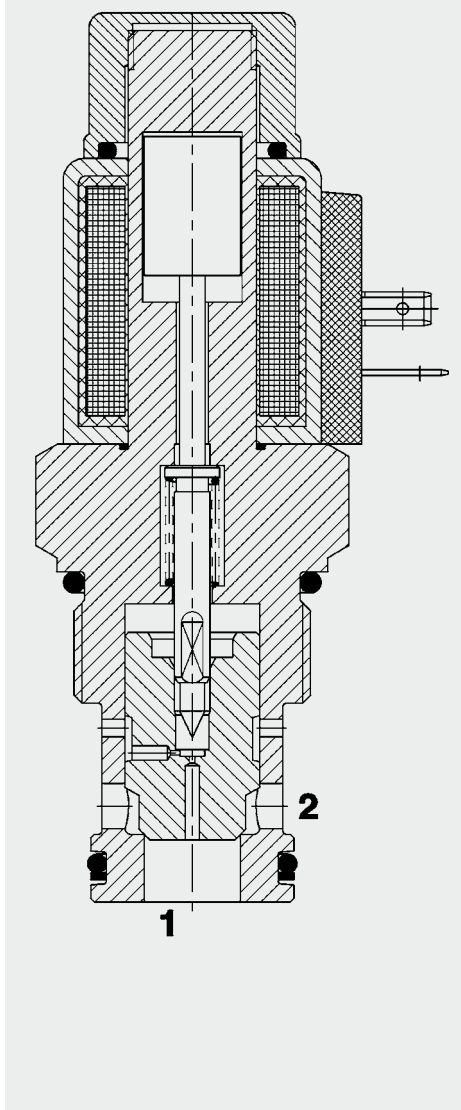


## FUNCTION



When de-energized, there is free flow through the valve from port 2 to 1. Flow is not possible in the reverse direction.

When the solenoid coil is energized, the valve is closed from port 2 to port 1. In the reverse direction the valve will allow flow from port 1 to 2 when the hydraulic force on the piston overcomes the solenoid force (approx. 9 to 20 bar).

## 2/2 Solenoid Directional Valve Poppet Type, Pilot-Operated Normally Open SAE-16 Cartridge – 350 bar WS16Y-01

### FEATURES

- Excellent switching performance by high power HYDAC solenoid
- Wide variety of connectors available
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- External surfaces zinc-plated and corrosion-proof
- Coil seals protect the solenoid system

### SPECIFICATIONS

Operating pressure:	max. 350 bar	
Flow rate	max. 150 l/min up to 280 bar max. 100 l/min, from 280 to 350 bar	
Leakage:	Leakage-free (max. 5 drops $\approx$ 0,25 cm <sup>3</sup> /min at 350 bar)	
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 and 2	
Viscosity range:	min. 7.4 mm <sup>2</sup> /s to 420 mm <sup>2</sup> /s	
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner	
MTTF <sub>d</sub> :	150 years (see "Conditions and instructions for valves" in brochure 5.300)	
Installation:	No orientation restrictions	
Materials:	Valve body:	free-cutting steel
	Poppet:	hardened and ground steel
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)
	Back-up rings:	PTFE
	Coil:	steel / polyamide
Cavity:	FC16-2	
Weight:	Valve complete	0.65 kg
	Coil only	0.19 kg

### Electrical data:

Current draw at 20 °C:	1.5 A at 12 V DC 0.8 A at 24 V DC	
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature	
Response time:	Energized:	approx. 150 ms
	De-energized:	approx. 35 ms
Coil type:	Coil...-40-1836	

