteristica P-T

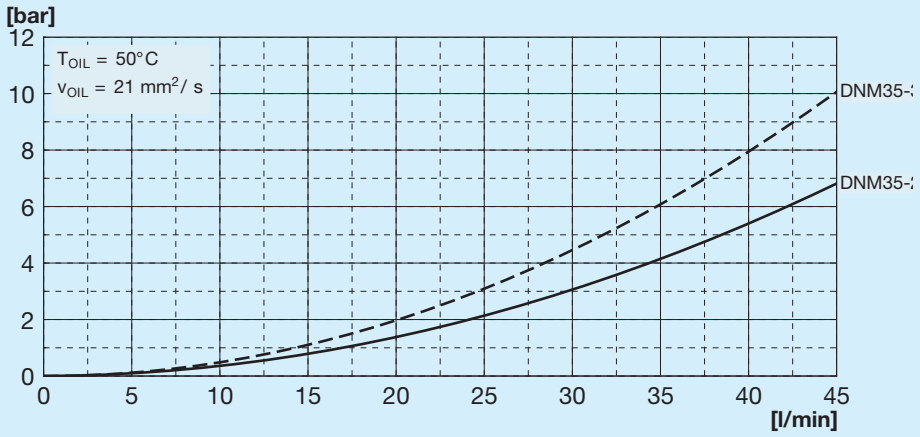




Parametri di prova: Circuito **01**

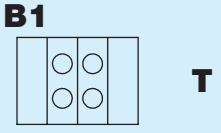
Curva caratteristica P-A

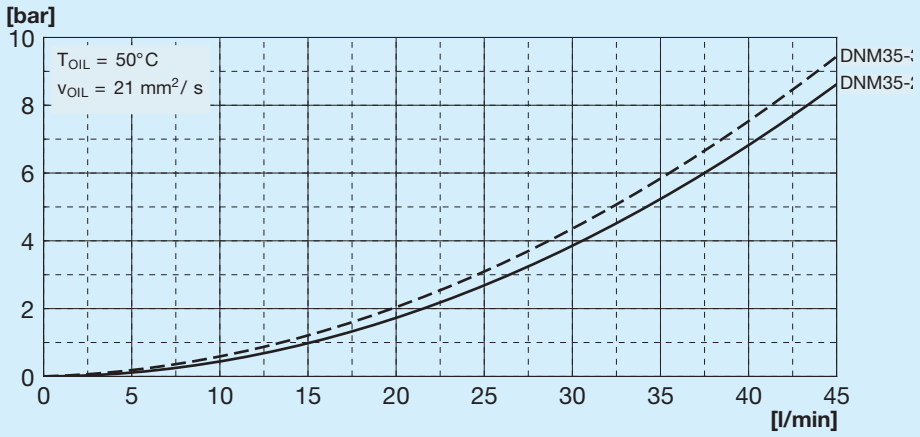




Parametri di prova: Circuito **01**

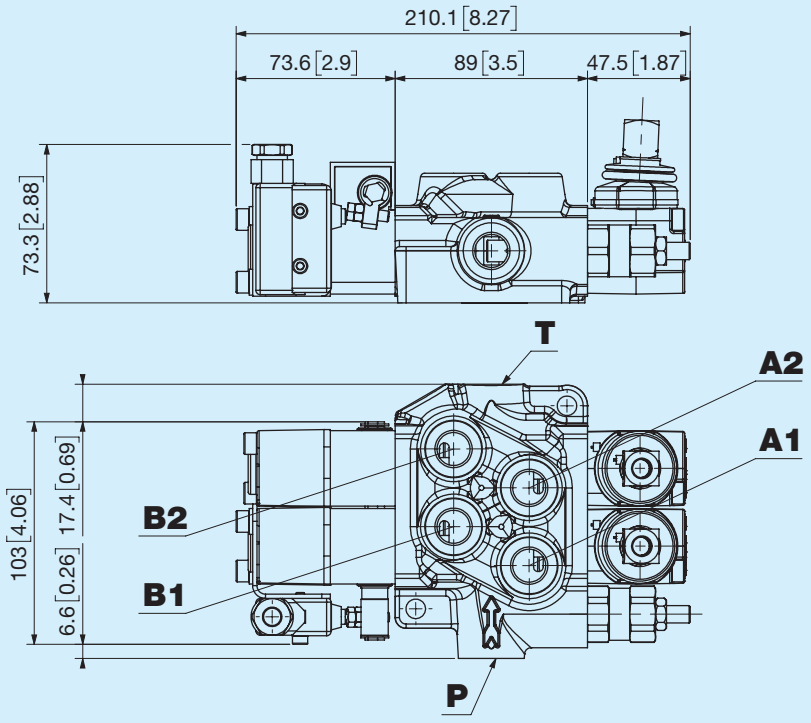
Curva caratteristica B1-T





Parametri di prova: Circuito **01**

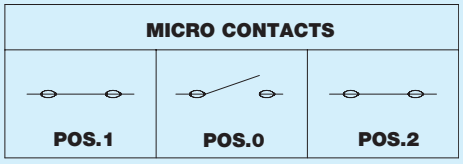
M Micro centrallizzato



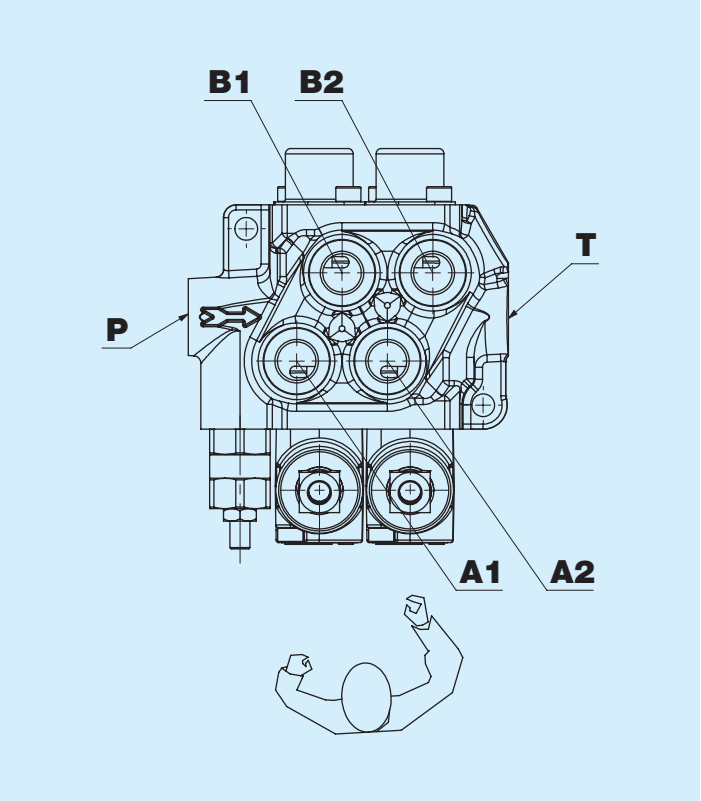
Caratteristiche posizionatore Micro

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° to 85° C
Vita meccanica attesa	10 milioni di cicli a 1 Hz
Isolamento	Fino a 100 MΩ

