

## Stacking Cross-Line Relief Valve, size 3 Direct Acting Seat Valve Design Series SDDB-...S ...



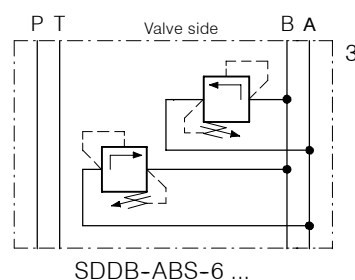
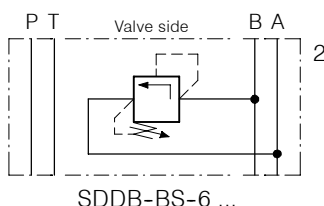
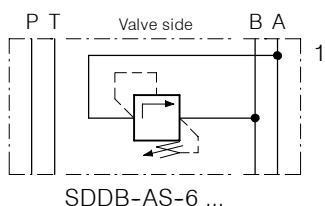
- 80 l/min, 350 bar
- With direct acting, zero leakage, 10 mm pressure relief cartridge DDPB-1C-10 ...
- 350 bar, 80 l/min on all ports
- In single cartridge versions (symbols 1 and 2) a cavity blanking plug is inserted in the opposite end
- ISO 4401 / CETOP R35H size 3, NFPA D03, DIN 24 340 A6 interface

### 1. Description

Series SDDB-...S-6 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 3 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

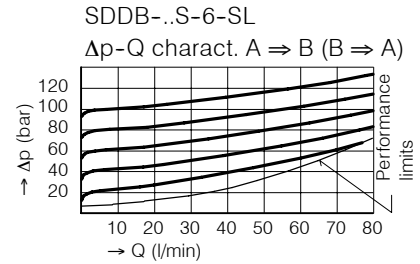
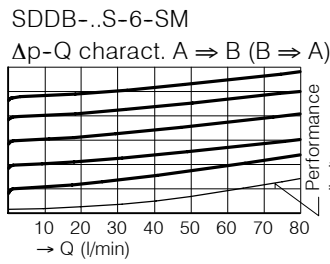
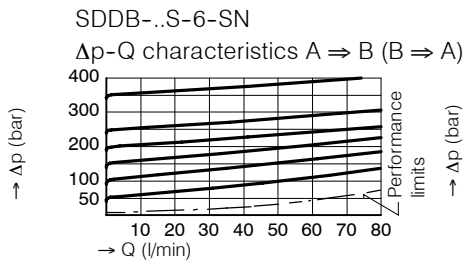


### 3. Characteristics

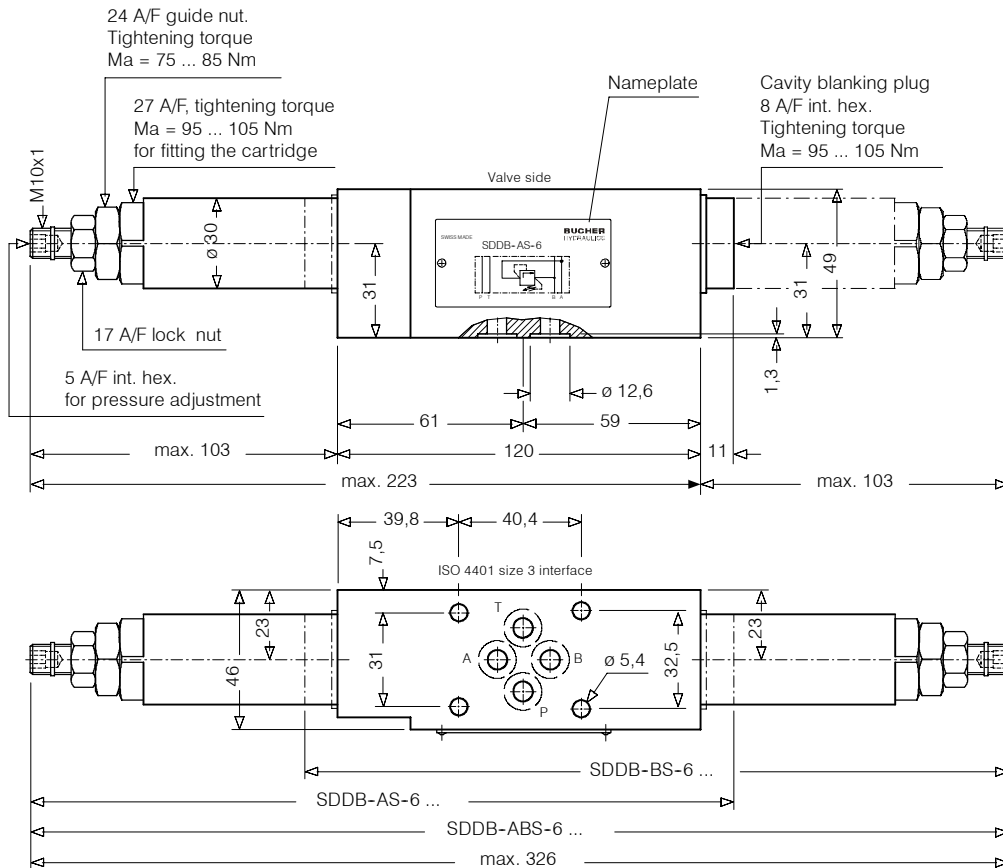
Type		stacking cross-line relief valve
Design		direct acting, seat type
Mounting method		stack mounting
Size		ISO 4401 size 3 interface
Mass	kg	SDDB-AS / -BS-6 = 2,17; SDDB-ABS-6 = 2,40
Mounting attitude		unrestricted
Flow direction		see symbols
Operating pressure in P, A, B and T	bar	350
Adjustment ranges	bar	pressure range N = 180 ... 350 pressure range M = 080 ... 240 pressure range L = 010 ... 100
Flow rate Qmax	l/min	80, see performance limits
Fluids		Hydraulic oils HL and HLP to DIN 51 524, other fluids contact BUCHER
Fluid temperature range	°C	-25 ... + 80
Ambient temperature	°C	-25 ... + 80
Viscosity range	cSt	10 ... 650, recommended 15 ... 250
Minimum fluid cleanliness		18/14 to ISO 4406 /CETOP RP70H 8 ... 9 to NAS 1638

