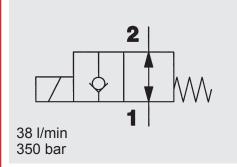
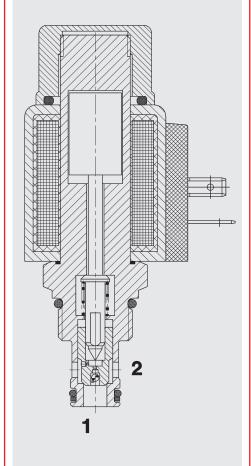
# PAD INTERNATIONAL



# 2/2 Solenoid Directional Valve UNE Poppet Type, Pilot-Operated Normally Open (Reverse Flow) SAE-08 Cartridge - 350 bar WS08YR-01

# **FUNCTION**



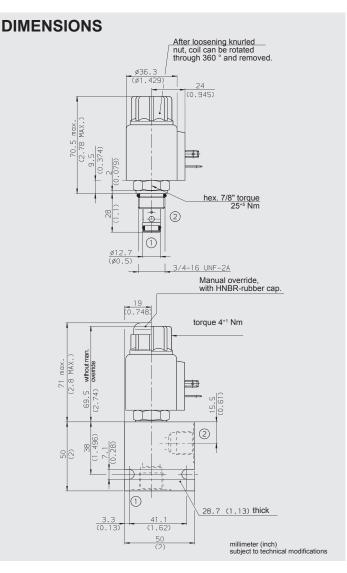
When the solenoid coil is not energized, the valve is open in both directions. When the solenoid coil is energized, the valve is closed from port 2 to port 1. In the reverse direction from port 1 to 2 there is free flow through the valve when the pressure force on the piston exceeds the solenoid force (approx. 9 to 20 bar).

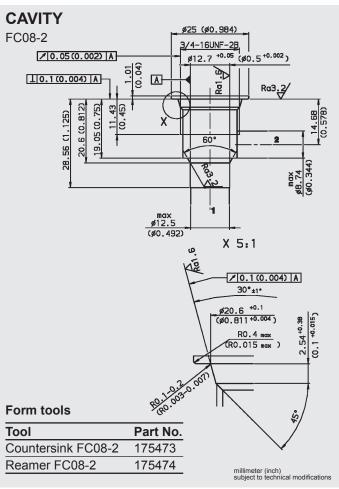
### **FEATURES**

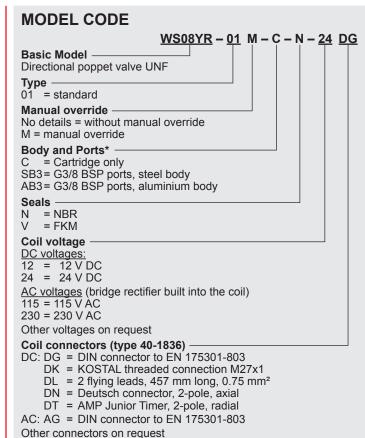
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure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

## **SPECIFICATIONS**

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 temp. range:	min20 °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 max. 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	
	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:			
Switching time:	Energized:	approx. 50 ms	
	De-energized:	approx. 35 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		







#### Standard models

Model code	Part No.
WS08YR-01-C-N-24DG	562805
WS08YR-01-C-N-230AG	3043387
Other models on request	<u> </u>

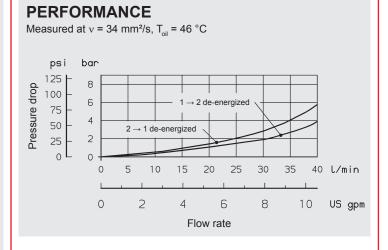
#### \* Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH082-SB3	560919	Steel, zinc-plated	G3/8	350 bar
FH082-AB3	3011423	Aluminium, clear anodized	G3/8	210 bar
Other beusing	a an regulant			

Other housings on request

#### Seal kits

Code	Material	Part No.
FH082-N SEAL KIT	NBR	3033920
FH082-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.

**HYDAC Fluidtechnik GmbH** Justus-von-Liebig-Str. D-66280 Sulzbach/Saar Tel: 0 68 97 /509-01 Fax: 0 68 97 /509-598 E-Mail: flutec@hydac.com