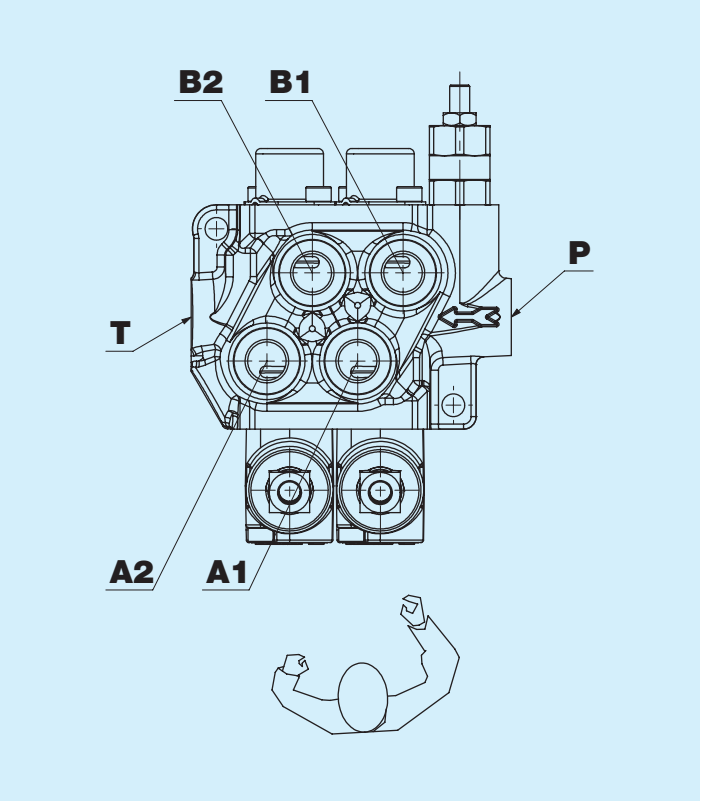
Micro doppio effetto



S Sinistra (standard)



D Destra



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

Filettatura bocche

Filettatura bocca P

Codice	Tipo	Serraggio ± 10% Nm
B	1/2'' GAS ISO 1179	70
A	3/8'' GAS ISO 1179	45
T	M16x1,5 ISO 9974	45
C	M18x1,5 ISO 9974	45
E	3/4'' - 16 SAE ISO 11926	45
P	9/16'' - 18 SAE ISO 11926	27

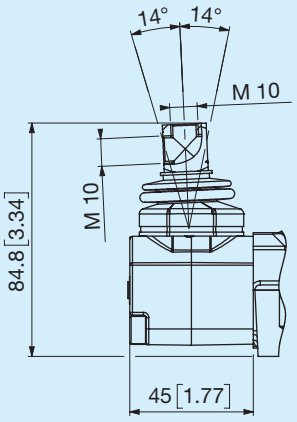
Filettatura bocche A - B

Codice	Tipo	Serraggio ± 10% Nm
B	1/2'' GAS ISO 1179	70
A	3/8'' GAS ISO 1179	45
T	M16x1,5 ISO 9974	45
C	M18x1,5 ISO 9974	45
E	3/4'' - 16 SAE ISO 11926	45
P	9/16'' - 18 SAE ISO 11926	27

