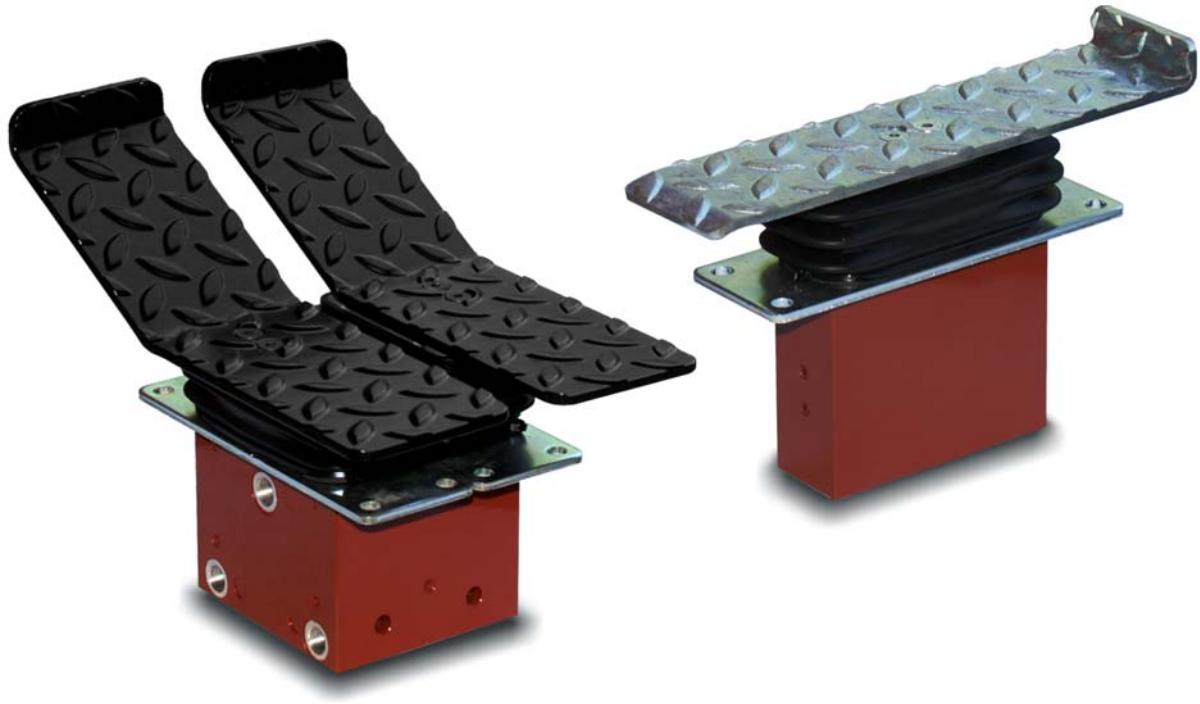
Serie SVM500 – *SVM500 series*

Servocomandi idraulici a pedale per macchine mobili
Pedal hydraulic pilot valves for mobile machines

New!



- Comando a pedale per una o due sezioni di lavoro nelle valvole di controllo direzionale
- Alta sensibilità e bassa forza di azionamento.
- Ingombri e peso ridotti
- Predisposto per il montaggio di differenti pedali

- *Pedal joystick to control one or two directional control valve working sections.*
- *High sensitivity and low force.*
- *Reduced dimensions and weight.*
- *Arranged for coupling with several types of pedals*

Condizioni di lavoro

I dati e i diagrammi riportati in questo volantino sono stati rilevati con olio a base minerale avente viscosità di 46 mm^2/s alla temperatura di 40°C.

Portata . . . . . : da 5 a 20 l/min
Pressione di alimentazione (bocca P) . . . . : da 30 a 100 bar

Massima contropressione (bocca T) . . . . . : 3 bar
Massima isteresi . . . . . : 0,5 bar
Fuga interna a 30 bar (P⇒T) per sezione : da 2.5 a 4.5 cm^3/min

Fluido . . . . . : Olio minerale
Grado di contaminazione del fluido . . . . . : –/15/12 –ISO4406
Campo di temperatura del fluido . . . . . : da –10°C a 80°C
Campo di temperatura ambientale . . . . . : da –40°C a 60°C

Working conditions

This data sheet shows technical specifications and diagrams measured with mineral oil of 46 mm^2/s (cSt) viscosity at 40 °C temperature.

Flow . . . . . : from 5 to 20 l/min
Feeding pressure (on port P) . . . . . : from 30 to 100 bar (435 to 1450 psi)
Max. backpressure (on port T) . . . . : 3 bar (43.5 psi)
Max. hysteresis . . . . . : 0.5 bar (7.25 psi)
Internal leakage at 30 bar / 435 psi for section (P⇒T) . . . . . : from 2.5 to 4.5 cm^3/min (0.15 to 0.27 in^3/min)

Fluid . . . . . : Mineral oil
Max. level of fluid contamination . . : –/15/12 –ISO4406
Fluid temperature . . . . . : from –10 °C to 80 °C
Ambient temperature . . . . . : from –40 °C to 60 °C

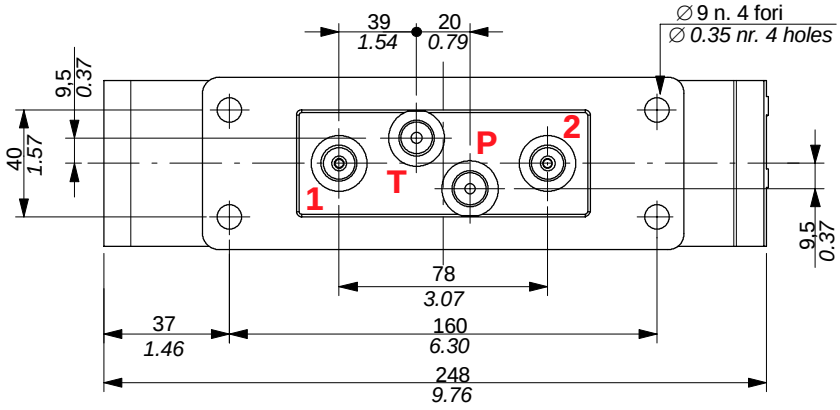
DFV011IE

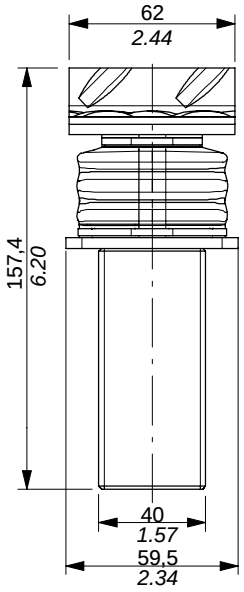
3ª edizione Aprile 2007: **Questa edizione aggiorna tutte le precedenti.**
3rd edition April 2007: ***This edition supercedes all prior documents.***

