

# SDM105

**Distributore monoblocco da 1 a 6 sezioni con regolatore di portata**  
*1 to 6 sections monoblock valve with flow regulator*



- D Circuito con distribuzione in parallelo.
- D Valvola di sovrappressione generale diretta.
- D Regolatore di portata compensato in ingresso con volantino per regolazione graduata.
- D Valvola generale di messa a scarico a richiesta.

- D Parallel circuit.
- D Direct operated main pressure relief valve.
- D Pressure compensated flow regulator section with graduated handwheel.
- D With exhaust valve availability.

## 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<sup>2</sup>/s alla temperatura di 40°C.

Portata nominale	45 l/min
Portata massima regolata	40 l/min
Pressione nominale	315 bar
Contropressione massima allo scarico T	25 bar
Fuga interna (A/B→T, a 100 bar)	3 cm <sup>3</sup> /min
Fluido idraulico	olio a base minerale
Viscosità	da 12 a 400 mm <sup>2</sup> /s
Grado di contaminazione	19/16-ISO4406
Campo di temperatura del fluido	da -20° a 80° C
Campo di temperatura ambientale	da -30° a 60° C

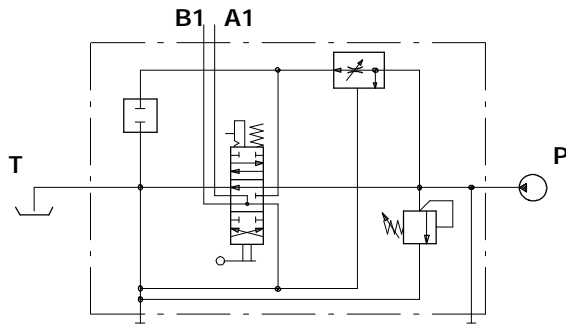
## Working conditions

This leaflet shows technical specifications and diagrams measured with mineral oil of 46 mm<sup>2</sup>/s (cSt) viscosity at 40°C temperature.

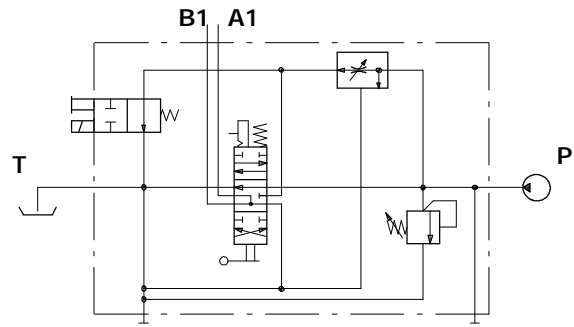
Nominal flow rating	45 l/min
Max. regulated flow	40 l/min
Operating pressure	315 bar (4600 psi)
Max backpressure on outlet port T	25 bar (360 psi)
Internal leakage (A/B→T, with 100 bar / 1450 psi)	3 cm <sup>3</sup> /min (0.2 in <sup>3</sup> /min)
Hydraulic fluid	mineral base oil
Viscosity	- 12 to 400 mm <sup>2</sup> /s (cSt)
Max level of fluid contamination	19/16-ISO4406
Fluid temperature	from -20° to 80° C
Ambient temperature	from -30° to 60° C

DAV002IE

4<sup>a</sup> edizione Novembre 2000: **Questa edizione aggiorna tutte le precedenti.**  
4<sup>th</sup> edition November 2000: **This edition supercedes all prior documents.**



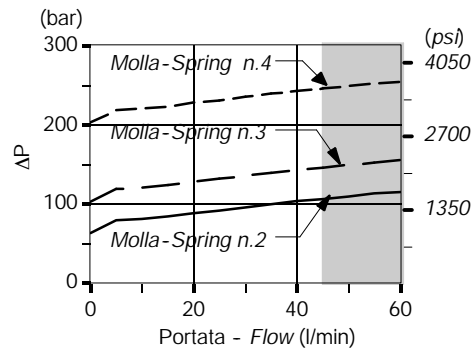
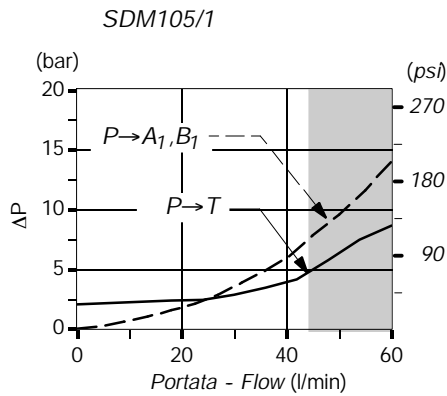
Senza valvola di messa a scarico  
Less exhaust valve



