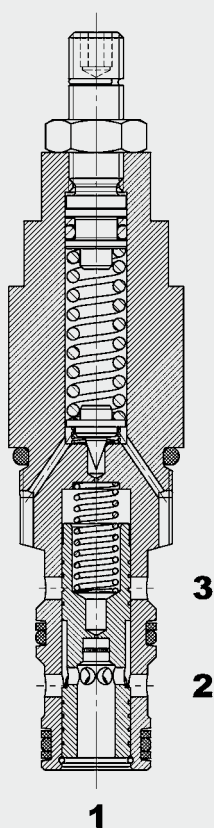


Pressure Reducing Valve Spool Type, Pilot-Operated SAE-10 Cartridge – 350 bar DR10P-01

FUNCTION



The DR10P is a pilot-operated, spring-loaded, spool type pressure reducing valve.

If the pressure across port 1 exceeds the pre-set spring tension, the pilot-stage opens and oil flows from behind the main spool to the tank port 3. The resulting pressure differential causes the main spool to move against the reset-spring and allows oil to flow from port 2 to port 1. This continues until the system pressure is equal to the spring tension and the valve closes again.

If the pressure at port 1 suddenly rises due to external force the valve is relieved to tank port 3 (maximum pressure relief).

Any pressure at port 3 is additive to the valve pressure setting.

FEATURES

- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Excellent stability across the whole flow range
- Screen-protected metering orifice enhances safety
- Optional pressure ranges up to 345 bar
- Quick response
- Compact design

SPECIFICATIONS

Operating pressure:	max. 350 bar
Nominal flow:	max. 100 l/min
Operating pressure ranges:	up to 35 bar up to 62 bar up to 124 bar up to 228 bar up to 345 bar
Internal leakage:	< 0.5 l/min at 350 bar
Media operating temperature range:	min. -30 °C to max. +120 °C
Ambient temperature range:	min. -30 °C to max. +60 °C
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2
Viscosity range:	min. 7.4 mm ² /s to max. 420 mm ² /s
Filtration:	Class 21/19/16 to ISO 4406 or cleaner
MTTF _d :	150 years (see "Conditions and instructions for valves" in brochure 5.300)
Installation:	No orientation restrictions
Material	Valve body: free-cutting steel Spool: hardened and ground steel Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C) Back-up rings: PTFE
Cavity:	FC10-3
Weight:	0.2 kg

