

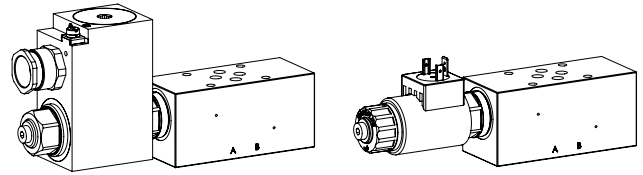
Solenoid operated poppet valve

Sandwich construction

- ◆ direct operated
- ◆ normally open and normally closed
- ◆ $Q_{max} = 40 \text{ l/min}$
- ◆ $p_{max} = 350 \text{ bar}$

NG6

ISO 4401-03



DESCRIPTION

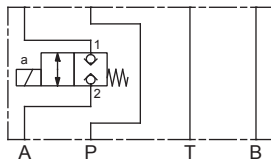
Direct operated 2/2-way solenoid poppet valve in sandwich construction. By means of the pressure tight switching solenoid, the poppet valve spool is opened or closed acting against the spring. Due to the poppet spool construction with pressure compensation on both sides, the flow through the valve is possible in both directions. The seat spool guide is sealed by means of an O-ring. The metallic sealing seat closes the valve virtually leak free.

APPLICATION

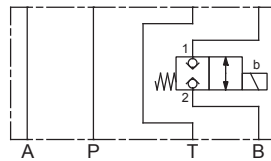
Poppet valves are used where tight closing functions of the valve are essential like leakage-free load holding, clamping or gripping.

SYMBOL

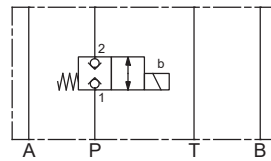
SD.SA06-AC



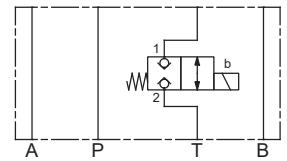
SD.SA06-BC



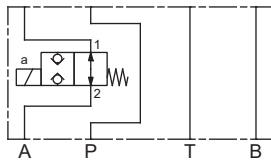
SD.SA06-PC



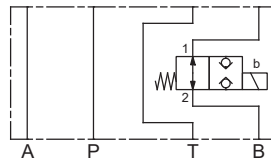
SD.SA06-TC



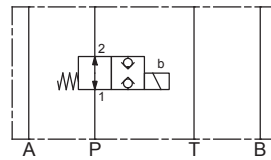
SD.SA06-A0



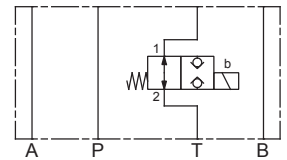
SD.SA06-B0



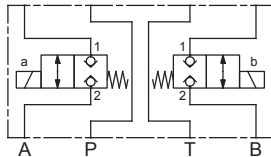
SD.SA06-P0



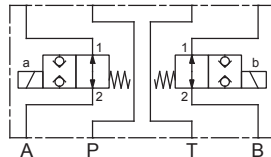
SD.SA06-T0



SD.SA06-ABC



SD.SA06-AB0



TYPE CODE

Poppet valve direct operated		SD ☐ SA06 - ☐ ☐ - ☐ / ☐ ☐ - ☐ # ☐	
Coil execution	Standard ☐ S Ex-protection ☐ Y		
Sandwich construction nominal size 6			
Type list / Function	in P ☐ P in T ☐ T in A and B ☐ AB in A ☐ A in B ☐ B		
Normally closed	☐ C		
Normally open	☐ O		
Nominal voltage U _N	12 VDC ☐ G12 115 VAC ☐ R115 24 VDC ☐ G24 230 VAC ☐ R230		
Slip-on coil Standard (S)	☐ V	☐ N	
Ex-protection (Y)	☐ L15	☐ L21	
Connection execution (S)	☐ D	☐ J	☐ G
Certification (Y)	ATEX, UKEX, IECEx EAC, CCC Australia ☐ AU	USA / Canada MA ☐ MA	India ☐ PE ☐ UC-M187
Sealing material	NBR ☐ FKM (Viton) ☐ D1 NBR 872 ☐ Z604		
Design index (subject to change)			
1.11-2545			