Con valvola di messa a scarico  
With exhaust valve

## Perdite di carico - Pressure drop

## Valvola generale - Main relief valve

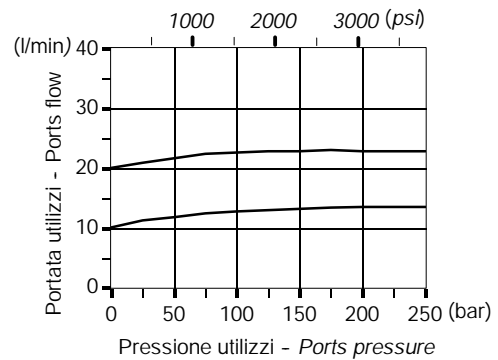
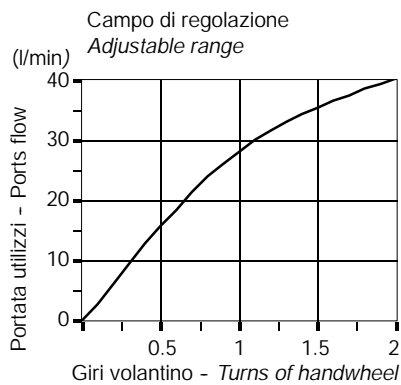


## Regolazione portata

## Flow regulation

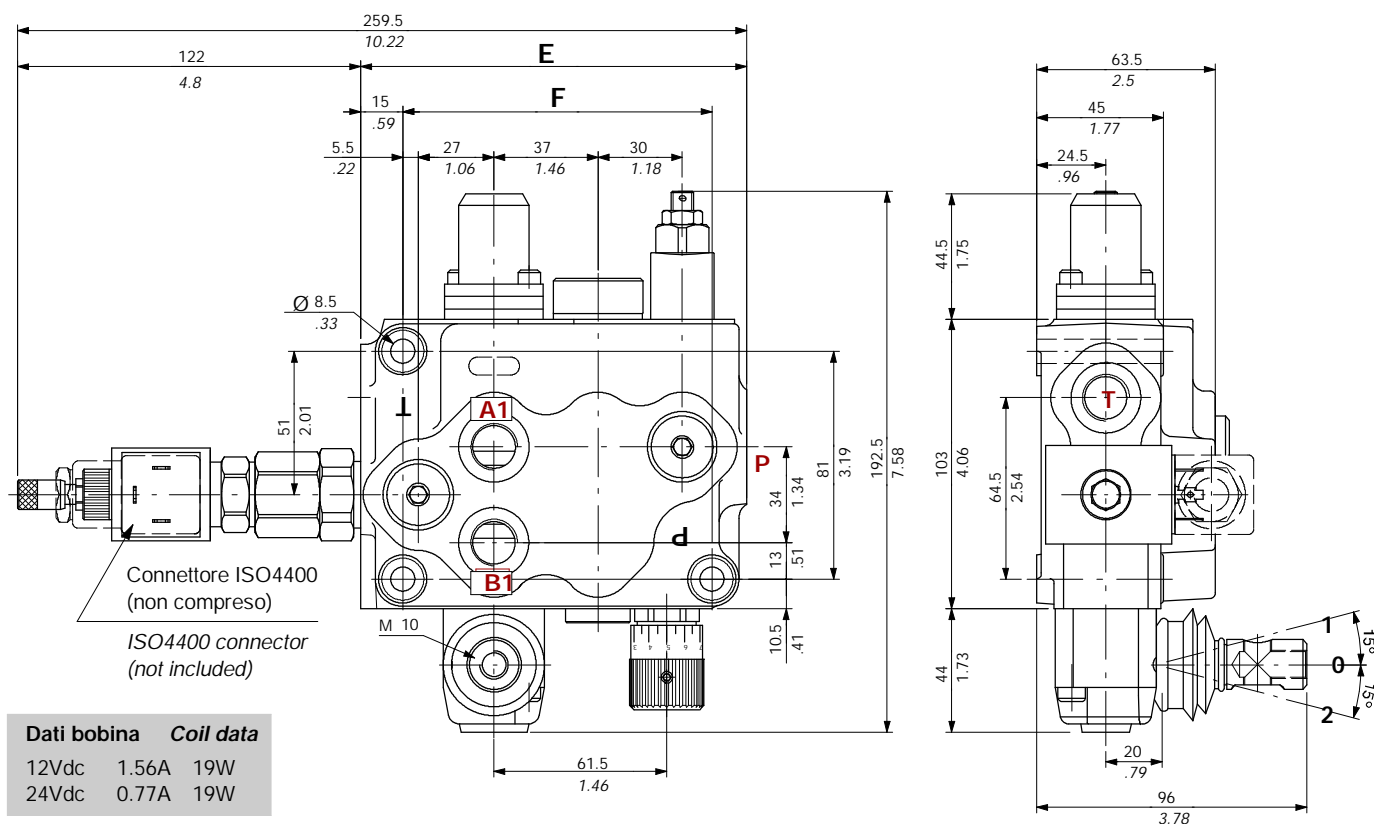
Pressione sull'utilizzo - Pressure on port:

