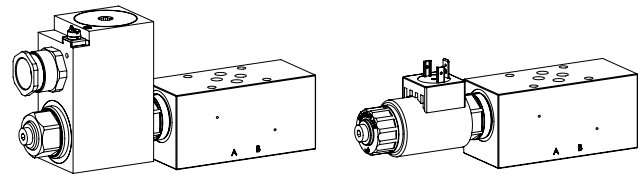


Solenoid operated poppet valve
Sandwich construction

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

NG6
ISO 4401-03

DESCRIPTION

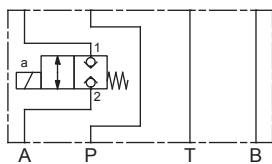
Direct operated 2/2-way solenoid poppet valve in sandwich construction. By means of the pressure tight switching solenoid, the poppet valve spool is opened or closed acting against the spring. Due to the poppet spool construction with pressure compensation on both sides, the flow through the valve is 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

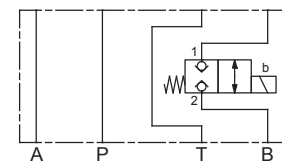
Poppet valves are used where tight closing functions of the valve are essential like leakage-free load holding, clamping or gripping.

SYMBOL

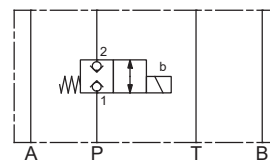
SD.SA06-AC



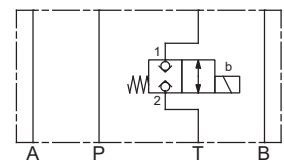
SD.SA06-BC



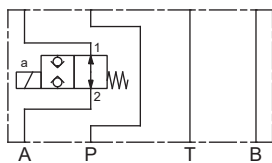
SD.SA06-PC



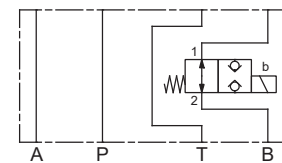
SD.SA06-TC



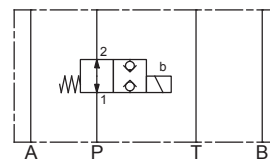
SD.SA06-A0



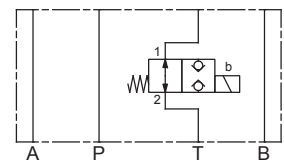
SD.SA06-B0



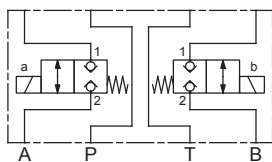
SD.SA06-P0



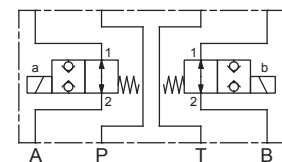
SD.SA06-T0



SD.SA06-ABC



SD.SA06-AB0



TYPE CODE

| | | | | | | | | | | | | | | | |
|--------------------------------------|------------------|-------------------------------|------------------------------|---------------------------------|------------------------------|----------------------------|------------------------------|----------------------------|--|----------------------------|--|----------------------------|--|--|--|
| Poppet valve direct operated | | SD <input type="checkbox"/> | | SA06 - <input type="checkbox"/> | | - <input type="checkbox"/> | | / <input type="checkbox"/> | | - <input type="checkbox"/> | | # <input type="checkbox"/> | | | |
| Coil execution | Standard | <input type="checkbox"/> S | | Ex-protection | | <input type="checkbox"/> Y | | | | | | | | | |
| Sandwich construction nominal size 6 | | | | | | | | | | | | | | | |
| Type list / Function | Poppet valve | | in P | <input type="checkbox"/> P | in T | <input type="checkbox"/> T | | | | | | | | | |
| | | | in A and B | <input type="checkbox"/> AB | in A | <input type="checkbox"/> A | in B | <input type="checkbox"/> B | | | | | | | |
| Normally closed | | | <input type="checkbox"/> C | | | | | | | | | | | | |
| Normally open | | | <input type="checkbox"/> O | | | | | | | | | | | | |
| Nominal voltage U _N | 12 VDC | <input type="checkbox"/> G12 | 115 VAC | <input type="checkbox"/> R115 | | | | | | | | | | | |
| | 24 VDC | <input type="checkbox"/> G24 | 230 VAC | <input type="checkbox"/> R230 | | | | | | | | | | | |
| Slip-on coil Standard (S) | | | <input type="checkbox"/> V | | <input type="checkbox"/> N | | | | | | | | | | |
| Ex-protection (Y) | | | <input type="checkbox"/> L15 | | <input type="checkbox"/> L17 | | <input type="checkbox"/> L21 | | | | | | | | |
| Connection execution (S) | | | <input type="checkbox"/> D | | <input type="checkbox"/> J | | <input type="checkbox"/> G | | | | | | | | |
| Certification (Y) | ATEX, IECEx, EAC | <input type="checkbox"/> | UL / CSA | <input type="checkbox"/> UL | | | | | | | | | | | |
| | Australia | <input type="checkbox"/> AU | MA | <input type="checkbox"/> MA | | | | | | | | | | | |
| Sealing material | NBR | <input type="checkbox"/> | | | | | | | | | | | | | |
| | FKM (Viton) | <input type="checkbox"/> D1 | | | | | | | | | | | | | |
| | NBR 872 | <input type="checkbox"/> 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 mm ² /s...320 mm ² /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) MKU45 / 18 x 60 (data sheet 1.1-184) |



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

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 ₀ = 5,2 Nm (screw quality 8.8, zinc coated) |

PERFORMANCE SPECIFICATIONS

Attention! The performance data especially the „pressure-flow characteristic,“ 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!