GENERAL SPECIFICATIONS

Designation	2/2-way poppet valve
Construction	Direct operated
Mounting	Sandwich construction
Nominal size	NG6 according to ISO 4401-03
Actuation	Switching solenoid
Ambient temperature	-25...+70 °C
Weight	1,5 kg (only body)
MTTFd	150 years

HYDRAULIC SPECIFICATIONS

Working pressure	p _{max} = 350 bar
Maximum volume flow	Q _{max} = 40 l/min, see characteristics
Leakage oil	Poppet type, max. 0,15 ml / min (approx. 3 drops / min) at 30 cSt
Fluid	Mineral oil, other fluid on request
Viscosity range	12 mm²/s...320 mm²/s
Temperature range fluid	-25...+70 °C (NBR) -20...+70 °C (FKM)
Contamination efficiency	Class 20 / 18 / 14
Filtration	Required filtration grade β 10...16 ≥ 75, see data sheet 1.0-50

ACTUATION

Actuation	Switching solenoid, wet pin push type, pressure tight
Execution	V.E37 / 19 x 50 (Data sheet 1.1-168) N.S35 / 19 x 50 (Data sheet 1.1-175) MKY45 / 18 x 60 (data sheet 1.1-183)

INSTALLATION NOTES

Mounting type	Sandwich mounting 4 fixing holes for socket head screws or studs M5
Mounting position	Any, preferably horizontal
Tightening torque	Fixing screws M ₅ = 5,2 Nm (screw quality 8.8, zinc coated)

Note!


Other specifications, see data sheet of the screw-in cartridges

PERFORMANCE SPECIFICATIONS

Attention! The performance data especially the „pressure-flowcharacteristic,“ on the data sheets of the screw-in cartridges refer to the screw-in cartridges only. The additional pressure drop of the sandwich body must be taken into consideration.



Note!



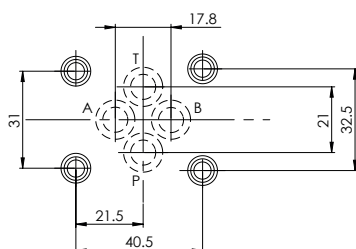
Detailed characteristics as well as further hydraulic specifications can be found on the data sheet of the cartridge installed.

VALVES INSTALLED

The following screw-in cartridges are used in the sandwich body.

Article	Description	Data sheet no.
SDSPM22-BA	Poppet valve, normally closed	1.11-2061
SDSPM22-AB	Poppet valve, normally open	1.11-2061
SDYPM22-BA	Poppet valve ex-protection, normally closed	1.11-2064
SDYPM22-AB	Poppet valve ex-protection, normally open	1.11-2064

HYDRAULIC CONNECTION



ACCESSORIES

Fixing screws	Data sheet 1.0-60
Threaded subplates	Data sheet 2.9-30
Multi-station subplates	Data sheet 2.9-60
Module type manifold blocks	Data sheet 2.9-100
Technical explanations	Data sheet 1.0-100
Filtration	Data sheet 1.0-50
Relative duty factor	Data sheet 1.1-430

PARTS LIST

Position	Article	Description
20	238.5404	Screw plug VSTI M22 x 1,5

MANUAL OVERRIDE

Screw plug (HB0), no actuation possible
Optionally: HB4,5, HN(K) or HR(K)
→ See data sheet 1.1-311

STANDARDS

Mounting interface	ISO 4401-03
Solenoids	DIN VDE 0580
Connection execution D	EN 175301 – 803
Protection class	EN 60 529
Contamination efficiency	ISO 4406