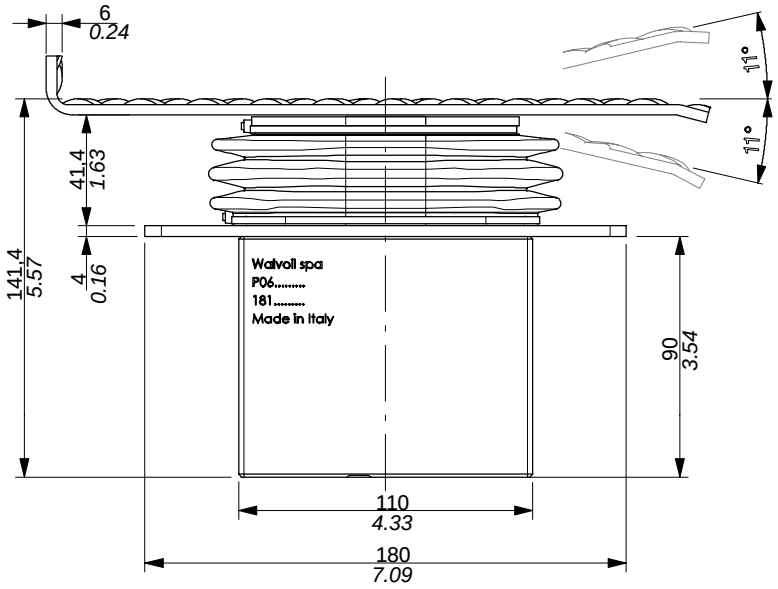
walvoil
HYDRAULIC CONTROL SYSTEMS

Servocomando tipo SVM500 — *SVM500 hydraulic pilot control valve*

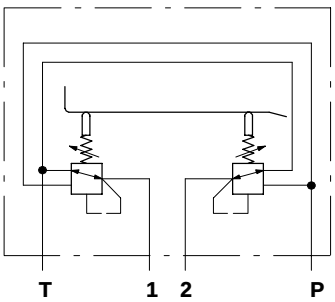
Dimensioni e circuito idraulico — *Dimensional data and hydraulic circuit*







