

Part number:

HYDROMA

HYDRAULICKÉ SYSTÉMY

**HIDROMA
SYSTEMS**

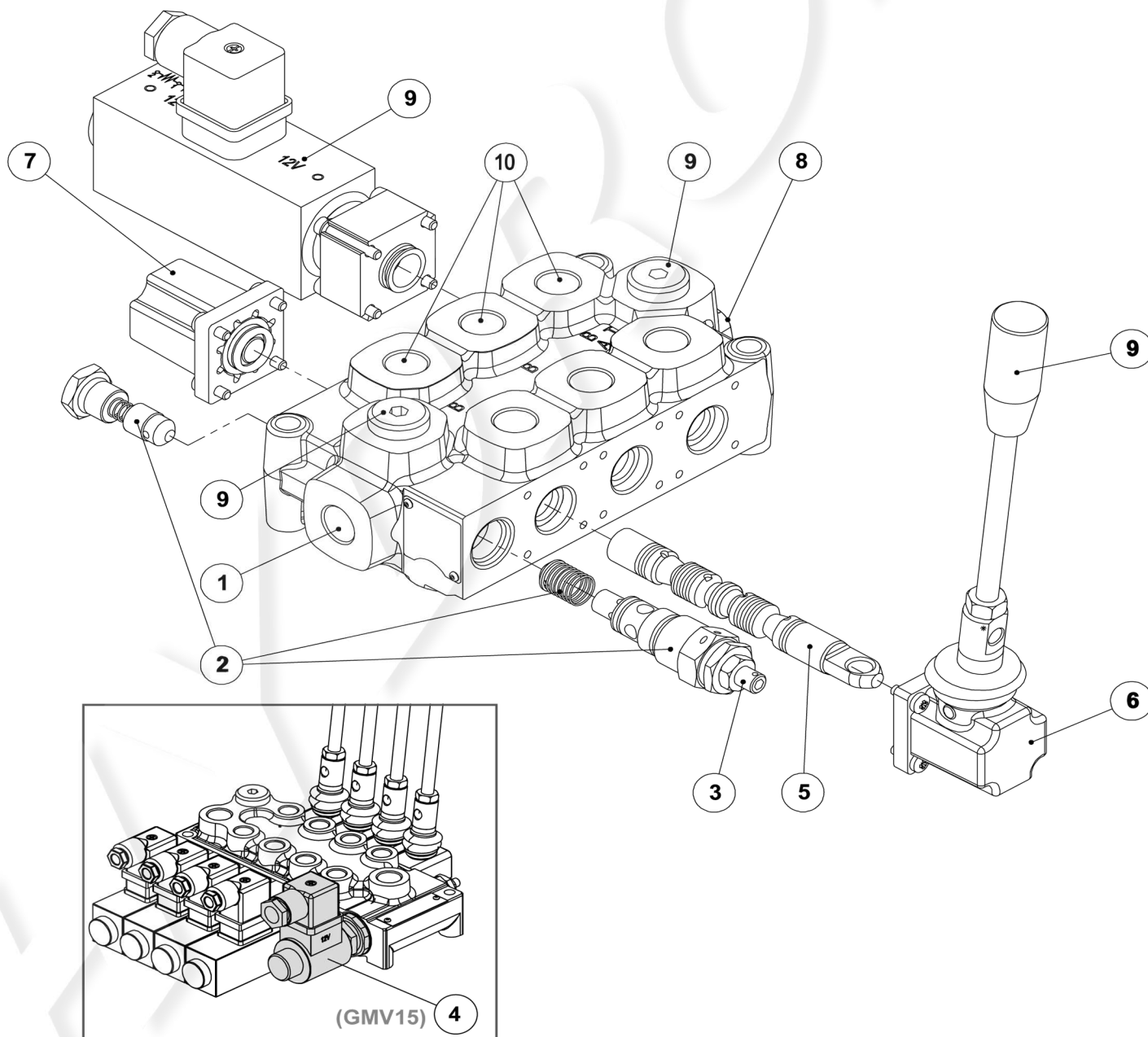
UKŁADY HYDRAULICZNE

HYDROMA

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

**ESEMPIO DI ORDINAZIONE IN CODICE
ORDERING CODE EXAMPLE**

Tipo Type	Fiancata d'ingresso <i>Inlet section</i>				Sezione di lavoro <i>Working section</i>			Fiancata di scarico <i>Outlet section</i>	Note aggiuntive <i>Additional notes</i>	
Q25	F7S	R250	MSE	2x	103	A1	M1	F3D	12V	2E
1	2	3	4		5	6	7	8	9	10



ESEMPIO DI ORDINAZIONE IN CODICE ORDERING CODE EXAMPLE

Tipo

1 - Tipo
Q35, Q15, GMV15, Q25, Q45, Q65, Q75, Q95

Indica il tipo di distributore; le caratteristiche dimensionali sono riportate da pag. A6 a pag. A21.

Type

1 - Type
Q35, Q15, GMV15, Q25, Q45, Q65, Q75, Q95

Indicates model valve, characteristics and dimensions found on pages A6 to page A21.

Fiancata d'ingresso

2 - Tipo fiancata d'ingresso (pag. A-22)

3 - Tipo molla e taratura valvola (pag. A-22)

Dove è presente la valvola VLP (fiancate F1S e F7S), deve essere specificato il tipo di molla (**B, N o R**) e la sua pressione di taratura; se quest'ultima viene omessa verrà montata la molla N tarata a **150 bar**.

4 - Valvole aggiuntive alla fiancata di ingresso (pag. A-23).

Inlet section

2 - Inlet section type (page A-22)

3 - Type of spring and valve setting (page A-22)

*If valve VLP is installed (inlet section F1S and F7S), specify the type of spring (**B, N or R**) and its pressure setting. If omitted, spring N with a **150 bar** setting will be installed.*

4 - Additional valves on the inlet section (page A-23)

Sezione di lavoro

I campi da 4 a 6 sono da ripetere per ogni sezione. Nel caso in cui due sezioni contigue siano identiche, è sufficiente descriverne solo una anteposendo **2x** al campo 4.

N.B. Il numero massimo complessivo di sezioni di lavoro sono indicate a pag. A3.

5 - Tipo cursore (pag. A-24)

6 - Tipo di comando (pag. A-28, A-32)

7 - Tipo posizionatore (pag. A-35)

Working section

*Fields 4 to 6 must be repeated for each section. If two adjacent sections are identical, just describe one and put **2x** before field 4.*

NOTE. The maximum overall number of working sections is indicated on page A3.

4 - Spool type (page A-24)

5 - Control type (page A-28, A-32)

6 - Positioner type (page A-35)

Fiancata di scarico

8 - Tipo fiancata di scarico (pag. A-62)

Outlet section

7 - Outlet section type (page A-62)

Note aggiuntive

9 - Note aggiuntive (pag. A-63)

10 - Numero elementi (pag. A-63)

Specificare il numero delle sezioni di lavoro (es. 2E) previste.

Additional notes

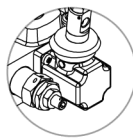
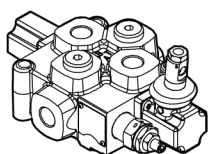
8 - Additional notes (page A-63)

9 - Number of sections (page A-63)

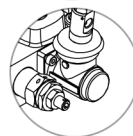
Specify the number of working sections needed (e.g. 2E).

Q25

DISTRIBUTORI MONOBLOCCO MONOBLOCK DIRECTIONAL CONTROL VALVES

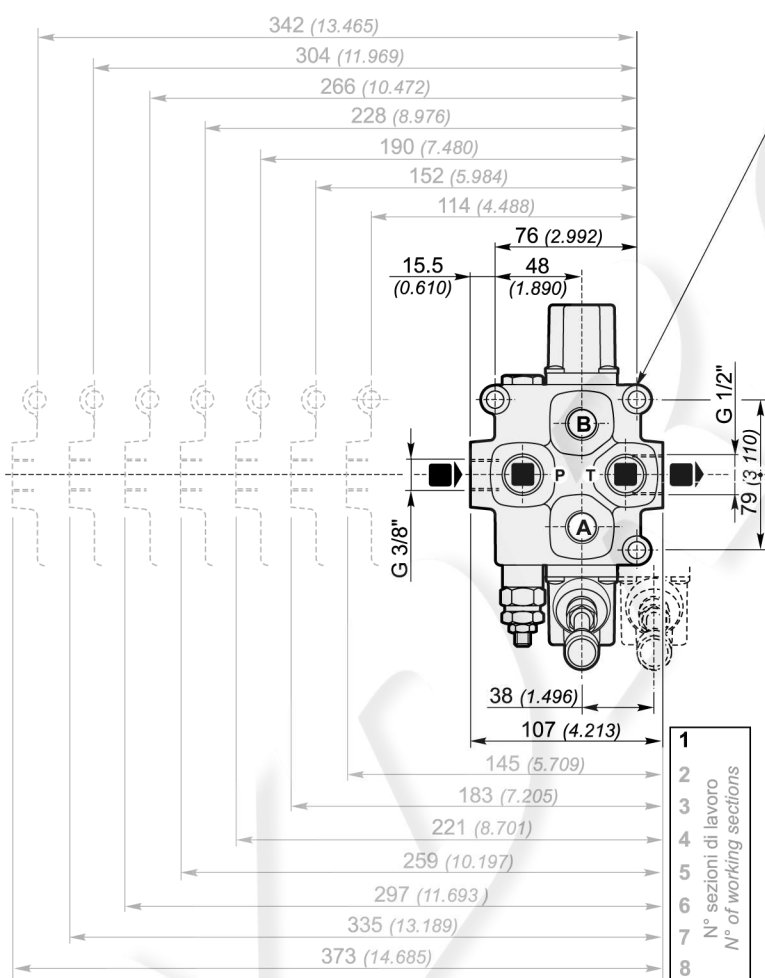


(Standard)
Comando e posizionate in plastica
Control and positionner plastic

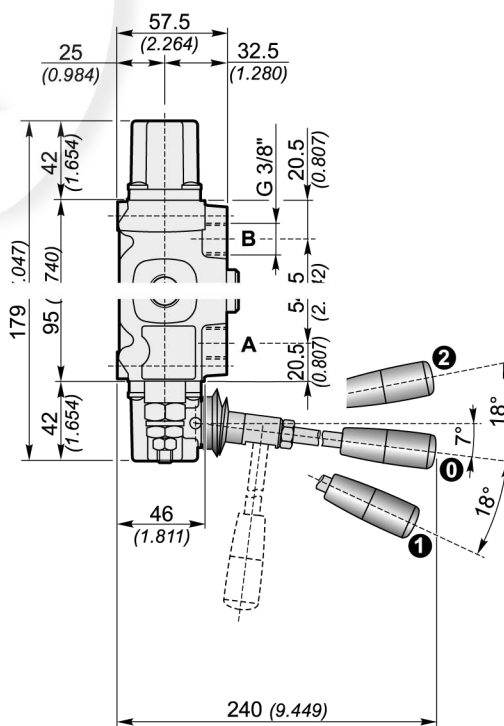


S
Comando e posizionate in Alluminio
Control and positionner Aluminium

Q25 — F7S R250 — 2x 103 A1 M1 — F3D — **S** — 1E
1 2 3 4 5 6 7 8 9



n°3 fori di fissaggio $\varnothing 9$
n°3 mounting holes $\varnothing 9$



Q25 — F7S R250 — 2x 103 A1 M1 — F3D — 12V — 2E
1 2 3 5 6 7 8 9 10

Filettature disponibili / Available ports

Bocche Ports	BSP (standard)	SAE
P1	G 3/8"	9/16" - 18UNF (SAE 6)
P2	G 3/8"	9/16" - 18UNF (SAE 6)
A-B	G 3/8"	9/16" - 18UNF (SAE 6)
T1	G 1/2"	7/8" - 14UNF (SAE 10)
T2	G 3/8"	9/16" - 18UNF (SAE 6)

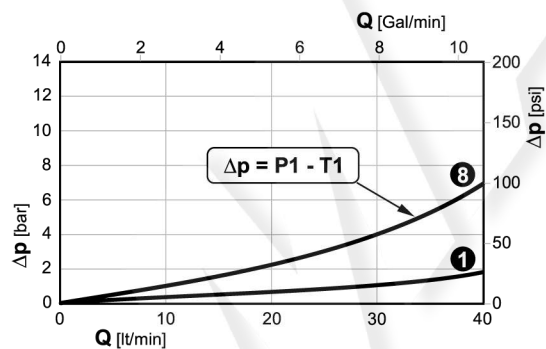
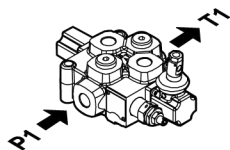
Tappo per carry-over (su uscita T1)
Carry-over plug (on T1 port)

	T1		X	
	G 1/2"	7/8"-14UNF (SAE 10)	G 3/8" G 1/2"	3/4" - 16UNF (SAE 8)

Dimensioni in / Dimensions in: mm (inch)

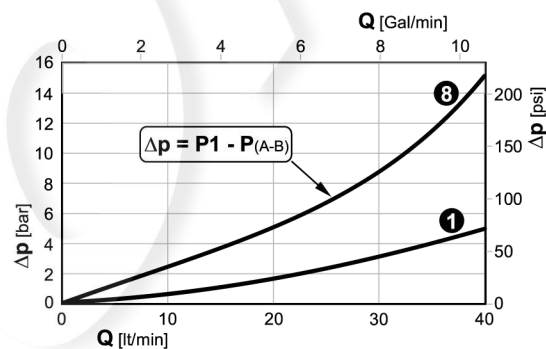
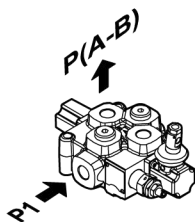
Perdite di carico con il cursore in posizione neutra
(Δp in funzione del numero di sezioni attraversate)

Pressure drop with spool in neutral position
(Δp depending on the number of the crossed sections)



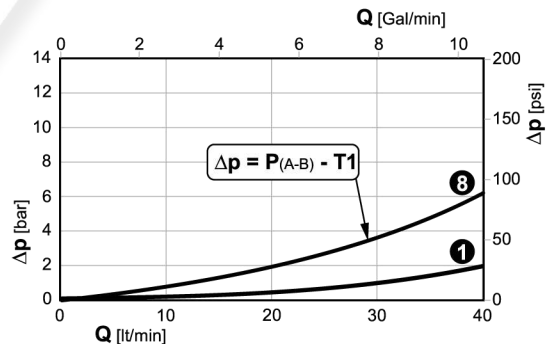
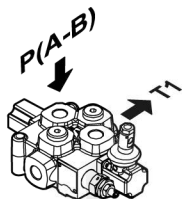
Perdite di carico con il cursore in posizione di lavoro
(Δp in funzione del numero di sezioni attraversate)

Pressure drop with spool in working position
(Δp depending on the number of the crossed sections)



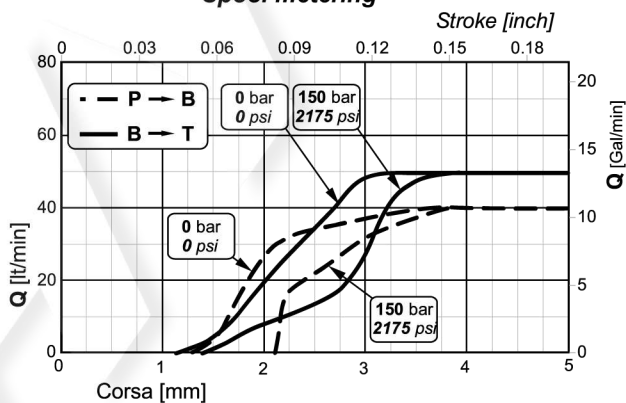
Perdite di carico con il cursore in posizione di lavoro
(Δp in funzione del numero di sezioni attraversate)

Pressure drop with spool in working position
(Δp depending on the number of the crossed sections)

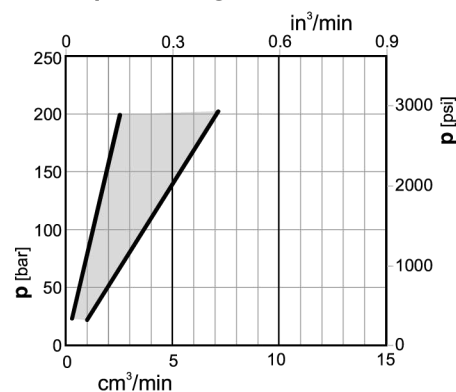


1 8 Sezioni / Sections

Curve di progressività
Spool metering



Trafilamenti sul cursore
Spool leakage



N.B. Le curve sono ricavate con cursore 103 / NOTE. Performance curves measured using spool 103 type.