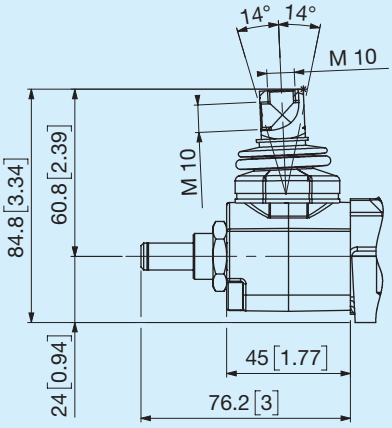
Filettatura bocche T - T1

Codice	Tipo	Serraggio ± 10% Nm
B	1/2'' GAS ISO 1179	70
A	3/8'' GAS ISO 1179	45
T	M16x1,5 ISO 9974	45
C	M18x1,5 ISO 9974	45
E	3/4'' - 16 SAE ISO 11926	45
P	9/16'' - 18 SAE ISO 11926	27

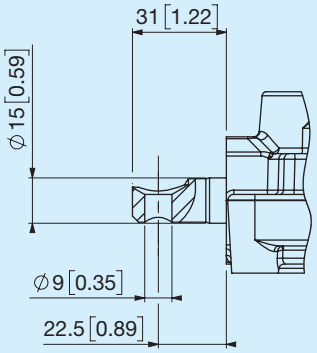
L Standard kit portaleva



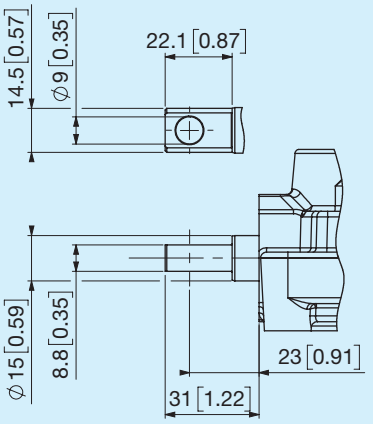
Z Portaleva con limitatore di corsa



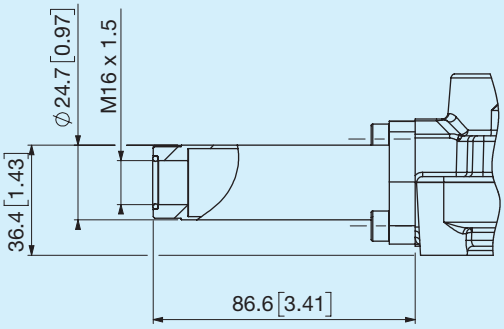
A Senza portaleva, appendice standard



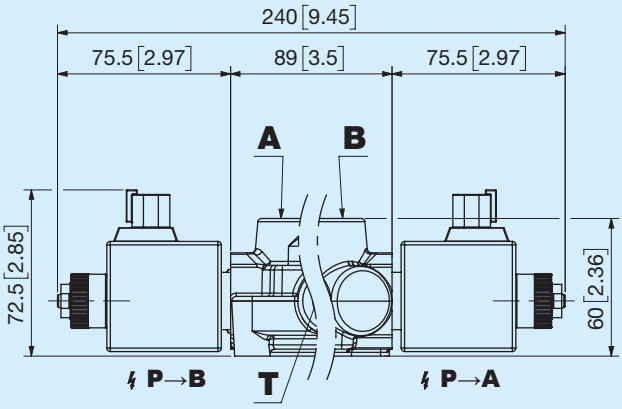
C Senza portaleva, appendice piatta



T Predisposizione cavo lato azionamento

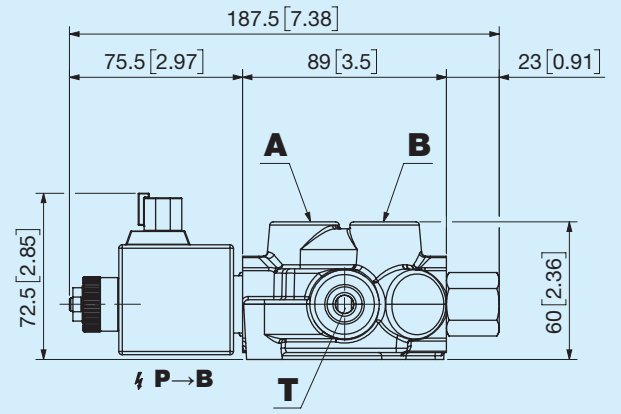


E Elettrico doppio effetto

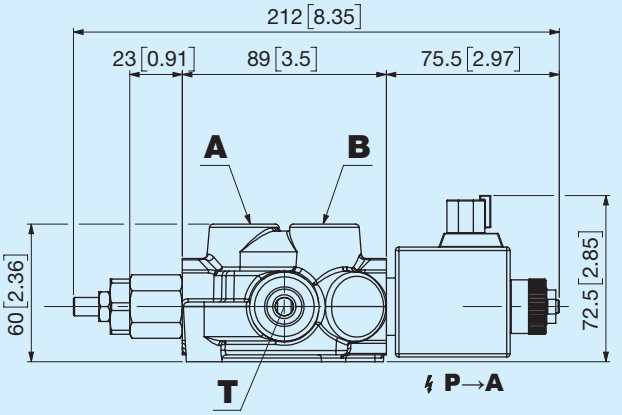


Tipo bobina	12V	24V	
Resistenza a 20°C	4	18	Ω (± 7%)
Corrente assorbita	3	1,2	A (± 5%)
Potenza	36	30	W (± 5%)