Circuito idraulico
Hydraulic circuit



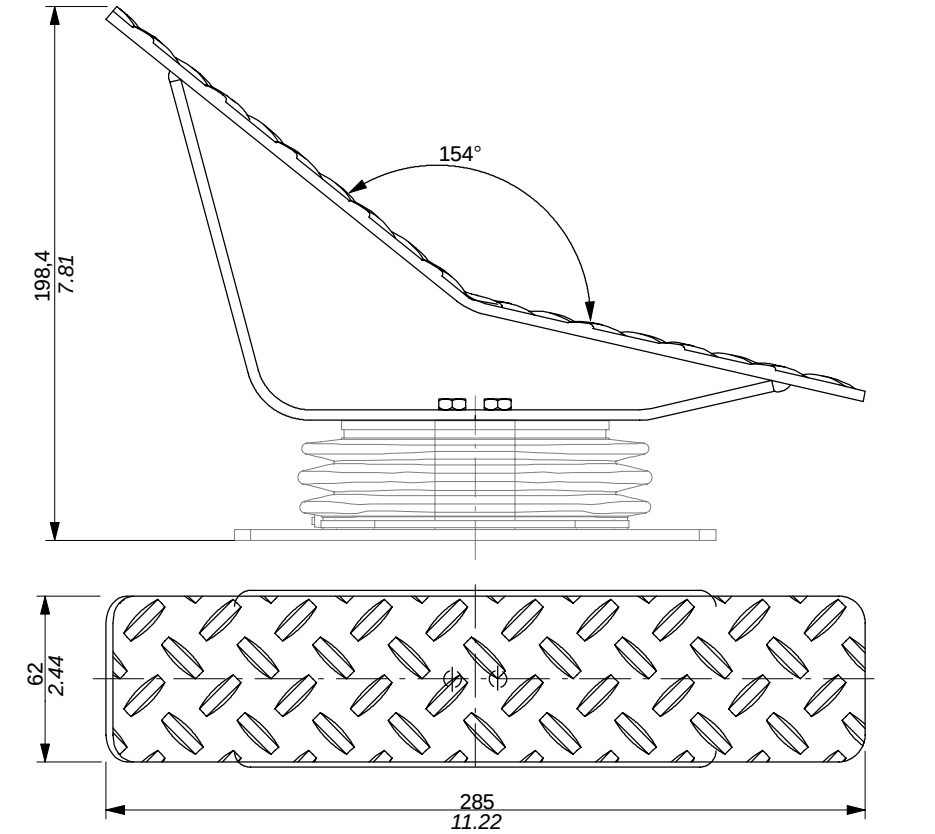
Filettature – *Threads*

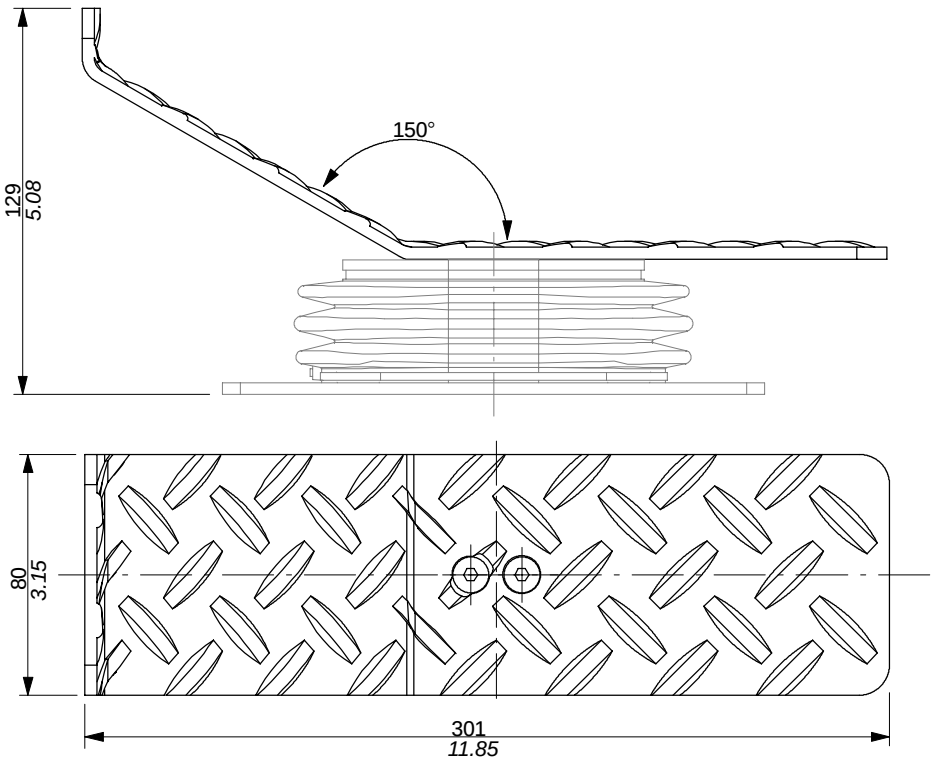
Tutte le bocche - *All ports*

BSP (ISO 228/1)	UN-UNF (ISO 11926-1)	METRICA *METRIC* (UNI-ISO 6149)
G 1/4	7/16-20 (SAE 4)	M12x1.5

Servocomando tipo SVM500 — *SVM500 hydraulic pilot control valve*

Pedali opzionali — *Optional pedals*



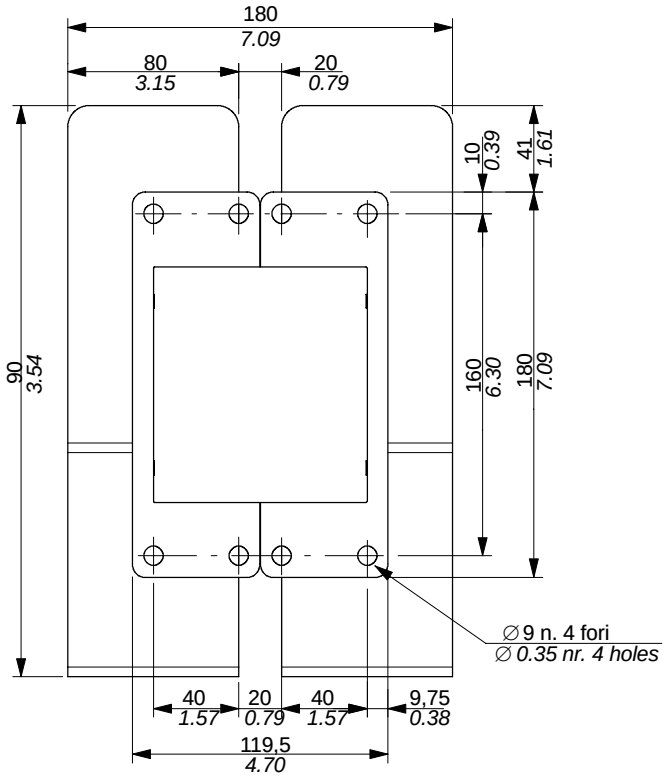


Servocomando tipo SVM540 — *SVM540 hydraulic pilot control valve*

