

## SDM103/2-S

**Distributore monoblocco a due sezioni con distribuzione in serie per Caricatore Frontale**  
***Two sections monoblock valve with series circuit for Front Loader applications***



- |   |                                                                                                                                   |   |                                                                                                                                                           |
|---|-----------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| D | Valvola sovrappressione generale diretta e valvola di non-ritorno sulla linea di pressione dei due cursori.                       | D | <i>Direct operated main pressure relief valve and load check valve on each spool pressure line.</i>                                                       |
| D | Comando a cloche, con leve o a distanza con cavi flessibili.                                                                      | D | <i>Joystick, lever or flexible cables remote control.</i>                                                                                                 |
| D | A richiesta valvole anti-urto e anti-cavitazione su ogni utilizzo.                                                                | D | <i>Anti-shock and anti-cavitation valves on each service ports on request.</i>                                                                            |
| D | Possibilità di continuazione della linea di pressione (carry-over)                                                                | D | <i>With power beyond capability.</i>                                                                                                                      |
| D | Cursori a doppio effetto con possibilità di 4a posizione flottante sulla prima sezione e 4a posizione rigenerativa sulla seconda. | D | <i>Double acting spool with possibility of 4<sup>th</sup> float position on the first section and 4<sup>th</sup> regenerative position on the second.</i> |

## Condizioni di lavoro *Working conditions*

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               |
| Pressione nominale .....                       | : 250 bar                |
| Contropressione massima (allo scarico T) ..... | : 25 bar                 |
| Fuga interna A(B)→T (100 bar / 40°C) ...       | : 3 cm <sup>3</sup> /min |

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Fluido .....                          | : olio minerale                 |
| Campo di temperatura del fluido ..... | : da -20°C a 80°C               |
| Viscosità minima .....                | : 12 mm <sup>2</sup> /s         |
| massima .....                         | : 400 mm <sup>2</sup> /s        |
| campo di lavoro .....                 | : da 15 a 75 mm <sup>2</sup> /s |
| Grado di contaminazione .....         | : 19/16 - ISO4406               |

Campo di temperatura ambientale . . . . . : da -40°C 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 (104°F) temperature.*

Nominal flow rating ..... : 45 l/min (12 US gpm)

Operating pressure . . . . . : 250 bar (3600 psi)

Max. back pressure (outlet port T): 25 bar (360 psi)

*Internal leakage (100 bar - 1450 psi)*

/ 40°C - 104°F) ..... : 3 cm<sup>3</sup>/min (0.18 in<sup>3</sup>/min)

Hydraulic fluid . . . . . : mineral oil

Fluid temperature . . . . . : -20 to 80°C (-4 to 176°F)

Viscosity minimum ..... : 12 mm<sup>2</sup>/s (cSt)

maximum ..... : 400 mm<sup>2</sup>/s (cSt)

operating range . . . . . : from 15 to 75 mm<sup>2</sup>/s (cSt)

Max. level of contamination . . . : 19/16 - ISO4406

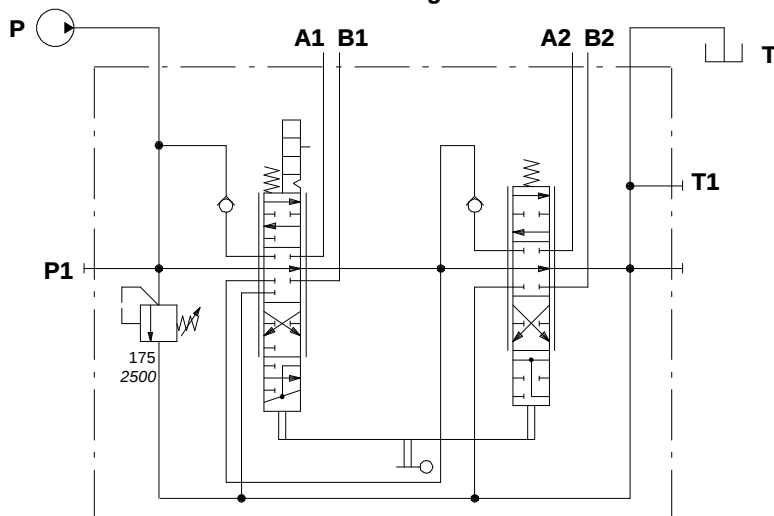
NAS1638 - class 10

Ambient temperature . . . . . : -40 to 60°C (-40 to 140°F)