Fiancata d'ingresso

Inlet section

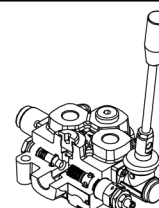
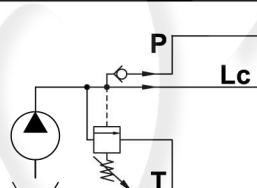


2 - Tipo fiancata d'ingresso / Inlet section type

	Q35	Q15	GMV 15	Q25	Q45	Q65	Q75	Q95
F1S			•	•	•		•	•
F2S			•	•	•		•	•
F7S	•	•	•	•	•	•	•	•
F8S	•	•	•	•	•	•	•	•

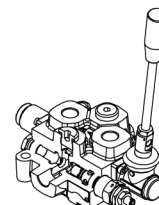
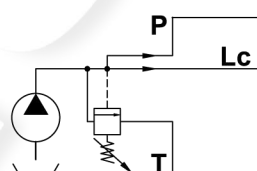
F1S F1S/SAE

Collettore di entrata con valvola di ritegno VR e valvola limitatrice di pressione VLP
Inlet section with check (VR) and relief valves VLP



F7S

Collettore di entrata con valvola limitatrice di pressione VLP
Inlet section with relief valve VLP



3 - Tipo molla e taratura valvola

Dove è presente la valvola VLP (fiancate F1S e F7S), deve essere specificato il tipo di molla (**B**, **N** o **R**) e la sua pressione di taratura; **se quest'ultima viene omessa, verrà messa la molla N tarata a 150 bar.**

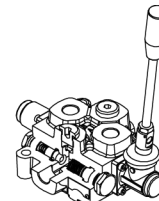
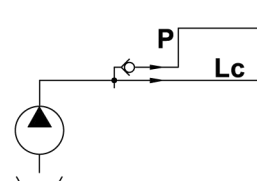
3 - Type of spring and valve setting

If valve VLP is installed (inlet section F1S and F7S), specify the type of spring (**B**, **N** or **R**) and its pressure setting. **If omitted, spring N with a 150 bar setting will be installed.**

			molla bianca white spring	molla nera black spring	molla rossa red spring
R	Tipo di molla per la VLP Type of spring for relief valve		B	N	R
Campi di taratura / Calibration fields bar (psi)					
250	Taratura della VLP VLP Setting	35S / 65S / 105S	10 ÷ 80 (145 ÷ 1160)	81 ÷ 200 (1175 ÷ 2900)	201 ÷ 380 (2915 ÷ 5510)
		15S	0 ÷ 120 (0 ÷ 1740)	100 ÷ 280 (1450 ÷ 2900)	—

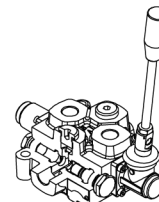
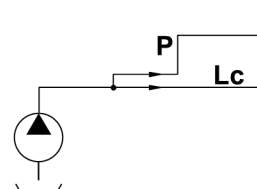
F2S

Collettore di entrata con valvola di ritegno VR
Inlet sections with check valve VR



F8S

Collettore di entrata senza valvole
Inlet section without valves



Working section

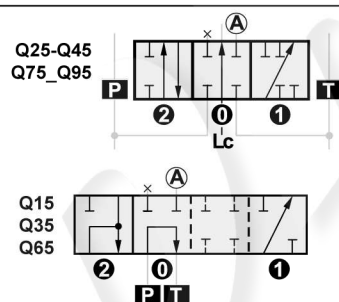


Cursori / Spools

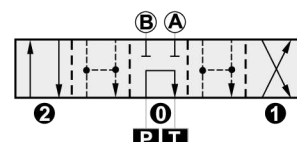
Cursori / Spools			Q35	Q15	GMV 15	Q25	Q45	Q65	Q75	Q95
101	Semplice effetto in A	Single acting in A port	●	●	●	●	●	●	●	●
102	Semplice effetto in B	Single acting in B port	●	●	●	●	●	●	●	●
103	Doppio effetto, A e B chiusi in posizione 0	Double acting A and B closed in 0 position	●	●	●	●	●	●	●	●
103RN	Doppio effetto a ricoprimento negativo	Double acting with negative overlap	●	●				●		
106	Doppio effetto, passaggi chiusi in posizione 0	Double acting, ports closed in 0 position				●	●		●	●
107	Doppio effetto, A in T e B chiuso in posizione 0	Double acting, A to T and B closed in 0 position				●	●		●	●
108	Doppio effetto, B in T e A chiuso in posizione 0	Double acting, B to T and A closed in 0 position				●	●		●	●
109	Semplice effetto in A, A in T in posizione 0	Single acting in A, A to T in 0 position				●	●		●	●
110	Semplice effetto in B, B in T in posizione 0	Single acting in B, B to T in 0 position				●	●		●	●
111	Doppio effetto, A e B in T in posizione 0	Double acting, A and B to T in 0 position	●	●	●	●	●	●	●	●
114	Doppio effetto, A e B in T e Lc chiusa in posizione 0	Double acting, A and B to T and through passage closed in 0 position				●	●		●	●
116*	Doppio effetto con 4ª posizione flottante	Double acting with 4th position floating		●	●	●	●		●	●
126*	Doppio effetto con 4ª posizione flottante	Double acting with 4th position floating			●	●	●		●	●

Cursore Spoofs	Applicabile con: / <i>Applicable with:</i>	
	Comando / <i>Control</i>	Posizionatore / <i>Positioner</i>
116	A1-Z1 / A2-Z1 / A4-Z1 / A6-Z1 / A8-Z1	R8
126	A1 / A2 / A4 / A5 / A6 / A8 / SL / SLA15 / A15 / A16	R10-Z1

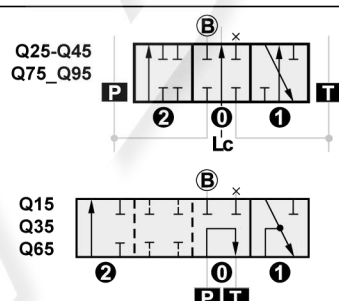
Semplice effetto in A
Single acting in A port



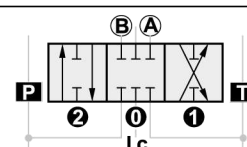
Doppio effetto a ricoprimento negativo
Double acting with negative overlap



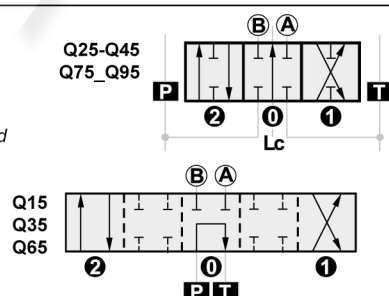
Semplice effetto in B
Single acting in B port



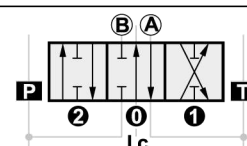
Doppio effetto, passaggi chiusi
in posizione 0
*Double acting, ports closed
in 0 position*



Doppio effetto, A e B chiusi
in posizione 0
Double acting, A and B closed
in 0 position



Doppio effetto, A in T e B chiuso
in posizione 0
*Double acting, A to T and B closed
in 0 position*



Sezione di lavoro

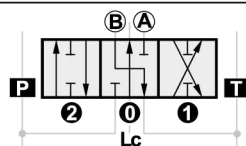
Working section



Cursori / Spools

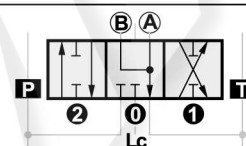
108

Doppio effetto, B in T e A chiuso
in posizione 0
Double acting, B to T and A closed
in 0 position



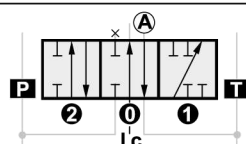
114

Doppio effetto, A e B in T e
Lc chiusa in posizione 0
Double acting, A and B to T and
through passage closed in 0 position



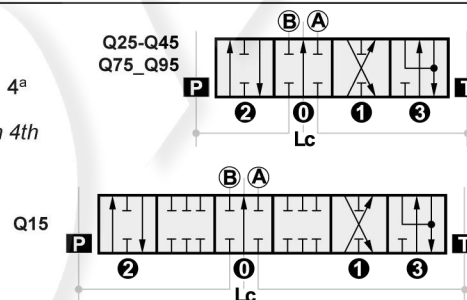
109

Semplice effetto in A, A in T
in posizione 0
Single acting in A, A to T
in 0 position



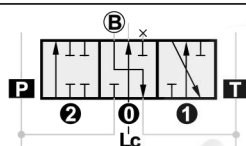
116

Doppio effetto con 4^a
posizione flottante
Double acting with 4th
position floating



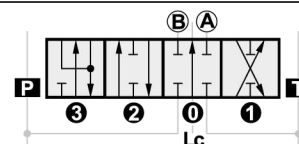
110

Semplice effetto in B, B in T
in posizione 0
Single acting in B, B to T
in 0 position



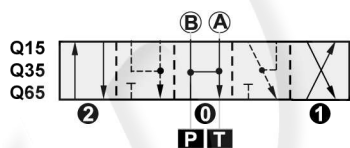
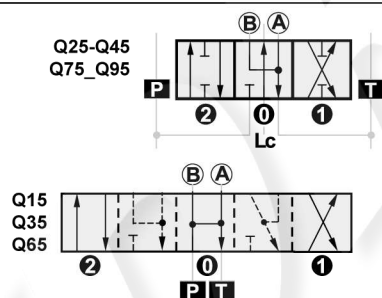
126

Doppio effetto con 4^a
posizione flottante
Double acting with 4th
position floating



111

Doppio effetto, A e B in T
in posizione 0
Double acting, A and B to T
in 0 position



Sezione di lavoro

Working section

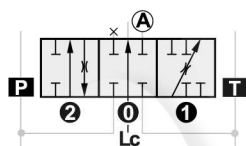
Q25	F7S	R250	2x	103	A1	M1	F3D	12V	2E
1	2	3		5	6	7	8	9	10

Cursori sensibilizzati / Sensitized spools

			Q35	Q25	Q45	Q75	Q95
101.20	Semplice effetto in A	Single acting in A port		•	•	•	•
102.20	Semplice effetto in B	Single acting in B port		•	•	•	•
103.05	Doppio effetto, A e B chiusi in posizione 0	Double acting, A and B closed in 0 position		•	•	•	•
103.10	Doppio effetto, A e B chiusi in posizione 0	Double acting, A and B closed in 0 position				•	•
103.20	Doppio effetto, A e B chiusi in posizione 0	Double acting, A and B closed in 0 position		•	•		
103.25	Doppio effetto, A e B chiusi in posizione 0	Double acting, A and B closed in 0 position		•	•		
103.30	Doppio effetto, A e B chiusi in posizione 0	Double acting, A and B closed in 0 position				•	•
103.40	Doppio effetto, A e B chiusi in posizione 0	Double acting, A and B closed in 0 position		•	•		
107.20	Doppio effetto, A in T e B chiuso in posizione 0	Double acting, A to T and B closed in 0 position		•	•		
108.20	Doppio effetto, B in T e A chiuso in posizione 0	Double acting, B to T and A closed in 0 position		•	•		
111.05	Doppio effetto, A e B in T in posizione 0	Double acting, A and B to T in 0 position		•	•		
111.10	Doppio effetto, A e B in T in posizione 0	Double acting, A and B to T in 0 position				•	•
111.20	Doppio effetto, A e B in T in posizione 0	Double acting, A and B to T in 0 position		•	•		
111.25	Doppio effetto, A e B in T in posizione 0	Double acting, A and B to T in 0 position		•	•		
111.30	Doppio effetto, A e B in T in posizione 0	Double acting, A and B to T in 0 position				•	•
111.40	Doppio effetto, A e B in T in posizione 0	Double acting, A and B to T in 0 position		•	•		

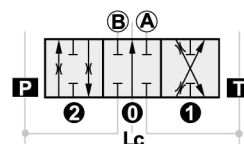
101.20

Semplice effetto in A
Single acting in A port



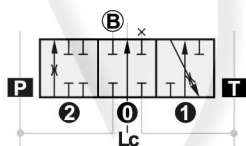
103.20

Doppio effetto, A e B chiusi
in posizione 0
Double acting, A and B closed
in 0 position



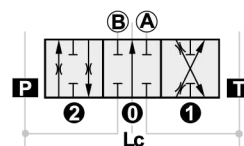
102.20

Semplice effetto in B
Single acting in B port



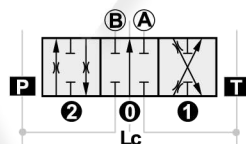
103.25

Doppio effetto, A e B chiusi
in posizione 0
Double acting, A and B closed
in 0 position



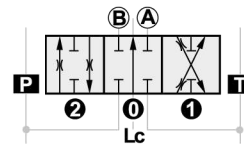
103.05

Doppio effetto, A e B chiusi
in posizione 0
Double acting, A and B closed
in 0 position



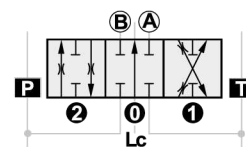
103.30

Doppio effetto, A e B chiusi
in posizione 0
Double acting, A and B closed
in 0 position



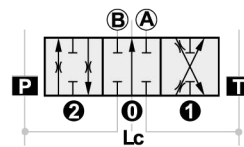
103.10

Doppio effetto, A e B chiusi
in posizione 0
Double acting, A and B closed
in 0 position



103.40

Doppio effetto, A e B chiusi
in posizione 0
Double acting, A and B closed
in 0 position



Sezione di lavoro

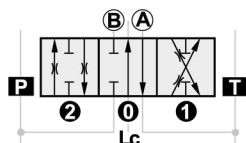
Working section

Q25	F7S	R250	2x	103	A1	M1	F3D	12V	2E
1	2	3		5	6	7	8	9	10

Cursori sensibilizzati / Sensitized pools

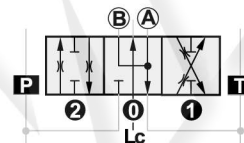
107.20

Doppio effetto, A in T e B chiuso in posizione 0
Double acting, A to T and B closed in 0 position



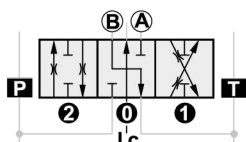
111.20

Doppio effetto, A e B in T in posizione 0
Double acting, A and B to T in 0 position



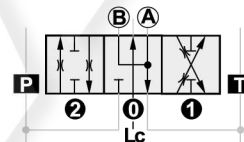
108.20

Doppio effetto, B in T e A chiuso in posizione 0
Double acting, B to T and A closed in 0 position



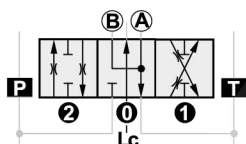
111.25

Doppio effetto, A e B in T in posizione 0
Double acting, A and B to T in 0 position



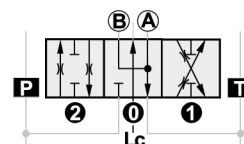
111.05

Doppio effetto, A e B in T in posizione 0
Double acting, A and B to T in 0 position



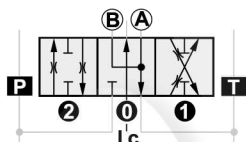
111.30

Doppio effetto, A e B in T in posizione 0
Double acting, A and B to T in 0 position



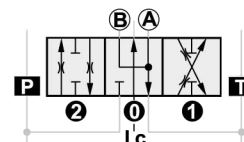
111.10

Doppio effetto, A e B in T in posizione 0
Double acting, A and B to T in 0 position



111.40

Doppio effetto, A e B in T in posizione 0
Double acting, A and B to T in 0 position



Sezione di lavoro

Working section



6 - Tipo di comando / Control type

	Q35	Q15 GMV15	Q25	Q45	Q65	Q75	Q95
A1	•	•	•	•	•	•	•
A1/Z1*		•	•	•		•	•
A1S	•		•	•	•	•	•
A2		•	•	•	•	•	•
A2/Z1*		•	•	•		•	•
A2S	•		•	•	•	•	•
A3*			•	•	•	•	•
A4			•	•	•	•	•
A4/Z1*			•	•		•	•
A5	•		•	•	•	•	•
A6	•		•	•	•	•	•
A6/Z1*			•	•		•	•
A8			•	•	•	•	•
A8/Z1*			•	•		•	•
C1*			•	•		•	•
SL*			•	•		•	•
SLA15*			•	•		•	•

* Limitazioni / Limitations

Comando Control	Applicabile con: / Applicable with:	
	Comando / Control	Cursore / Spool
A3	M1-U1 / M2-U1 / M3-U1 / M1-U2 / M2-U2 / M3-U2 / D2 / P1-N / P1-NP / D3	Tutti / All
C1	A8 / M1U2 - M2U2 - M3U2	
SL		
SLA15		

Comando Control	Applicabile con: / Applicable with:	
	Posizionatore / Positioner	Cursore / Spool
A1/Z1 A2/Z1 A4/Z1 A6/Z1 A8/Z1	R8	116

Sezione di lavoro

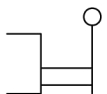
Working section

Q25	F7S	R250	2x	103	A1	M1	F3D	12V	2E
1	2	3		5	6	7	8	9	10

A1

A1/Z1

A1: Comando manuale con leva standard
A1: Hand control with standard lever

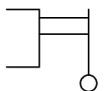


A1/Z1: Versione con kit distanziale per il montaggio del cursore 116
A1/Z1: Version with spacer kit for installation of spool 116

A2

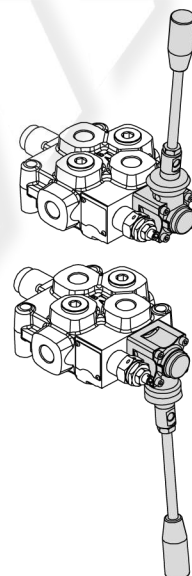
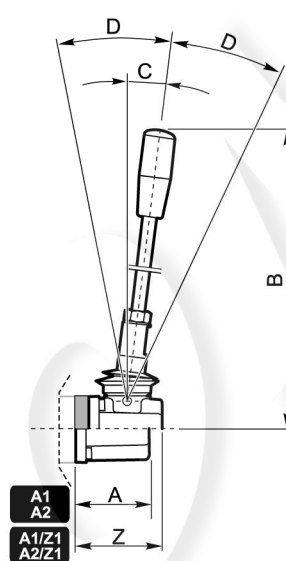
A2/Z1

A2: Comando manuale con leva standard
ruotata di 180°
A2: Hand control with standard lever
rotated 180°



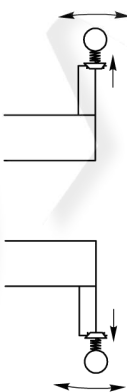
A2/Z1: Versione con kit distanziale per il montaggio del cursore 116
A2/Z1: Version with spacer kit for installation of spool 116

	A	B	C	D	Z
Q15 GMV15	35 (1.378)	211 (8.307)	7°	14°	44 (1.732)
Q35 Q25 - Q45	42 (1.654)	211 (8.307)	5°	13°	50.5 (1.988)
Q65 Q75 - Q95	55 (2.165)	260 (10.236)	6°	19°	68.5 (2.697)



A1S

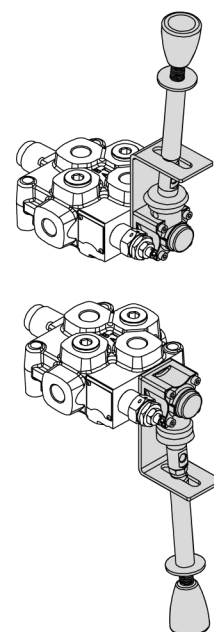
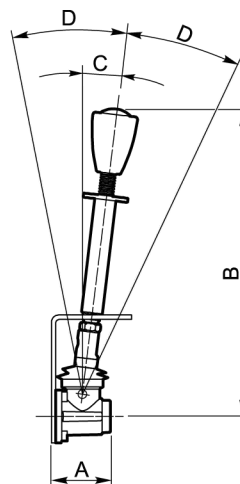
A1S: Comando manuale con leva di sicurezza
A1S: Hand control with safety lever



A2S

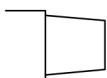
A2S: Comando manuale con leva di sicurezza
ruotata di 180°
A2S: Hand control with safety lever
rotated 180°

	A	B	C	D
Q35 Q25 - Q45	42 (1.654)	225 (8.858)	5°	13°
Q65 Q75 - Q95	55 (2.165)	256 (10.079)	6°	19°

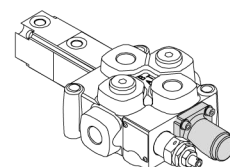


A3

Scatola di protezione in sostituzione
del comando manuale con leva
Proof cap replacing
hand control with lever



	A
Q25 - Q45	42 (1.654)
Q75 - Q95	55 (2.165)



Dimensioni in / Dimensions in: mm (inch)