Dimensioni e circuito idraulico — *Dimensional data and hydraulic circuit*

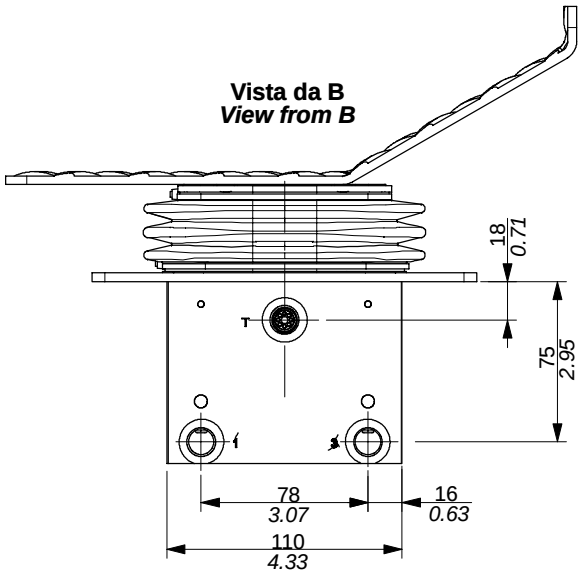
Esecuzione a doppio pedale dotata di sistema di smorzamento delle oscillazioni.

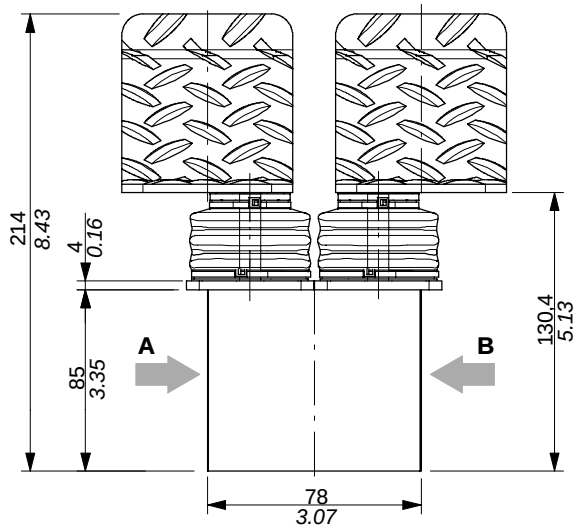
This double pedal configuration is provided of damping system, for swing reduction.

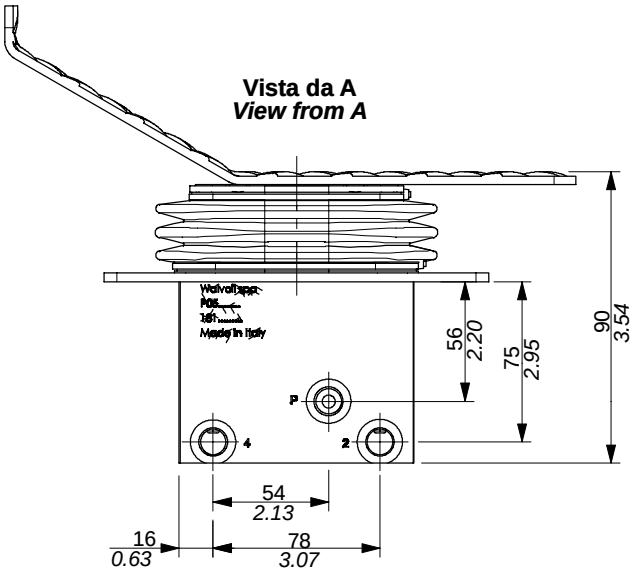


NOTA: Il disegno non è in scala con quelli delle altre pagine.

