

Stacking Throttle / Check Valve, 6 mm

$Q_{max} = 80 \text{ l/min}$, $p_{max} = 350 \text{ bar}$

Series SRDB...

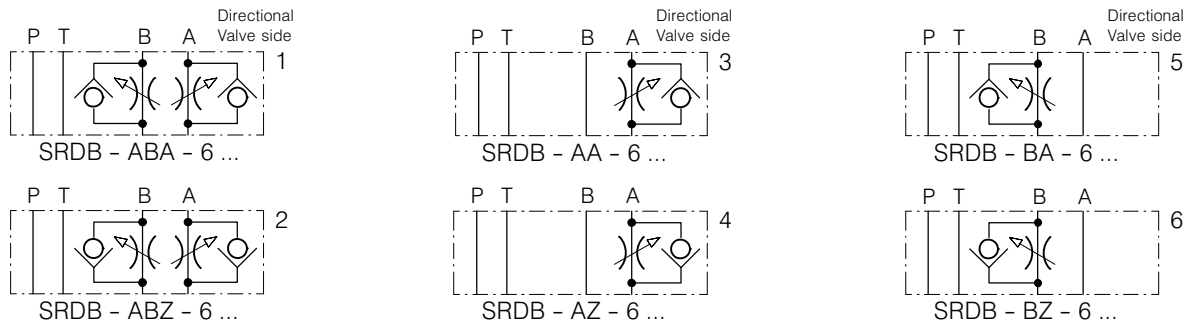
- Meter-in or Meter-out by inverting the valve
- Self-cleaning metering orifice
- Self-locking adjusting screw and locknut
- Improved Δp values
- Fine control at low flows
- Optional hand knob available
- With ISO 4401 / CETOP R35H size3, NFPA D03, DIN 24 340 A6 interface

1. Description

Series SRDB...-6 stack-mounting throttle valves use the well known "sandwich" principle - they are mounted between a size 3 directional valve and another control module or the subplate. In one direction flow is regulated by the throttle orifice setting while in the other direction the integral bypass check valve permits free reverse flow (cracking pressure approximately 0,7 bar). The design of the throttle ensures automatic self-cleaning under reverse flow. By rotating the valve about its long axis, it can be mounted with either of its two interface surfaces uppermost - one position gives a METER-IN function, the other METER-OUT. The seal plate is always fitted under the valve body i.e. closest to the subplate. The dual function is clearly shown in sym-

bol 3 and 4. Symbol 3 represents a meter-out function in A; when "flipped over", as in symbol 4, the same unit now provides a meter-in function in A. Similar comparisons apply to symbols 1 and 2, 5 and 6. The meter-in function is normally used when there is a steady resistance from the cylinder or motor (symbols 2, 4 and 6). If however, the external load varies greatly, perhaps even becoming negative, then the additional resistance generated by the meter-out function may provide better overall control of the actuator. To set the throttle orifice, use a 4 A/F hex. key in the end of the self-locking adjusting screw. The 13 A/F locknut provides additional security. Optionally available with hand-knob adjuster.

2. Symbols



3. Main characteristics

Designation		stacking throttle / check valve
Design		direct acting, spool type
Mounting method		stack mounting
Size		ISO 4401 size 3 interface
Weight	kg	SRD...-A.. / B..-6... = 1,25; SRD...-AB..-6... = 1,30
Mounting attitude		unrestricted
Flow direction		see symbols
Operating pressure range (max.)	bar	350
Cracking pressure (approx.)	bar	0,7; free flow
Flow rate, Qmax	l/min	80 for SRDB...; 60 for SRDZ...; see performance graphs
Fluids		HL and HLP hydraulic oils to DIN 51 524; for other fluids, please consult BUCHER



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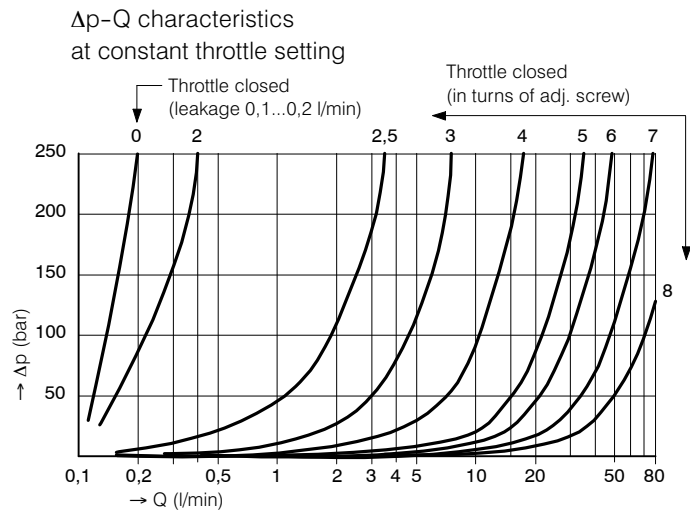
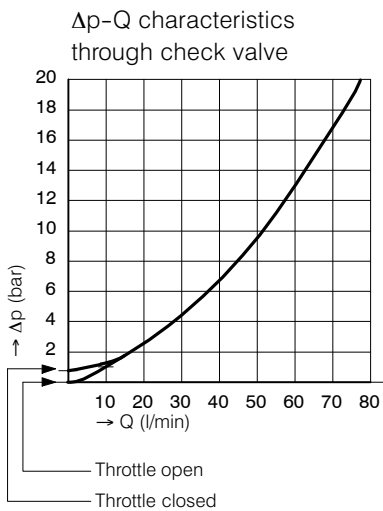
Reference: 400-P-430101-EN-01