Sezione di lavoro

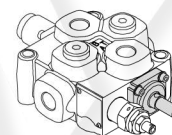
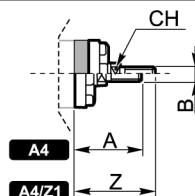
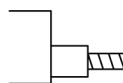
Working section



A4

A4/Z1

A4: Attacco diretto sul cursore per rinvio a distanza rigido
A4: Direct control connection on spool for stiff remote control

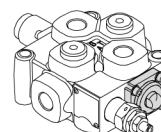
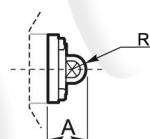


A4/Z1: Versione con kit distanziale per il montaggio del cursore 116
A4/Z1: Version with spacer kit for installation of spool 116

	A	B	CH	Corsa Stroke	Z
Q25 - Q45	39 (1.535)	M8	9 (0.354)	±5 (0.197)	47.5 (1.870)
Q65 Q75 - Q95	53 (2.087)	M10	14 (0.551)	±7 (0.276)	66.5 (2.618)

A5

Attacco diretto sul cursore con terminale sferico (da utilizzare solo con il posizionamento M4 (2-1))
Direct control connection on spool with spherical end (Control to be used for positioning M4 (2-1))0

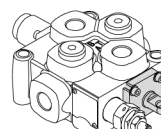
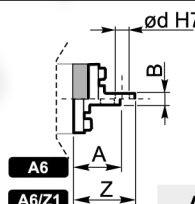
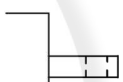


	A	R	Corsa Stroke
Q35	22 (0.866)	6.85 (0.270)	±5 (0.197)
Q25 - Q45			
Q65	33 (1.299)	8.75 (0.344)	±7 (0.276)
Q75 - Q95			

A6

A6/Z1

A6: Attacco diretto sul cursore con terminale ad occhio fisso
A6: Direct control connection on spool eye end



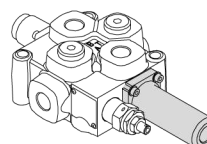
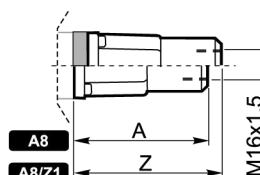
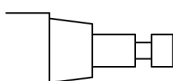
A6/Z1: Versione con kit distanziale per il montaggio del cursore 116
A6/Z1: Version with spacer kit for installation of spool 116

	A	B	d	Corsa Stroke	Z
Q35	20 (0.787)	6 (0.236)	9 (0.354)	±5 (0.197)	28.5 (1.122)
Q25 - Q45					
Q65	27 (1.063)	7 (0.276)	11 (0.433)	±7 (0.276)	40.5 (1.594)
Q75 - Q95					

A8

A8/Z1

A8: Attacco diretto sul cursore per cavo flessibile rinvio a distanza
A8: Direct connection on spool for remote flexible control



A8/Z1: Versione con kit distanziale per il montaggio del cursore 116
A8/Z1: Version with spacer kit for installation of spool 116

	A	Z
Q25 - Q45	73 (2.874)	81.5 (3.209)
Q65	77 (3.031)	90.5 (3.563)
Q75 - Q95		

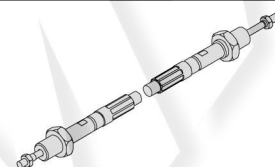
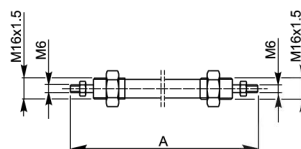
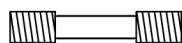
Sezione di lavoro

Working section



C1

Cavo flessibile
Flexible cable



A

Q25 - Q45
Q75 - Q95

Massima lunghezza cavo consigliata 4000 mm
Raggio min. di curvatura 200mm
Max. recommended length 4000 mm
Minimum radius curve 200 mm

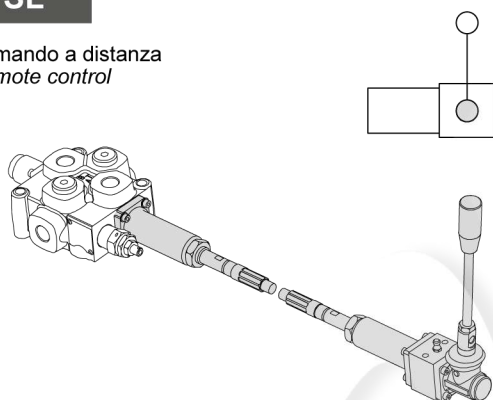
Dove è utilizzato il cavo flessibile C1, è necessario indicare la lunghezza del cavo espressa in mm.

Esempio per un cavo lungo 1000 mm: **A8-C1x1000-SL**

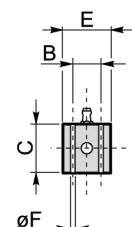
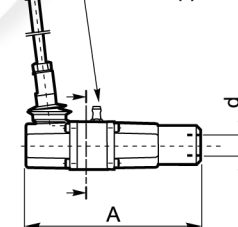
Indicate the cable length in mm when flexible cable C1 is used.
E.g.: for a cable 1000 mm in length: **A8-C1x1000-SL**

SL

Comando a distanza
Remote control



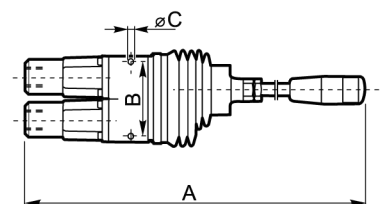
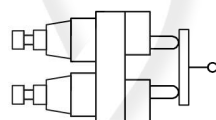
Ingrassatore
Grease nipple



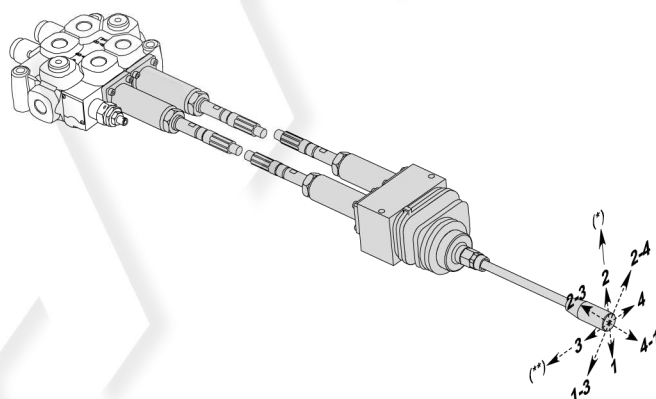
	A	B	C	d	E	F
Q25 - Q45	135 (5.315)	26 (1.024)	40 (1.575)	M16x1.5	38 (1.496)	5.5 (0.217)
Q75 - Q95	172 (6.772)	33.5 (1.319)	45 (1.772)		45 (1.772)	6.5 (0.256)

SLA15

Comando a cloche per controllo
simultaneo di due cursori a distanza
Remote dual axis control for
simultaneous operation of two spools



	A	B	Ø d
Q25 - Q45	358 (14.094)	77 (3.031)	6.5 (0.256)
Q75 - Q95			



Eventuale cassetto con 4^a pos. (solo cod.126)
Optional spool with 4th position (only code 126)
(*) su 1^a sezione / on 1st section
(**) su 2^a sezione / on 2nd section

Dimensioni in / Dimensions in: mm (inch)

Sezione di lavoro

Working section

Q25	F7S	R250	2x	103	A1	M1	F3D	12V	2E
1	2	3		5	6	7	8	9	10

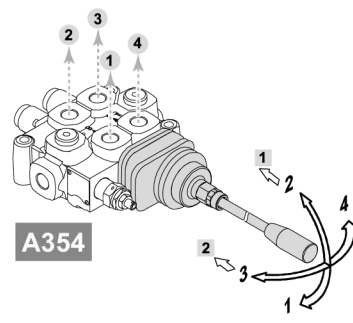
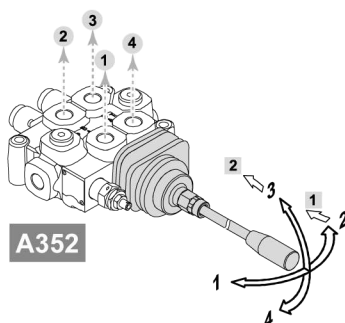
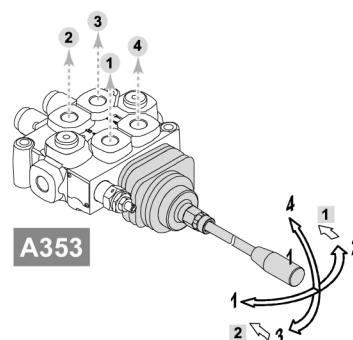
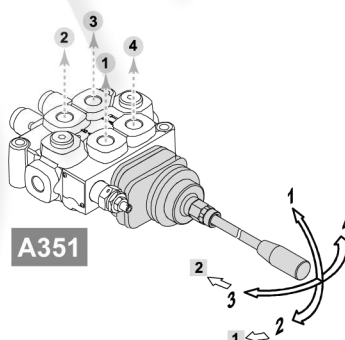
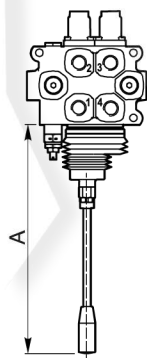
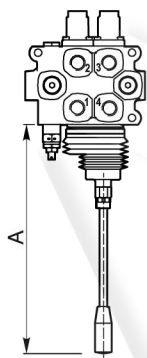
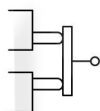
6 - Tipo di comando / Control type

		Q15 GMV15	Q25	Q45	Q75	Q95
Leva a cloche per il comando singolo o simultaneo di due cursori:	Dual axis for single or simultaneous control of two spools:					
A35 - movimento inclinato a X	- tilted movement to X	•	•	•	•	•
A16 - movimento dritto a +	- straight movement to +		•	•		
Comando manuale con attivazione del contatto elettrico del microswitch centralizzato:	Hand control with ON-OFF centralized microswitch operation					
N1-A1 - per doppio effetto	- double acting	•	•	•	•	•
N1A-A1 - per semplice effetto in posizione 1	- single acting in 1 position		•	•	•	•
N1B-A1 - per semplice effetto in posizione 2	- single acting in 2 position		•	•	•	•
Comando manuale, ruotato di 180°, con attivazione del contatto elettrico del microswitch centralizzato:	180° Rotated hand control with ON-OFF centralized microswitch operation					
N1-A2 - per doppio effetto	- double acting	•	•	•	•	•
N1A-A2 - per semplice effetto in posizione 1	- single acting in 1 position		•	•	•	•
N1B-A2 - per semplice effetto in posizione 2	- single acting in 2 position		•	•	•	•
Comando microswitch centralizzato:	Centralized microswitch control:					
N1-A3 - per doppio effetto	- double acting		•	•	•	•
N1A-A3 - per semplice effetto in posizione 1	- single acting in 1 position		•	•	•	•
N1B-A3 - per semplice effetto in posizione 2	- single acting in 2 position		•	•	•	•

A35

Leva a cloche per il comando singolo o simultaneo di due cursori, come schema a lato
Dual axis for simultaneous or single control of two spools, as from the scheme on the side

	A
GMV15	200 (7.874)
Q25 - Q45	280 (11.024)
Q75 - Q95	300 (11.811)



N.B. Nelle configurazioni A351 e A353, la parte inferiore del comando sporge dal piano di appoggio.

Note: A351 - A353 configurations the smallest size is lower than the bolster.

Eventuale cassetto con 4^a pos. (solo cod.126)
Optional spool with 4th position (only code 126)

1 su 1^a sezione / on 1st section
2 su 2^a sezione / on 2nd section

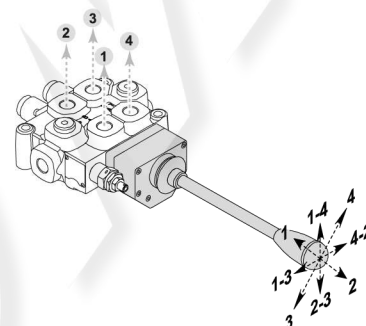
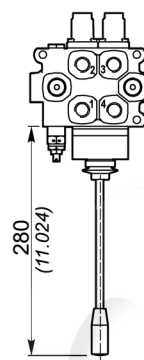
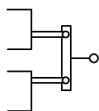
Sezione di lavoro

Working section



A16

Leva a cloche per il controllo singolo o simultaneo di due cursori come schema a lato
Dual axis for single or simultaneous control of two spools as from the scheme on the side



I comandi **A15**, **A16** o **SLA15** sono dei joystick che comandano due sezioni di lavoro; essendo un comando unico viene inserito come codice solo nella prima sezione di lavoro e viene omesso nella seconda.

Esempio

Q25 – F7SR250 – 103/**A15**/M1 – 103/M1 – F3D

Nella seconda sezione di lavoro è indicato solo il cursore e il posizionatore.

Quando è richiesto anche il cavo C1, è necessario specificarne la lunghezza in entrambe le sezioni.

Esempio

Q25 – F7SR250 – 103/**A8-C1x1000**-SLA15/M1 – 103/**A8-C1x1000**/M1 – F3D

Controls **A15**, **A16** or **SLA15** are joysticks that control two working sections. Since it is a single control, it is only entered as a code in the first work section and is omitted from the second.

Example

Q25 – F7SR250 – 103/**A15**/M1 – 103/M1 – F3D

Only the spool and positioner are indicated in the second working section.

When cable C1 is also required, its length must be specified in both sections.

Example

Q25 – F7SR250 – 103/**A8-C1x1000**-SLA15/M1 – 103/**A8-C1x1000**/M1 – F3D

Sezione di lavoro

Working section



N1-A1 N1A-A1 N1B-A1

Comando manuale con attivazione del contatto elettrico del microswitch centralizzato.

N1-A1: Per doppio effetto

N1A-A1: Per semplice effetto in pos. 1

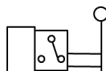
N1B-A1: Per semplice effetto in pos. 2

Hand control with ON-OFF centralized microswitch operation.

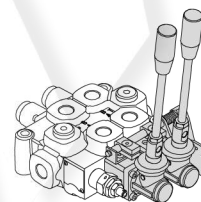
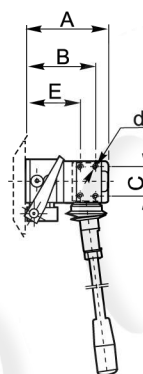
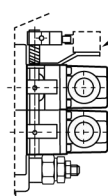
N1-A1: Double acting

N1A-A1: Single acting in 1 position

N1B-A1: Single acting in 2 position



Microswitch non di nostra fornitura
Microswitch not supplied by Galtech



	A	B	C	E	d
Q15 - GMV15	64 (2.520)	42 (1.654)	22.2 (0.874)	31.7 (1.248)	M2.5
Q25 - Q45	70 (2.756)	59 (2.323)	25 (0.984)	49 (1.929)	M4
Q75 - Q95	84 (3.307)				

N1-A2 N1A-A2 N1B-A2

Comando manuale ruotato di 180° con attivazione del contatto elettrico del microswitch centralizzato.

N1-A2: Per doppio effetto

N1A-A2: Per semplice effetto in pos. 1

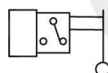
N1B-A2: Per semplice effetto in pos. 2

180° rotated hand control with ON-OFF centralized microswitch operation.

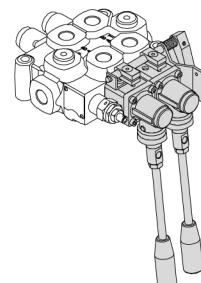
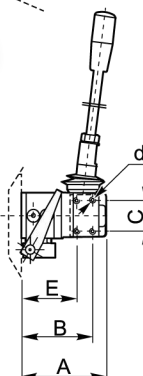
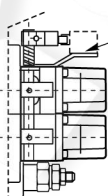
N1-A2: Double acting

N1A-A2: Single acting in 1 position

N1B-A2: Single acting in 2 position



Microswitch non di nostra fornitura
Microswitch not supplied by Galtech



	A	B	C	E	d
Q15 - GMV15	64 (2.520)	42 (1.654)	22.2 (0.874)	31.7 (1.248)	M2.5
Q25 - Q45	70 (2.756)	59 (2.323)	25 (0.984)	49 (1.929)	M4
Q75 - Q95	84 (3.307)				

N1-A3 N1A-A3 N1B-A3

Comando microswitch centralizzato.

N1-A3: Per doppio effetto

N1A-A3: Per semplice effetto in pos. 1

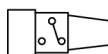
N1B-A3: Per semplice effetto in pos. 2

Centralized microswitch control.