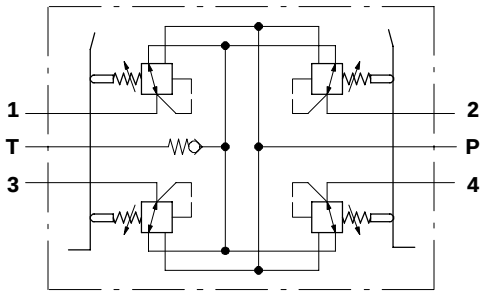
NOTE: The scale of the draw is not the same of the other pages.







Circuito idraulico - *Hydraulic circuit*

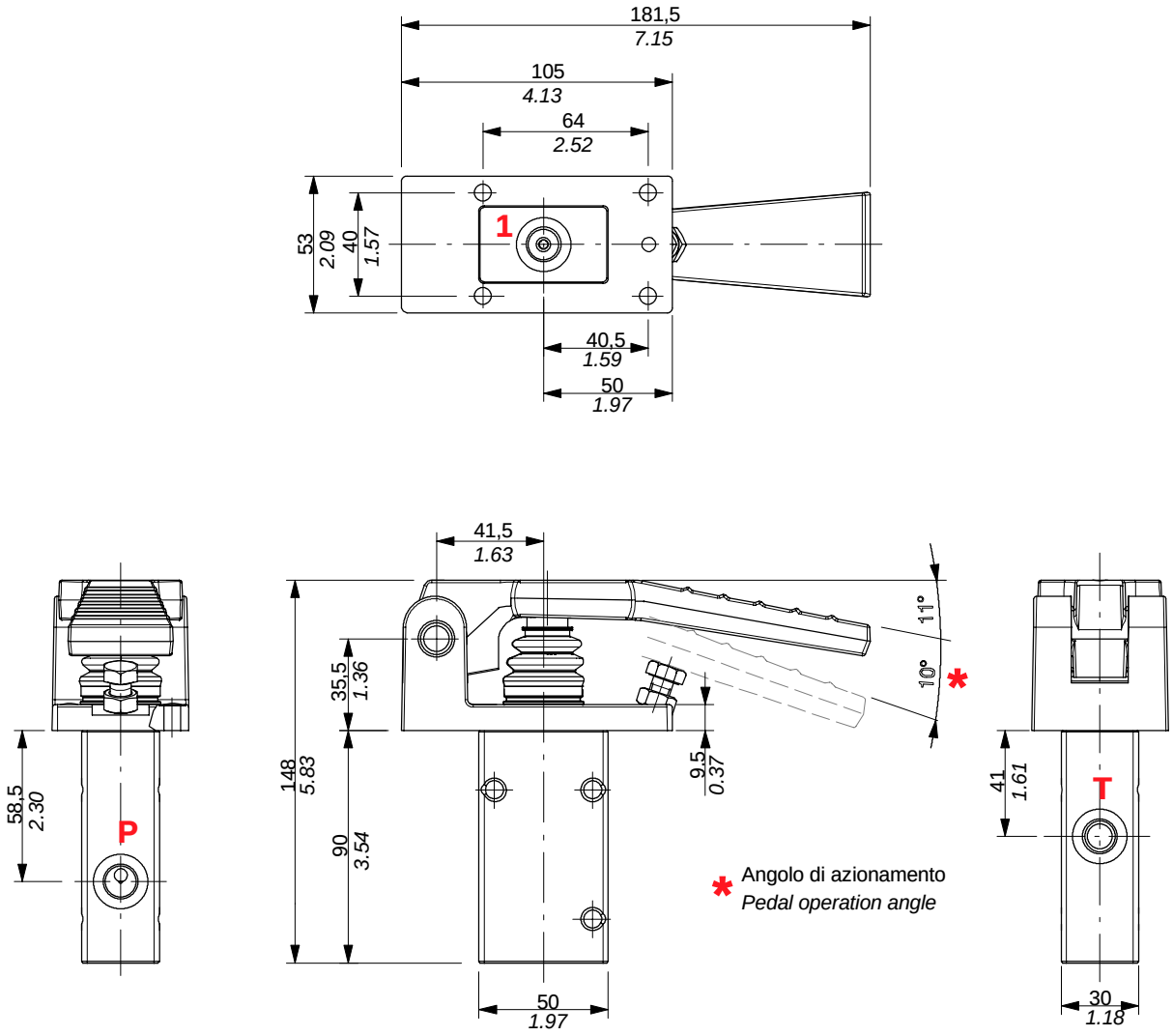


Filettature - *Threads*

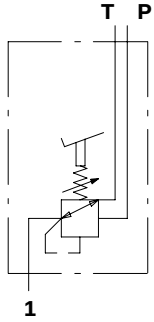
Tutte le bocche - *All ports*

BSP (ISO 228/1)	UN-UNF (ISO 11926-1)	METRICA *METRIC* (UNI-ISO 6149)
G 1/4	7/16-20 (SAE 4)	M12x1.5

Servocomando tipo SVM510 — *SVM510 hydraulic pilot control valve*



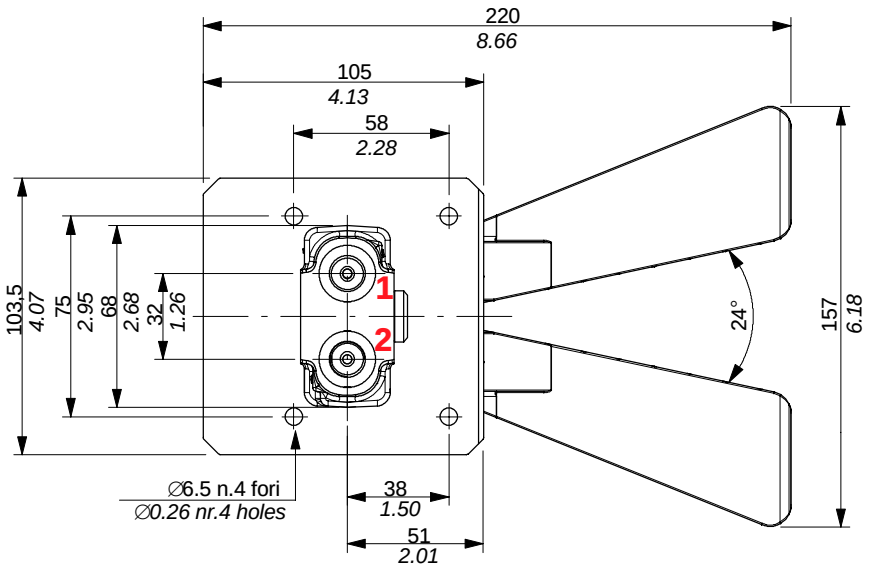
Circuito idraulico
Hydraulic circuit



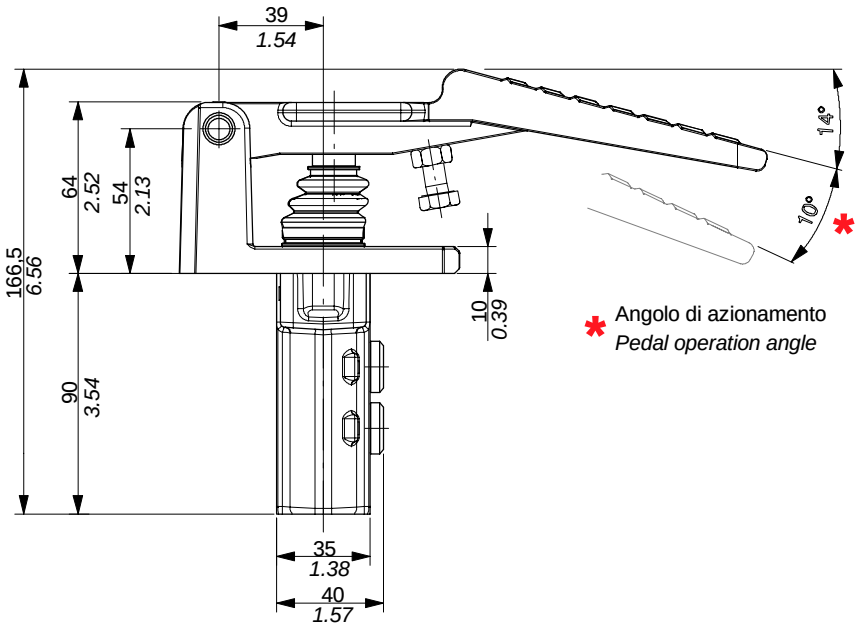
Filettature - *Threads*		
Tutte le bocche - *All ports*		
BSP (ISO 228/1)	**UN-UNF** (ISO 11926-1)	**METRICA** *METRIC* (UNI-ISO 6149)
G 1/4	7/16-20 (SAE 4)	M12x1.5

Servocomando tipo SVM520 — *SVM520 hydraulic pilot control valve*

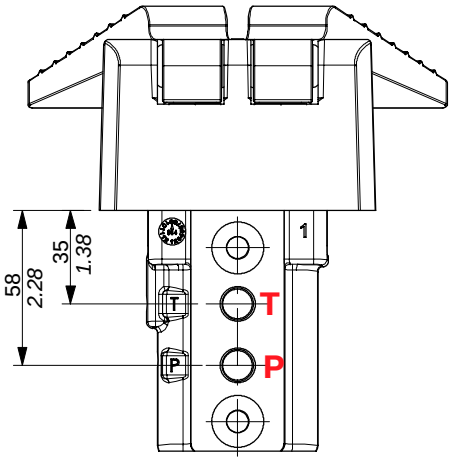
Dimensioni e circuito idraulico — *Dimensional data and hydraulic circuit*



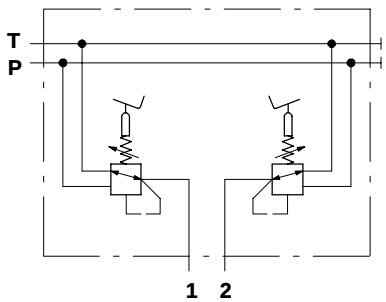
Esecuzione con pressione e scarico laterali
Configuration with side inlet and outlet ports