SURFACE TREATMENT

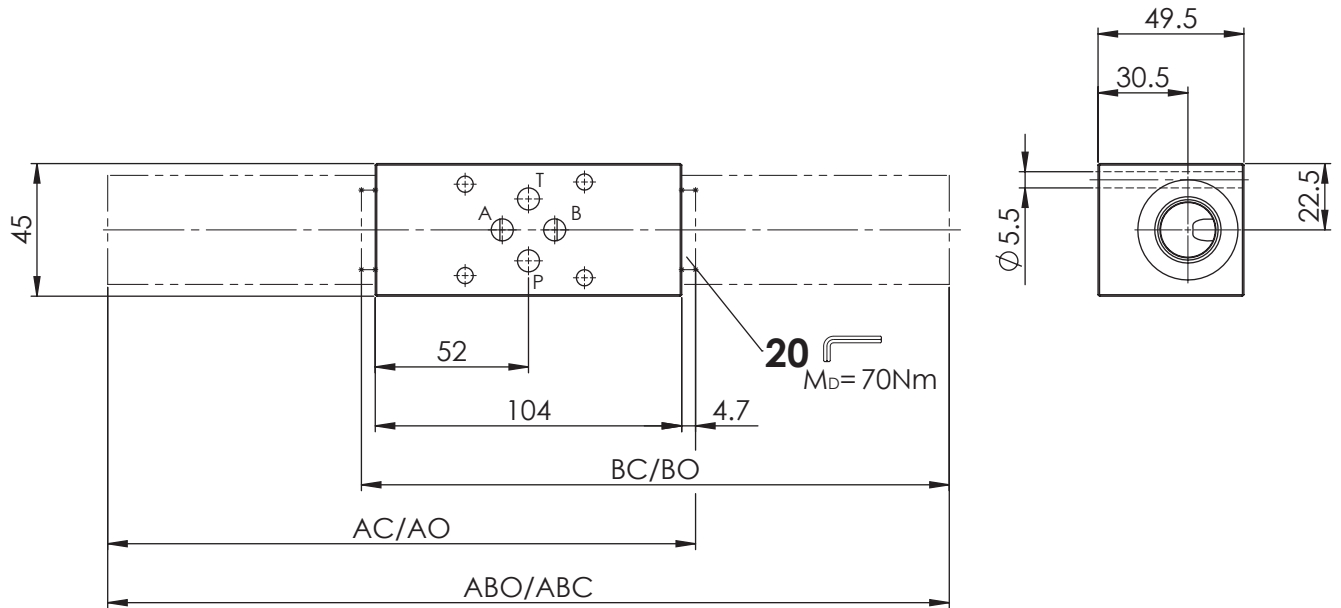
◆ The sandwich bodies are zinc-nickel coated

SEALING MATERIAL

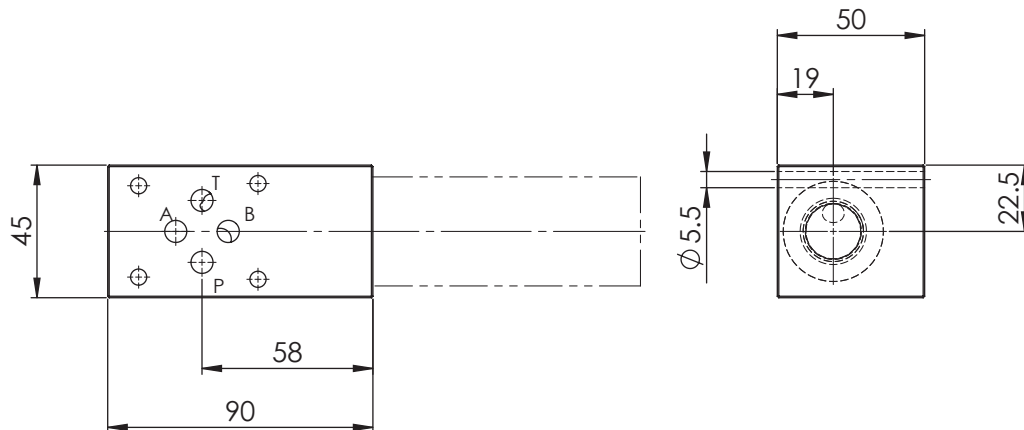
NBR or FKM (Viton) as standard, choice in the type code

DIMENSIONS

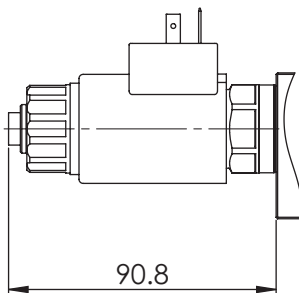
SD.SA06-AC / AO / BC / BO / ABC / ABO



SD.SA06-PC / PO / TC / TO



SDSSA06



SDYSA06

