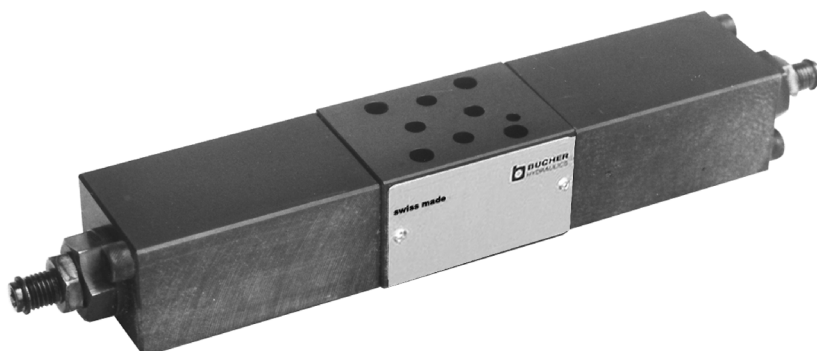


Stacking Pressure Relief Valve, size 2 Direct Acting Series SDDA ...



- 250 bar, 25 l/min
- Direct acting, near zero-leakage poppet
- Functional parts in side-mounted body
- Fast response time
- 5 pressure ranges
- User-modifiable to hand knob or lockable hand knob adjustment
- with ISO 4401-02-01 interface

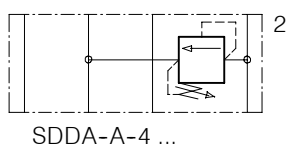
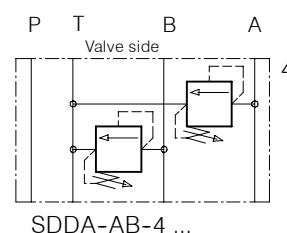
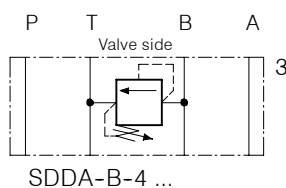
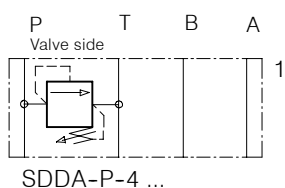
1. Description

Series SDDA ... -4 units are stack mounting pressure relief valves which relieve P, A, B or A and B to T. The \varnothing 3

mm location pin on the actuator face of the valve prevents incorrect mounting. Valves are shipped as standard with

screw adjustment. Alternatively, they can be supplied with adjustment by hand knob, or lockable hand knob.

2. Symbols



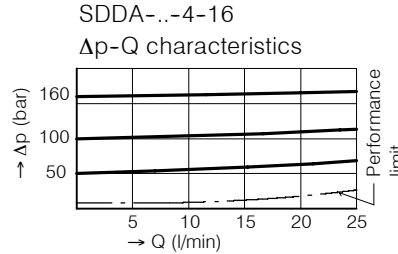
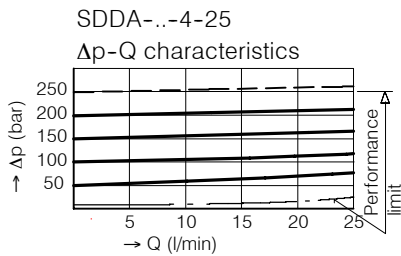
3. Characteristics

Type		pressure relief slice valve
Design		direct acting seat valve
Mounting method		stack mounting
Size		ISO 4401-02-01 interface
Mass	kg	models ..P.. / ..A.. / ..B.. = 0,77, model ..AB.. = 1,15
Mounting attitude		unrestricted
Flow direction		see symbols
Operating pressure	bar	... 250 in P, A and B; ... 160 in T
Pressure adjustment range	bar	code 25 = ... 250 code 16 = ... 160 code 10 = ... 100 code 04 = ... 040 code 02 = ... 020
Flow rate Qmax	l/min	25
Fluids		Hydraulic oils HL and HLP to DIN 51 524 other fluids - contact BUCHER
Fluid temperature range & ambient temp.	°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

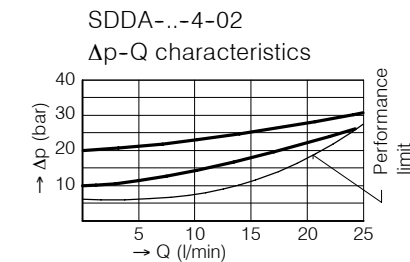
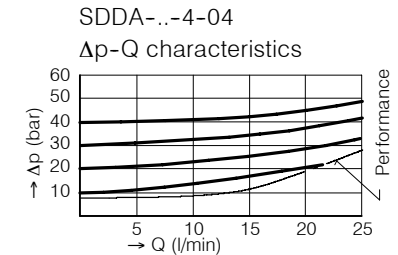
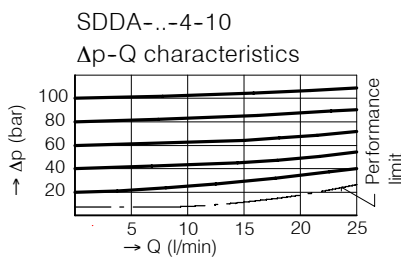
4. Performance characteristics

