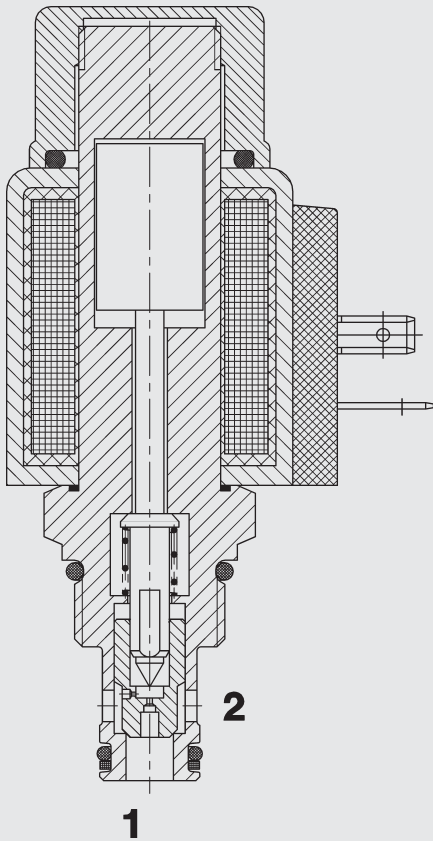


## FUNCTION



In the de-energized mode, the valve allows flow from port 2 to 1. Flow from 1 to 2 is severely restricted in this mode.

When energized, the valve blocks flow from port 2 to 1. In this mode the valve will allow flow from 1 to 2 once the hydraulic force exceeds the solenoid force of 9 to 20 bar.

## Solenoid Directional Valve SAE 8-Cartridge - 350 bar

**UNF**

2/2-Normally Open  
WS08Y-01

Poppet 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 extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Rigid design using one-piece body minimizes the effect of eccentricities in cavity and maximizes reliability
- Excellent switching performance by high power HYDAC solenoid
- Low pressure drop due to CFD optimized flow-path

## SPECIFICATIONS

|                              |  |
|------------------------------|--|
| Operating pressure:          | 350 bar  |
| Proof pressure:              | 520 bar  |
| Nominal flow:                | 38 l/min   |
| Internal leakage:            | leakage-free (less than 5 drops/min)<br>max. at 350 bar  |
| Media operating temp. range: | - 20 °C to + 120 °C  |
| Ambient temp. range:         | - 20 °C to + 60 °C   |
| Fluids:                      | Hydraulic oil to DIN 51524 Part 1 and 2  |
| Viscosity:                   | 7.4 to 420 mm <sup>2</sup> /s  |
| Filtration:                  | Class 21/19/16 according<br>to ISO 4406 or cleaner   |
| Installation:                | No orientation restrictions  |
| Material:                    | Valve body: high tensile steel<br>Piston: hardened and<br>ground steel<br>Seals: NBR (Standard)<br>FKM (Option)<br>Coil: Steel/Polyamide |
| Cavity:                      | FC08-2   |
| Weights:                     | Valve complete: 0.33 kg<br>Coil only: 0.19 kg  |
| Response time:               | Energized: 50 ms<br>De-energized: 35 ms<br>typical 24 V DC-coil  |
| Type of voltage              | DC solenoid, AC voltage is recified by a<br>bridge rectifier built into the coil   |
| Current draw at 20 °C:       | 1.5 A at 12 V DC<br>0.8 A at 24 V DC   |
| Voltage tolerance:           | ± 15 % of nominal voltage  |
| Switch-on time:              | Continuous up to 115 %<br>of nominal voltage at 60 °C<br>ambient temperature   |

