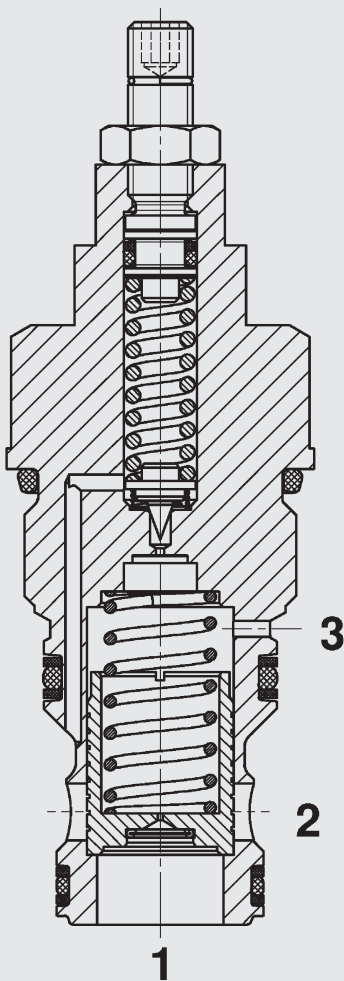


up to 300 l/min
up to 350 bar

FUNCTION



The pressure relief valve is a pilot operated, spool valve with a remote control option via the additional port 3. If the pressure across port 1 exceeds the pre-set value, the pilot-stage opens and oil flows from behind the main spool to the tank port 2. The resulting pressure differential allows the main spool to lift against the reset-spring and allows oil to flow from port 1 to port 2. Additionally the valve may switch the system to unpressurized flow by draining a flow over port 3.

Pressure Relief Valve Spool type, pilot-operated With Remote Control Option UNF Cartridge – 350 bar DB16SPF-01

FEATURES

- Additional port for remote control option, e.g. in combination with a solenoid valve the system may be switched to unloaded flow
- Quick response
- Good stability across the whole pressure and flow range
- Different pressure ranges up to 350 bar available
- Adjustable throughout flow range
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1.000 h Salt spray test)

SPECIFICATIONS*

Operating pressure:	max. 350 bar
Nominal flow:	max. 300 l/min
Operating pressure ranges:	5 to 35 bar 5 to 60 bar 5 to 125 bar 5 to 230 bar 5 to 345 bar
Internal leakage:	max. 1800 ml/min at 80 % $p_{Nom.}$
Media operating temperature range:	min. -30 °C to max. +100 °C
Ambient temperature range:	min. -30 °C to max. +100 °C
Operating fluid:	Hydraulic oil to DIN 51524 Part 1, 2 and 3
Viscosity range:	min. 10 mm ² /s to max. 420 mm ² /s
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner
MTTF _d :	150 – 1200 years, according to DIN EN ISO 13849-1
Installation:	No orientation restrictions
Material:	Valve body: steel Spool: hardened and ground steel Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C) Back-up rings: PTFE
Cavity:	FC16-S3
Weight:	0.5 kg

* see "Conditions and instructions for valves" in brochure 53.000