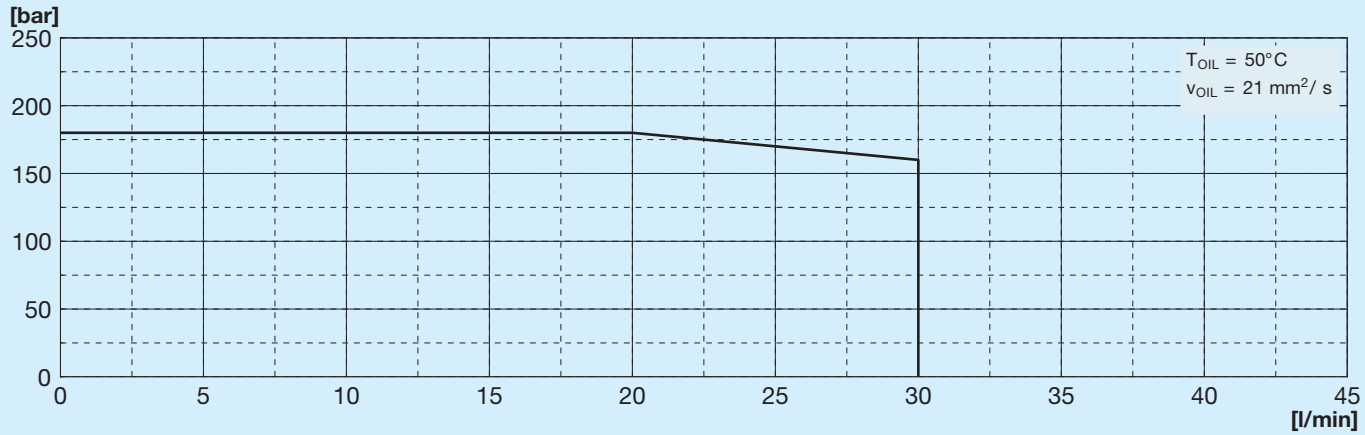
D Elettrico singolo effetto lato bocca A



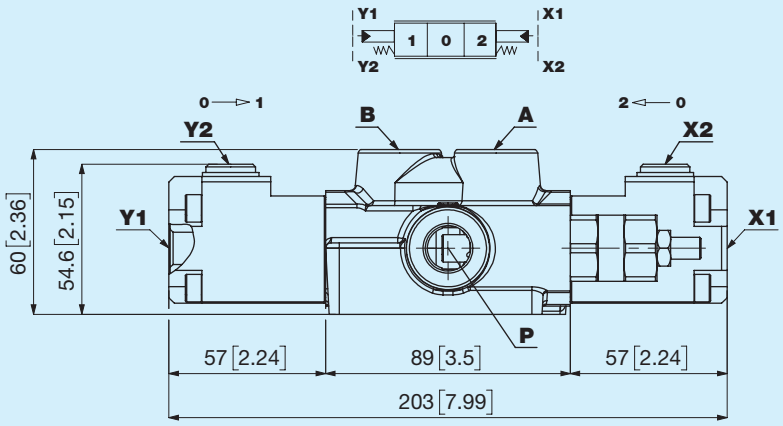
J Elettrico singolo effetto lato bocca B