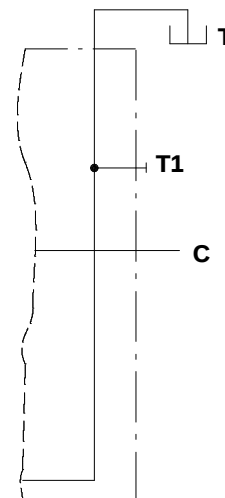
DAV007IA

2<sup>a</sup> edizione Maggio 2001: **Questa edizione aggiorna tutte le precedenti.**  
2<sup>nd</sup> edition May 2001: **This edition supercedes all prior documents.**



Configurazione standard  
Standard configuration

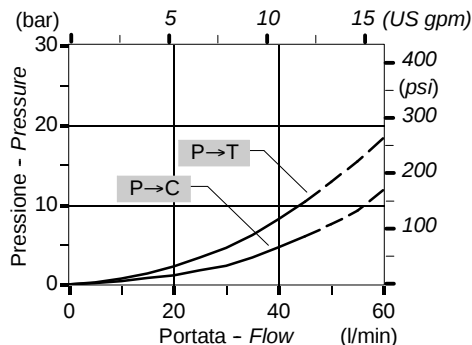
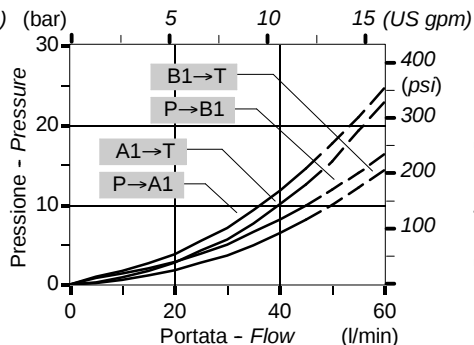
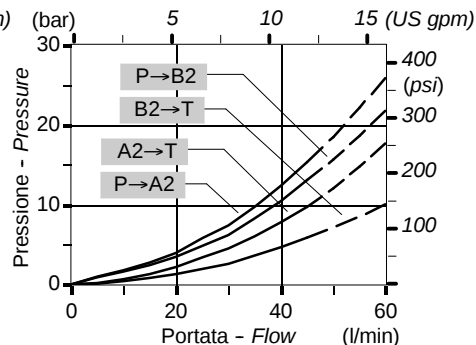
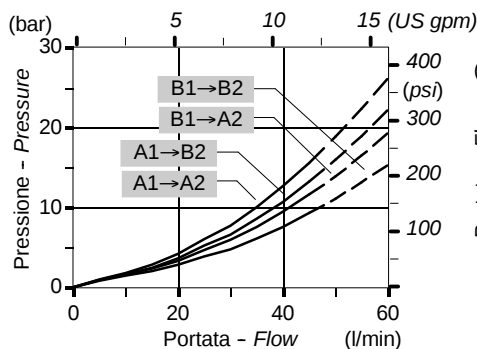
SDM103/2-S(TG3-175)/513R/LCB1/813F/AET-PSC-&lt;CVN&gt;

