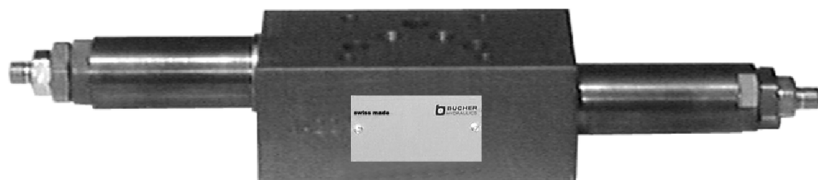


Stacking Cross-Line Relief Valve, size 5 Direct Acting Seat Valve Design Series SDDB-..S ...



- 350 bar, 100 l/min
- With direct acting, zero leakage, 10 mm pressure relief cartridge DDPB-1C-10 ...
- 350 bar, 100 l/min on all ports
- In single cartridge versions (symbols 1 and 2) a cavity blanking plug is inserted in the opposite end
- ISO 4401 / CETOP R35H size 5, NFPA D05, DIN 24 340 A10 interface

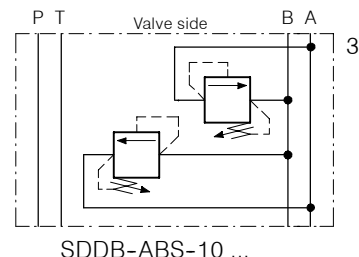
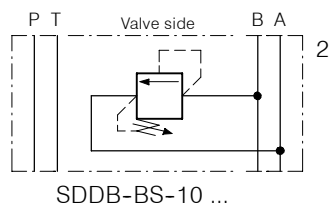
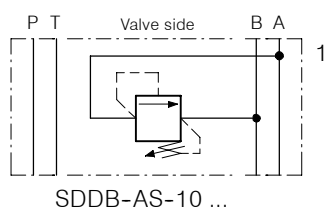
1. Description

Series SDDB-...S-10 stack valves protect A and/or B against pressure peaks, relieving such peaks to B and/or A ('cross-line'). They are equipped with the direct acting pressure relief cartridge type DDPB-1C-10...

The valves have a fast response, close with virtually zero leakage and are rated for the full ISO size 5 flow rate. The screw-in design of the cartridge valve

provides for straight-forward, trouble-free maintenance. Interface sealing is by means of O-rings which are retained in counterbores in the valve body.

