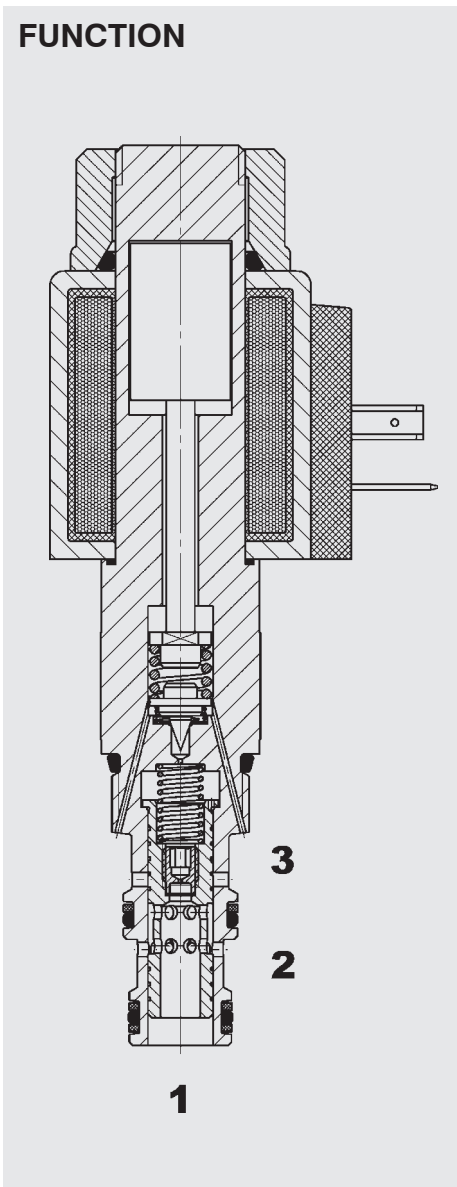


FUNCTION



The PDR08P is a two stage spool type proportional pressure reducing valve. If the pressure at port 1 rises above the setting defined by the electrical control signal, the pressure at 2 is metered off to maintain the regulated setting. 3 is vented to tank. As a function of the electrical signal the regulated pressure at port 1 can be changed steplessly. Any pressure at port 3 is additive to the pressure setting.

Proportional Pressure Reducing Valve SAE 8-Cartridge – 350 bar

PDR08P-01

Spool Type – Pilot Operated

FEATURES

- All surfaces zinc-plated and corrosion proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and to extend service life
- Rigid design using one-piece body minimizes the effect of eccentricity and maximizes reliability
- Waterproof design standard
- Wide variety of connectors available
- Excellent stability throughout flow range
- Excellent dynamic performance
- Low pressure drop by CFD optimized flow-path
- Screen protected measuring orifice enhances safety

SPECIFICATIONS

Operating pressure:	max. 350 bar
Nominal flow:	max. 60 l/min
Operating pressure ranges:	up to 60 bar, up to 230 bar, up to 350 bar
Control current range:	1050 mA, 8.8 Ω / 2100 mA, 2.2 Ω
Internal leakage:	less than 0.5 l/min at 350 bar
Media operating temp. range:	-20 °C to +120 °C
Ambient temp. range:	-20 °C to +60 °C
Dither frequency:	160 Hz - 250 Hz
Response time:	On: approx. 60 ms, Off: approx. 40 ms
Hysteresis with dither:	2 - 4 % of maximum control current
Repeatability:	1.5 % of maximum pressure range
Reversal error:	≤ 2 % of maximum control current
Response sensitivity:	≤ 1 % of maximum control current
Fluids:	Mineral-based or synthetics with lubricating properties
Viscosity:	7.4 to 420 cSt
Filtration:	Class 18/16/13 up to 19/17/14 according to ISO 4406 or cleaner
Installation:	no orientation restrictions
Material:	Valve body: carbon steel Spool: carbon steel Seals: NBR (standard) FKM (optional) Coil: Steel / Polyamide

Notes:

The PDR08P can also be supplied with an emergency pressure adjustment (version -01M). This allows a mechanical pressure adjustment of the valve if the electrical signal is interrupted. This adjustment should be used only in the case of electrical failure since the manual setting would be additive to the electrical setting and the danger of equipment damage could develop.

In order to achieve optimal function, any trapped air should be vented with the bleed screw on the face of the tube (not fitted to version -01M).

Cavity:	FC08-3
Weights:	Valve complete: 450 g Coil only: 230 g