* Angolo di azionamento
Pedal operation angle



Circuito idraulico
Hydraulic circuit



Filettature - *Threads*

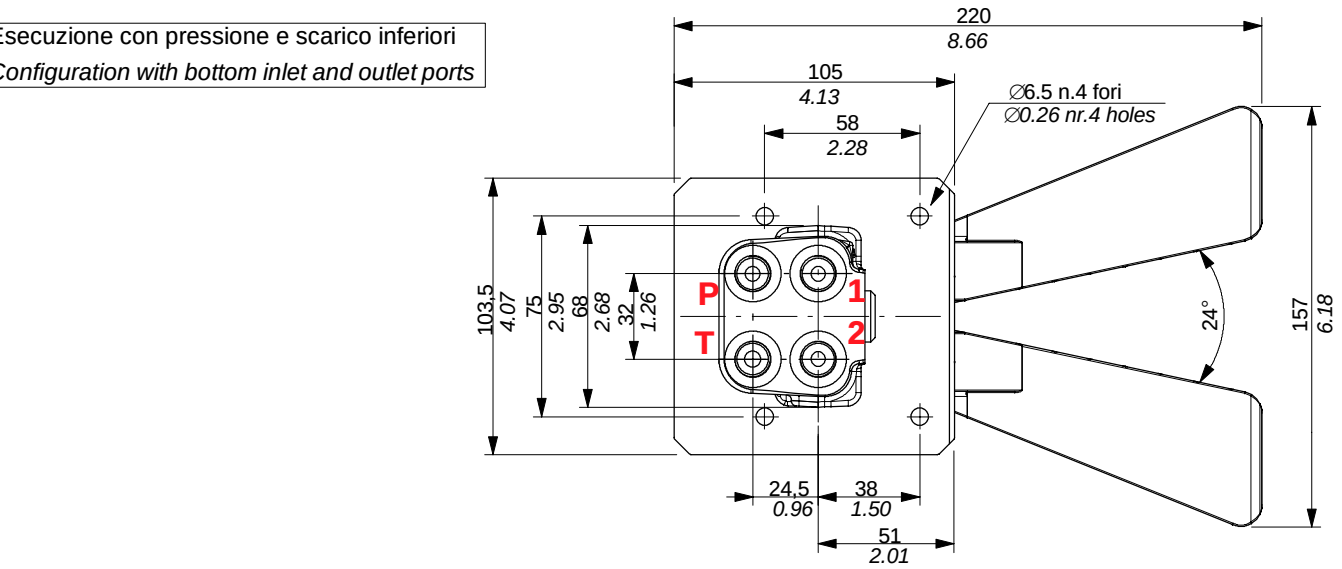
Tutte le bocche - *All ports*

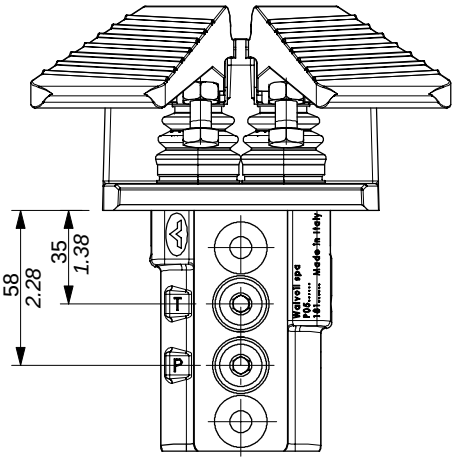
BSP (ISO 228/1)	UN-UNF (ISO 11926-1)	METRICA *METRIC* (UNI-ISO 6149)
G 1/4	7/16-20 (SAE 4)	M12x1.5

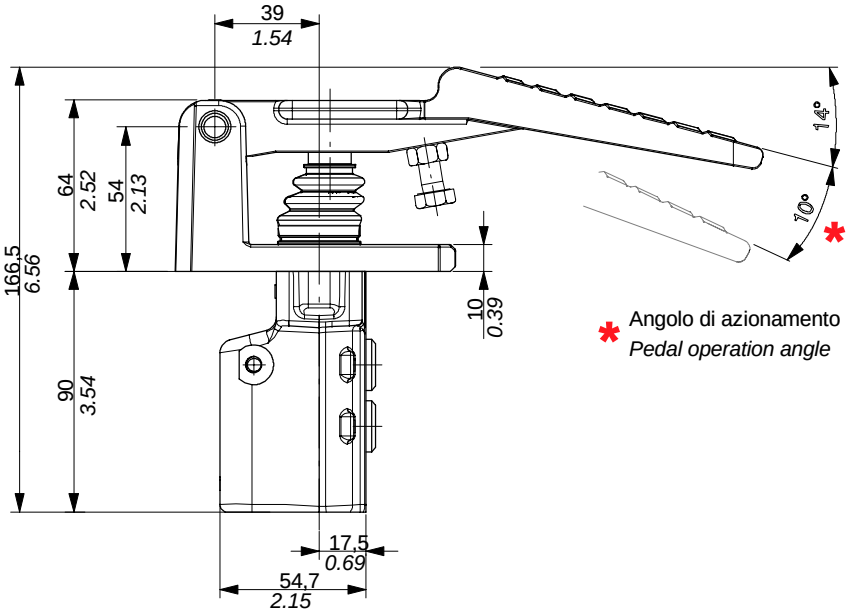
Servocomando tipo SVM520/PSB — *SVM520/PSB hydraulic pilot control*

Dimensioni e circuito idraulico — *Dimensional data and hydraulic circuit*

Esecuzione con pressione e scarico inferiori
Configuration with bottom inlet and outlet ports

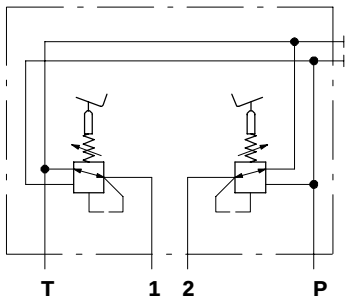






* Angolo di azionamento
Pedal operation angle

Circuito idraulico
Hydraulic circuit



Filettature - *Threads*

Tutte le bocche - *All ports*

BSP (ISO 228/1)	UN-UNF (ISO 11926-1)	METRICA *METRIC* (UNI-ISO 6149)
G 1/4	7/16-20 (SAE 4)	M12x1.5

Curve di controllo pressione

E' rappresentato un esempio delle curve disponibili: per l'elenco completo contattare il Servizio Commerciale.

Pressure control curves

An example of the available control curves is represented: for the complete list contact the Sales Department.

Esempio di descrizione:

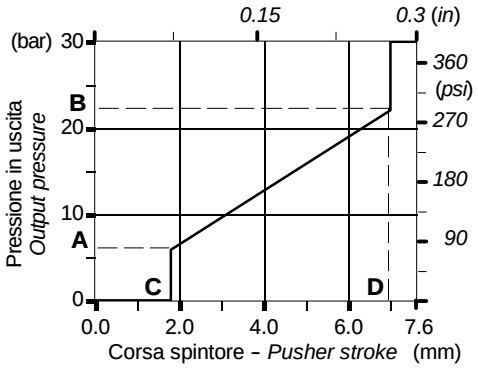
Description example:

M 001 C

- Tipo molla di ritorno - *Return spring type*
- Tipo curva controllo pressione (vedere elenchi sotto) *Pressure control curve type (see tables below)*
- **M**: esecuzione standard - *standard configuration*
- **S**: predisposta per soffietto di protezione - *arranged for rubber boot*
- **D**: tipo anti-oscillazione (solo SVM540) - *anti-swing type (only SVM540)*

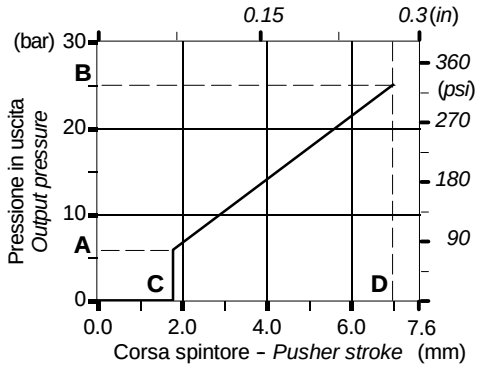
Tipo - *Type*	Campo di lavoro - *Working range*
B	da 23 a 68,1 N - *from 5.17 to 15.3 lbf*
C	da 88 a 176 N - *from 19.8 to 39.6 lbf*
D	da 110 a 220 N - *from 24.7 to 49.5 lbf*