2. Symbols

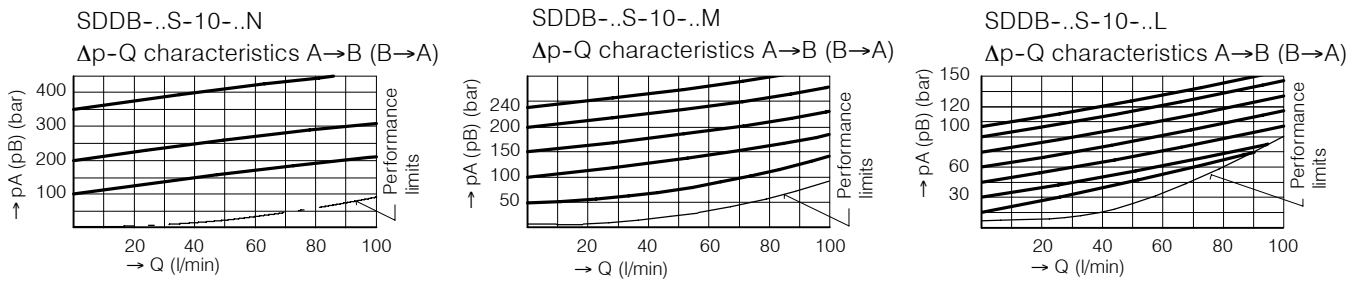


3. Main characteristics

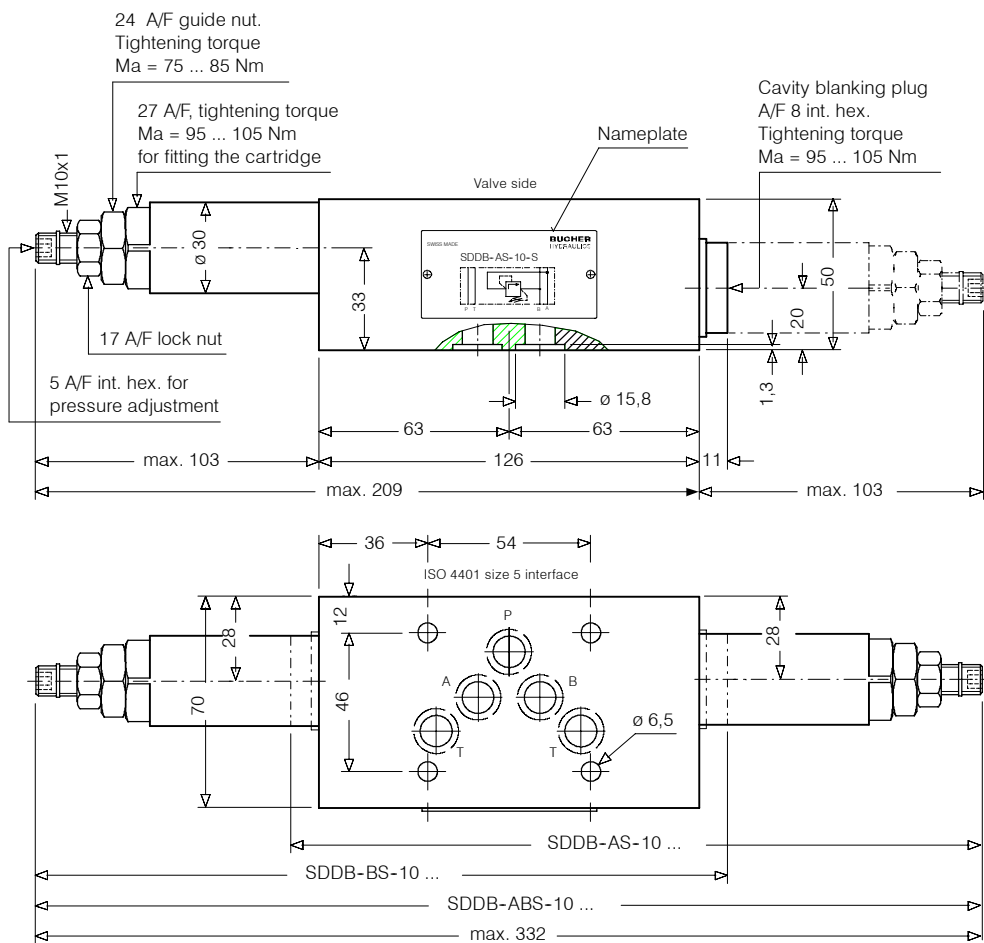
Designation		stacking cross-line relief valve
Design		direct acting, seat type
Mounting method		stack mounting
Size		ISO 4401 size 5 interface
Weight	kg	SDDB-AS / -BS-6 = 2,17 SDDB-ABS-6 = 2,40
Mounting attitude		unrestricted
Flow direction		see symbols
Operating pressure range	bar	... 350 in P, A, B and T
Adjustment ranges	bar	pressure range N = 180 ... 350 pressure range M = 080 ... 240 pressure range L = 010 ... 100
Flow rate, Q _{max}	l/min	100, see performance limits
Fluids		HL and HLP hydraulic oils to DIN 51 524; for other fluids, please consult BUCHER
Fluid temperature range	°C	-25 ... +80
Ambient temperature	°C	-25 ... +80
Viscosity range	mm ² /s (cSt)	10 ... 650, recommended 15 ... 250
Minimum fluid cleanliness level		18/14 to ISO 4406 / CETOP RP70H; 8 ... 9 to NAS 1638

4. Performance graphs

Measured with oil viscosity 33 mm²/s (cSt)



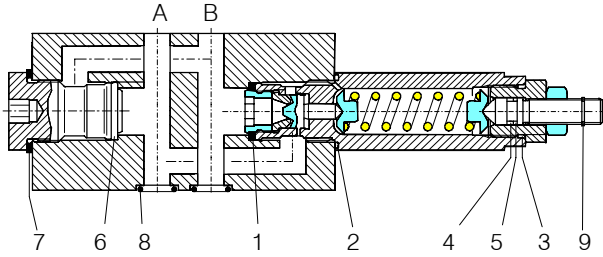
5. Dimensions



6. Schematic section

showing the relevant ports

Ex. SDDB-BS-10 ...



