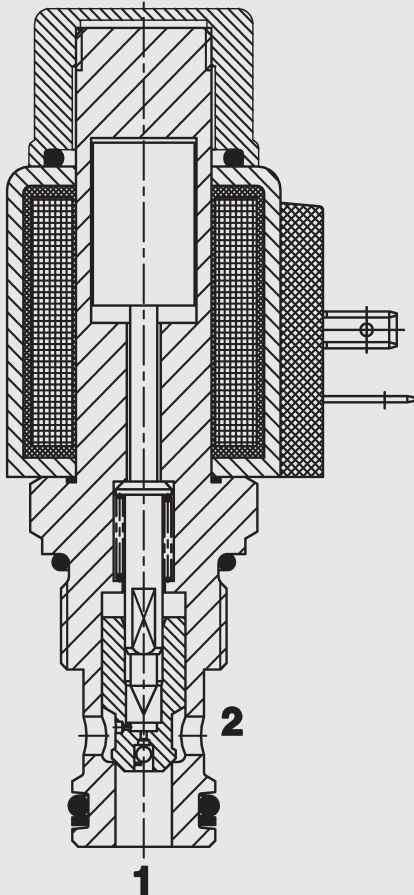


up to 75 l/min  
up to 350 bar

## 2/2 Solenoid Directional Valve Poppet Type - Pilot Operated Normally Open (Reverse Flow) Cartridge Valve - 350 bar

WSM10120YR-01

### FUNCTION



In the de-energized mode, the valve allows flow in both directions.

When energized, the valve blocks flow from 2 to 1. In this mode the valve will allow flow from 1 to 2 after the hydraulic force overcomes the solenoid force of 2.5 to 10 bar.

### 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 extended service life
- Waterproof design standard
- Wide variety of connectors available
- Rigid design using one-piece body minimizes the effect of eccentricity and maximizes reliability
- Excellent switching performance by high power HYDAC solenoid
- Low pressure drop by CFD optimized flow-path

### SPECIFICATIONS

Operating pressure:	Max. 350 bar	
Nominal flow:	Max. 75 l/min	
Internal leakage:	Leakage-free	
Media operating temp. range:	-20 °C to +120 °C	
Ambient temperature range:	-20 °C to +60 °C	
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	
Coil duty rating:	Continuous up to 115% of nominal voltage at 60 °C ambient temperature	
Response time:	Energized: approx. 60 ms De-energized: approx. 20 ms (typical 24 V DC-coil)	
Fluids:	Hydraulic oil to DIN 51524 Part 1 and 2	
Viscosity:	10 mm <sup>2</sup> /s to 420 mm <sup>2</sup> /s is recommended	
Filtration:	Permissible contamination level of the operating fluid to ISO 4406 class 21/19/16 or cleaner	
Installation:	Optional	
Materials:	Valve body:	high tensile steel
	Closing elements:	hardened and ground steel
	Seals:	NBR (standard) FKM (optional) back-up ring in PTFE
	Coil:	Steel/Polyamide
Cavity:	10120	
Weights:	Valve complete:	0.370 kg
	Coil only:	0.190 kg

