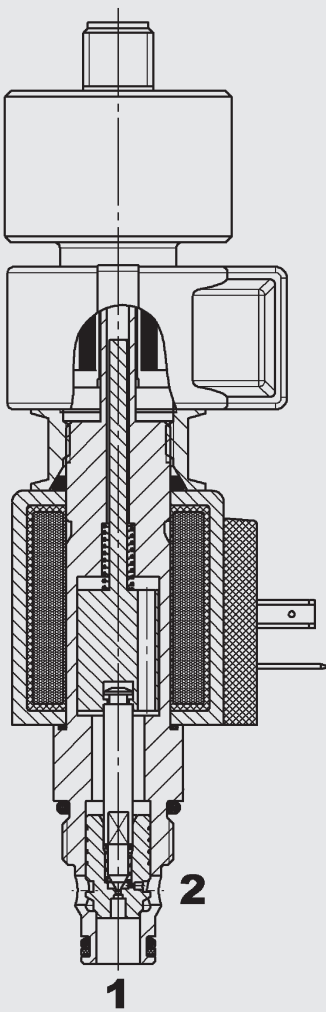


Up to 40 l/min
Up to 350 bar

FUNCTION



The directional valve is a pilot-operated poppet valve with electronic switch position monitoring. When de-energized the valve is closed from port 2 to port 1. Flow is possible in the opposite direction. The valve piston opens at a differential pressure of approx. 1.8 bar (check valve function). When energized, there is free flow through the valve from port 2 to port 1 at a differential pressure of approx. 1.3 bar. Flow in the reverse direction from 1 to 2 is prohibited.

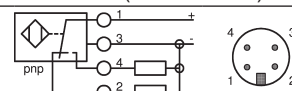
2/2 Solenoid Directional Valve Poppet Type, Pilot-Operated Normally Closed With Electronic Switch Position Monitoring UNF Cartridge – 350 bar WS08Z-01E

FEATURES

- With integrated electronic switch position monitoring
- Excellent switching performance by high power HYDAC solenoid
- Wide variety of coil connectors available
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1.000 h Salt spray test)

SPECIFICATIONS*

Operating pressure:	max. 350 bar
Nominal flow:	max. 40 l/min
Leakage:	leakage-free, max. 5 drops/min (0.25 cm ³ /min) at p ₂ = 350 bar and p ₁ = 0 bar, v = 34 mm ² /s
Media operating temperature range:	min. -20 °C to max. +100 °C
Ambient temperature range:	min. -20 °C to max. + 60 °C
Operating Fluid:	Hydraulic oil to DIN 51524 Part 1, 2 and 3
Viscosity range:	min. 10 mm ² /s to max. 420 mm ² /s
Filtration of operating liquid: (nach ISO 4406)	p < 210 bar: min. 20/18/15 for extended lifetime recommended 17/15/12 p > 210 bar: min. 18/16/13 for extended lifetime recommended 16/14/11
MTTF _d :	150 - 1200 years, according to DIN EN ISO 13849-1
Installation:	No orientation restrictions
Materials:	Valve body: steel Piston: hardened and ground steel Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)
	Back-up rings: PTFE
Cavity:	FC08-2
Weight:	0.5 kg
Electrical data	
Type of voltage:	DC: direct current solenoid AC: alternating current solenoid with a bridge rectifier built into the coil
Current draw at 20 °C:	1,5 A for 12 V DC 0,8 A for 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: (at p _{max} , Q _{max} , v = 34 mm ² /s)	energized: approx. 30 ms; de-energized: approx. 70 ms substantially extended response time possible at other operating conditions
Type of coil:	Coil...-40-1836
Sensor data	
Supply voltage:	24 V: 20 bis 32 V DC 12 V: 10.5 bis 16 V DC
Reverse polarity protection of supply:	yes
Outputs:	2 with change-over function PNP positive switching
Output load:	≤ 400 mA, 100% continuous
Short-circuit protection:	Provided
Connector:	Male connector M12 x 1 (4 pole)
Protection class:	IP65 to DIN 40050
CE-conformity:	93/68/EEC2004/108/EC
EMC:	DIN EN6100-6-1-2-3-4
Humidity requirements:	0-95 % rel. (to DIN 40040)
Sensor connections:	



*see "Conditions and instructions for valves" in brochure 53.000

