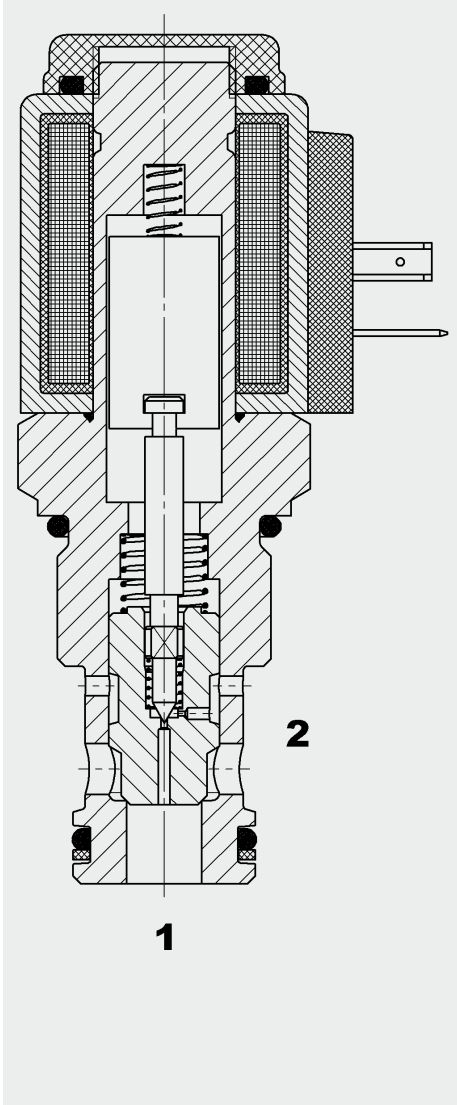


FUNCTION



In the de-energized mode, the valve is closed from port 2 to port 1.
 In the reverse direction there is free flow through the valve. The valve opens at a differential pressure of approx. 1.5 bar (check function).
 When energized, there is free flow through the valve from port 2 to port 1. Flow in the reverse direction is severely restricted.

2/2 Solenoid Directional Valve Poppet Type - Pilot Operated Normally Closed Metric Cartridge Valve - 350 bar WSM12120Z

GENERAL

- All surfaces zinc-plated and corrosion-proof.
- Minimal wear and long service life due to hardened and ground valve components.
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Rigid design using one-piece body minimises the effect of eccentricities in cavity and maximises reliability.
- Excellent switching performance by high power Hydac solenoid.
- Low pressure drop due to CFD optimised flow-path.

SPECIFICATIONS

Operating pressure:	max. 350 bar
Nominal flow:	max. 110 l/min
Internal leakage:	leakage-free
Media operating temp. range:	min. -20 °C to max. +120 °C
Ambient temperature range:	min. -20 °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:	max. permissible contamination level of the operating fluid to ISO 4406 Class 21/19/16 or cleaner
Installation:	optional
Materials:	valve body: high tensile steel piston: hardened and ground steel seals: NBR (standard) FKM (optional) back-up rings: PTFE
Cavity:	12120
Weight:	Valve complete: 0.46 kg Coil only: 0.19 kg
Response time:	on: approx. 35 ms off: approx. 70 ms
Type of voltage:	DC solenoid, AC voltage is rectified using a bridge rectifier built into the coil
Current draw at 20 °C:	1.5 A at 12 V DC 0.8 A at 24 V DC
Voltage tolerance:	±15% of nominal voltage
Switch-on time:	100% (continuous) up to max. 115% of the nominal voltage at 60°C ambient temperature

