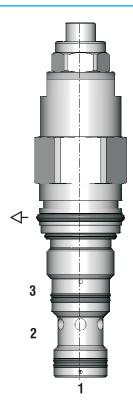
SOB5A-BP3

7/8-14 UNF • Q_{max} 40 l/min (11 GPM) • p_{max} 420 bar (6100 PSI)

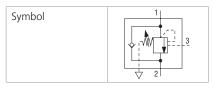


Technical Features

- > The valve prevents runaway ahead of the pump in the event of a negative load
- > Load-holding with leak-free closing poppet when the directional control valve is in neutral position
- > Pressure relief function protecting the actuator against overloading and pressure peaks
- > Integrated check valve acting as an anti-cavitation valve
- > When installed close to actuator the valve can be used as a hose burst valve
- > Back pressure has got negligible effect on relief setting nor the required pilot pressure
- > Setting can be performed during machine operation = leak free closing of adjustable element
- > Wide relief pressure range of setting, in standard up to 420 bar (6100 PSI)
- > In the standard version, the valve is zinc-coated for 520 h protection acc. to ISO 9227

Functional Description

Poppet-type, screw-in motion control valve designed to control the runaway of a negative load. The built-in check valve allows reverse flow into the actuator, which is protected by the internal pressure relief function. Back pressure at port 2 has got negligible effect to the pressure relief setting and the required pilot pressure.



Technical Data

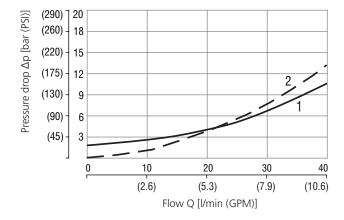
| Valve size / Cartridge cavity | 7/8-14 | 7/8-14 UNF-2A / BP3 (C-10-3S) | | |
|-------------------------------|-------------|-------------------------------|-----------------------|------------|
| Max. flow | l/min (GPM) | | 40 (10.6) | |
| Relief pressure range | | 21 | 32 | 42 |
| Max. load induced pressure | bar (PSI) | 175 (2540) | 265 (3840) | 350 (5080) |
| Max. relief pressure | bar (PSI) | 210 (3050) | 320 (4640) | 420 (6090) |
| Fluid temperature range (NBR) | °C (°F) | -30. | -30 +100 (-22 +212) | |
| Fluid temperature range (FPM) | °C (°F) | -20 | -20 +120 (-4 +248) | |
| Pilot ratio | | 2.5:1 | | 5:1 |
| Leakage | ml/min | 0.3 | 0.3 (5 drops per min) | |
| Weight | kg (lbs) | | 0.29 (0.64) | |

| | | Datasheet | Туре | |
|---------------------|------------------|----------------|-----------------------------------|--|
| General information | | GI_0060 | Products and operating conditions | |
| Valve bodies | In-line mounted | SB_0018 | SB-BP3* | |
| | Sandwich mounted | SB-04(06)_0028 | SB-BP3* | |
| Cavity details | | SMT_0019 | SMT-BP3* | |
| Spare parts | | SP_8010 | | |

Characteristics measured at $v = 40 \text{ mm}^2\text{/s}$ (195 SUS)

Pressure drop related to flow rate

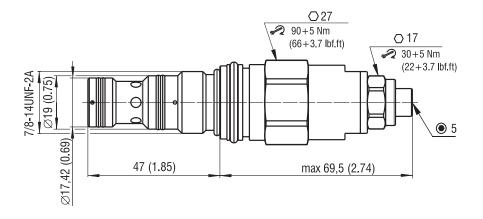
Pilot ratio 2.5:1 and 5:1



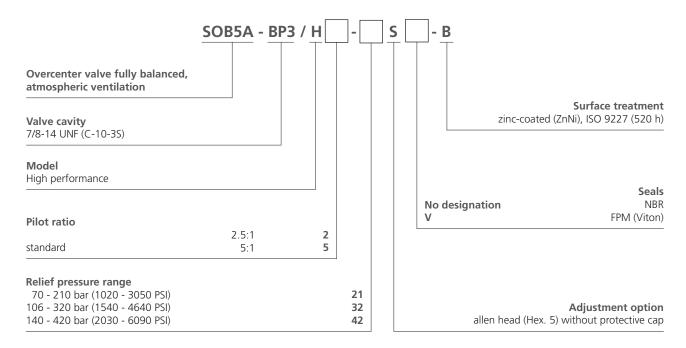
| Flow | |
|------|------------------|
| 1 | free flow (2→1) |
| 2 | pilot open (1→2) |

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