Relief Valves



DB.B7.S08 Valve Series

SAE08 Cartridge - 420 bar **Direct acting - Poppet type**

Description & Operation

A screw-in, cartridge style, direct acting, poppet type, normally closed hydraulic relief valve. It's typically used to protect hydraulic components from pressure transients. When the pressure at the Inlet (1) reaches the valve setting, the valve starts to open to tank (2) and thanks to the effect of the deflector integrated into the poppet it provides a limited pressure rise. The cartridge offers excellent response to load changes in hydraulic circuits requiring low internal leakage as well as limited hysteresis.



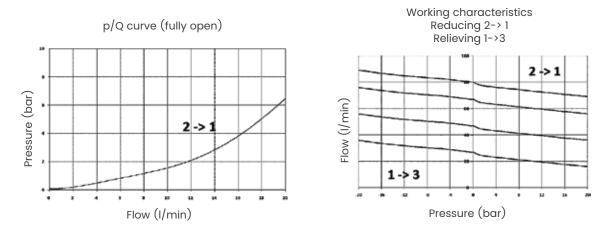


Hydraulic Symbol

Technical Data

| Maximum operating pressure | 420 bar |
|-------------------------------|---|
| Maximum flow | 25 I/min |
| Setting Pressure | See table below |
| Maximum internal leakage | 0,25 cm3/min to 80% of nominal set point |
| External component treatment | Zn/Fe - standard (96h) Zn/Ni (720h) |
| O-ring Temperature | -30° C to 110° C (standard sealing NBR - BUNA-N) |
| Oil Temperature Range | -30° C to 110° C |
| Pressure settings established | @5 I/min |
| Reseat pressure | nominal 90% of cracking pressure |
| Fluids | Mineral - based or synthetics with lubricating properties |
| Viscosities | 7,4 to 420 cSt |
| Filtration | 20/18/15 ISO 4406 (maximum fltration admitted) |
| Orientation | No restrictions |
| Installation torque | 40-45 Nm (Hex. 20) |
| Tightening torque nut | 25-30 Nm (Hex. 19) |
| Oil testing condition | ISO VG 46 cSt |
| Seal kit code | SK.030 |
| Plastic tamper proof cap | CTP.001 (for more details see page 428-429) |
| Weight | 0,100 kg |
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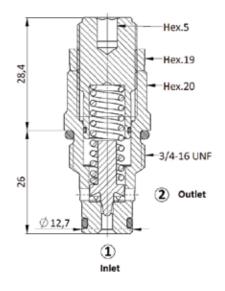
Performance Curve

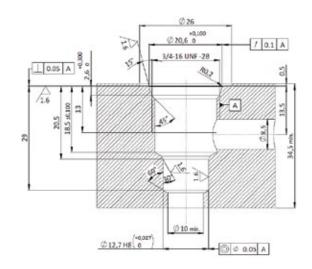


Note: The performance chart illustrates flow handling capacity in the pressure compensated mode for a few significant flow settings.

p/Q curves are recorded at TOil = 40°C and 46 cSt.

A Dimensional Drawing





|||||| Ordering Code