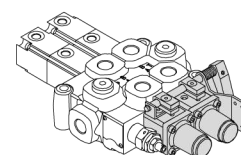
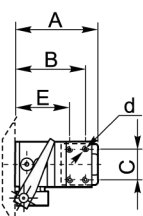
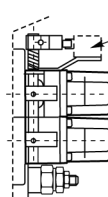
N1-A3: Double acting

N1A-A3: Single acting in 1 position

N1B-A3: Single acting in 2 position



Microswitch non di nostra fornitura
Microswitch not supplied by Galtech



	A	B	C	E	d
Q25 - Q45	70 (2.756)	59 (2.323)	25 (0.984)	49 (1.929)	M4
Q75 - Q95	84 (3.307)				

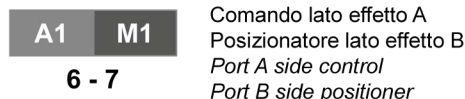
Sezione di lavoro

Working section



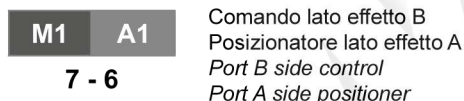
7 - Tipo posizionatore

* La posizione dei campi 5 e 6 si riferisce al comando collocato sul lato effetto A e al posizionatore lato effetto B; se le posizioni sono opposte, invertire i due campi 5 e 6 come da esempio seguente:



6 - Positioner type

* The position of fields 5 and 6 refers to the control located on the A port side and to the positioner on the B port side. If the positions are opposite, invert the two fields 5 and 6 as shown in the example below:



Posizionatori / Positioner

Q35	Q15	GMV 15	Q25	Q45	Q65	Q75	Q95
-----	-----	-----------	-----	-----	-----	-----	-----

M1	Tre posizioni ritorno a molla in pos.0	Three positions spring centred in 0	•	•	•	•	•
M2	Due posizioni 0-1 ritorno a molla in pos.0	Two positions spring 0-1 centred in 0		•	•	•	•
M3	Due posizioni 0-2 ritorno a molla in pos.0	Two positions spring 0-2 centred in 0		•	•	•	•
M4(1-2)	Due posizioni estreme ritorno a molla in pos.1	Two end positions spring back in 1	•		•	•	•
M4(2-1)	Due posizioni estreme ritorno a molla in pos.2	Two end positions spring back in 2	•		•	•	•
R0	Posizionamento frizionato	Friction positioner	•		•	•	•
R1	Tre posizioni ritorno a molla in pos.0, detent in pos.1	Three positions spring centred in 0, detent in 1	•		•	•	•
R2	Tre posizioni ritorno a molla in pos.0, detent in pos.2	Three positions spring centred in 0, detent in 2	•		•	•	•
R3	Tre posizioni in detent	Three positions detent	•		•	•	•
R4	Due posizioni in detent 0-1	Two positions detent 0-1		•	•	•	•
R5	Due posizioni in detent 0-2	Two positions detent 0-2		•	•	•	•
R6	Due posizioni in detent 1-2	Two positions detent 1-2			•	•	•
R8*	Due posizioni (1 e 2) con ritorno a molla in pos. 0; (3) 4ª posizione flottante con detent. (Da montare con Z1 lato comando e cursore 116)	Two positions (1 and 2) with spring return centred in 0 position. (3) 4th position floating with detent. (Mounting with Z1 side control and spool 116)		•		•	•
R10/Z1*	Due posizioni (1 e 2) con ritorno a molla in pos. 0; (3) 4ª posizione flottante con detent (da montare con cursore 126)	Two positions (1 and 2) with spring return centred in 0, position (3) 4th position floating with detent (mounting with spool 126)		•	•		•
R1K*	Comando a 3 posizioni, detent in pos. 1 con sgancio automatico registrabile. Disponibile solo con cursore cod. 103 e 111	3 Position control, detent in 1 pos. with automatic adjustable release. Available with spool code 103 and 111 only			•	•	•
R2K*	Comando a 3 posizioni, detent in pos. 2 con sgancio automatico registrabile. Disponibile solo con cursore cod. 103 e 111	3 Position control, detent in 2 pos. with automatic adjustable release. Available with spool code 103 and 111 only			•	•	•
R3K*	Comando a 3 posizioni, detent in pos. 1 e 2 con sgancio automatico registrabile. Disponibile solo con cursore cod. 103 e 111	3 Position control, detent in 1 and 2 pos. with automatic adjustable release. Available with spool code 103 and 111 only			•	•	•
M1-B1	Tre posizioni ritorno a molla in pos.0 con comando microswitch posteriore	Three positions spring centred in 0 with back microswitch control			•	•	•
M2-B1	Due posizioni, 0-1, ritorno a molla in pos.0 con comando microswitch posteriore	Two positions 0-1, spring centred in 0 with back microswitch control			•	•	•
M3-B1	Due posizioni, 0-2, ritorno a molla in pos. 0 con comando microswitch posteriore	Two positions 0-2, spring centred in 0 with back microswitch control			•	•	•
M1-N1 M1-N1A M1-N1B	Tre posizioni ritorno a molla in pos. 0, con attivazione del contatto elettrico del microswitch centralizzato M1-N1: Per doppio effetto M1-N1A: Per semplice effetto in pos 1 M1-N1B: Per semplice effetto in pos 2	Three positions spring centred in 0, with ON-OFF centralized microswitch operation. N1-A1: Double acting N1A-A1: Single acting in 1 position N1B-A1: Single acting in 2 position			•	•	•
M2-N1	Due posizioni, 0-1, con ritorno a molla in pos.0, con attivazione del contatto elettrico del microswitch centralizzato	Two positions, 0-1, with spring centred in 0, with ON-OFF centralized microswitch operation			•	•	•
M3-N1	Due posizioni, 0-2, con ritorno a molla in pos.0, con attivazione del contatto elettrico del microswitch centralizzato	Two positions, 0-2, with spring centred in 0, with ON-OFF centralized microswitch operation			•	•	•
M1-B4	Posizionamento con micro a tenuta stagna	Positioning with watertight	•		•	•	•

* Limitazioni / Limitations

Posizionatore Positioner	Applicabile con: / Applicable with:	
	Comando / Control	Cursore / Spool
R8	A1/Z1 - A2/Z1 - A4/Z1 - A6/Z1 - A8/Z1	116
R10/Z1	Tutti / All	126
R1K R2K R3K	A1 / A2 / A4 / A5 / A6 / A8 / SL / SLA15 / A15 / A16 / N1-A1 / N1-A2 / N1-A3	103 / 111

Sezione di lavoro

Working section

Q25	F7S	R250	2x	103	A1	M1	F3D	12V	2E
1	2	3		5	6	7	8	9	10

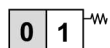
M1

Tre posizioni ritorno a molla in pos.0
Three positions spring centred in 0



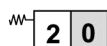
M2

Due posizioni 0-1 ritorno a molla in pos.0
Two positions spring 0-1 centred in 0



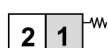
M3

Due posizioni 0-2 ritorno a molla in pos.0
Two positions spring 0-2 centred in 0



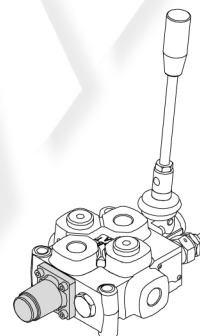
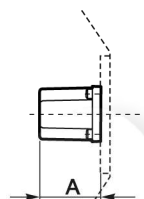
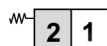
M4 (1-2)

Due posizioni estreme ritorno a molla in pos.1
Two end positions spring back in 1



M4 (2-1)

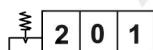
Due posizioni estreme ritorno a molla in pos.2
Two end positions spring back in 2



	A			
	M1	M2	M3	M4 2-1
Q15	22.5	22.5	22.5	
GMV15	(0.886)	(0.886)	(0.886)	
Q35	42	42	42	42
Q25 - Q45	(1.654)	(1.654)	(1.654)	(1.654)
Q65	55	55	55	55
Q75 - Q95	(2.165)	(2.165)	(2.165)	(2.165)

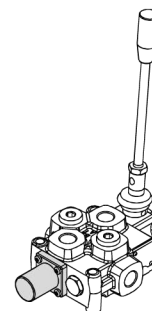
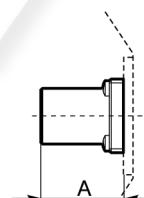
R0

Posizionamento frizionato
Friction positioner

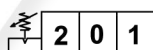


Q35 - Q25 - Q45

Frizione non registrabile
Not adjustable friction

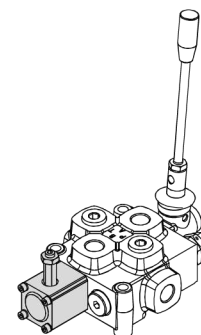
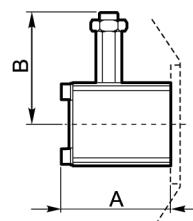


	A
Q25 - Q35 - Q45	42 (1.654)



Q65 - Q75 - Q95

Frizione registrabile
Adjustable friction



	A	B
Q65 - Q75 - Q95	59 (2.323)	60 (2.362)

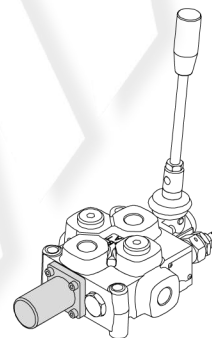
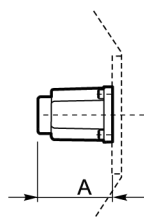
Sezione di lavoro

Working section

Q25	F7S	R250	2x	103	A1	M1	F3D	12V	2E
1	2	3		5	6	7	8	9	10

R1

Tre posizioni ritorno a molla in pos.0,
detent in pos.1
*Three positions spring centred in 0,
detent in 1*



R2

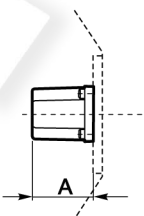
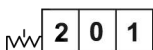
Tre posizioni ritorno a molla in pos.0,
detent in pos.2
*Three positions spring centred in 0,
detent in 2*



	A	
	R1	R2
Q35	52	54
Q25 - Q45	(2.047)	(2.126)
Q65	70	68.5
Q75 - Q95	(2.756)	(2.697)

R3

Tre posizioni in detent
Three positions detent



R4

Due posizioni in detent 0-1
Two positions detent 0-1



R5

Due posizioni in detent 0-2
Two positions detent 0-2

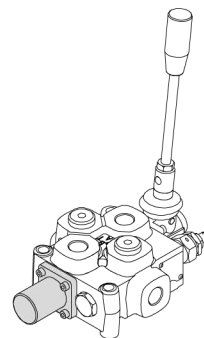


R6

Due posizioni in detent 1-2
Two positions detent 1-2



	A			
	R3	R4	R5	R6
Q15	22	22	22	
GMV15	(0.866)	(0.866)	(0.866)	
Q35	42	42	42	42
Q25 - Q45	(1.654)	(1.654)	(1.654)	(1.654)
Q65	55	55	55	55
Q75 - Q95	(2.165)	(2.165)	(2.165)	(2.165)



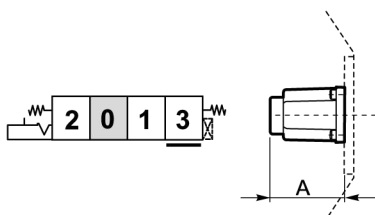
Sezione di lavoro

Working section

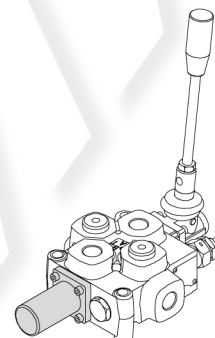
Q25	F7S	R250	2x	103	A1	M1	F3D	12V	2E
1	2	3		5	6	7	8	9	10

R8

Due posizioni (1 e 2) con ritorno a molla in pos. 0;
(3) 4ª posizione flottante con detent.
(Da montare con Z1 lato comando e cursore 116)
*Two positions (1 and 2) with spring return centred in 0 position.
(3) 4th position floating with detent.
(Mounting with Z1 side control and spool 116)*

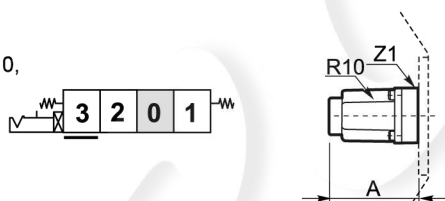


	A
Q15	43
GMV15	(1.693)
Q25 - Q45	56.5
	(2.224)
Q65	75
Q75 - Q95	(2.953)

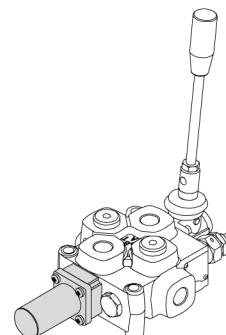


R10/Z1

Due posizioni (1 e 2) con ritorno a molla in pos. 0;
(3) 4ª posizione flottante con detent
(Da montare cursore 126)
*Two positions (1 and 2) with spring return centred in 0 position
(3) 4th position floating with detent.
(Mounting with spool 126)*

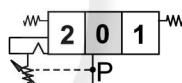


	A
Q15	50
GMV15	(1.969)
Q25 - Q45	70
	(2.756)
Q75 - Q95	92
	(3.622)

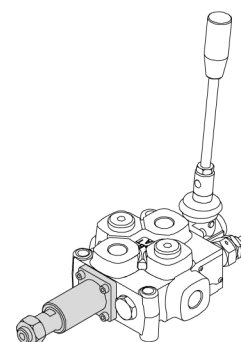
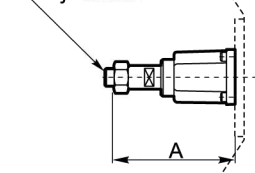


R1K

Comando a 3 posizioni, detent in pos. 1
con sgancio automatico registrabile.
Disponibile solo con cursore cod. 103 e 111
*3 Position control, detent in 1 pos.
with automatic adjustable release.
Available with spool code 103 and 111 only*

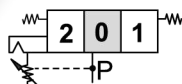


Grano di registro
Adjustable screw



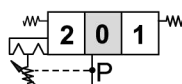
R2K

Comando a 3 posizioni, detent in pos. 2
con sgancio automatico registrabile.
Disponibile solo con cursore cod. 103 e 111
*3 Position control, detent in 2 pos.
with automatic adjustable release.
Available with spool code 103 and 111 only*



R3K

Comando a 3 posizioni, detent in pos. 1 e 2
con sgancio automatico registrabile.
Disponibile solo con cursore cod. 103 e 111
*3 Position control, detent in 1 and 2 pos.
with automatic adjustable release.
Available with spool code 103 and 111 only*



	A		
	R1K	R2K	R3K
Q25 - Q45	91.5	91.5	91.5
	(3.602)	(3.602)	(3.602)
Q75 - Q95	106	106	106
	(4.173)	(4.173)	(4.173)

Campo di taratura della pressione per lo sgancio automatico 45 - 350 bar (653 - 5075 PSI)
Pressure calibration field for automatic release 45 - 350 bar (653 - 5075 PSI)

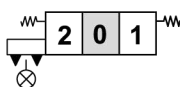
Sezione di lavoro

Working section

Q25	F7S	R250	2x	103	A1	M1	F3D	12V	2E
1	2	3		5	6	7	8	9	10

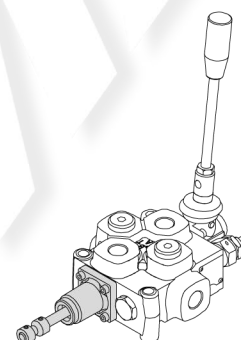
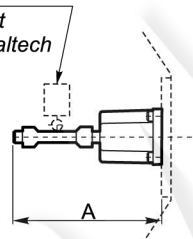
M1-B1

Tre posizioni ritorno a molla in pos.0
con comando microswitch posteriore
*Three positions spring centred in 0
with back microswitch control*



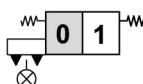
Microswitch non di
nostra fornitura

*Microswitch not
supplied by Galtech*



M2-B1

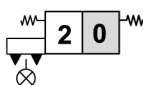
Due posizioni, 0-1, ritorno a molla in pos.0
con comando microswitch posteriore
*Two positions, 0-1, spring centred in 0
with back microswitch control*



	A		
	M1-B1	M2-B1	M3-B1
Q25 - Q45	82 (3.228)	82 (3.228)	82 (3.228)
Q75 - Q95	102 (4.016)	102 (4.016)	102 (4.016)

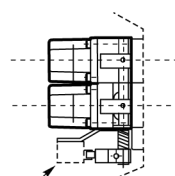
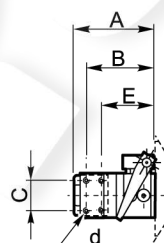
M3-B1

Due posizioni, 0-2, ritorno a molla in pos. 0
con comando microswitch posteriore
*Two positions, 0-2, spring centred in 0
with back microswitch control*

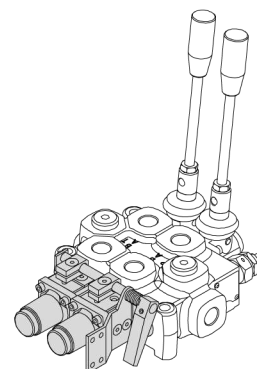


M1-N1 M1-N1A M1-N1B

Tre posizioni ritorno a molla in pos. 0,
con attivazione del contatto elettrico
del microswitch centralizzato
M1-N1: Per doppio effetto
M1-N1A: Per semplice effetto in pos 1
M1-N1B: Per semplice effetto in pos 2
*Three positions spring centred in 0,
with ON-OFF centralized microswitch operation.*
N1-A1: Double acting
N1A-A1: Single acting in 1 position
N1B-A1: Single acting in 2 position



Microswitch non di
nostra fornitura
*Microswitch not
supplied by Galtech*



M2-N1

Due posizioni, 0-1, con ritorno a molla
in pos.0, con attivazione del contatto elettrico
del microswitch centralizzato
*Two positions, 0-1, with spring centred in 0,
with ON-OFF centralized microswitch operation*



M3-N1

Due posizioni, 0-2, con ritorno a molla
in pos.0, con attivazione del contatto elettrico
del microswitch centralizzato
*Two positions, 0-2, with spring centred in 0,
with ON-OFF centralized microswitch operation*



	A	B	C	E	d
Q25 - Q45	70 (2.756)	59 (2.323)	25 (0.984)	49 (1.929)	M4
Q75 - Q95	84 (3.307)				

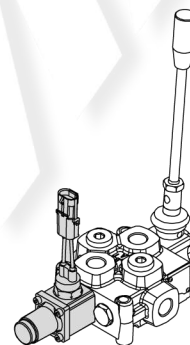
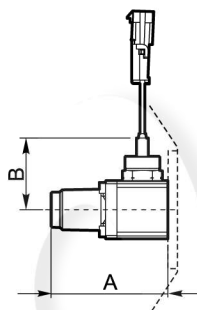
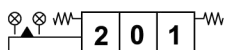
Sezione di lavoro

Working section



M1-B4

Posizionatore con micro a tenuta stagna.
Positioning with watertight microswitch.