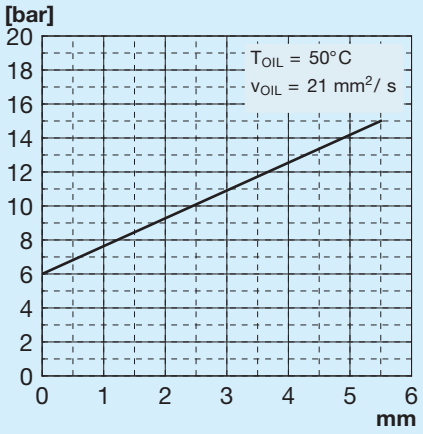


Limiti d'impiego azionamento elettrico

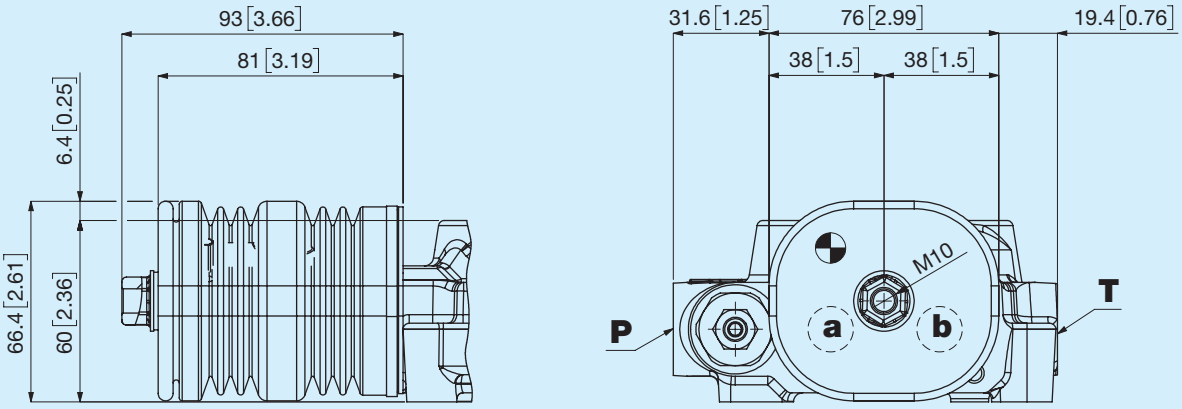


K Comando idraulico



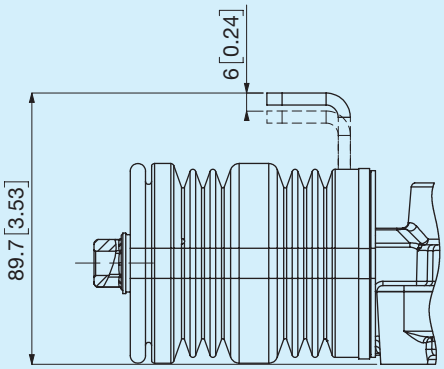


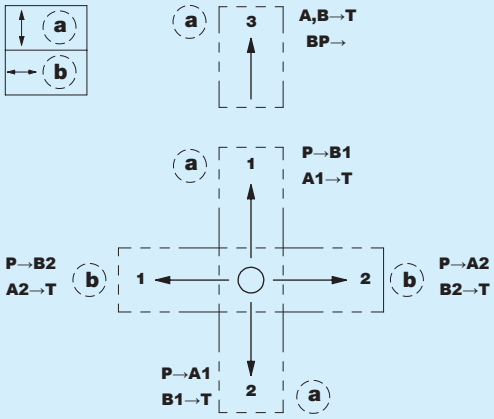
M Manipolatore



a = Spola 3ª sezione
b = Spola 4ª sezione

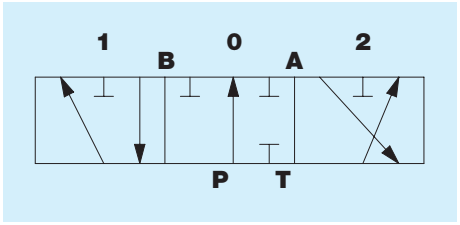
M Manipolatore con blocca spole





Disponibile anche in altre configurazioni.

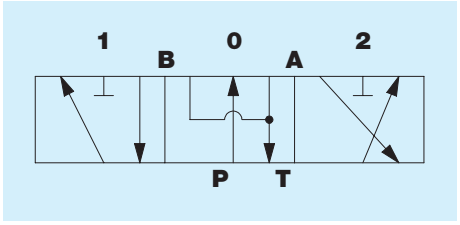
01 Circuito



Posizioni

3	1	0	2	4
	P → B A → T BP ⊣	P, T ⊣ A, B ⊣ BP →	P → A B → T BP ⊣	

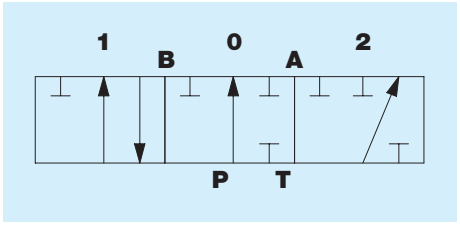
03 Circuito



Posizioni

3	1	0	2	4
	P → B A → T BP ⊣	A, B → T BP →	P → A B → T BP ⊣	

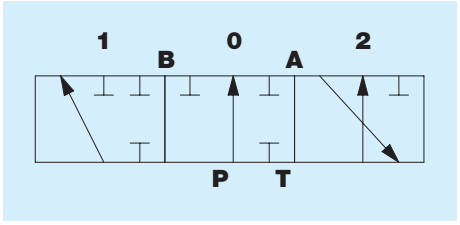
04 Circuito



Posizioni

3	1	0	2	4
	A → T B ⊣ BP →	A, B, T ⊣ BP →	P → A B, T ⊣ BP ⊣	

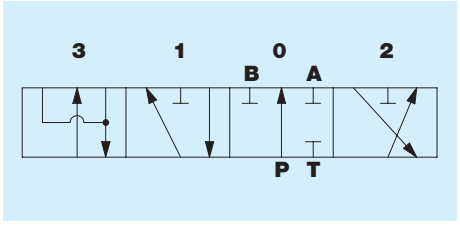
05 Circuito



Posizioni

3	1	0	2	4
	P → B A, T ⊣ BP ⊣	A, B, T ⊣ BP →	A ⊣ B → T BP →	

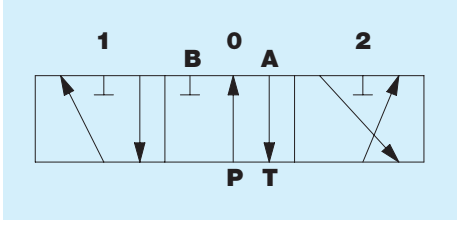
07 Circuito



Posizioni

3	1	0	2	4
A, B → T BP →	P → B A → T BP ⊣	A, B, T ⊣ BP →	P → A B → T BP ⊣	

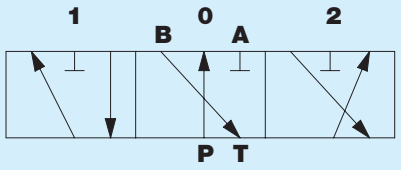
08 Circuito



Posizioni

3	1	0	2	4
	P → B A → T BP ⊣	B ⊣ A → T BP →	P → A B → T BP ⊣	

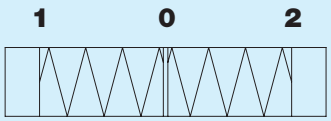
10 Circuito



Posizioni

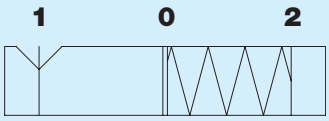
3	1	0	2	4
	P → B A → T BP ⊣	A ⊣ B → T BP →	P → A B → T BP ⊣	