Fluid temperature range	°C	-25 ... +80
Ambient temperature	°C	-25 ... +80
Viscosity range	cSt	10 ... 650 mm ² /s, recommended 15 ... 250 mm ² /s
Minimum fluid cleanliness level		20/18/15 to ISO 4406 : 1999

4. Performance graphs

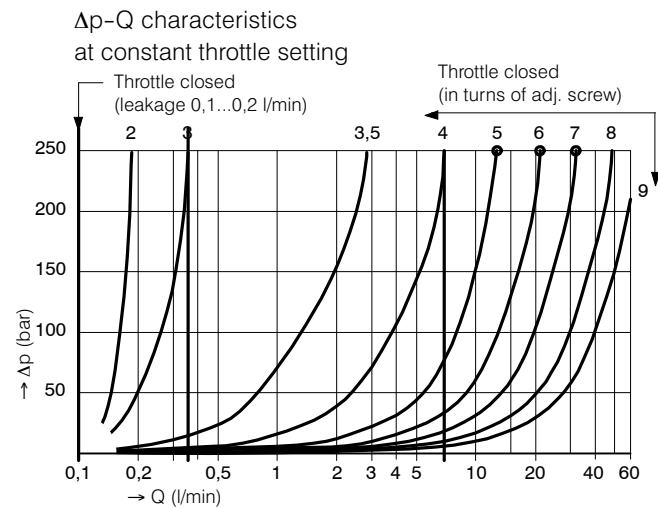
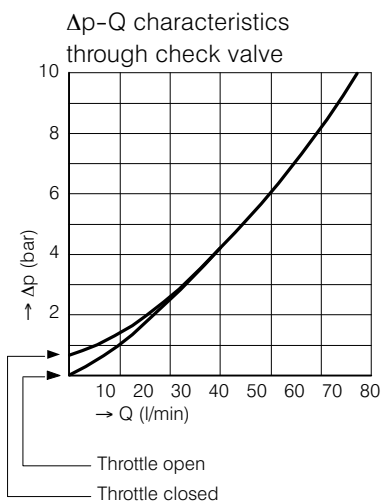
Measured with oil viscosity 33 mm²/s (cSt)

SRDB ...-6 (Standard model)

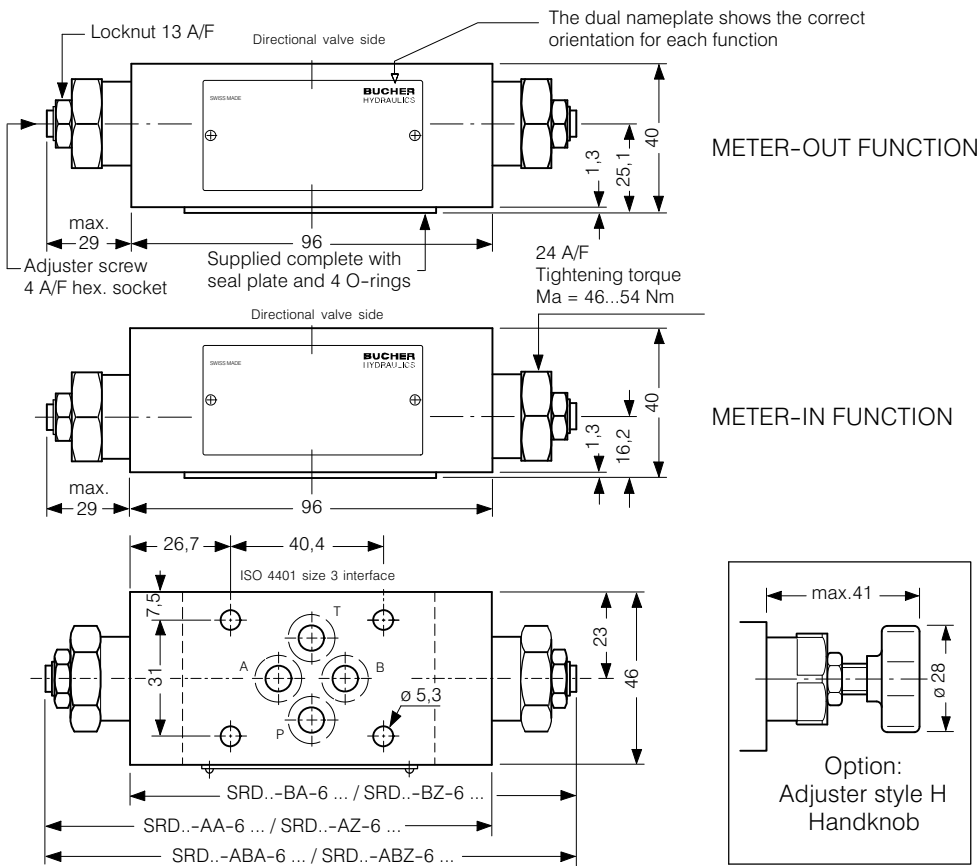


SRDZ ...-6 (Option)