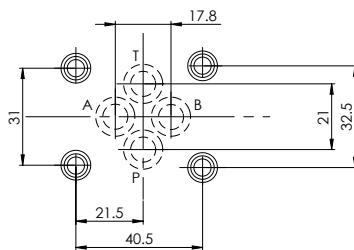
Detailed characteristics as well as further hydraulic specifications can be found on the data sheet of the cartridge installed.

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 2.9-80 |
| 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

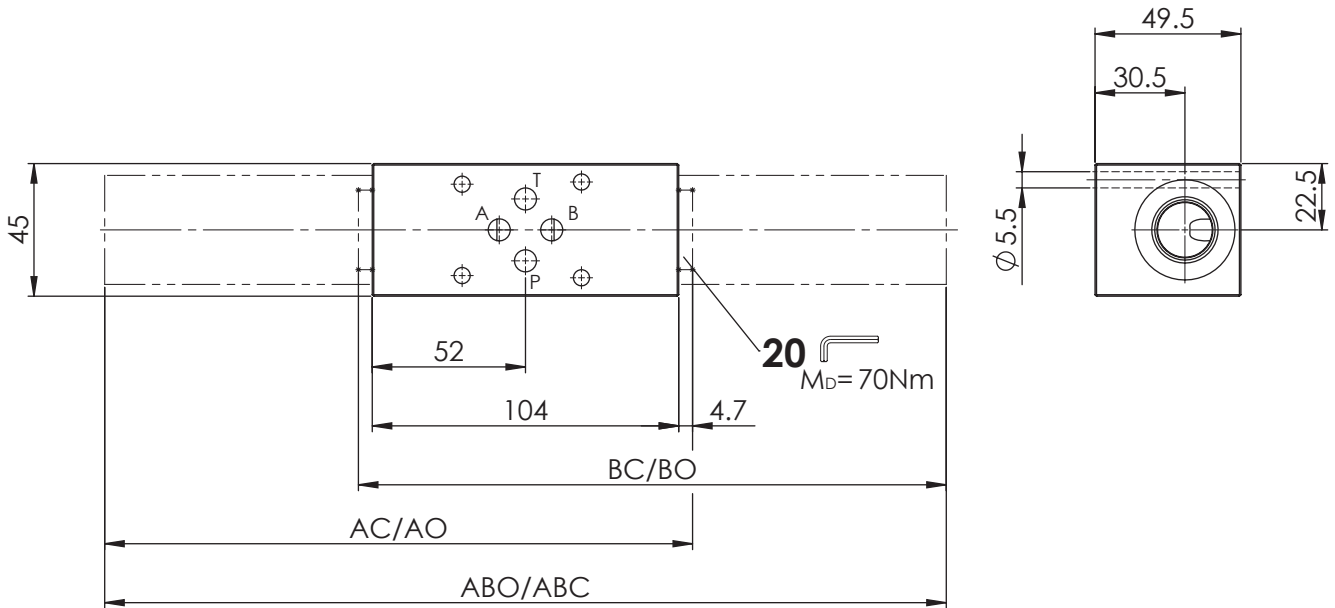
◆ The sandwich bodies are zinc-nickel coated

SEALING MATERIAL

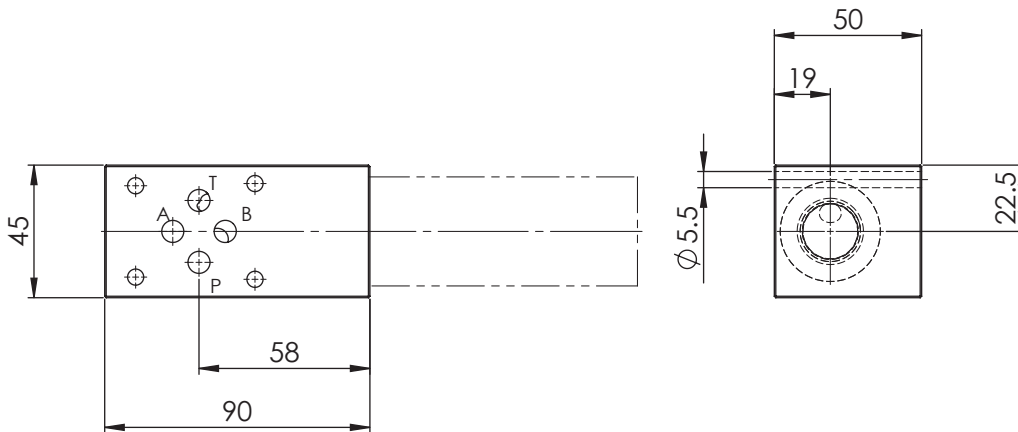
NBR or FKM (Viton) as standard, choice in the type code

DIMENSIONS

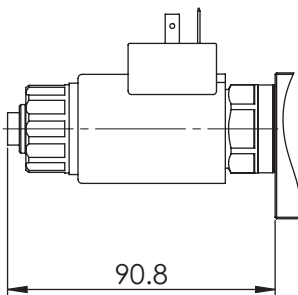
SD.SA06-AC / AO / BC / BO / ABC / ABO



SD.SA06-PC / PO / TC / TO



SDSSA06



SDYSA06