0A



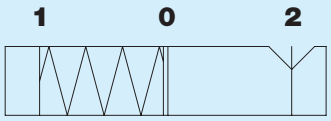
Posizione neutra in 0

0B



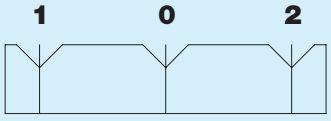
Posizione neutra in 0, detent in 1

0C



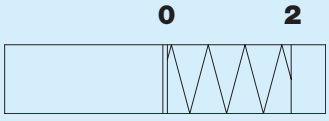
Posizione neutra in 0, detent in 2

0D



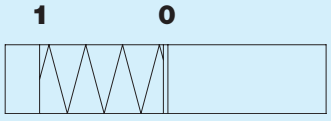
Detent in 0, 1, 2

0E



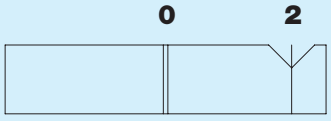
Posizione neutra in 0

0F



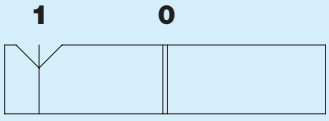
Posizione neutra in 0

0H



Detent in 2

0L



Detent in 1

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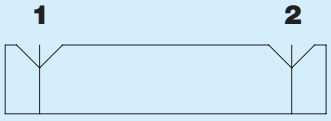
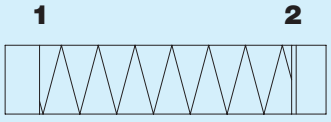