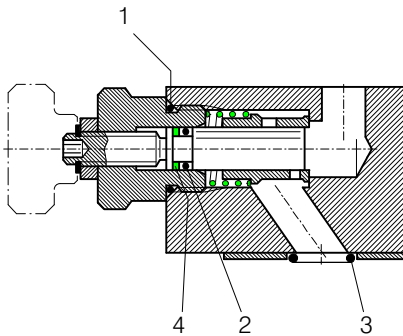
With fine control in lower flow range
i.e. for adjustable switching times for
pilot operated directional valves



5. Dimensions



6. Schematic section



Seal kit no. DS-202, comprising *):

Itm.	Qty.	Qty.	Description	Size
1	2*)	1	O-ring no. 017	∅ 17.17 x 1.78 N90
2	2*)	1	O-ring no. 108	∅ 6.02 x 2.62 N90
3	4*)	4	O-ring no. 012	∅ 9.25 x 1.78 N90
4	2*)	1	Backup ring	∅ 10/6.7 x 1

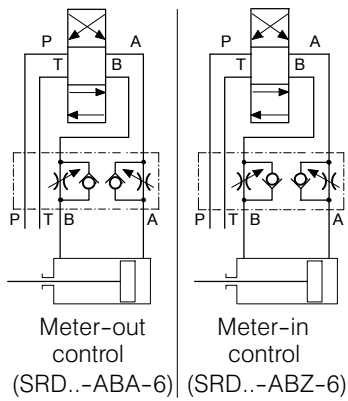
SRD..-AA/BA-6 / SRD..-AZ/BZ-6
SRD..-ABA-6 / SRD..-ABZ-6

7. Installation and servicing

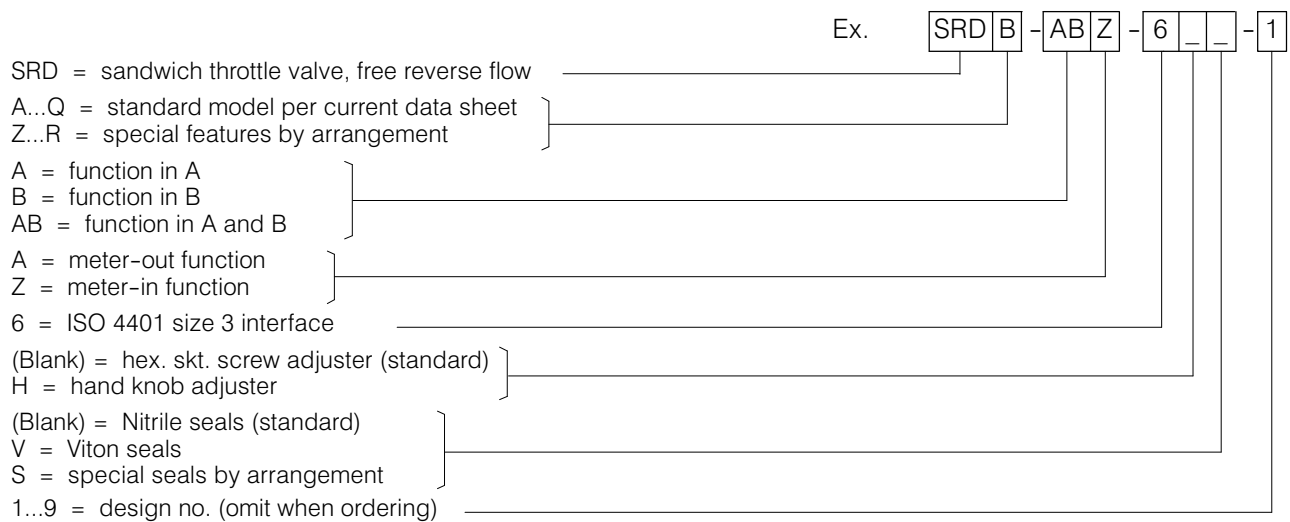
All installation and servicing must be carried out with care, and by qualified personnel only. At installation, be sure to mount the valve the correct way up to produce the required

metering function. Use the specified tightening torque for the guide nut. When changing seals, the new seals should be thoroughly oiled or greased before they are fitted.

8. Application example



9. Ordering code



10. Related data sheets

New no.

400-P-030501	DIN 24 340 A6 interface
400-P-805901	Seal Plate 6 mm
400-P-407101	Throttle / Check valve type RDB ...

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Classification: 450325.330.315.355