Configurazione con carry-over  
Power beyond configuration

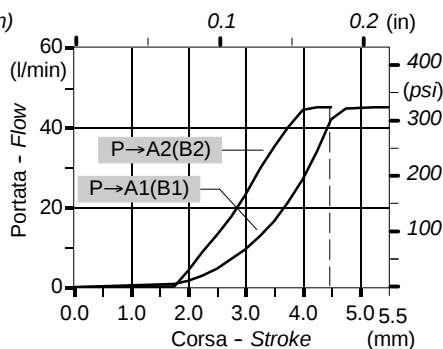
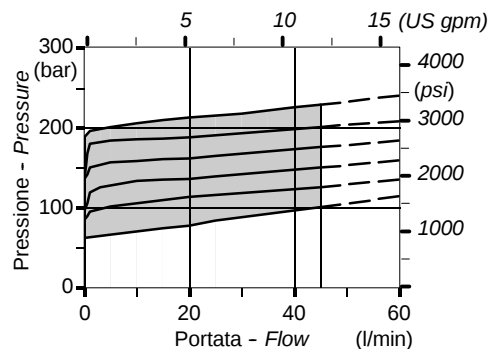
SDM103/2-S(TG3-175)/513R/LCB1/813F/AE-PSC-&lt;CVN&gt;

## Curve caratteristiche

## Performance data

Perdite di carico  
Pressure dropPerdite di carico sulla 1ª sezione  
Pressure drop on 1<sup>st</sup> sectionPerdite di carico sulla 2ª sezione  
Pressure drop on 2<sup>nd</sup> sectionPerdite di carico sulla serie  
Pressure drop on series connection

Sensibilità cursore - Spool metering

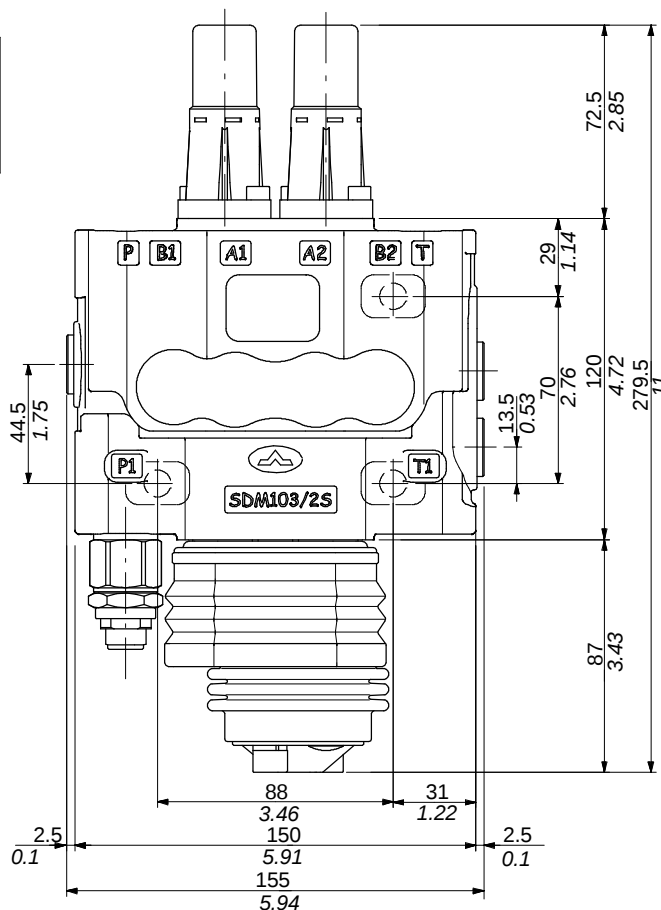
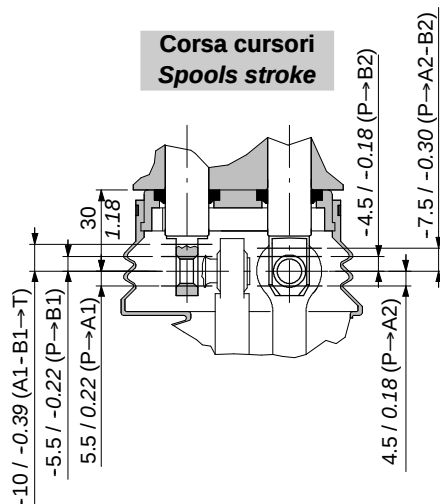
Q<sub>in</sub> = 45 l/min - P = 100 bar / 1450 psiValvola generale (molla G3)  
Main pressure relief valve (spring G3)