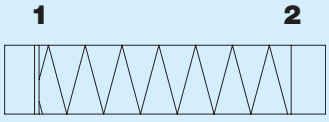
Detent in 1, 2

0R



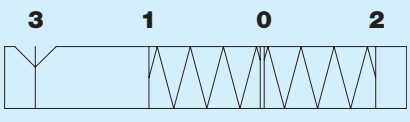
Posizione neutra in 2

0S



Posizione neutra in 1

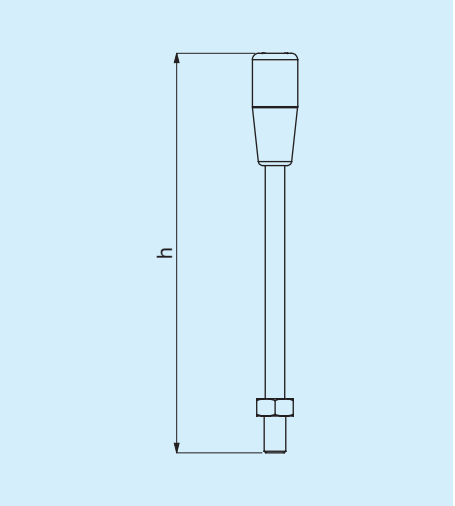
NS



Posizione neutra in 0, detent in 3

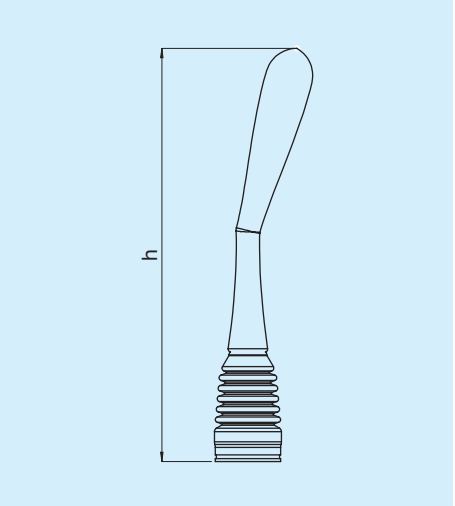
Dritta pomello standard

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

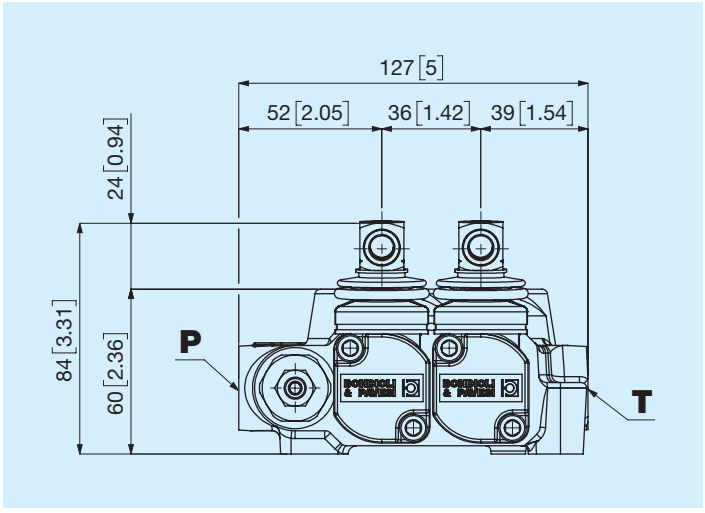


Leva ergonomica

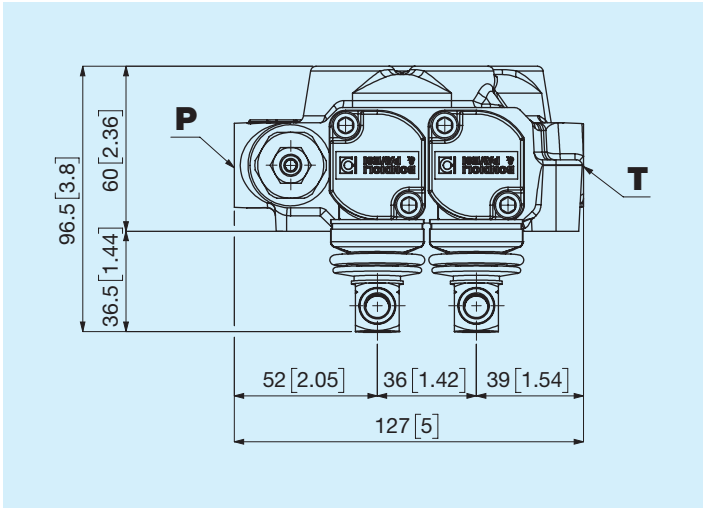
Codice	Descrizione	h [mm]	h [in]
L	Dritta verticale	180	7,09
O	Piegata 15° verticale	180	7,09
R	Piegata 30° verticale	180	7,09
M	Dritta orizzontale	180	7,09
Y	Piegata 15° orizzontale	180	7,09
Q	Piegata 30° orizzontale	180	7,09



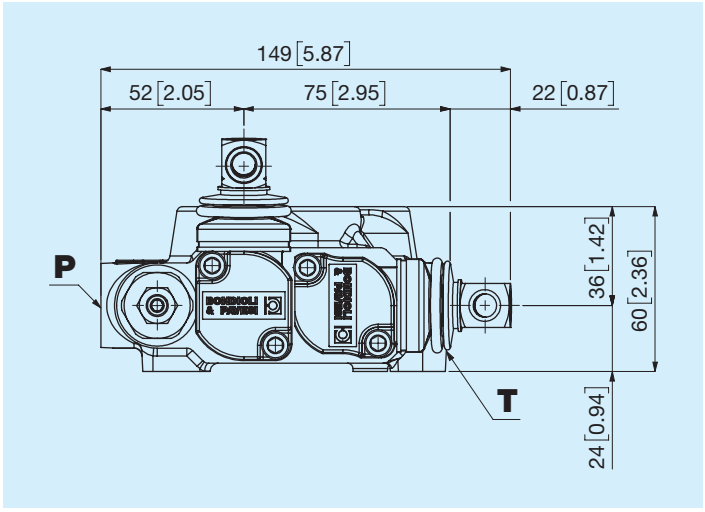
A Dritta



C Ruotata 180°

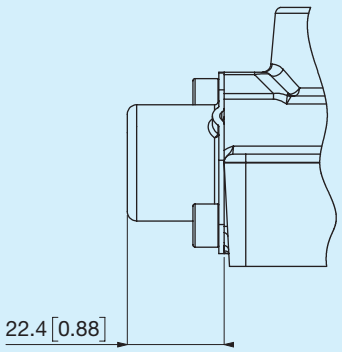


D Ruotata 90° verso il T

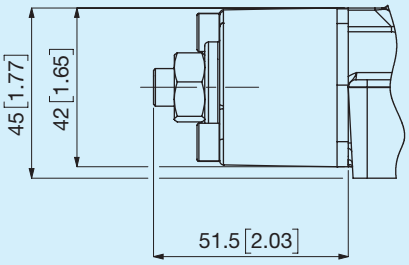


Opzioni lato posizionatore

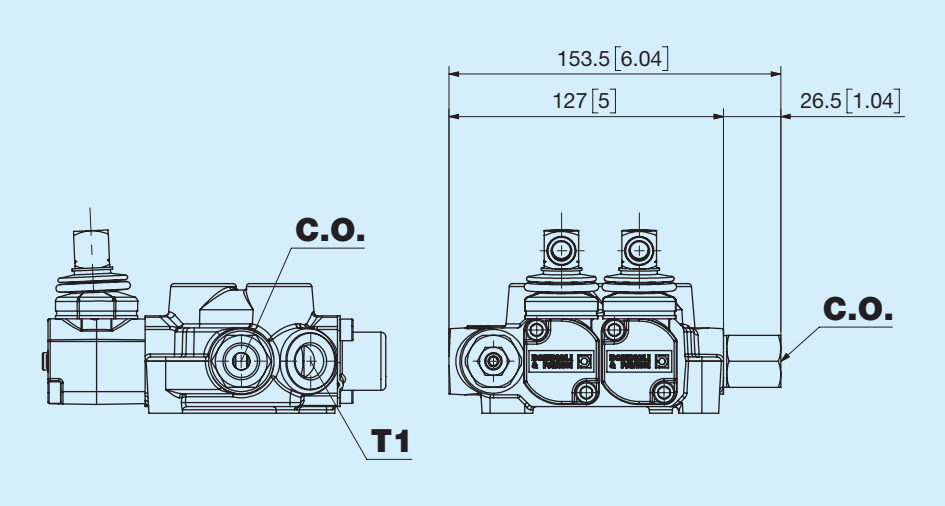
N Nessuno

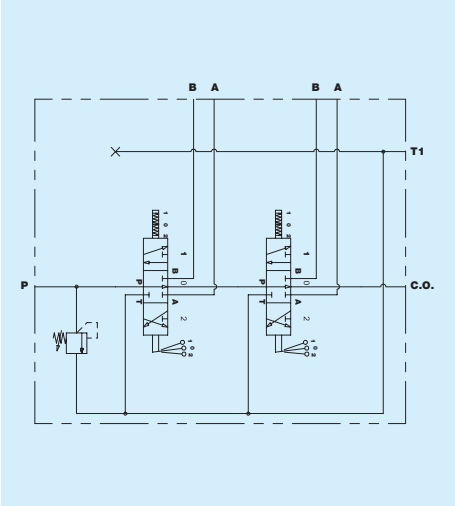


C Limitatore di corsa



C.O. - Carry Over





Filettatura bocca Carry Over

Codice	Tipo	Serraggio ± 10% Nm
0	Non lavorata	
A	3/8'' GAS ISO 1179	45
C	M18x1,5 ISO 9974	45
E	3/4'' - 16 SAE ISO 11926	45