Con step - *With step*



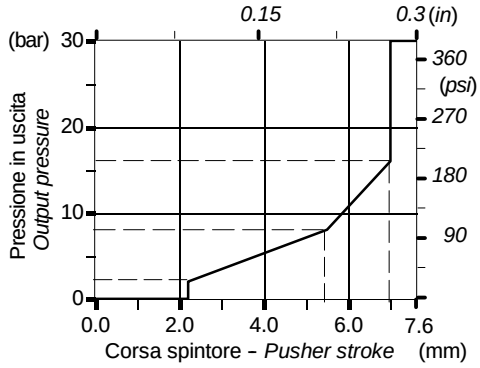
Tipo *Type*	Pressione - *Pressure*				Corsa - *Stroke*			
	A		B		C		D	
	bar	*psi*	bar	*psi*	mm	*in*	mm	*in*
001	5.8	*84*	22	*319*	1.55	*0.06*	7	*0.28*
004	4.9	*71*	18.9	*274*	0.85	*0.03*	7.25	*0.29*
017	5	*72.5*	12	*174*	0.85	*0.03*	7.25	*0.29*
020	4.3	*62*	15.2	*220*	0.85	*0.03*	7.25	*0.29*
024	5.8	*84*	19	*276*	1.55	*0.06*	6.1	*0.24*
025	5.8	*84*	19	*276*	0.75	*0.03*	5.2	*0.21*
026	6.5	*94*	14	*203*	0.85	*0.03*	7.25	*0.29*
038	22	*319*	37	*537*	0.85	*0.03*	7.25	*0.29*
053	8	*16*	22.3	*323*	0.85	*0.03*	7.25	*0.29*
063	1.4	*20.3*	11.5	*167*	0.85	*0.03*	6.5	*0.26*
070	5.8	*84*	22.4	*325*	0.85	*0.03*	7.25	*0.29*
075	5	*73*	15	*218*	0.85	*0.03*	7.25	*0.29*
085	6	*87*	25	*363*	0.85	*0.03*	7.25	*0.29*
086	4	*58*	16.5	*239*	0.5	*0.02*	6.5	*0.26*
088	8	*116*	27	*392*	0.85	*0.03*	7.25	*0.29*
089	8	*116*	28	*406*	0.85	*0.03*	7.25	*0.29*

Senza step - *Without step*

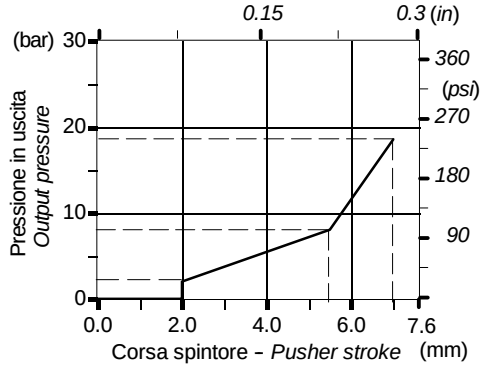


Tipo *Type*	Pressione - *Pressure*				Corsa - *Sroke*			
	A		B		C		D	
	bar	*psi*	bar	*psi*	mm	*in*	mm	*in*
111	5.5	*80*	25.5	*3870*	0.85	*0.03*	7.6	*0.30*
115	8.3	*120*	22.5	*326*	0.85	*0.03*	7.6	*0.30*
118	5.8	*84*	19.5	*283*	1.55	*0.06*	7.5	*0.30*
126	4.5	*65*	30.7	*445*	1.1	*0.04*	7.6	*0.30*
134	5.8	*84*	23	*334*	1.3	*0.05*	7.3	*0.29*
135	5.8	*84*	23	*334*	0.85	*0.03*	7.6	*0.30*
154	2	*29*	15	*217*	0.85	*0.03*	7.6	*0.30*
155	4.8	*70*	21.5	*312*	1.1	*0.04*	7.6	*0.30*
156	3.4	*49*	14.5	*210*	1.1	*0.04*	7.6	*0.30*
157	3.4	*49*	17.2	*249*	1.1	*0.04*	7.6	*0.30*
163	1.4	*20*	11.5	*167*	0.85	*0.03*	7.6	*0.30*
169	9.8	*142*	21	*305*	0.85	*0.03*	6.1	*0.24*
175	5	*73*	16	*232*	0.85	*0.03*	7.6	*0.30*
178	6.5	*94*	17.8	*258*	0.85	*0.03*	5.8	*0.23*
192	5.8	*84*	15	*217*	1.3	*0.05*	7.3	*0.29*

Spezzata con step - *Piecewise with step*



Spezz. senza step - *Piecewise without step*

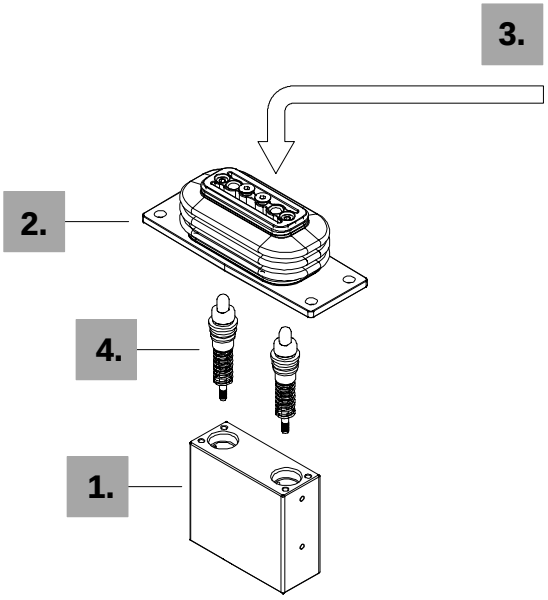


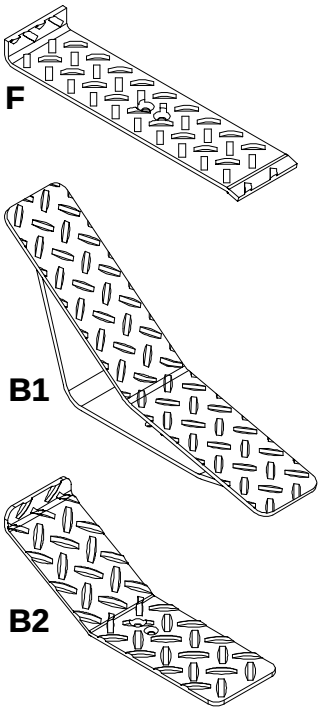
Sigla di ordinazione SVM500 — *SVM500 ordering description*

Esempio descrizione: — ***Description example*:**

SVM500-B / 01 F - M 001 C x 2

1. 2. 3. 4.





1. Corpo servocomando

TIPO	DESCRIZIONE
SVM500-B	Con bocche G1/4
SVM500-S	Con bocche SAE4

2. Cinematismo

TIPO	DESCRIZIONE
01	Con ritorno a molla in posizione centrale, completo di soffietto

3. Opzioni comando a pedale

TIPO	DESCRIZIONE
F	Piatto a 180°
B1	Inclinato a 154°
B2	Inclinato a 150°
S	Senza pedale

4. Tipo curva controllo pressione

Per lista curva disponibili vedere pagina 6.