Oil viscosity 33 cSt

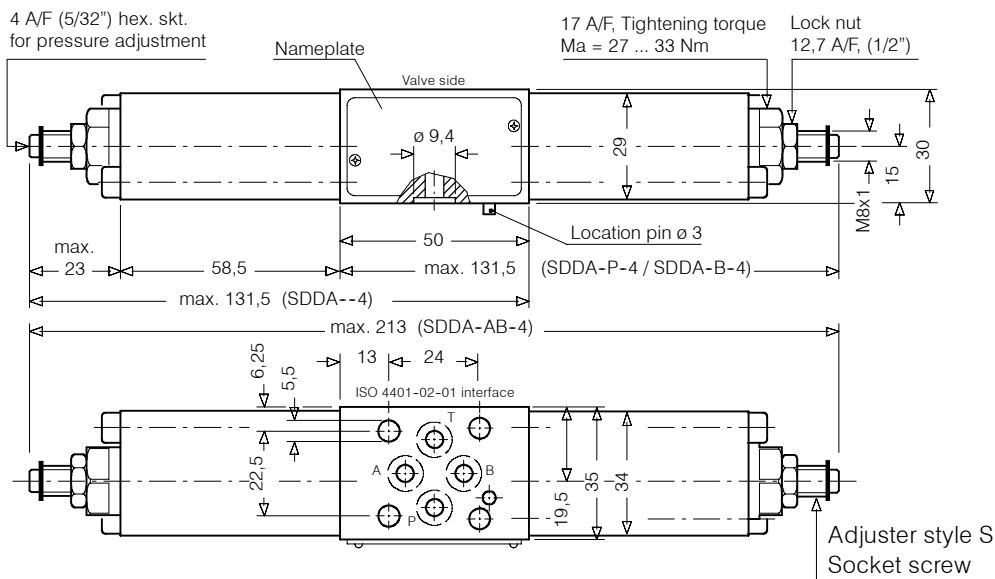


Rate of pressure change
when turning the adjusting screw:

SDDA-...-4-25: 1 turn	≅ app. 45 bar
SDDA-...-4-16: 1 turn	≅ app. 30 bar
SDDA-...-4-10: 1 turn	≅ app. 18 bar
SDDA-...-4-04: 1 turn	≅ app. 6 bar
SDDA-...-4-02: 1 turn	≅ app. 2,5 bar

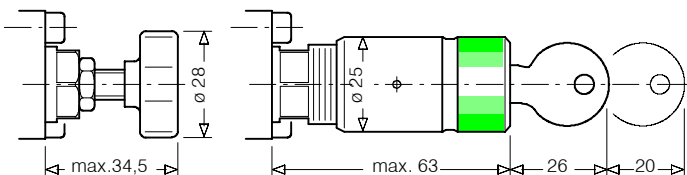


5. Dimensions



Adjuster styles / OPTIONAL

Conversion kit for styles S, H and Z5 - see related data sheets

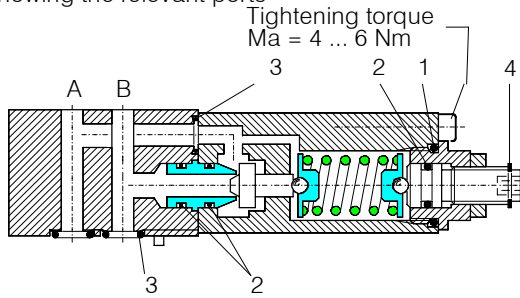


Adjuster style H
Hand knob

Adjuster style Z5, lockable hand knob type 2H
Complies with Volkswagen Factory specification BV 1.09

6. Schematic section

showing the relevant ports



Seal kit no. DS-212, comprising *):

Itm.	Qty.	Qty.	Description	Size
1	2*)	1	O-ring no. 016	Ø 15,60 X 1,78 N90
2	6*)	3	O-ring no. 009	Ø 5,28 x 1,78 N90
3	6*)	5	O-ring no. 010	Ø 6,07 x 1,78 N90
4	2*)	1	Snap ring	Type SS Ø 7

SDDA-B/-A/-P-4
SDDA-AB-4

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.

Do not confuse the flat surface (directional valve side) and the surface with O-ring counterbores (actuator side). 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 threaded housing and cap screws.

8. Model code key

Ex.

S	D	D	A	-	P	-	4	-	25	-	S	-	-	-	1
---	---	---	---	---	---	---	---	---	----	---	---	---	---	---	---

- S = stacking valve
- D = pressure relief function
- D = direct acting
- A ... Q = standard model per current data sheet
- Z ... R = special features by arrangement
- P = relief function P to T
- A = relief function A to T
- B = relief function B to T
- AB = relief function A and B to T
- 4 = ISO 4401-02-02 interface
- 25 = pressure range ... 250 bar
- 16 = pressure range ... 160 bar
- 10 = pressure range ... 100 bar
- 04 = pressure range ... 40 bar
- 02 = pressure range ... 20 bar
- S = with hex. skt. screw adjuster (standard)
- H = with hand knob adjuster type H
- Z = with lockable hand knob adjuster type Z5
- (Blank) = Nitrile seals (standard)
- V = Viton seals
- For special seals, please consult BUCHER
- 1 ... 9 = design number (omit when ordering)

9. Related data sheets

Old no.	New no.	
i - 17.00	400-P-015101-E	Procedure for changing the Adjuster Style
i - 30	400-P-030101-E	ISO 4401-02-01 interface

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