DNM35	1	2	3	4	5 6	6	8	9	10	11 12	13	14 15	16

1

Numero di sezioni

2	Sezioni	**3**	Sezioni	**4**	Sezioni

2

Opzioni generali

N	Nessuna	**Z**	Zincatura	**O**	Micro centr. e verniciatura
V	Verniciatura nera	**M**	Micro centr.	**Y**	Micro centr. e zincatura

3

Tipo di entrata

S	Sinistra (standard)	**D**	Destra

4

Filettatura bocca P

A	3/8'' GAS ISO 1179	**T**	M16x1,5 ISO 9974	**E**	3/4'' - 16 SAE ISO 11926
B	1/2'' GAS ISO 1179	**C**	M18x1,5 ISO 9974	**P**	9/16'' - 18 SAE ISO 11926

5 6

Tipo valvola di massima pressione

00	Tappo sostitutivo VMP	**11**	110 bar	**17**	170 bar	**23**	230 bar
06	60 bar	**12**	120 bar	**18**	180 bar	**24**	240 bar
07	70 bar	**13**	130 bar	**19**	190 bar	**25**	250 bar
08	80 bar	**14**	140 bar	**20**	200 bar		
09	90 bar	**15**	150 bar	**21**	210 bar		
10	100 bar	**16**	160 bar	**22**	220 bar		

6

Tipo di terminale valvola di massima pressione

G	Grano	**P**	Sigillata	**N**	Nessuna

8

Filettatura bocche A e B

A	3/8'' GAS ISO 1179	**T**	M16x1,5 ISO 9974	**E**	3/4'' - 16 SAE ISO 11926
B	1/2'' GAS ISO 1179	**C**	M18x1,5 ISO 9974	**P**	9/16'' - 18 SAE ISO 11926

9

Tipo di sezione

T	Tandem (standard)

10

Azionamenti

N	Nessuno	**C**	Senza portaleva, appendice piatta	**E**	Elettrico doppio effetto	**K**	Comando idraulico
L	Standard kit portaleva	**Z**	Portaleva con limitatore di corsa	**D**	Elettrico singolo effetto lato bocca A	**M**	Manipolatore
A	Senza portaleva, appendice standard	**T**	Predisposizione cavo lato azionamento	**J**	Elettrico singolo effetto lato bocca B	**G**	Manipolatore con blocca spole

11 12

Circuiti

01	Circuito	**04**	Circuito	**07**	Circuito	**10**	Circuito
03	Circuito	**05**	Circuito	**08**	Circuito		

13

Opzioni spola

A	Spola standard con ricoprimento negativo	**B**	Spola nichelata con ricoprimento negativo	**C**	Spola standard con ricoprimento positivo	**D**	Spola nichelata con ricoprimento positivo

17 18 19 20 21 22

14 15

Posizionatore

NN	Nessuno	**0D**	Detent in 0, 1, 2	**0L**	Detent in 1	**NS**	Posizione neutra in 0, detent in 3
0A	Posizione neutra in 0	**0E**	Posizione neutra in 0	**0Q**	Detent in 1, 2	**...**	
0B	Posizione neutra in 0, detent in 1	**0F**	Posizione neutra in 0	**0R**	Posizione neutra in 2	**...**	Per la scelta, vedi capitolo dedicato
0C	Posizione neutra in 0, detent in 2	**0H**	Detent in 2	**0S**	Posizione neutra in 1		

16

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		

17

Posizione portaleva

A	Dritto	**C**	Ruotato 180°	**N**	Nessuno
B	Ruotato 90° verso il P (entrata a destra)	**D**	Ruotato 90° verso il T		

18

Opzioni lato posizionatore

N	Nessuno	**C**	Limitatore di corsa

19

Tensione e connettore

N	Nessuno	**B**	24V DIN 43650	**H**	24V DEUTSCH DT04-2P
A	12V DIN 43650	**G**	12V DEUTSCH DT04-2P		

20

Filettatura bocca T

A	3/8'' GAS ISO 1179	**T**	M16x1,5 ISO 9974	**E**	3/4'' - 16 SAE ISO 11926
B	1/2'' GAS ISO 1179	**C**	M18x1,5 ISO 9974	**P**	9/16'' - 18 SAE ISO 11926

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Filettatura bocca Carry Over

0	Non lavorata	**A**	3/8'' GAS ISO 1179	**C**	M18x1,5 ISO 9974	**E**	3/4'' - 16 SAE ISO 11926

22

Opzioni su bocca T - C.O.

A	T aperto - C.O. non lavorato (standard)	**B**	T1 aperto - C.O. aperto	**C**	T1 aperto - C.O. tappato	**D**	T1 aperto - T predisposto C.O.