	A	B
Q25 - Q45	75.5 (2.972)	50 (1.969)

Caratteristiche elettriche / Electrical Characteristic

Corrente / Current	0.01 ÷ 5.0	Amp
Tensione / Voltage	5 ÷ 24	VDC
Connettore / Connector	Packard weather pack	
Temperatura / Temperature	-40 ÷ 120	°C
Tipo / Type	Normalmente aperto <i>Normally open</i>	



Comandi con posizionamento / Controls with positioning

		Q35	Q25	Q45	Q75	Q95
M1-U1*	Tre posizioni con ritorno a molla in pos.0, attacco diretto sul cursore per rinvio a distanza rigido		•	•	•	•
M2-U1*	Due posizioni, 0-1, con ritorno a molla in pos.0, attacco diretto sul cursore per rinvio a distanza rigido		•	•	•	•
M3-U1*	Due posizioni, 0-2, con ritorno a molla in pos. 0, attacco diretto sul cursore per rinvio a distanza rigido		•	•	•	•
M1-U2*	Tre posizioni con ritorno a molla in pos. 0, attacco diretto sul cursore per rinvio a distanza con cavo flessibile		•	•	•	•
M2-U2*	Due posizioni, 0-1, ritorno a molla in pos. 0, attacco diretto sul cursore per rinvio a distanza con cavo flessibile		•	•	•	•
M3-U2*	Due posizioni, 0-2, ritorno a molla in pos. 0, attacco diretto sul cursore per rinvio a distanza con cavo flessibile		•	•	•	•
D2*	Comando elettroidraulico doppio con ritorno in pos. 0				•	•
P1-N*	Comando pneumatico		•	•	•	•
P1-NP*	Comando pneumatico progressivo		•	•	•	•
D3*	Comando elettropneumatico		•	•	•	•

*** Limitazioni / Limitations**

Posizionatore <i>Positioner</i>	Applicabile con: / <i>Applicable with:</i>	
	Comando / <i>Control</i>	Cursore / <i>Spool</i>
M1-U1 M2-U1 M3-U1 M1-U2 M2-U2 M3-U2 D2 P1-N P1-NP D3	A1 / A2 / A3 / A4 / A6 / A8	Tutti tranne 116 e 126 <i>All except 116 and 126</i>

Sezione di lavoro

Working section



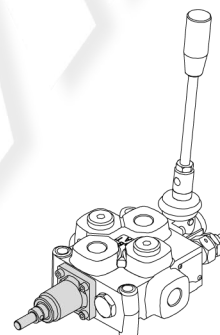
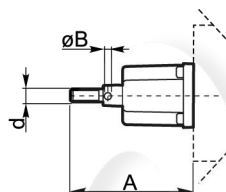
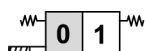
M1-U1

Tre posizioni con ritorno a molla in pos.0,
attacco diretto sul cursore
per rinvio a distanza rigido
*Three positions spring centred in 0,
with direct control connection on spool,
cap side, for stiff remote control*



M2-U1

Due posizioni, 0-1, con ritorno a molla in pos.0,
attacco diretto sul cursore
per rinvio a distanza rigido
*Two positions, 0-1, spring centred in 0,
with direct control connection on spool,
cap side, for stiff remote control*



M3-U1

Due posizioni, 0-2, con ritorno a molla in pos. 0,
attacco diretto sul cursore
per rinvio a distanza rigido
*Two positions, 0-2, spring centred in 0,
with direct control connection on spool,
cap side, for stiff remote control*



	A	B	d
Q25 - Q45	73 (2.874)	4 (0.157)	M8
Q75 - Q95	96 (3.780)	5 (0.197)	M10

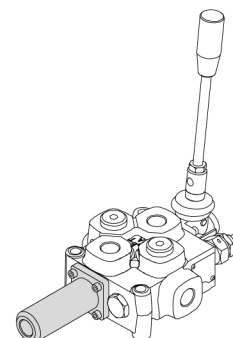
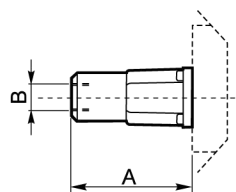
M1-U2

Tre posizioni con ritorno a molla in pos. 0,
attacco diretto sul cursore
per rinvio a distanza con cavo flessibile
*Three positions spring centred in 0,
direct control connection on spool,
cap side, for flexible remote control*



M2-U2

Due posizioni, 0-1, ritorno a molla in pos. 0,
attacco diretto sul cursore
per rinvio a distanza con cavo flessibile
*Two positions, 0-1, spring centred in 0,
direct control connection on spool,
cap side, for flexible remote control*



M3-U2

Due posizioni, 0-2, ritorno a molla in pos. 0,
attacco diretto sul cursore
per rinvio a distanza con cavo flessibile
*Two positions, 0-2, spring centred in 0,
direct control connection on spool,
cap side, for flexible remote control*

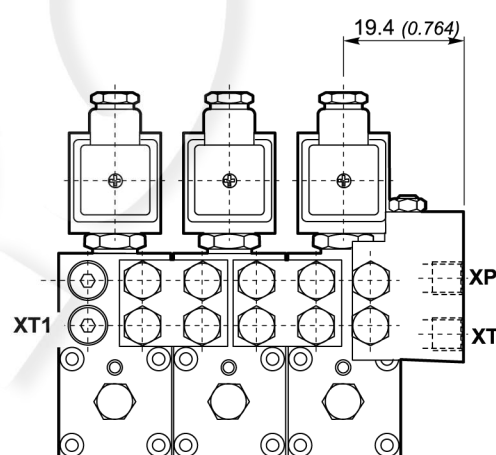
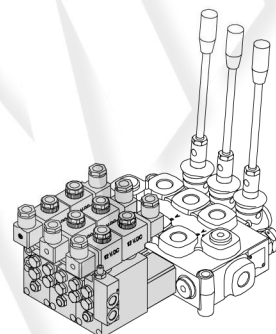
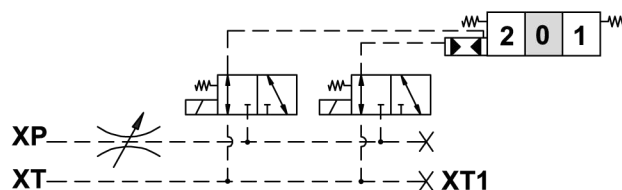


	A	B
Q25 - Q45	73 (2.874)	M16X1.5
Q75 - Q95	77 (3.031)	

Working section



Comando elettroidraulico doppio
con ritorno in pos. 0
*Double electro-hydraulic
control spring centred in 0*



Codice: D2-1R per il 1° elemento
Code: D2-1R for the 1° elements

Caratteristiche tecniche elettromagnete tipo "H" / Electromagnet characteristics type "H"

Dimensioni in / Dimensions in: mm (inch)

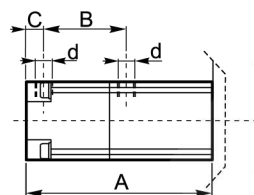
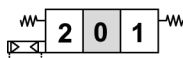
Sezione di lavoro

Working section

Q25	F7S	R250	2x	103	A1	M1	F3D	12V	2E
1	2	3		5	6	7	8	9	10

P1-N

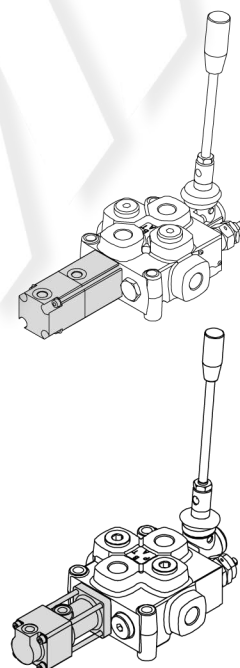
Comando pneumatico a tre posizioni con ritorno in pos. 0
Three positions pneumatic control, spring centred in 0



Q25-Q45 Supporto del comando in Alluminio
Q25-Q45 Command support in aluminium
Q75-Q95 Supporto del comando in Tecnopolimero
Q75-Q95 Command support in technopolimer

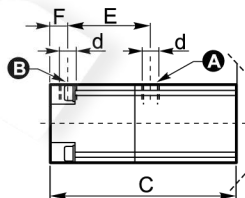
	A	B	C	d
Q25 - Q45	90.5 (3.563)	43 (1.693)	10 (0.394)	G 1/8"
Q75 - Q95	107 (4.213)	48 (1.890)	10.5 (0.413)	

Pressione di pilotaggio / Pilot pressure	Min.	5 bar (72.5 PSI)
	Max.	30 bar (435 PSI)
Volume pilotaggio / Pilot volume	Q25-Q45	4 cm ³ (0.244 in ³)
	Q75-Q95	9 cm ³ (0.549 in ³)



P1-NP

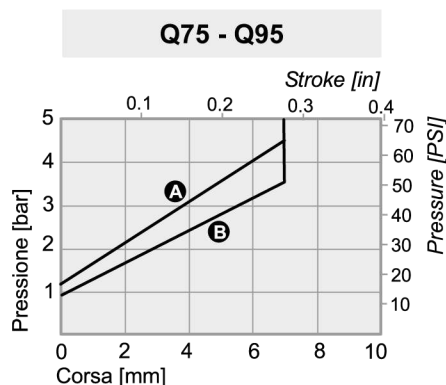
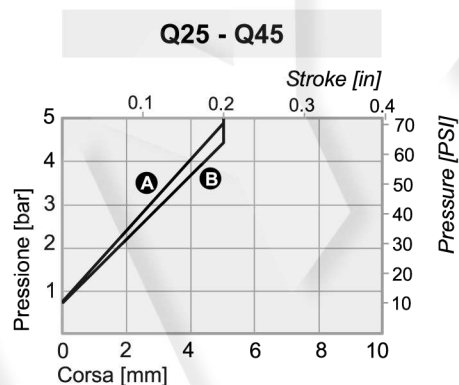
Comando pneumatico progressivo a tre posizioni con ritorno in posizione 0 per azionamento con manipolatore
Three positions progressive pneumatic control, spring centred in 0 for remote control



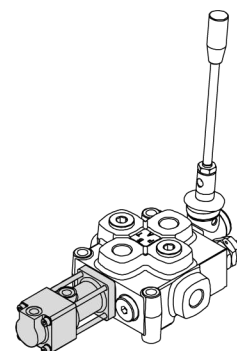
Q25-Q45 Supporto del comando in Alluminio
Q25-Q45 Command support in aluminium
Q75-Q95 Supporto del comando in Tecnopolimero
Q75-Q95 Command support in technopolimer

	C	E	F	d
Q25 - Q45	90.5 (3.563)	43 (1.693)	10 (0.394)	G 1/8"
Q75 - Q95	107 (4.213)	48 (1.890)	10.5 (0.413)	

Diagramma pressione di pilotaggio - Corsa spool / Pilot pressure diagram - Spool stroke



Pressione di pilotaggio / Pilot pressure	Min.	5 bar (72.5 PSI)
	Max.	30 bar (435 PSI)
Volume pilotaggio / Pilot volume	Q25-Q45	4 cm ³ (0.244 in ³)
	Q75-Q95	9 cm ³ (0.549 in ³)



Dimensioni in / Dimensions in: mm (inch)

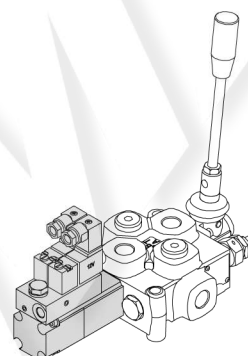
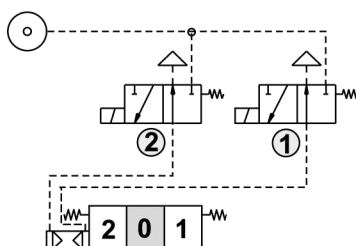
Sezione di lavoro

Working section



D3

Comando elettropneumatico a tre posizioni con ritorno in pos. 0
Three positions electro-pneumatic control, spring centred in 0



Q25-Q45 Supporto del comando in Alluminio
Q25-Q45 Command support in aluminium

Q25 - Q45

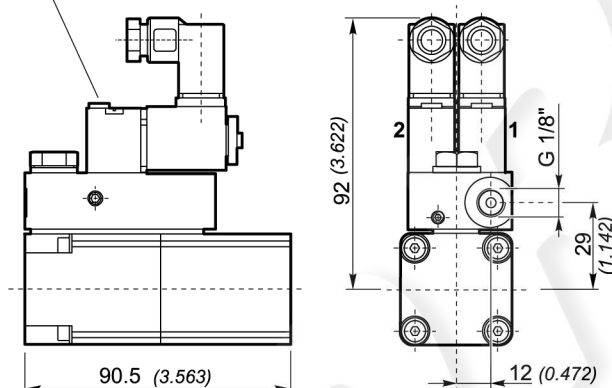
Caratteristiche di funzionamento Operation characteristics

Pressione di pilotaggio Pilot pressure	1 ÷ 10 bar (14.5 ÷ 145 PSI)
Volume pilotaggio Pilot volume	27NI/ a 6 bar Δpl (27NI/ a 87 PSI Δpl)

Caratteristiche tecniche elettromagnete Electromagnet characteristics

Tipo attacco magnete Magnet connection type	DIN 175301-803-C
Tipo di protezione Protection type	IP 65
Classe d'isolamento Coil insulation class	F
Tensione di alimentazione Supply voltage	D.C.: 12, 24V A.C.: 50 Hz 230 V
Variazione di tensione max. Maximum voltage tolerance	± 10%
Potenza assorbita Absorbed power supply	D.C.: 2.9 W A.C. 4VA
Rapporto di max. utilizzo Maximum utilization ratio	100%
Temperatura max. Max. temperature	-10 ÷ 50 °C

Emergenza manuale a rotazione
Manual override



Q75-Q95 Supporto del comando in Tecnopolimero
Q75-Q95 Command support in technopolimer

Q75 - Q95

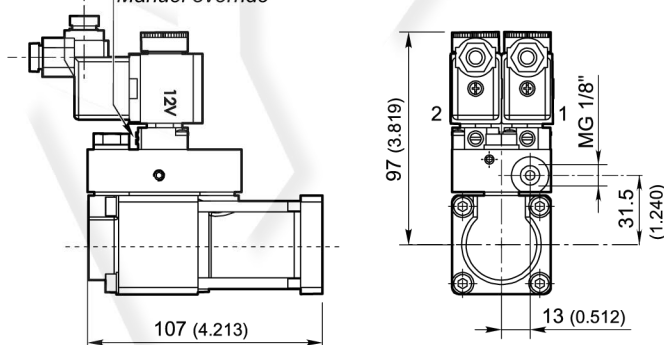
Caratteristiche di funzionamento Operation characteristics

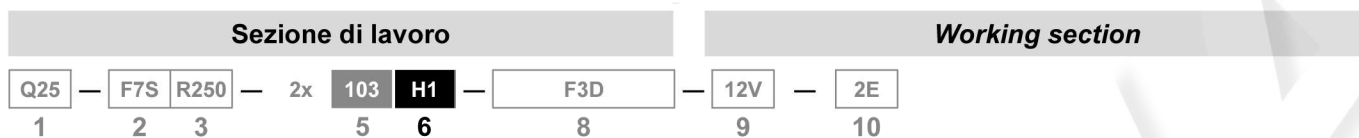
Pressione di pilotaggio Pilot pressure	1 ÷ 10 bar (14.5 ÷ 145 PSI)
Volume pilotaggio Pilot volume	53NI/ a 6 bar Δpl (53NI/ a 87 PSI Δpl)

Caratteristiche tecniche elettromagnete Electromagnet characteristics

Tipo attacco magnete Magnet connection type	DIN 43650
Tipo di protezione Protection type	IP 65
Classe d'isolamento Coil insulation class	F
Tensione di alimentazione Supply voltage	D.C.: 12, 24V
Variazione di tensione max. Maximum voltage tolerance	± 10%
Potenza assorbita Absorbed power supply	D.C.: 5 W
Rapporto di max. utilizzo Maximum utilization ratio	100%
Temperatura max. Max. temperature	-10 ÷ 50 °C

Emergenza manuale a rotazione
Manual override





Comandi completi / Complete controls

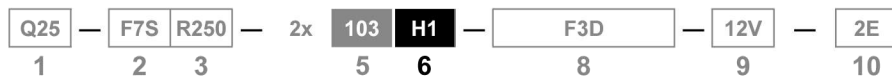
		Q15 GMV15	Q25	Q45	Q75	Q95
H1*	Comando idraulico ad alta pressione ON-OFF a tre posizioni, ritorno a molla in posizione 0 <i>Three positions with high-pressure hydraulic control, spring centered in 0 position</i>		•	•	•	•
H5*	Comando idraulico a bassa pressione per manipolatore idraulico <i>Low pressure hydraulic control for hydraulic pilot valves</i>		•	•	•	•
RTL-s*	Comando rotativo frizionato a tre posizioni: tacca in pos. 0, leva in pos. 2 <i>3-position clutch-operated rotary control: notch mark in pos. 0, lever in pos. 2</i>		•	•	•	•
RTL-d*	Comando rotativo frizionato a tre posizioni: tacca in pos. 0, leva in pos. 1 <i>3-position clutch-operated rotary control: detent in pos. 0, lever in pos. 1</i>		•	•	•	•
C2*	Comando a camme 2 posizioni estreme 1-2, ritorno a molla in pos. 1 <i>Cam control, 2 end positions 1-2, spring centered in 1 position</i>		•	•	•	•
C3*	Comando a camme 2 posizioni estreme 2-1, ritorno a molla in pos. 2 <i>Cam control, 2 end positions 2-1, spring centered in 2 position</i>		•	•	•	•
A1/D41*	Comando elettrico diretto doppio, ritorno a molla in pos. 0 <i>Double direct electrical control with spring centred in 0</i>	•	•	•	•	•
A2/D41*	Comando elettrico diretto doppio con leva ruotata, ritorno a molla in pos. 0 <i>180° rotated double direct electrical control with spring centred in 0</i>	•	•	•	•	•
A1/DP*	Comando elettrico diretto doppio, ritorno a molla in pos. 0 <i>Double direct electrical control with spring centred in 0</i>		•	•	•	•
A2/DP*	Comando elettrico diretto doppio, ritorno a molla in pos. 0 <i>Double direct electrical control with spring centred in 0</i>		•	•	•	•
D9*	Comando elettrico diretto a due magneti con ritorno a molla in pos. 0 <i>Double direct electrical control with spring centred in 0</i>		•	•	•	•

*** Limitazioni / Limitations**

Comando completo Complete control	Applicabile con: / Applicable with:
	Cursore / Spool
H1	Tutti tranne / All except 116 / 126
H5	
RTL-s	
RTL-d	
C2	
C3	
A1/D41	101 / 102 / 103 / 107 / 108 / 109 / 110 / 111
A2/D41	
A1/DP	
A2/DP	
D9	

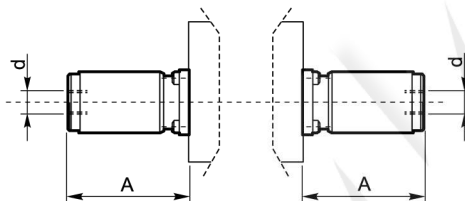
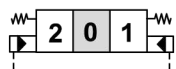
Sezione di lavoro

Working section

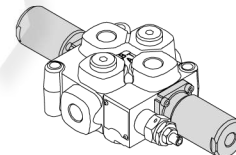


H1

Comando idraulico ad alta pressione ON-OFF a tre posizioni, ritorno a molla in posizione 0
Three positions whit high-pressure hydraulic control, spring centred in 0 position



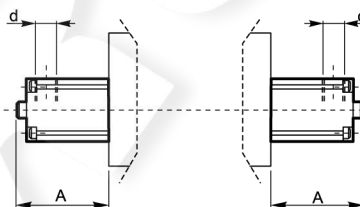
	A	d
Q25 - Q45	70 (2.756)	G 1/4
Q75 - Q95	85 (3.346)	



Pressione di pilotaggio / Pilot pressure	Min.	16 bar (232 PSI)
	Max.	350 bar (5075 PSI)
Volume pilotaggio / Pilot volume	Q25-Q45	2 cm ³ (0.122 in ³)
	Q75-Q95	3 cm ³ (0.183 in ³)

H5

Comando idraulico a bassa pressione a tre posizioni per manipolatore idraulico, ritorno a molla in posizione 0
Three positions whit low-pressure control for hydraulic remote control, spring centred in 0 position



	A	d
Q25 - Q45	50 (1.969)	G 1/4
Q75 - Q95	71.5 (2.815)	

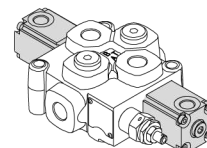
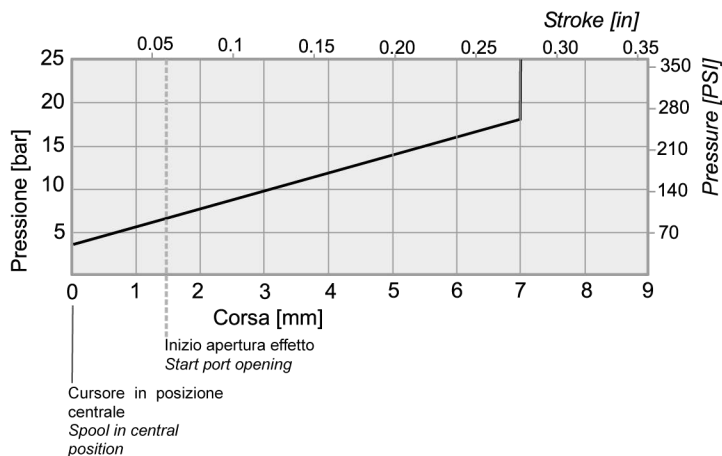
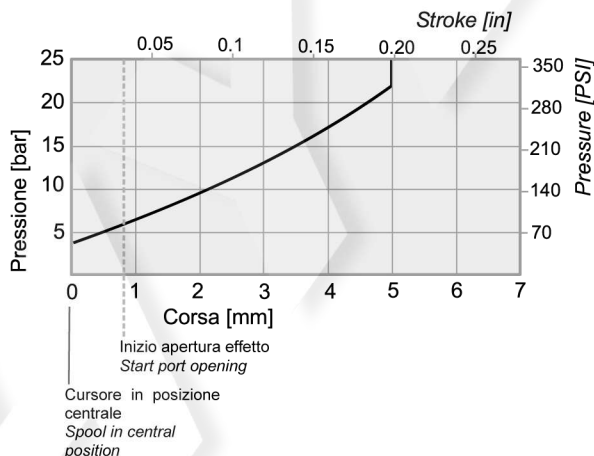


Diagramma pressione di pilotaggio - Corsa spool / Pilot pressure diagram - Spool stroke

Q25 - Q45

Q75 - Q95



Pressione di pilotaggio / Pilot pressure	Max.	100 bar (1450 PSI)
Volume pilotaggio / Pilot volume	Q25-Q45	1 cm ³ (0.061 in ³)
	Q75-Q95	2 cm ³ (0.122 in ³)

Dimensioni in / Dimensions in: mm (inch)

N.B.

