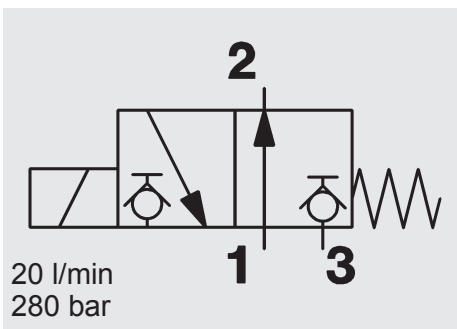
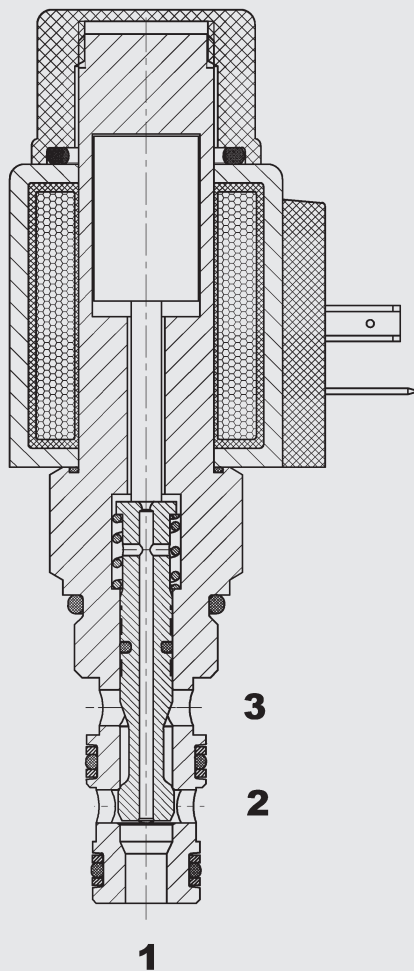




FUNCTION



3/2 Solenoid Directional Valve **UNF** Poppet Type, Direct-Acting SAE-08 Cartridge – 280 bar WS08D-51

FEATURES

- Excellent switching performance due to high power HYDAC solenoid
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- External surfaces zinc-plated and corrosion-proof
- Wide variety of connectors available
- Low pressure drop by CFD optimized flow path
- Smaller dimensions by shorter coil in comparison to WS08D-01 (Limited switching performance)

SPECIFICATIONS

Operating pressure:	max. 280 bar	
Nominal flow:	max. 20 l/min	
Leakage:	Leak-free (max. 5 drops $\approx$ 0,25 cm ³ /min at 280 bar)	
Media operating temperature range:	min. -20 °C to max. +100 °C	
Ambient temp. 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:	Class 21/19/16 according to ISO 4406 or cleaner	
MTTF _d :	150 years (see "Conditions and instructions for valves" in brochure 5.300)	
Installation:	No orientation restrictions	
Materials:	Valve body:	Free-cutting steel
	Piston:	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:	FC08-3	
Weight:	Valve complete	0.395 kg
	Coil only	0.19 kg
Electrical data:		
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature	
Current draw at 20 °C:	1.5 A at 12 V DC	
	0.8 A at 24 V DC	
Voltage tolerance:	$\pm$ 15% of the nominal voltage	
Switching time:	Energized:	approx. 35 ms
	De-energized:	approx. 45 ms
Coil type:	Coil...-40-1836	

When de-energized, there is free flow through the valve from port 1 to port 2. Port 3 is closed.

When energized, the valve allows flow from port 2 to port 3, while blocking flow at port 1.

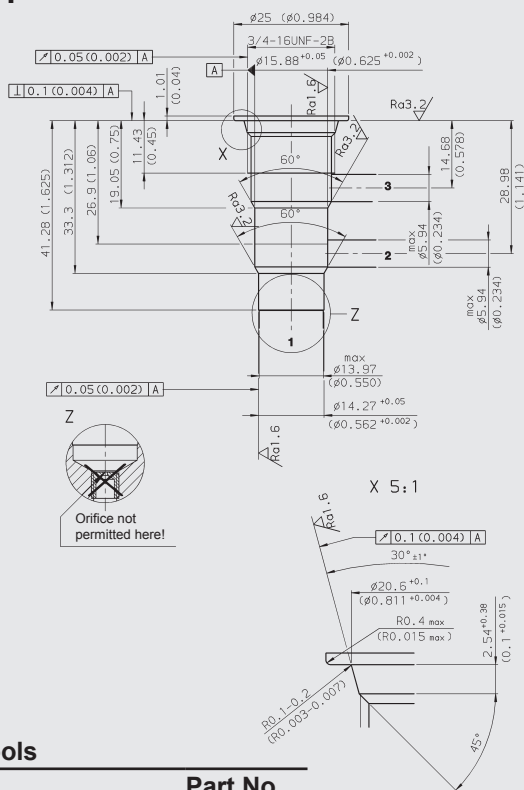
Technical drawing of the 3000 Series 1/2" (12.7 mm) probe, showing dimensions and assembly instructions.

Dimensions:

- Overall length: 77.8 max. (3.06 MAX.)
- Section 1 length: 41 (1.61)
- Section 2 length: 17 (0.67)
- Section 3 length: 2 (0.08)
- Probe diameter: $\varnothing 14.27$ ($\varnothing 0.56$)
- Probe diameter: $\varnothing 15.88$ ($\varnothing 0.625$)
- Probe thread: 3/4-16 UNF-2A

Assembly Instructions:

- After loosening knurled nut, coil can be rotated through 360° and removed.
- torque 4⁺¹ Nm
- hex. 7/8"
- torque 25⁺⁵ Nm



Tool	Part No.
Countersink FC08-3	175644
Reamer FC08-3	175645

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