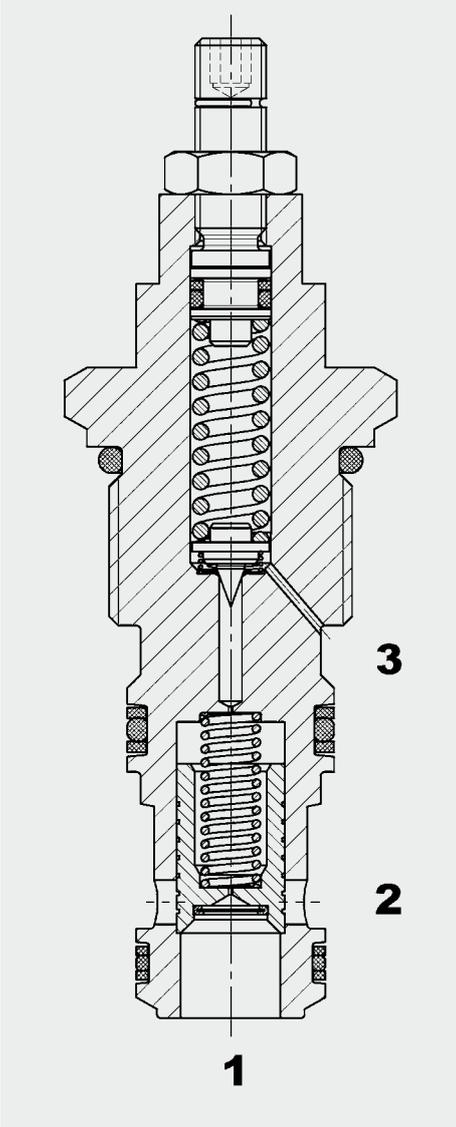


FUNCTION



The DB12121PE is a pilot-operated, spring-loaded spool valve with a pilot drain at port 3. This means that any pressure at port 2 has no influence on pressure adjustment. If the pressure at port 1 exceeds the pre-set spring tension, the pilot-stage opens and oil flows from behind the main spool to tank port 3. The resulting pressure differential causes the main spool to move against the reset-spring and allows oil to flow from port 1 to port 2.

Pressure Relief Valve Spool Type, Pilot-Operated With Pilot Drain Metric Cartridge – 350 bar DB12121PE-01

FEATURES

- External surfaces zinc-plated and corrosion-proof
- Hardened and ground control spool to ensure minimal wear and extended service life
- Various pressure ranges up to 350 bar
- Quick response
- Increased operating reliability due to protective strainer
- Low hysteresis and excellent stability throughout the flow range
- Compact design enables space-saving installation in connection housings and control blocks
- Additional tank connection to drain the pilot stage

SPECIFICATIONS

Operating pressure:	max. 350 bar	
Nominal flow:	max. 200 l/min	
Operating pressure ranges:	5 to 35 bar 5 to 60 bar 5 to 125 bar 5 to 230 bar 5 to 350 bar	
Internal leakage:	max. 320 cm ³ /min at 350 bar	
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 and 2	
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 years (see "Conditions and instructions for valves" in brochure 5.300)	
Installation:	No orientation restrictions	
Materials:	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:	12121	
Weight:	0.26 kg	