Le curve sono ricavate con cursore 103

NOTE: The curves are formed with spool 103 type

Sezione di lavoro

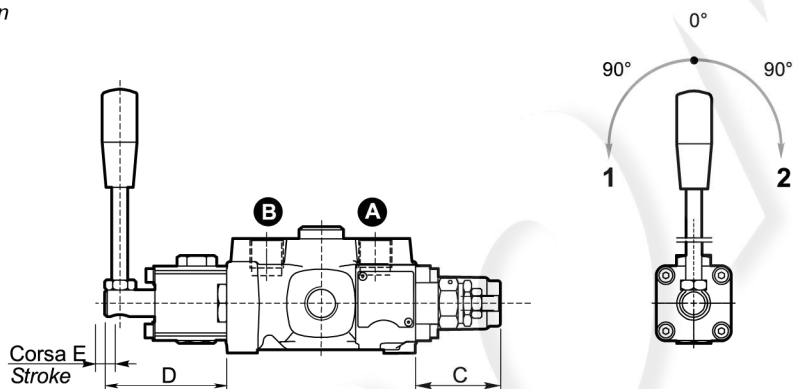
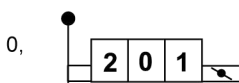
Working section

Q25	F7S	R250	2x	103	H1	F3D	12V	2E
1	2	3		5	6	8	9	10

RTL-s

Tre posizioni con comando rotativo frizionato, tacca in pos. 0, leva in pos. 2

Three positions with rotary control, lever in 2 position

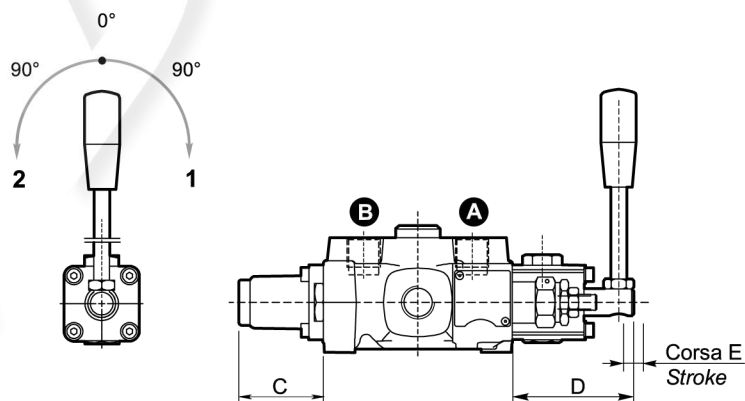


	C	D	E
Q25 - Q45	42 (1.654)	61 (2.402)	10 (5+5) 0.394 (0.197+0.197)
Q75 - Q95	55 (2.165)	72.5 (2.854)	14 (7+7) 0.551 (0.276+ 0.276)

RTL-d

Tre posizioni con comando rotativo frizionato, tacca in pos. 0, leva in pos. 1

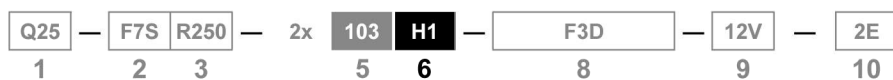
Three positions with rotary control, lever in 1 position



	C	D	E
Q25 - Q45	42 (1.654)	61 (2.402)	10 (5+5) 0.394 (0.197+0.197)
Q75 - Q95	55 (2.165)	72.5 (2.854)	14 (7+7) 0.551 (0.276+ 0.276)

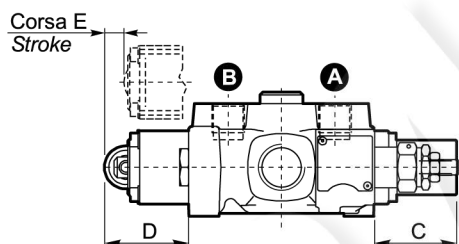
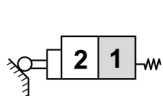
Sezione di lavoro

Working section



C2

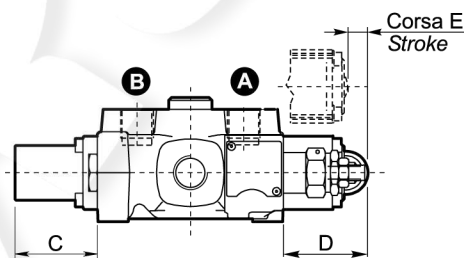
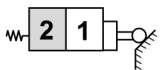
Comando a camme 2 posizioni
estreme 1-2, con ritorno
a molla in pos. 1
*Cam control, 2 end
positions 1-2, spring
centred in 1 position*



	C	D	E
Q25 - Q45	42 (1.654)	43 (1.693)	10 (0.394)
Q75 - Q95	55 (2.165)	51 (2.008)	14 (0.551)

C3

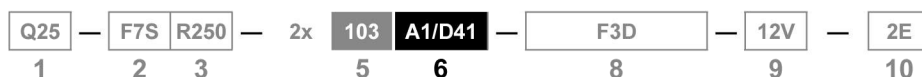
Comando a camme, 2 posizioni
estreme 2-1, con ritorno
a molla in pos. 2
*Cam control, 2 end
positions 2-1,
spring centred in 2 position*



	C	D	E
Q25 - Q45	42 (1.654)	43 (1.693)	10 (0.394)
Q75 - Q95	55 (2.165)	51 (2.008)	14 (0.551)

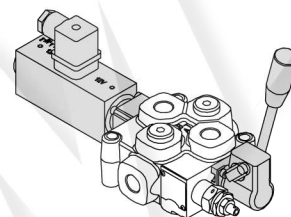
Sezione di lavoro

Working section



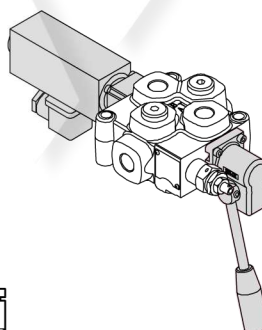
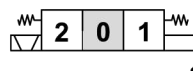
A1/D41

Comando elettrico diretto doppio ON/OFF
con ritorno a molla in posizione 0
ON/OFF double direct electrical control
with spring centred in 0

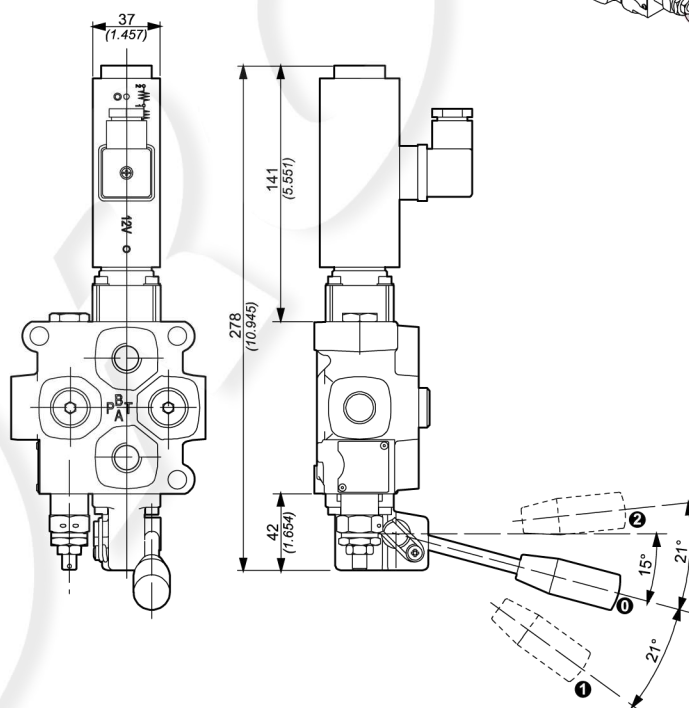


A2/D41

Comando elettrico diretto doppio ON/OFF
ruotato di 180° con ritorno a molla in posizione 0
180° rotated ON/OFF double direct electrical
control with spring centred in 0



Connessione Connection		
	1 - 2	Effetto A Port A
	1 - 3	Effetto B Port B



Dimensioni in / Dimensions in: mm (inch)

Caratteristiche tecniche elettromagnete / Electromagnet technical features

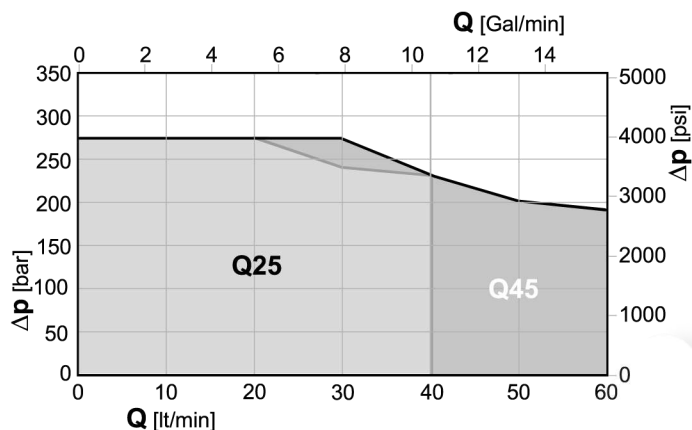
Tipo distributore / Valve type	Q25	Q45
Attacco magnete / Magnet connection	Tipo/Type DIN 43650 (vers. A)	
Tipo protezione / Protection type	IP65	
Classe d'isolamento / Coil insulation class	H	
Tensione di alimentazione / Supply voltage	12V D.C./24V D.C.	
Variazione di tensione max / Maximum voltage tolerance	±10%	
Potenza assorbita / Absorbed power supply	58W	
Rapporto di massimo utilizzo / Maximum utilization ratio	100%	

Caratteristiche tecniche distributore / Directional control valve characteristics

Portata max (lt/min) / Max. flow (Gal/min)	50 (13)	60 (16)
Pressione max di lavoro / Max. working pressure	275 bar (3988 PSI)	
Contropressione max sullo scarico / Max. back outlet pressure	25 bar (3363 PSI)	
Manovra di emergenza o in assenza di corrente / Emergency operation or in case of power failure	Con leva / With lever	
Trafilamento max di A e B in T a 100 bar con viscosità 35 mm²/s Max. spool leakage of A and B ports to T port at 1450 PSI with viscosity 35 mm²/s	5 cm³/min	

Sezione di lavoro

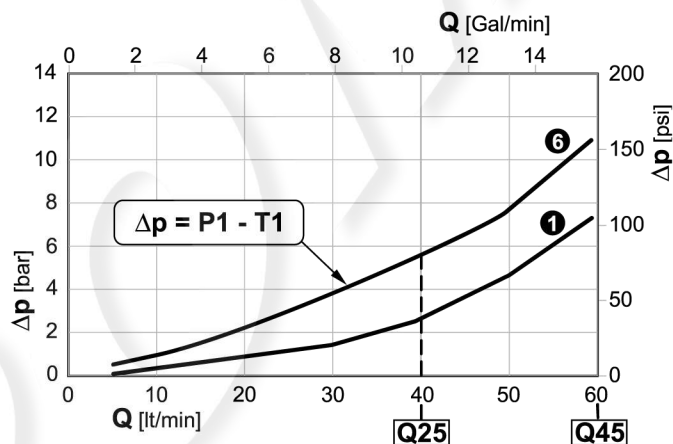
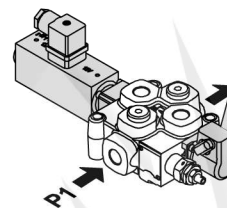
Limiti d'impiego / Use limits



Working section

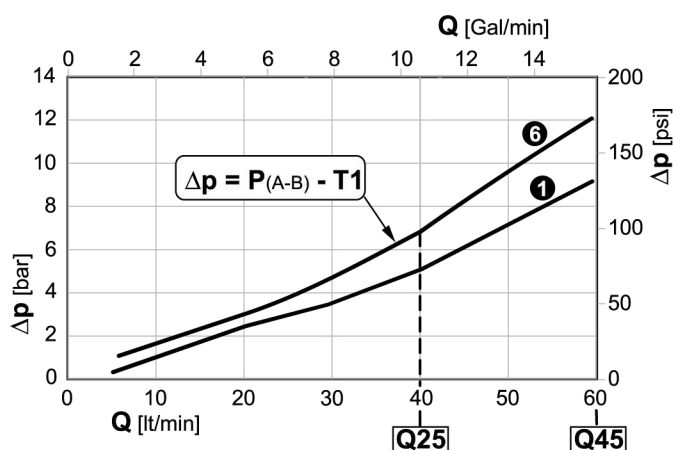
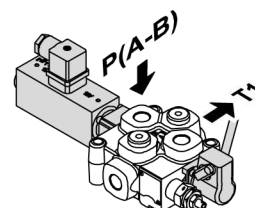
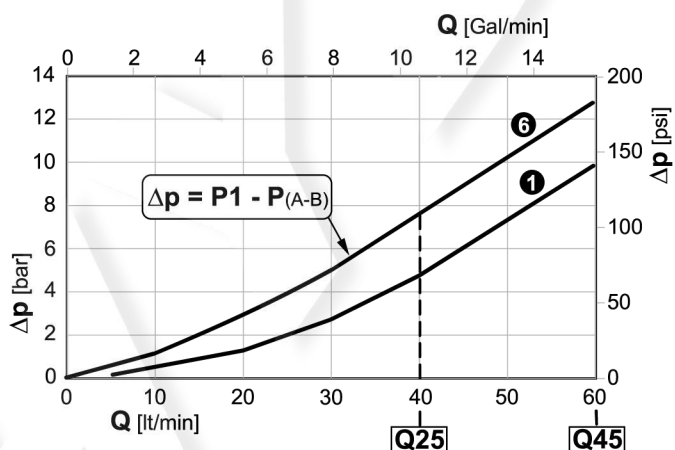
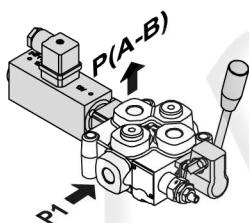
Perdite di carico con il cursore in posizione neutra (Δp in funzione del numero di sezioni attraversate)

Pressure drop with spool in neutral position (Δp depending on the number of the crossed sections)



Perdite di carico con il cursore in posizione di lavoro (Δp in funzione del numero di sezioni attraversate)

Pressure drop with spool in working position (Δp depending on the number of the crossed sections)

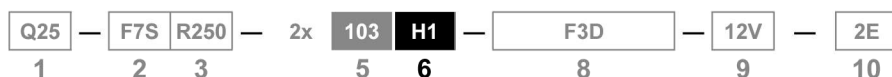


1 6 Sezioni / Sections

N.B. Le curve sono ricavate con cursore 103 / NOTE. Performance curves measured using spool 103 type.