## 4. Performance graphs

Oil viscosity 33 cSt



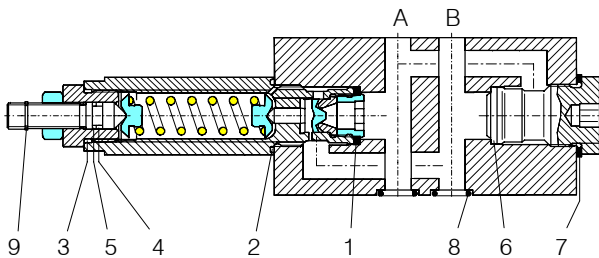
## 5. Dimensions



## 6. Schematic section

showing the relevant ports

Ex. SDDB-AS-6 ...



Seal kit no. DS-257, comprising:

Itm.	Qty.	Qty.	Description	Size
1	1	2	Seal	∅ 22.1/16.1x2.5
2	1	2	O-ring no. 021	∅ 23.52x1.78 N90
3	1	2	O-ring no. 017	∅ 17.17x1.78 N90
4	1	2	O-ring no. 011	∅ 7.65x1.78 N90
5	1	2	Backup ring	∅ 6,1X1,45X1,4
6	1	-	Usit-Ring	∅ 24.7/32x2
7	4	4	O-ring no. 012	∅ 9.25x1.78 N90
8	1	2	Snap ring	∅ 9 Typ SS

SDDB-ABS-6 ...  
 SDDB-AS-6.../SDDB-BS-6...

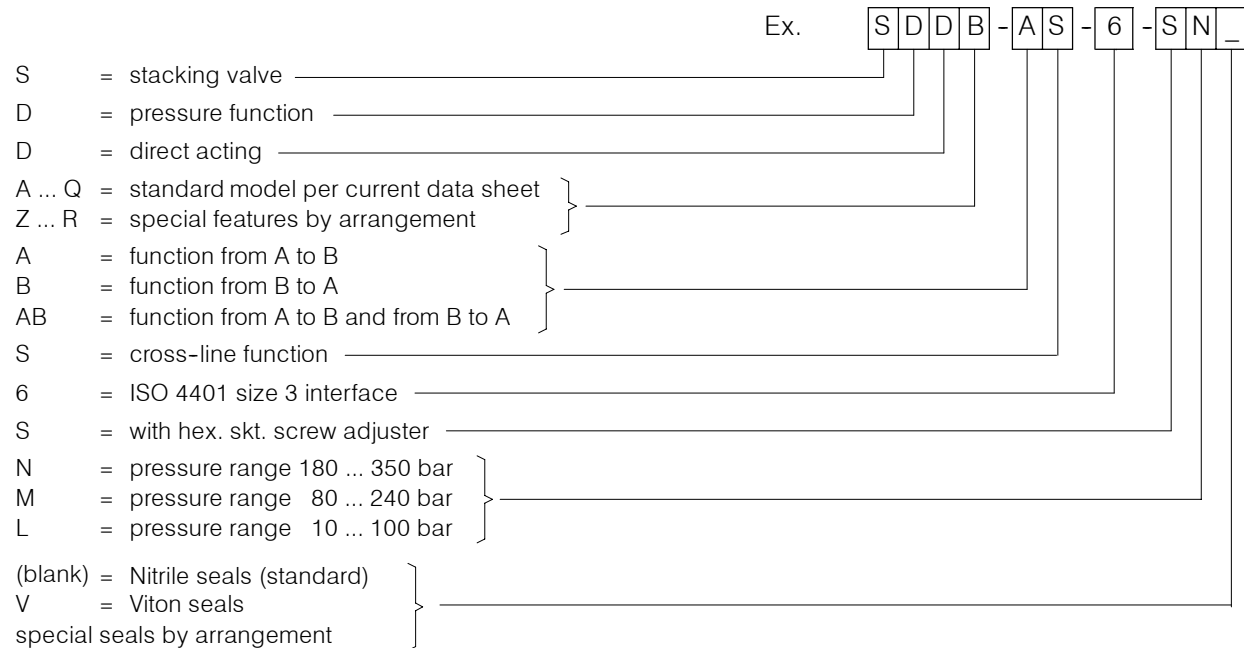
## 7. Installation and servicing

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



## 9. Related data sheets

Old no.	New no.	
i-00	400-P-010101-E	Table of interface equivalents
i-31	400-P-030501-E	DIN 24 340 size A6 interface
D-3.31	400-P-270101-E	Direct acting pressure relief cartridge, 10 mm, series DDPB-1C-10 ...

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