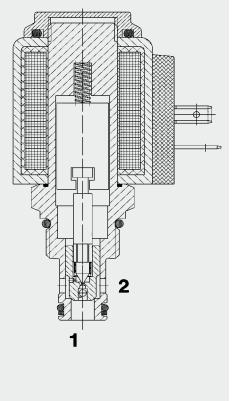


38 l/min 350 bar

FUNCTION



2/2 Solenoid Directional Valve UNE Poppet Type, Pilot-Operated Normally Closed (Reverse Flow) SAE-08 Ćartridge – 350 bar

WS08ZR-01

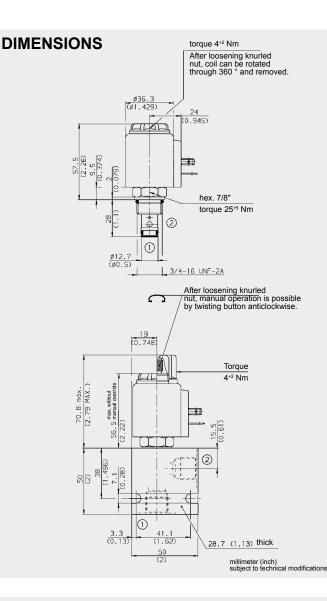
FEATURES

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

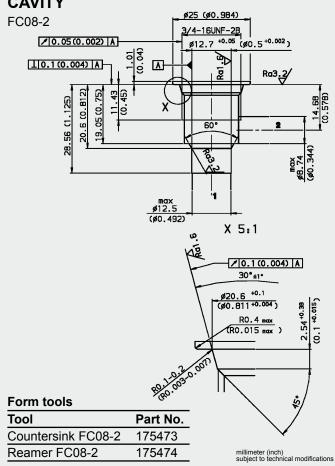
CHARACTERISTICS

CHARACTERISTICS				
Operating pressure:	max. 350 bar			
Nominal flow:	max. 38 l/min	max. 38 l/min		
Leakage:	Leakage-free	Leakage-free		
	(max. 5̄ drops ≘ 0,25 cm³/min at 350 bar)			
Media operating temperature range:	min20 °C to m	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °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 re	No orientation restrictions		
Material	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:	FC08-2			
Weight:	Valve complete	0.33 kg		
	Coil only	0.19 kg		
Electrical data:				
Response time:	Energized:	approx. 35 ms		
	De-energized:	approx. 50 ms		
Type of voltage:	DC solenoid, AC voltage is rectified using a bridge rectifier built into the coil			
Current draw at 20 °C:	1.5 Å at 12 V DC 0.8 Å at 24 V DC			
Voltage tolerance:	± 15% of the nominal voltage			
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature			
Coil type:	Coil40-1836			

When the solend the valve is close Flow is permitte When energized both directions. When the solenoid coil is not energized, the valve is closed from port 2 to port 1. Flow is permitted from port 1 to port 2. When energized the valve allows flow in



CAVITY



MODEL CODE WS08ZR-01 M-C-N-24 DG Basic model -

Directional poppet valve, UNF

Manual override

no details = without manual override = manual override Μ

Body and ports

С = cartridge only

Seals

= NBR (standard) Ν V = FKM

Coil voltage

DC voltages 12 = 12 V DC 24 = 24 V DC AC voltages (bridge rectifier built into the coil) 115 = 115 V AC 230 = 230 V AC Other voltages on request

Coil connectors (type 40-1836)

- DC: DG = DIN connector to EN 175301-803
 - DK = KOSTAL threaded connection M27x1
 - DL = 2 flying leads, 457 mm long, 0.75 mm²
 - DN = Deutsch connector, 2-pole, axial
 - DT = AMP Junior Timer, 2-pole, radial

AC: AG = DIN connector to EN 175301-803

Other connectors on request

Standard models

Model code	Part No.
WS08ZR-01-C-N-12DG	558859
WS08ZR-01-C-N-24DG	562806
WS08ZR-01-C-N-230AG	3043419
Other models on request	

Standard in-line bodies

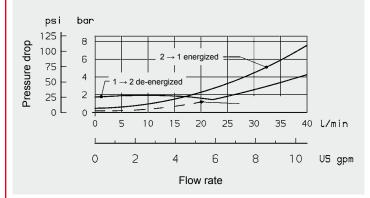
Code	Part No.	Material	Ports	Pressure
FH082-SB3	560919	Steel, zinc-plated	G3/8	420 bar
FH082-AB3	3011423	Aluminium, clear anodized	G3/8	210 bar
Other line boo	dies on reque	est		

Seal kits

Code	Material	Part No.	
FS082-N SEAL KIT	NBR	3033920	
FS082-V SEAL KIT	FKM	3051756	

PERFORMANCE

Measured at v = 34 mm²/s, T_{oil} = 46 °C



Note The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

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