Seal kit no. DS-223, comprising *):

ltn.	Qty.	Qty.	Description	Size
1	1	2*)	Seal	∅ 22,1 x 16,1 x 2,5
2	1	2*)	O-ring no. 021	∅ 23,52 x 1,78 N90
3	1	2*)	O-ring no. 017	∅ 17,17 x 1,78 N90
4	1	2*)	O-ring no. 011	∅ 7,65 x 1,78 N90
5	1	2*)	Backup ring	∅ 6,1/1,45x1,4 FI0751
6	1*)	-	Seal T 114	
7	1*)	-	Usit-ring	∅ 24,7 / 32 x 2
8	5	5*)	O-ring no. 014	∅ 12,42 x 1,78 N90
9	1	2*)	Snap ring	∅ 9 type SS

SDDB-ABS-10 ...
 SDDB-AS / BS-10 ...

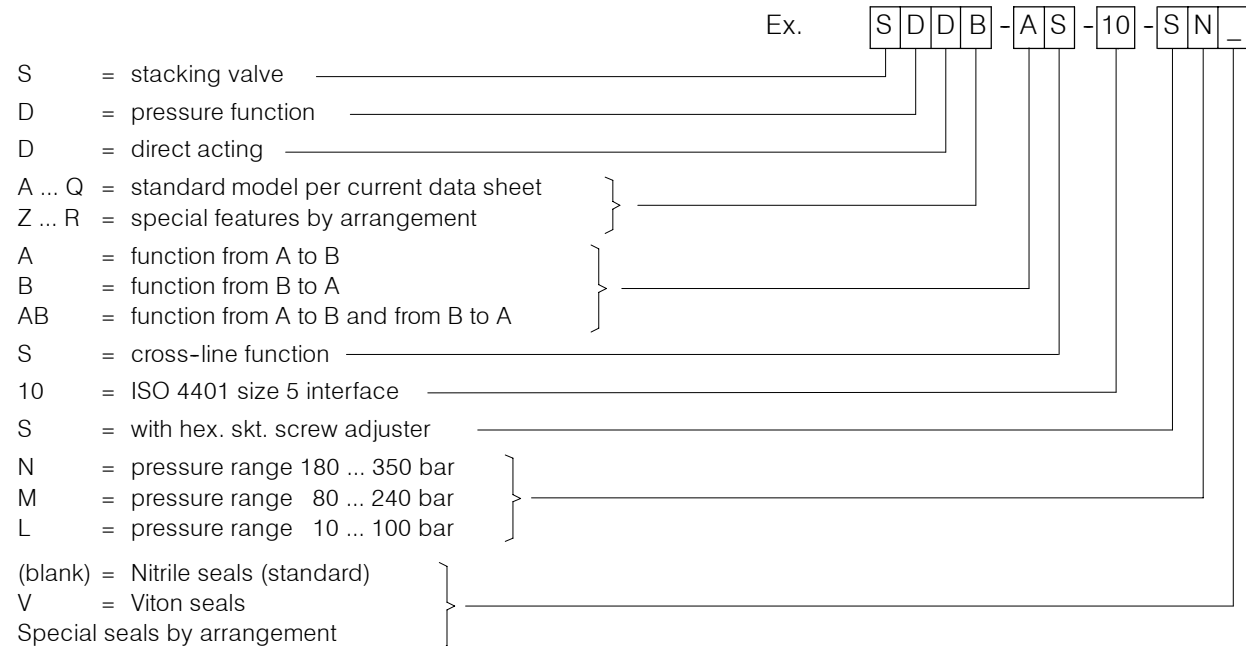
7. Installation and servicing

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

faces contacting the adjacent units and with all interface connections lining up properly. When changing seals, the new seals should be thoroughly oiled or

greased before fitting them to the valve. Use the correct tightening torques when fitting the cartridge, guide nut and cavity blanking plug.

8. Ordering code



9. Related data sheets

Old no.	New no.	
i-00	400-P-010101-E	Table of interface equivalents
i-41	400-P-050101-E	DIN 24 340 size A10 interface
D-3.31A	400-P-270101-E	Direct acting pressure relief cartridge, 10 mm, series DDPB-1C-10 ...

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