## Dimensioni

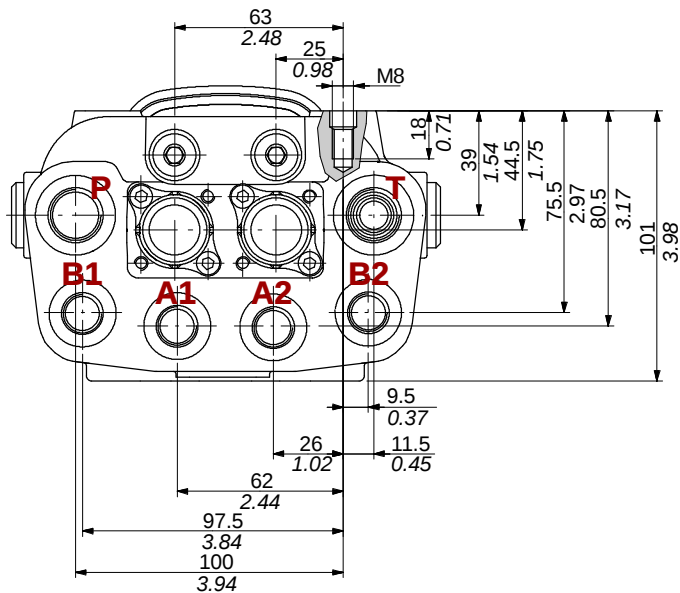
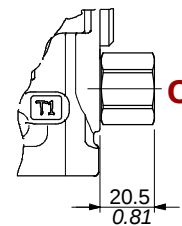
## Dimensional data

Le quote e i disegni sono riferiti alla configurazione con filettatura UN-UNF.

Drawings and dimensions are referred to UN-UNF thread configuration.



Con carry-over  
With power beyond



## Filettature standard

## Standard threads

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

Distributore

Valve

Fornito con una mano di Primer antiruggine nero

Supplied as standard, with one coat of Primer black antirust paint

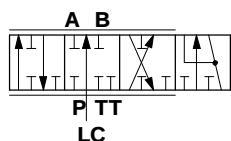


## SDM103/2-S(TG3-175)/513R/LCB1/813F/AET - SAE - &lt;CVN&gt;

Valvola di sovrappressione diretta tarata a 175 bar  
Main relief direct operated valve set to 175 bar / 2500 psi

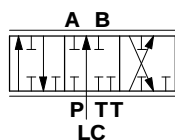
Filettature - Threads

**BSP**  
**SAE**  
**MET**



Cursore doppio effetto con ritenuta  
in 4ª posizione flottante e ritorno a  
molla al centro ..... **513R**

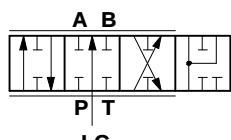
*Double acting spool with detent  
in 4th float position and spring  
return to neutral*



Cursore doppio effetto con ritorno  
a molla al centro ..... **58**

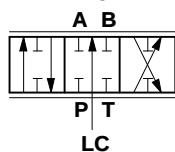
*Double acting spool with spring return  
to neutral*

Cloche per il comando di due sezioni

*Joystick to control two sections*

Cursore doppio effetto con 4ª posizione rigenerativa  
e ritorno a molla al centro ..... **813F**

*Double acting spool with 4th regenerative position and  
spring return to neutral*



Cursore doppio effetto con ritorno a molla al centro ..... **18**

*Double acting spool with spring return to neutral*