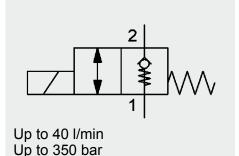
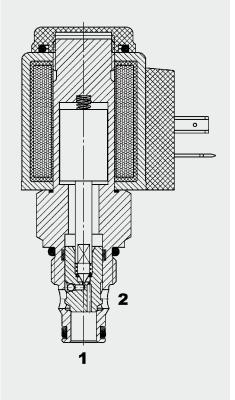


DADINTERNATIONAL



2/2 Solenoid Directional Valve UNE **Poppet Type, Pilot Operated, Normally Closed** SAE-08 Cartridge – 350 bar WS08BR-31

FUNCTION



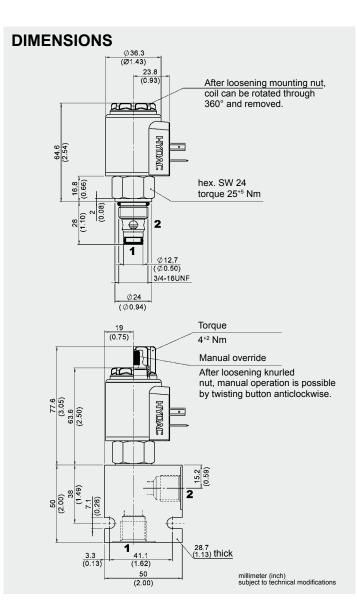
The directional poppet valve WS08BR is a pilot-operated, normally closed, springloaded valve. When the solenoid is deenergized, the valve blocks flow from port 1 to 2 and acts as a check allowing flow from port 2 to 1. When energized the valve allows flow in both directions.

FEATURES

- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Excellent stability throughout the entire flow range
- Excellent dynamic performance
- Coil seals protect the solenoid system
- Wide variety of connections available
- Low pressure drop due to CFD optimized flow path

SPECIFICATIONS

Operating pressure:	max. 350 bar	
Nominal flow:	max. 40 l/min	
Internal leakage:	Leakage-free	
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	
MTTFd:	150 years (see "Conditions and instructions for valves" in brochure 5.300)	
Installation:	No orientation restrictions	
Materials:	Valve body: high tensile steel Piston: hardened and ground steel	
	Seals: NBR (standard) FKM (optional)	
	Back-up rings: PTFE	
Cavity:	FC08-2	
Weight:	Valve complete 0.33 kg Coil only 0.19 kg	
Electrical data:		
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 nominal	
Coil duty rating:	Continuous up to max. 115% of nominal voltage at max. 60° C ambient temperature	
Response time:	On: approx. 20 ms Off: approx. 80 ms	
Coil type:	Coil –40-1836	



Ø25 **CAVITY** 3/4-16UNF-2B FC08-2 ∅ Ø 0.05 A Ø 12.7 +0.05 Α L 0.1 A Ra1 9 Ra3.2 Ra3.2 89 19.05 20.6 60° 4 28.56 2 1 Ø12.5 max. X 5:1 |Ra1.6| / 0.1 A 30° ±1° Ø20.6 R0.4 max. +0.1 R0.1 2.54 Form tools Tool Part No. Countersink MK3 175473 millimeter (inch) subject to technical modifications Reamer 175474

MODEL CODE WS08BR - 31 M - C - N - 24 DG Basic model Directional poppet valve, metric Type = standard 31 (spanner width 24 metric) Manual override = without manual override No details Μ = manual override **Body and ports** = cartridge only Combinations with body on request Seals Ν = NBR (standard) = FKM (optional) Coil voltage DC: 12 = 12 Volt DC 24 = 24 Volt DC AC: 115 = 115 Volt AC (bridge rectifier built into coil) 230 = 230 Volt AC (bridge rectifier built into coil) Other voltages on request Coil connections 40-1836 DG = DIN connection to EN175301-803 DT = AMP Junior Timer, 2 pole, radial

Standard models

Model code	Part No.
WS08BR-31-C-N-24DG	3554847
WS08BR-31-C-N-230AG	3554848

DK = Kostal threaded connection M27 x 1

DL = leadwires (2), 475mm long DN = Deutsch connection, axial AG = DIN connection to EN175301-803

Other models on request

Other connections on request

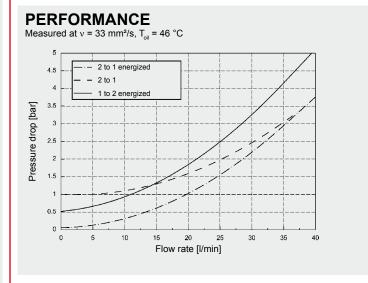
Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH082-SB3	560919	Steel, zinc-plated	3/8 BSP	420 bar
FH082-AB3	3011423	Aluminium, clear anodized	3/8 BSP	210 bar

Other bodies on request

Seal kits

Model 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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