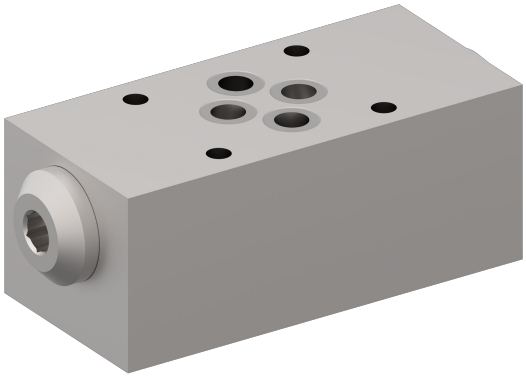
Lock valve
Pilot operated check valve

Q_{max} = 60 l/min, p_{max} = 350 bar
poppet type, hydraulical operation
Type series: SRE-_-6-...

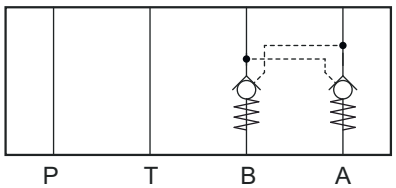


- Stack valve
- External parts of screw-in valves with zinc-nickel plating according to DIN EN ISO 19598
- Stackable valve elements
- High degree of flexibility due to the possibility of different combinations
- Subsequent function changes and extensions possible

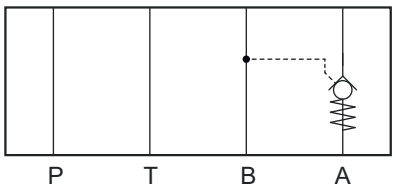
Description

The pilot operated check valves, series SRE..., are size 6, stack valves with interface to ISO 4401-03-02. The check function is cancelled by applying pilot pressure from the opposite side. The two-stage design with pre-opening prevents switching shocks when the pressure volume is released. There are different versions available. These valves are mainly used in mobile and industrial applications, and provide high flexibility for stackable system solutions. For installation, please refer to the section related data sheets.

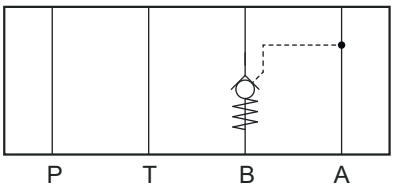
Symbol



SRE-AB-…



SRE-A-…



SRE-B-…

Technical data

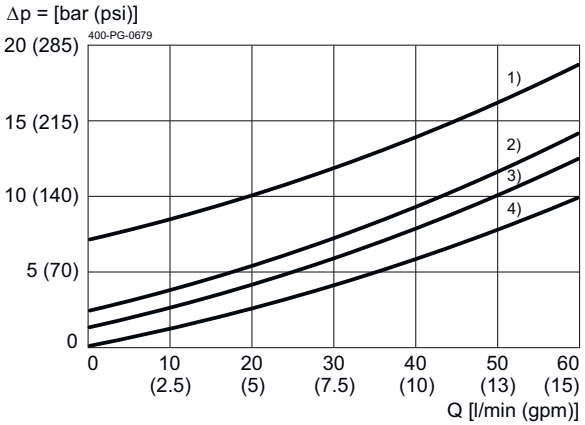
General characteristics	Description, value, unit
Function group	Lock valve
Function	Pilot operated check valve
Design	Stack valve
Controls	hydraulical operation
Characteristic	poppet type
Construction size	NG 6
Mounting attitude	unrestricted
Weight	1.20 kg
Interface according to	ISO 4401-03-02
Minimum ambient temperature	- 30 °C
Maximum ambient temperature	+ 80 °C
Surface protection	External parts of screw-in valves with zinc-nickel plating according to DIN EN ISO 19598
Surface protection addition	Stack-mounting body with temporary corrosion protection
Sealing material	see ordering code
Seal kit order number	NBR: DS-032-N / FKM: DS-032-V

Hydraulic characteristics	Description, value, unit
Maximum operating pressure	350 bar
Maximum flow rate	60 l/min
Flow direction	see symbol
Hydraulic fluid	HL and HLP mineral oil according to DIN 51 524; other fluids on request!
Minimum fluid temperature	- 30 °C
Maximum fluid temperature	+ 80 °C
Viscosity range	10 ... 650 mm^2/s (cSt)
Recommended viscosity range	15 ... 250 mm^2/s (cSt)
Geometric Differential Area Ratio	1:6
Opening pressure	1.5 / 2.5 / 7.0 bar

Performance graphs

measured with oil viscosity 33.0 mm²/s (cSt)

Δp = f (Q) Pressure drop-flow rate characteristic



1) Version 7,0 bar
2) Version 2,5 bar
3) Version 1,5 bar

Freier Durchfluss über Rückschlagventil/free flow direction

4)

Entsperrter Durchfluss gegen Rückschlagventil/pilot open reverse flow direction

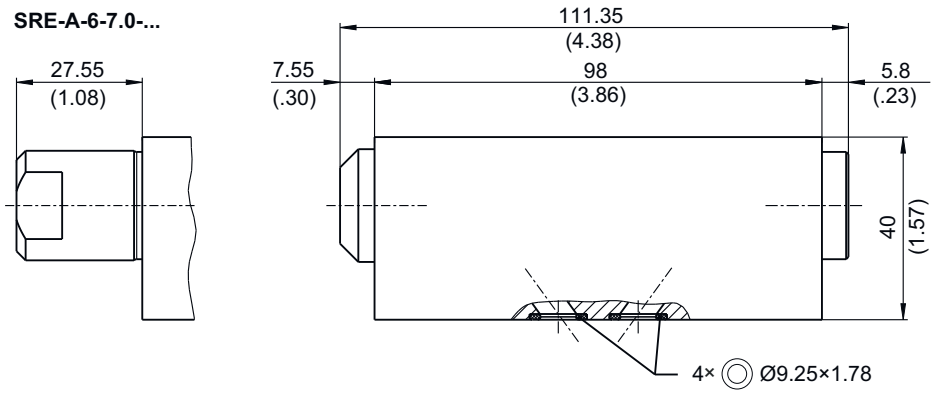
Dimensions and sectional view

Beispiel für die Masseinheit:
Example for the dimensional units:

0.79 = 0.79 mm millimeter
(.031) = 0.031" inch

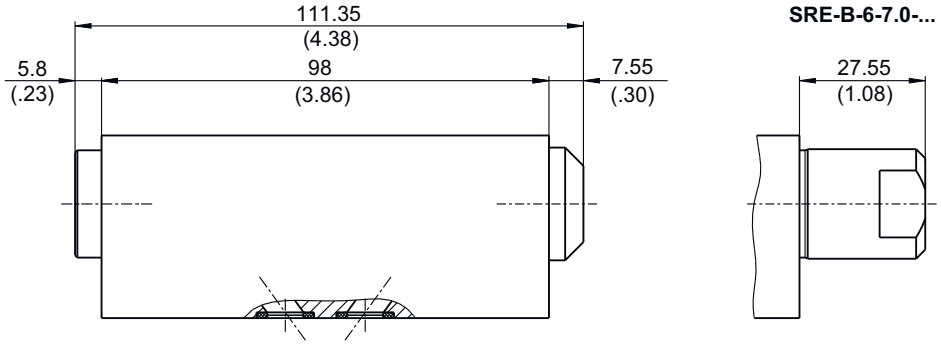
SRE-A-6-1.5/2.5...

SRE-A-6-7.0-...



SRE-B-6-1.5/2.5...

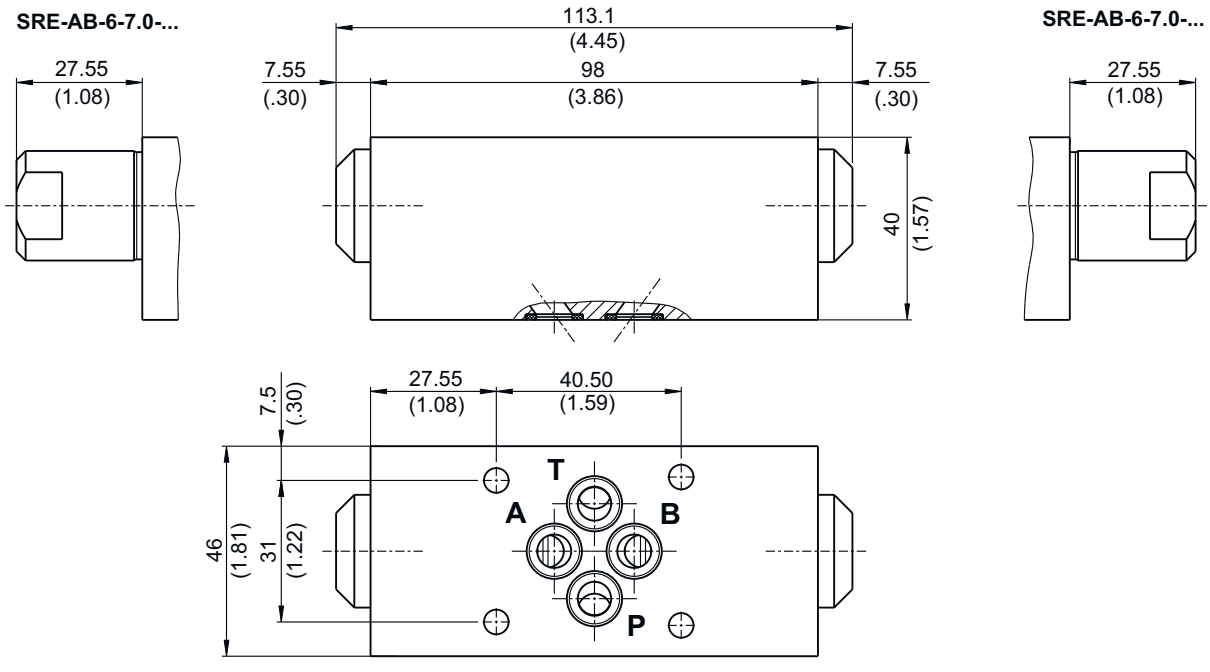
SRE-B-6-7.0-...



SRE-AB-6-1.5/2.5...

SRE-AB-6-7.0-...

SRE-AB-6-7.0-...



Installation information

ATTENTION!
Only qualified personnel with mechanical skills may carry out any maintenance work. Generally, the only work that should ever be undertaken is to check, and possibly replace, the seals. When changing seals, oil or grease the new seals thoroughly before fitting them.

Ordering code

Ex. S RE - AB - 6 - 1.5 - _ - N A 1

S	= stack valve
RE	= pilot operated check valve
A	= check function in A
B	= check function in B
AB	= check function in A and B
6	= nominal size 6
1.5	= opening pressure 1.5 bar (standard)
2.5	= opening pressure 2.5 bar (on request)
7.0	= opening pressure 7.0 bar (on request)
(blank)	= temporary corrosion protection (standard)
BZN	= coating ZnNi (on request)
N	= NBR (nitril-butadien-rubber / BUNA) seals (standard)
V	= FKM (fluorocarbon rubber / VITON) seals (special seals - please contact BUCHER)
A…Q	= standard model - see relevant data sheets
Z…R	= special features - pleace consult BUCHER
1…9	= design stage (omit when ordering new units)

Related data sheets

Reference	Description
400-P-030501	Interface ISO 4401-03... (Size 6)

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