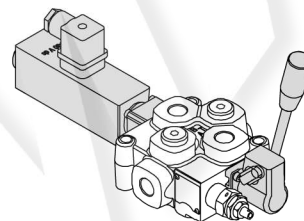
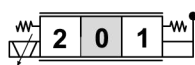
Sezione di lavoro

Working section



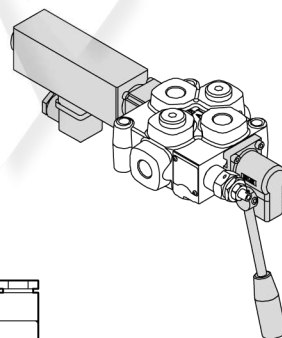
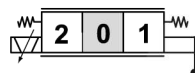
A1/DP

Comando elettrico diretto doppio con magnete proporzionale e ritorno a molla in posizione 0
Double direct electrical control with proportional solenoid and spring centred in 0

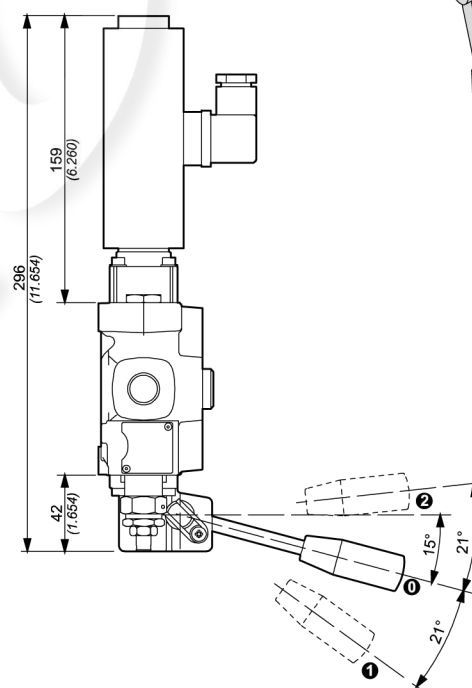
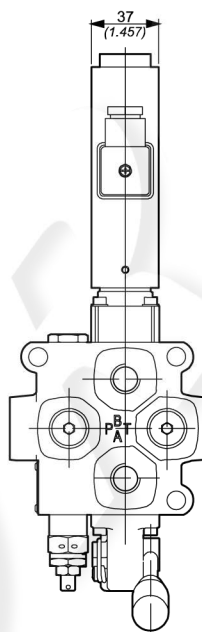


A2/DP

Comando elettrico diretto doppio con magnete proporzionale ruotato di 180° e ritorno a molla in posizione 0
180° rotated double direct electrical control with proportional solenoid and spring centred in 0



Connessione Connection		
	1 - 2	Effetto A Port A
	1 - 3	Effetto B Port B



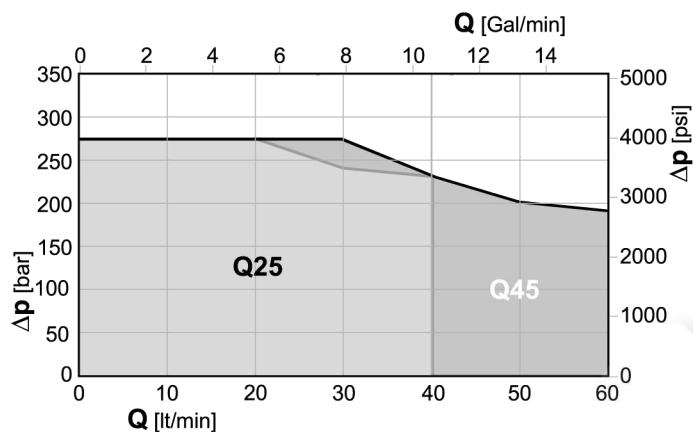
Per l'elettronica di comando contattare l'ufficio commerciale.
For electronic control unit contact the sales office.

Dimensioni in / Dimensions in: mm (inch)

Caratteristiche tecniche elettromagnete / <i>Electromagnet technical features</i>		
Tipo distributore / <i>Valve type</i>	Q25	Q45
Attacco magnete / <i>Magnet connection</i>	Tipo/Type DIN 43650 (vers. A)	
Tipo protezione / <i>Protection type</i>	IP65	
Classe d'isolamento / <i>Coil insulation class</i>	H	
Tensione di alimentazione / <i>Supply voltage</i>	12 VDC	24 VDC
Corrente di regolazione massima / <i>Current maximum range</i>	5A	2.5A
PWM frequency	100 Hz	
Caratteristiche tecniche / <i>Technical characteristics</i>		
Portata max (lt/min) / <i>Max. flow (Gal/min)</i>	30 (8)	60 (16)
Pressione max di lavoro / <i>Max. working pressure</i>	250 bar	
Contropressione max sullo scarico / <i>Max. back outlet pressure</i>	25 bar	
Manovra di emergenza o in assenza di corrente / <i>Emergency operation or in case of power failure</i>	Con leva / <i>With lever</i>	
Trafilamento max di A e B in T a 100 bar con viscosità 35 mm²/s <i>Max. spool leakage of A and B ports to T port at 1450 bar with viscosity 35 mm²/s</i>	5 cm³/min	

Sezione di lavoro

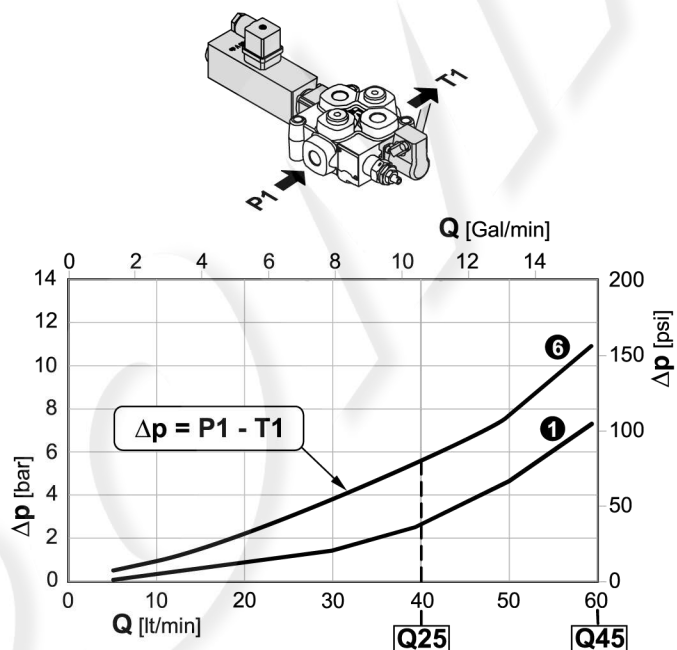
Limiti d'impiego / Use limits



Working section

Perdite di carico con il cursore in posizione neutra (Δp in funzione del numero di sezioni attraversate)

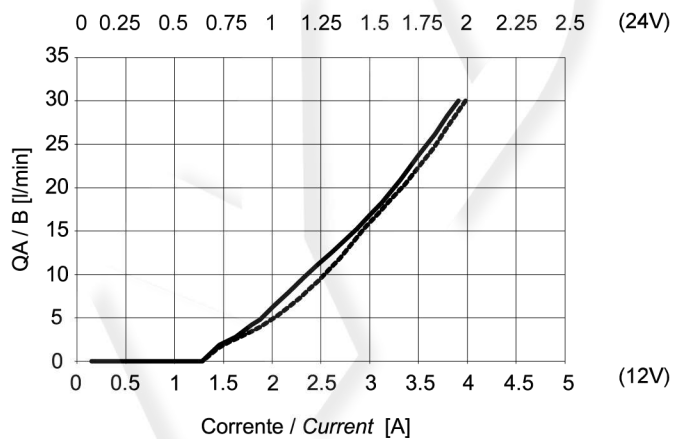
Pressure drop with spool in neutral position (Δp depending on the number of the crossed sections)



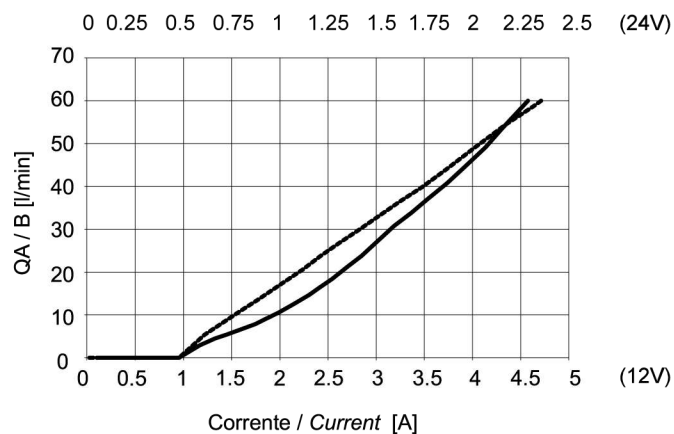
N.B. Le curve sono ricavate con cursore 103 / NOTE: Performance curves measured using spool 103 type.

① ⑥ Sezioni / Sections

Curve di metering corrente bassa portata Q_{in} 30 l/min
Metering curve current low delivery Q_{in} 30 l/min



Curve di metering corrente bassa portata Q_{in} 60 l/min
Metering curve current low delivery Q_{in} 60 l/min



--- Cursore 111 / Spool 111 type
— Cursore 103 / Spool 103 type

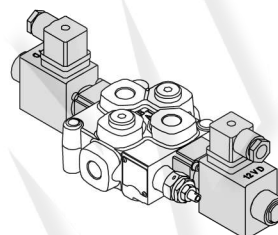
Sezione di lavoro

Working section

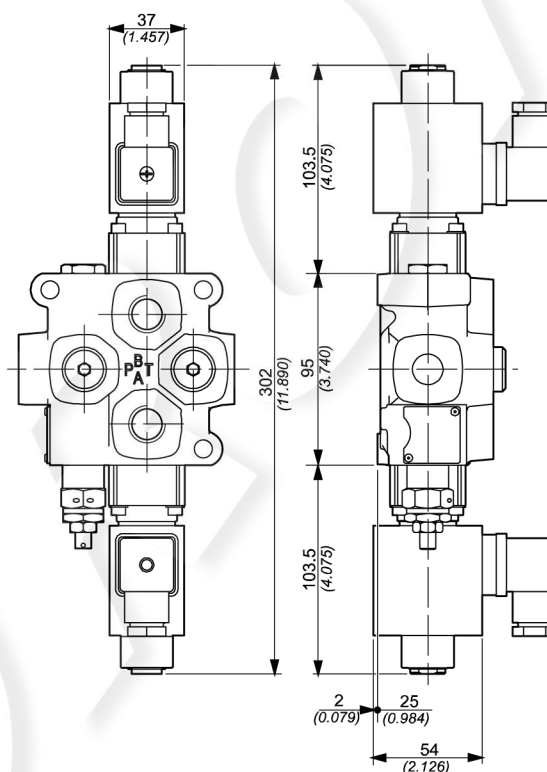
Q25	F7S	R250	2x	103	H1	F3D	12V	2E
1	2	3		5	6	8	9	10

D9

Comando elettrico diretto doppio ON/OFF
con ritorno a molla in posizione 0
ON/OFF double direct electrical control
with spring centred in 0



Connessione Connection		
	1 - 2	Effetto A Port A
	1 - 3	Effetto B Port B

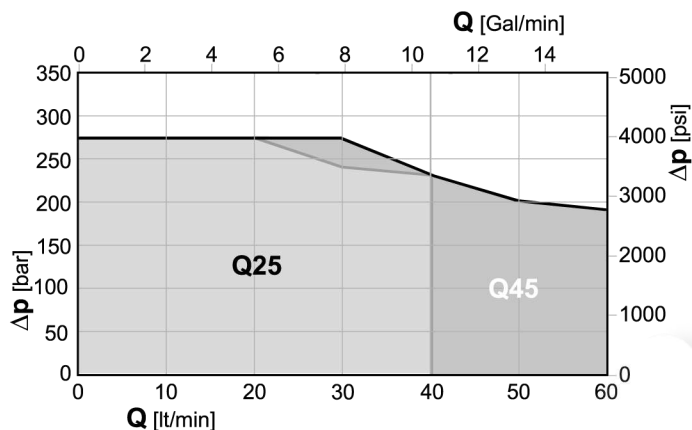


Dimensioni in / Dimensions in: mm (inch)

Caratteristiche tecniche elettromagnete / <i>Electromagnet technical features</i>		
Tipo distributore / <i>Valve type</i>	Q25	Q45
Attacco magnete / <i>Magnet connection</i>	Tipo/Type DIN 43650 (vers. A)	
Tipo protezione / <i>Protection type</i>	IP65	
Classe d'isolamento / <i>Coil insulation class</i>	H	
Tensione di alimentazione / <i>Supply voltage</i>	12V D.C./24V D.C.	
Variazione di tensione max / <i>Maximum voltage tolerance</i>	±10%	
Potenza assorbita / <i>Absorbed power supply</i>	58W	
Rapporto di massimo utilizzo / <i>Maximum utilization ratio</i>	100%	
Caratteristiche tecniche distributore / <i>Directional control valve characteristics</i>		
Portata max / <i>Max. flow</i>	50	60
Pressione max di lavoro / <i>Max. working pressure</i>	275 bar	
Contropressione max sullo scarico / <i>Max. back outlet pressure</i>	25 bar	
Manovra di emergenza o in assenza di corrente / <i>Emergency operation or in case of power failure</i>	A pulsante in spinta / <i>Push type</i>	
Trafilamento max di A e B in T a 100 bar con viscosità 35 mm²/s / <i>Max. spool leakage of A and B ports to T port at 100 bar with viscosity 35 mm²/s</i>	5 cm³/min	

Sezione di lavoro

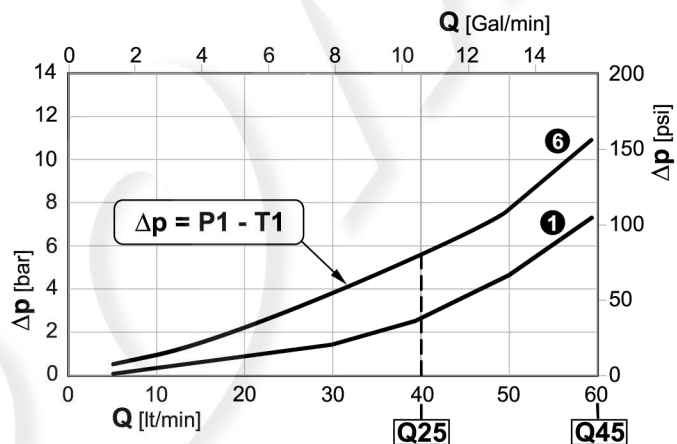
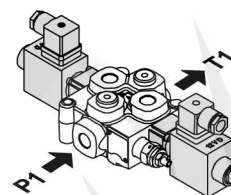
Limiti d'impiego / Use limits



Working section

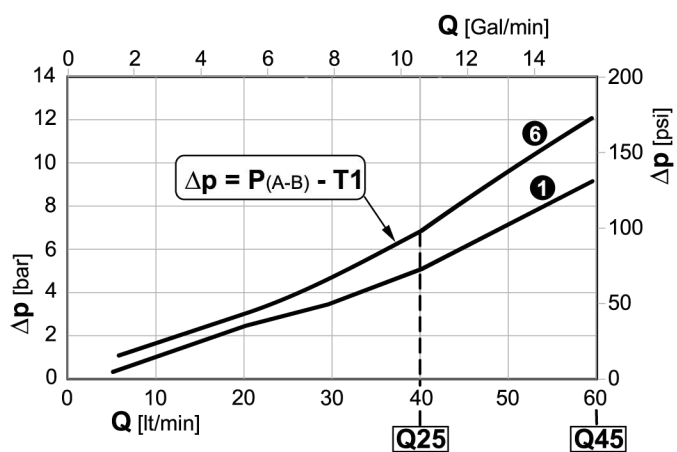
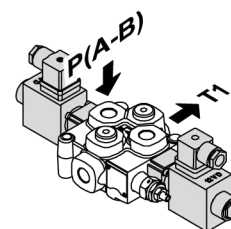
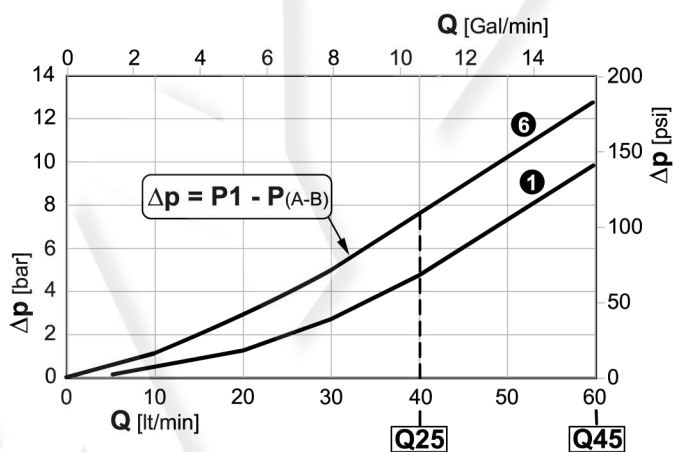
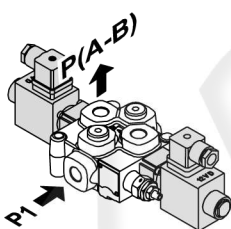
Perdite di carico con il cursore in posizione neutra (Δp in funzione del numero di sezioni attraversate)

Pressure drop with spool in neutral position (Δp depending on the number of the crossed sections)



Perdite di carico con il cursore in posizione di lavoro (Δp in funzione del numero di sezioni attraversate)

Pressure drop with spool in working position (Δp depending on the number of the crossed sections)



① ⑥ Sezioni / Sections

N.B. Le curve sono ricavate con cursore 103 / NOTE: Performance curves measured using spool 103 type.

