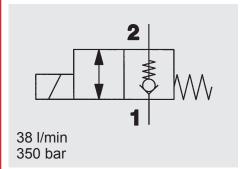


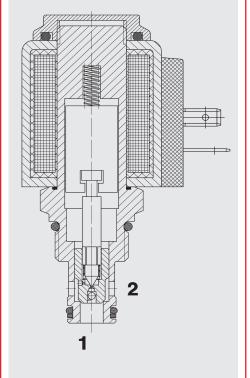
## MAC INTERNATIONAL



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

WS08ZR-01

#### **FUNCTION**



#### **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

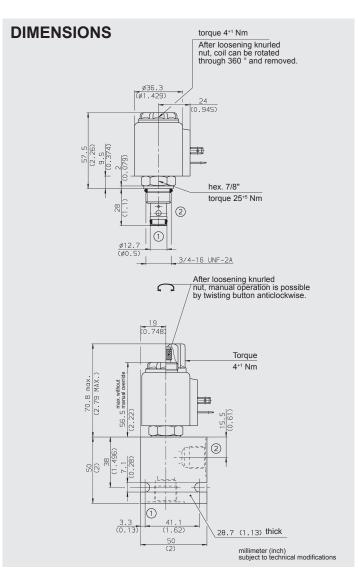
### **CHARACTERISTICS**

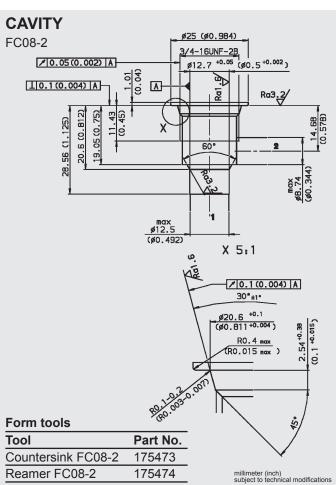
Operating pressure:

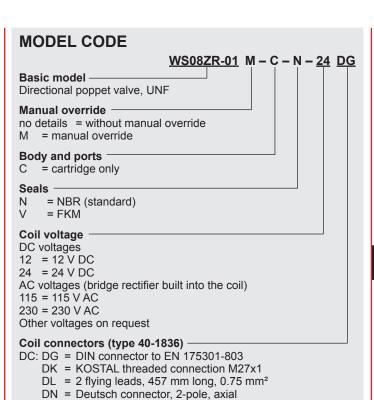
Operating pressure:	max. 350 bar		
Nominal flow:	max. 38 l/min		
Leakage:	Leakage-free (max. 5 drops = 0,25 cm³/min at 350 bar)		
Media operating temperature range:	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °C to max. + 60 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 7.4 mm²/s to max. 420 mm²/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 r	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 A at 12 V DC 0.8 A 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		

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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 both directions.







#### Standard models

Other connectors on request

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	

DT = AMP Junior Timer, 2-pole, radial AC: AG = DIN connector to EN 175301-803

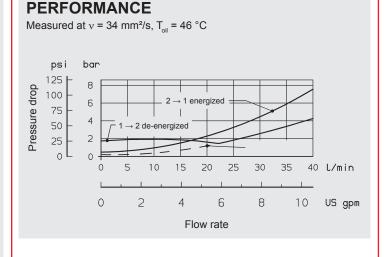
#### Standard in-line bodies

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 bodies on request

#### Seal kits

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



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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