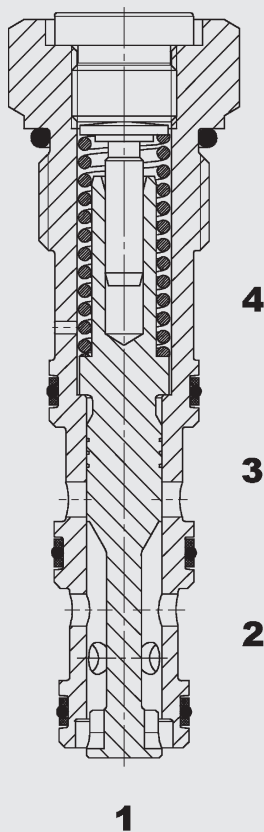


up to 100 l/min
up to 350 bar

FUNCTION



The pressure compensator DW12P is a direct-acting, spring-loaded, smooth-operating spool valve. Its task is to supply port 1 as the first priority regardless of the load pressure (port 4). It is normally open at service port 1 and is supplied by pump port 2. If the pressure differential increases to overcome the spring force, the spool will shift to a throttle function at port 1 and will then begin to supply port 3 as the secondary priority. It is irrelevant to the function of the priority pressure compensator whether the pressure is higher at the first priority port 1 or at the secondary priority port 3. The priority pressure compensator can be used in steering control units, for example, to safeguard the steering when a vehicle is moving.

Priority Valve (Pressure Compensator) Spool Type, Direct Acting Cartridge Valve UNF – 350 bar DW12P

FEATURES

- Hydrodynamic damping
- Excellent stability throughout pressure and flow range
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground valve components to ensure minimal wear and extended service life
- Used as a load sensing valve to control the flow rate of consumers independently of the pressure

SPECIFICATIONS

Operating pressure:	max. 350 bar
Nominal flow:	max. 100 l/min
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 T1 + T2
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: High tensile steel Closing element: Hardened and ground steel Seals: NBR (standard) FKM (optional, temperature range -20 °C to +120 °C) Back-up rings: PTFE
Cavity:	FC12-4
Weight:	0.4 kg