Fiancata di scarico							Outlet section type		
Q25	F7S	R250	2x	103	A1	M1	F3D	12V	2E+1
1	2	3		5	6	7	8	9	10

8 - Tipo fiancata di scarico / Outlet section type

			Q15	GMV 15	Q35	Q25	Q45	Q65	Q75	Q95
F3D	Fiancata di scarico	Outlet section	•	•	•	•	•	•	•	•
F6D	Fiancata di scarico con alimentazione in pressione per altri componenti (carry-over)	Outlet section and high pressure (carry-over)		•		•	•	•	•	•
F16D	Fiancata di scarico destro per centro chiuso	Right outlet section for through passage closed		•		•	•	•	•	•

F3D

Fiancata di scarico
Outlet section

F6D

Fiancata di scarico con alimentazione in pressione per altri componenti (carry-over)
Outlet section and high pressure (carry-over)

Per il GMV15 vedere l'installazione del carry-over a pag. F10
For GMV15 Carry Over installation see page F10

F16D

Fiancata di scarico destro per centro chiuso
Right outlet section for through passage closed

Per il GMV15 vedere l'installazione del carry-over a pag. F10
For GMV15 Carry Over installation see page F10

Note aggiuntive

Additional notes

Q25	F7S	R250	2x	103	A1	M1	F3D	12V	2E
1	2	3		5	6	7	8	9	10

9 - Note aggiuntive / Additional notes

12V, 24V

S Alluminio (pag. F-6 ... F-10)

Codice asta di comando (vedi tabella seguente)

8 - Additional notes

12V, 24V

S Aluminium (page F-6 ... F-10)

Control lever code (see next table)

Codice / Code	Versione / Version	M	L	D	A	B	Colore / Color
---------------	--------------------	---	---	---	---	---	----------------

Q35 - Q15 - GMV15 - Q25 - Q45

Dimensioni in / Dimensions in: mm (inch)

06.029.22862	1	Standard / Standard	M8	164 (6.457)	20 (0.787)	57 (2.244)	20 (0.787)	Nero / Black
06.029.30335	1	Standard / Standard	M8	164 (6.457)	20 (0.787)	57 (2.244)	20 (0.787)	Rosso / Red
06.029.30528	1	Lunga tipo A / Long version type A	M8	184 (7.244)	20 (0.787)	57 (2.244)	20 (0.787)	Nero / Black
06.029.30492	1	Lunga tipo A / Long version type A	M8	184 (7.244)	20 (0.787)	57 (2.244)	20 (0.787)	Rosso / Red
06.029.28922	1	Lunga / Long version	M8	204 (8.031)	20 (0.787)	57 (2.244)	20 (0.787)	Nero / Black
06.029.30336	1	Lunga / Long version	M8	204 (8.031)	20 (0.787)	57 (2.244)	20 (0.787)	Rosso / Red
06.029.27421	1	Extra lunga / Extra-long	M8	324 (12.756)	20 (0.787)	57 (2.244)	20 (0.787)	Nero / Black
06.029.22876	1	Extra corta / Extra-short	M8	82 (3.228)	18 (0.709)	50 (1.969)	20 (0.787)	Nero / Black
06.029.29451	2	Standard con oblo' / Standard with lens	M8	174 (6.850)	32 (1.260)	46 (1.811)	20 (0.787)	Nero / Black
06.029.29423	2	Lunga con oblo' / Long with lens	M8	214 (8.425)	32 (1.260)	46 (1.811)	20 (0.787)	Nero / Black

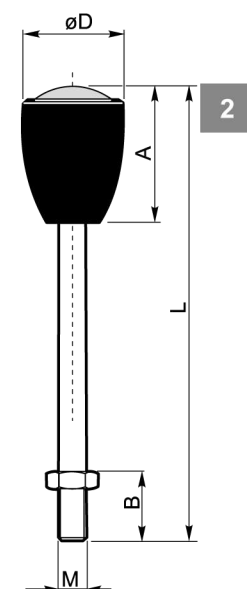
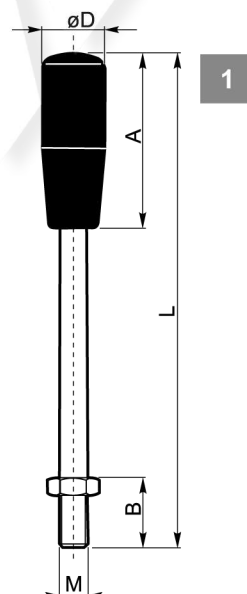
Q75 - Q95

06.029.27013	1	Standard / Standard	M10	209 (8.228)	20 (0.787)	57 (2.244)	28 (1.102)	Nero / Black
06.029.28148	1	Lunga / Long version	M10	357 (14.055)	20 (0.787)	57 (2.244)	28 (1.102)	Nero / Black
06.029.27344	1	Corta / Short version	M10	154 (6.063)	20 (0.787)	57 (2.244)	28 (1.102)	Nero / Black
06.029.27635	1	Extra corta / Extra-short	M10	66 (2.598)	26 (1.024)	42 (1.654)	22 (0.866)	Nero / Black
06.029.29866	2	Standard con oblo' / Standard with lens	M10	219 (8.622)	32 (1.260)	46 (1.811)	28 (1.102)	Nero / Black
06.029.30295	2	Lunga con oblo' / Long with lens	M10	367 (14.449)	32 (1.260)	46 (1.811)	28 (1.102)	Nero / Black

Per comando elettrico / For electric control Q25 - Q45

06.029.28945	1	Standard / Standard	Ø7	133 (5.236)	20 (0.787)	57 (2.244)	15 (0.591)	Nero / Black
06.029.29349	1	Lunga / Long version	Ø7	201 (7.913)	20 (0.787)	57 (2.244)	15 (0.591)	Nero / Black
06.029.30951	2	Standard con oblo' / Standard with lens	Ø7	143 (5.630)	32 (1.260)	46 (1.811)	15 (0.591)	Nero / Black

Dimensioni in / Dimensions in: mm (inch)



Note aggiuntive

Additional notes

Q25	F7S	R250	2x	103	A1	M1	F3D	12V	2E
1	2	3		4	5	6	7	8	9

10 - Numero elementi

Specificare il numero delle sezioni di lavoro previste (es. 2E).

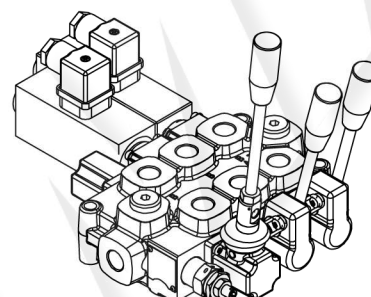
10 - Number of sections

Specify the number of working sections used (e.g. 2E).

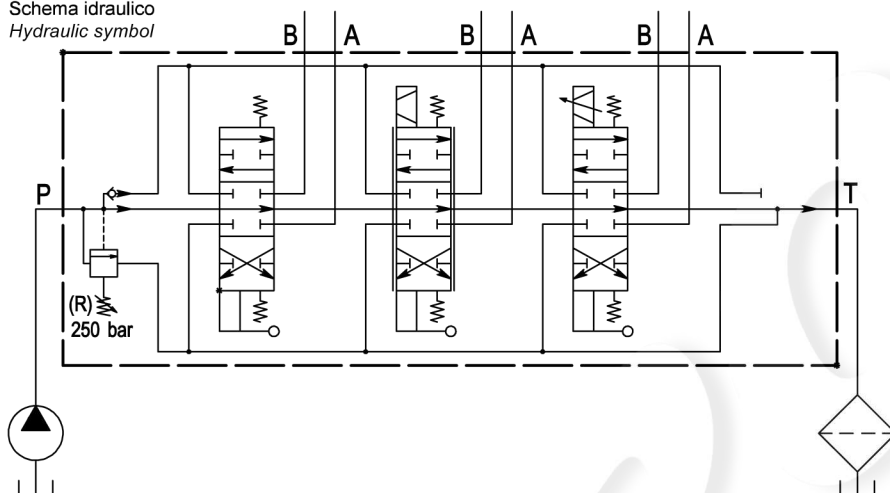
ESEMPI DI ORDINAZIONE IN CODICE ORDERING CODE EXAMPLES

Q25 - F1S R(250) - 103/A1/M1 - 103/A1/D41 - 103/A1/DP - F3D - 12V - 3E

A	B	C	D	E
1	2 3	5 - 6 - 7	8	9 - 10
Q25	F1S R250	103/A1/M1 103/A1/D41 103/A1/DP	F3D	12V - 3E

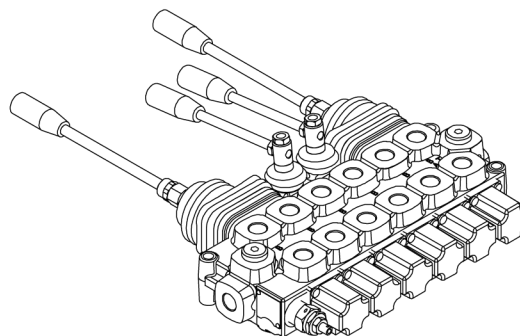


Schema idraulico
Hydraulic symbol

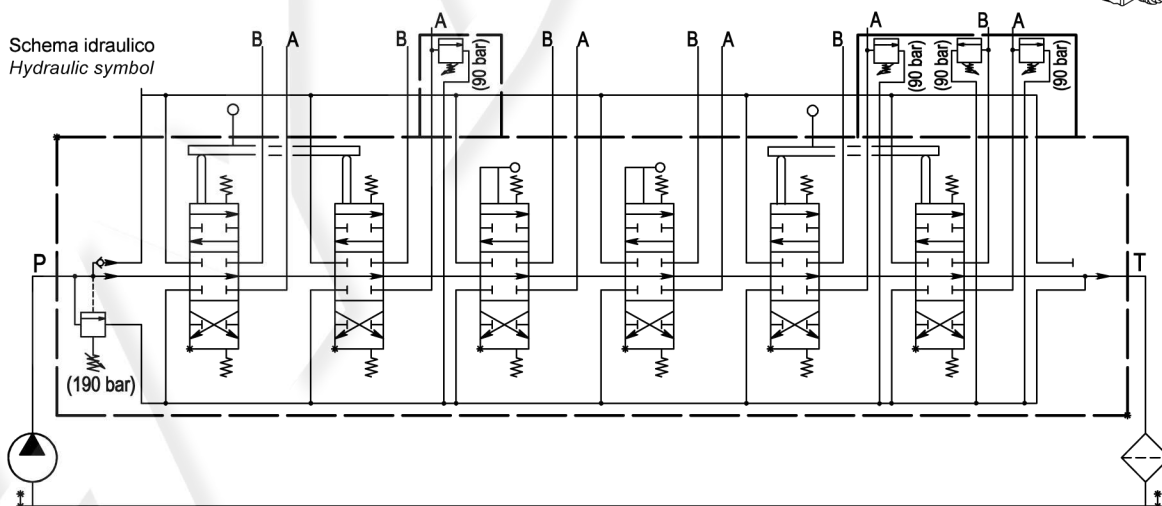


Q25 - F1S(N) - 103/M1/A352 - 103/M1/V30(N) - 2x103/M1/A1 - 103/M1/A354/V30(N) - 103/M1/V32(N) - F3D - 6E

A	B	C	D	E
1	2 3	5 - 6 - 7	8	9 - 10
Q25	F1S N190	103/M1/A352 103/M1/V30(N) 2x 103/M1/A1 103/M1/A354/V30(N) 103/M1/V32(N)	F3D	6E



Schema idraulico
Hydraulic symbol

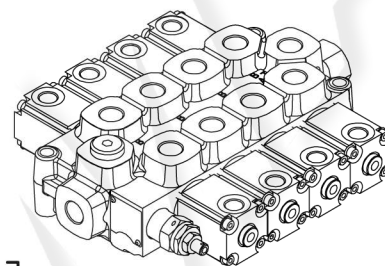


- A - Tipo / Type
- B - Fiancata d'ingresso / Inlet section
- C - Sezione di lavoro / Working section
- D - Fiancata di scarico / Outlet section
- E - Note aggiuntive / Additional notes

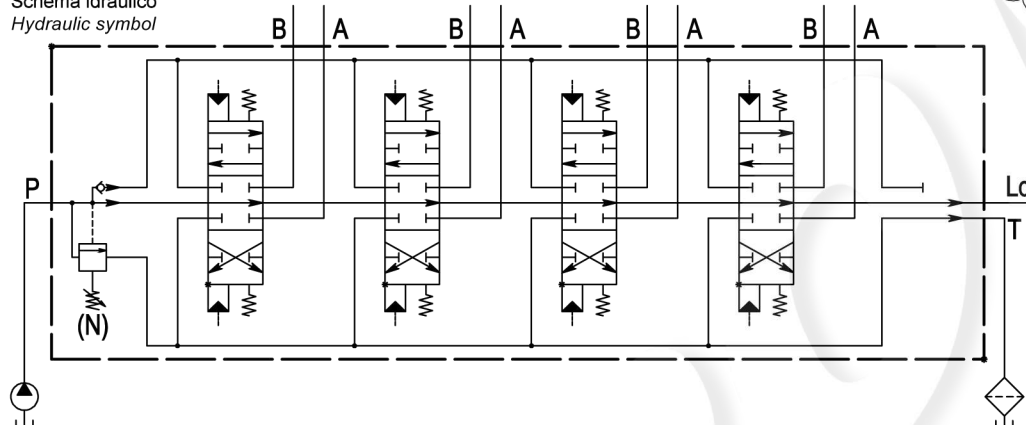
ESEMPI DI ORDINAZIONE IN CODICE ORDERING CODE EXAMPLES

Q25 - F1S(N) - 4x103/H5 - F6D - 4E

A	B	C	D	E
1	2 3	5 - 6 - 7	8	9 - 10
Q25	F1S N180 4x	103/H5	F6D	4E

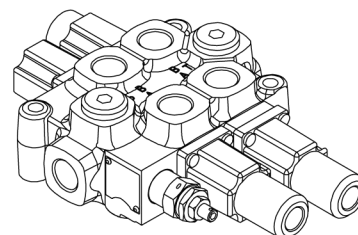


Schema idraulico
Hydraulic symbol

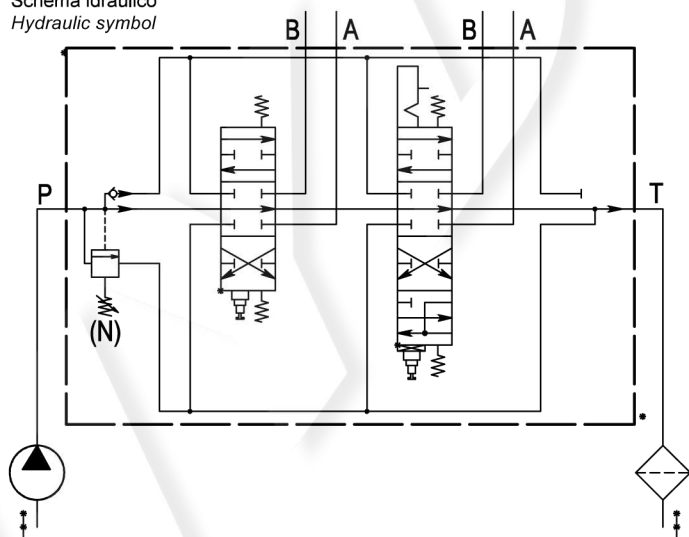


Q45 - F1S(N) - 103/A8/M1 - 116/A8-Z1/R8 - F3D - 2E

A	B	C	D	E
1	2 3	5 - 6 - 7	8	9 - 10
Q45	F1S R250	103/A8/M1 116/A8-Z1/R8	F3D	2E



Schema idraulico
Hydraulic symbol

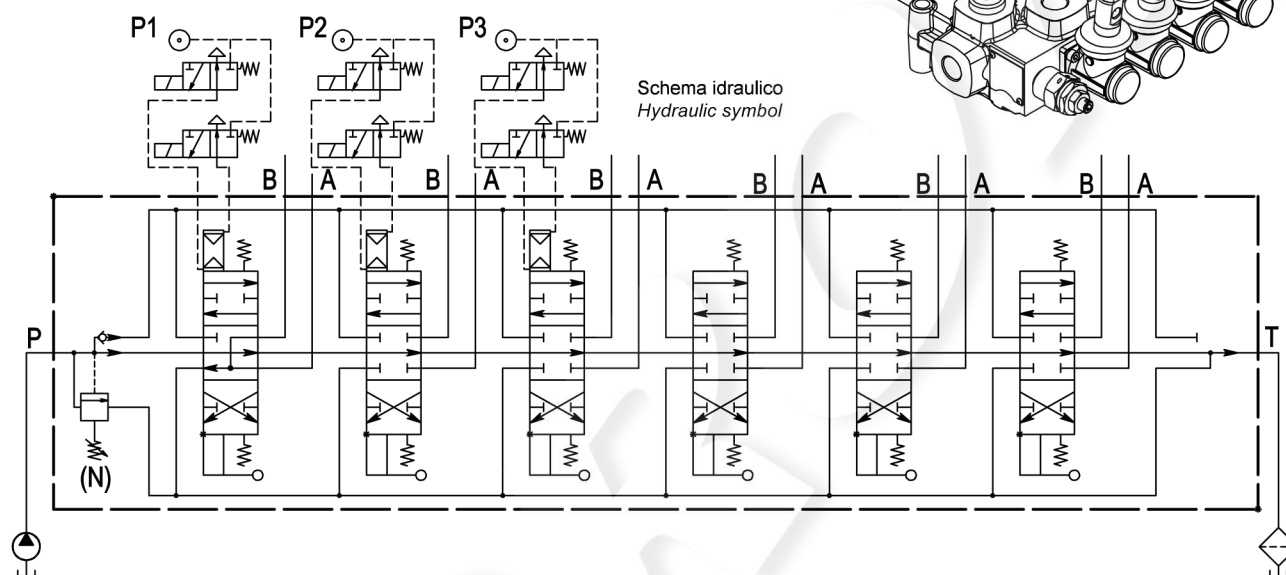
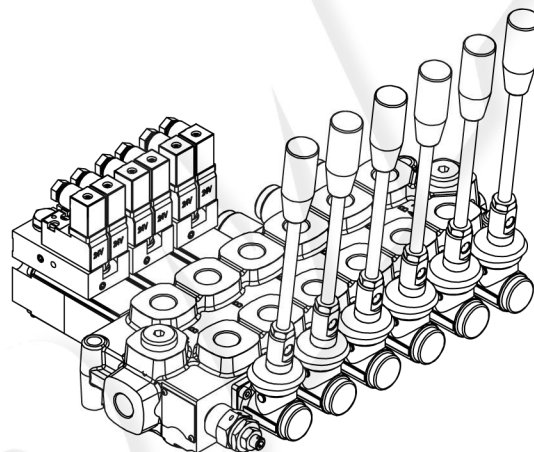


- A - Tipo / Type
- B - Fiancata d'ingresso / Inlet section
- C - Sezione di lavoro / Working section
- D - Fiancata di scarico / Outlet section
- E - Note aggiuntive / Additional notes

ESEMPI DI ORDINAZIONE IN CODICE ORDERING CODE EXAMPLES

Q25 - F1S (N) - 111/A1/D3 - 2x103/A1/D3 - 3x103/A1/M1 - F3D - S 24V - 6E

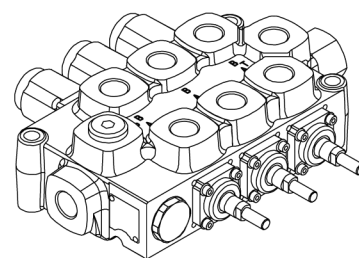
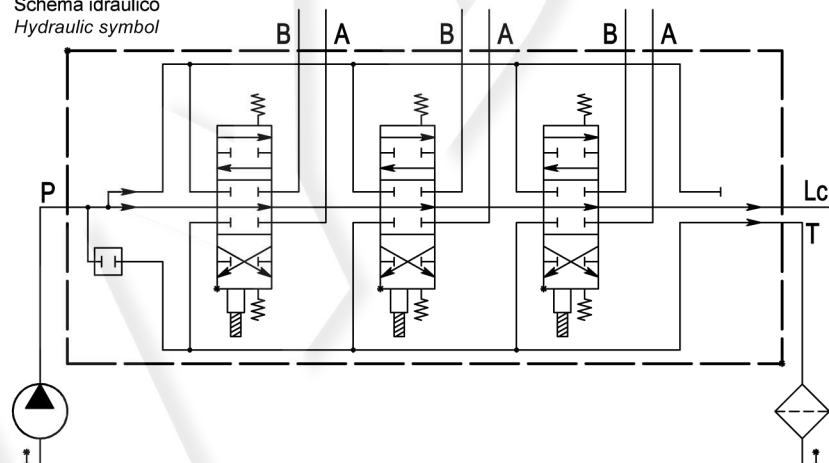
A	B	C	D	E
1	2 3	5 - 6 - 7	8	9 - 10
Q25	F1S N180	111/A1/D3 2x 103/A1/D3 3x 103/A1/M1	F3D	S 24V - 6E



Q75 - F8S(N) - 3x103/A4/M1 - F6D - 3E

A	B	C	D	E
1	2 3	5 - 6 - 7	8	9 - 10
Q75	F8S N180 3x	103/A4/M1	F6D	3E

Schema idraulico
Hydraulic symbol



- A - Tipo / Type
- B - Fiancata d'ingresso / Inlet section
- C - Sezione di lavoro / Working section
- D - Fiancata di scarico / Outlet section
- E - Note aggiuntive / Additional notes