P=100 bar - 1450 psi



## Dimensioni

## Dimensional data



TIPO - TYPE	E		F	
	mm	in	mm	in
SDM105/1	137.5	5.41	110	4.33
SDM105/2	174.5	5.81	147	5.79
SDM105/3	211.5	8.33	184	7.24

TIPO - TYPE	E		F	
	mm	in	mm	in
SDM105/4	248.5	9.78	221	8.70
SDM105/5	286	11.26	258	10.16
SDM105/6	323.5	12.74	295	11.61

## Filettature standard

## Standard threads

BOCCA - PORTS	BSP (ISO 228/1)	METRICA - METRIC (ISO 6149)	UN-UNF (ISO 11926-1)
P			3/4-16 UNF-2B (SAE 8)
A - B	G 3/8	M18x1,5	9/16-18 UNF-2B (SAE 6)
T			3/4-16 UNF-2B (SAE 8)

## SDM105/1(JG3-175) M / 2 10 L / EL-12VDC

numero di sezioni . . . . . 1

sections number

6

tensione bobina (12 - 24 Vdc)  
coil voltage (12 - 24 Vdc)

valvola di sovrappressione diretta tarata a 175 bar **JG3-175**  
main relief direct operated valve set to 2540 psi

senza valvola di sovrappressione . . . . . **SV**  
less main relief valve

**LT** . . . . . senza valvola di messa a scarico  
less exhaust valve

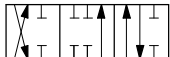
**EL** . . . . . con valvola di messa a scarico  
with exhaust valve

**L** . . . . . con leva  
with lever

**SLP** . . . senza leva con piastrina  
less lever with dust cover

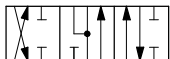
volantino per regolazione manuale della portata  
manual flow regulator with graduated handwheel

**AB**



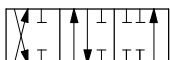
1 **8** . . . . . ritorno a molla in centro  
spring centered to neutral

double acting spool, A and B closed in neutral



2 **10** . . . ritenuta in posizione 2, con ritorno a molla in centro  
detent in position 2, spring centered to neutral

double acting spool, A and B open to tank in neutral



9T **11** . . . ritenuta nelle 3 posizioni  
detent in 3 positions

double acting spool, A open to pressure and B open to tank in neutral

**P T LC**

double acting spool, A open to pressure and B open to tank in neutral