1. *Pilot control valve body*

TYPE	*DESCRIPTION*
SVM500-B	*With G1/4 ports*
SVM500-S	*With SAE4 ports*

2. *Kinematic kit*

TYPE	*DESCRIPTION*
01	*Spring return in neutral position, complete of rubber bellow*

3. *Pedal control options*

TYPE	*DESCRIPTION*
F	*Flat (180°)*
B1	*154° slooping*
B2	*150° slooping*
S	*Without pedal*

4. *Pressure control curve types*

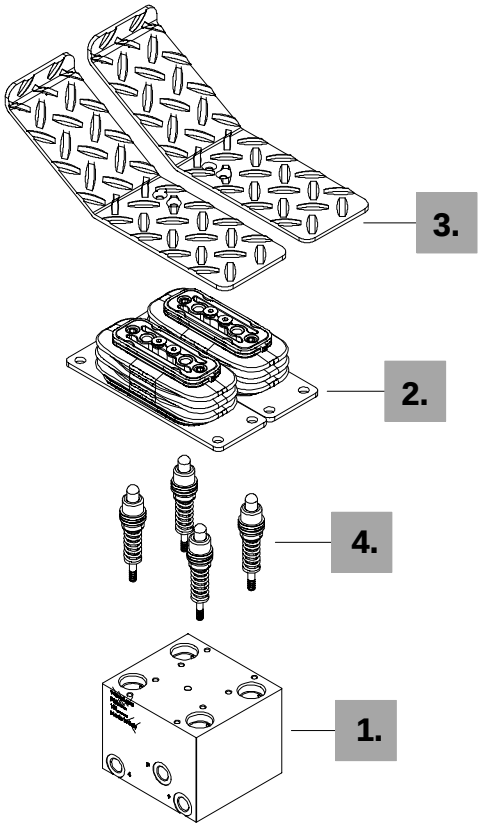
Summary of available curves is listed at page 6.

Sigla di ordinazione SVM540 — *SVM540 ordering description*

Esempio descrizione: — ***Description example*:**

SVM540-B / 01 B3 - D 001 C x 2

1. 2. 3. 4.



1. Corpo servocomando

TIPO	DESCRIZIONE
SVM540-B	Con bocche G1/4
SVM540-S	Con bocche SAE4

2. Cinematismo

TIPO	DESCRIZIONE
01	Con ritorno a molla in posizione centrale, completo di soffietto

3. Opzioni comando a pedale

TIPO	DESCRIZIONE
B3	Inclinato a 150°
S	Senza pedale

NOTA: sono disponibili a richiesta pedali con differenti angolazioni e rivestimenti superficiali, anche predisposti per leva a comado manuale, contattare il Servizio Commerciale

4. Tipo curva controllo pressione

Per lista curva disponibili vedere pagina 6.

1. *Pilot control valve body*

TYPE	*DESCRIPTION*
SVM540-B	*With G1/4 ports*
SVM540-S	*With SAE4 ports*

2. *Kinematic kit*

TYPE	*DESCRIPTION*
01	*Spring return in neutral position, complete of rubber bellow*

3. *Pedal control options*

TYPE	*DESCRIPTION*
B3	*150° slooping*
S	*Without pedal*

NOTE: pedals with different angulations and coverings are available on request , also arranged for lever control, contact the Sales Department

4. *Pressure control curve types*

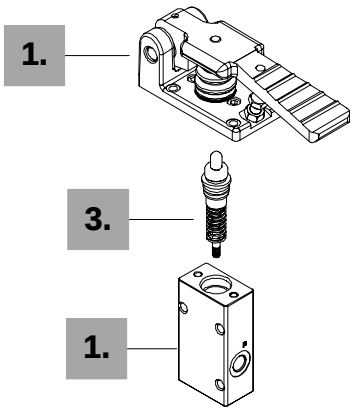
Summary of available curves is listed at page 6.

Sigla di ordinazione SVM510 - SVM520 — *SVM510 - SVM520 ordering description*

Esempio descrizione:

SVM510-B / M 001 C

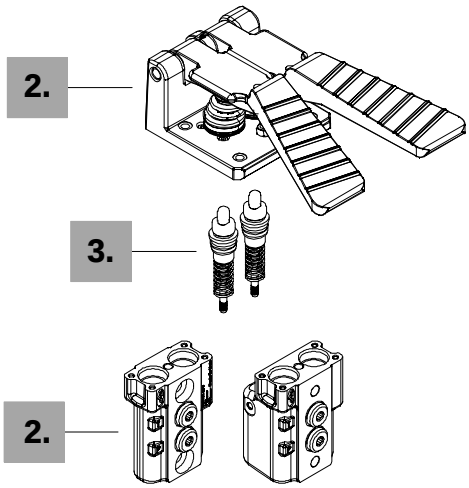
1. 3.



Description example:

SVM520-B / M 001 C x 2

2. 3.



1. Corpo servocomando SVM510

TIPO	DESCRIZIONE
SVM510-B	Con bocche G1/4
SVM510-S	Con bocche SAE4

2. Corpo servocomando SVM520

TIPO	DESCRIZIONE
SVM520-B	Esecuzione con pressione e scarico laterali, con bocche G1/4
SVM520-S	Esecuzione con pressione e scarico laterali, con bocche SAE4
SVM520-B/PSB	Esecuzione con pressione e scarico inferiori, con bocche G1/4
SVM520-S/PSB	Esecuzione con pressione e scarico inferiori, con bocche SAE4

3. Tipo curva controllo pressione

Per lista curva disponibili vedere pagina 6.

1. *SVM510 pilot control valve body*

TYPE	*DESCRIPTION*
SVM510-B	*With G1/4 ports*
SVM510-S	*With SAE4 ports*

2. *SVM520 pilot control valve body*

TYPE	*DESCRIPTION*
SVM520-B	*Configuration with side inlet and outlet ports; all ports are G1/4*
SVM520-S	*Configuration with side inlet and outlet ports; all ports are SAE4*
SVM520-B/PSB	*Configuration with bottom inlet and outlet ports; all ports are G1/4*
SVM520-S/PSB	*Configuration with bottom inlet and outlet ports; all ports are SAE4*

3. *Pressure control curve types*

Summary of available curves is listed at page 6.

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