



38 l/min 350 bar

FUNCTION



When the solenoid coil is not energized, the valve is clos Flow is permitte When energized both directions. 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

2/2 Solenoid Directional Valve Poppet Type, Pilot-Operated Spring-Return Manual Override Normally Closed (Reverse Flow) SAE-08 Cartridge – 350 bar UNF

WS08ZR-01J

FEATURES

- Excellent switching performance by high power HYDAC solenoid
- Wide variety of connectors available
- 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

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 temperature range:	min20 °C to max. +60 °C		
Manual override:	The pull-force required is dependent on		
	the operating pressure max. approx. 150 N		
	I he max. permitted pull-force is 180 N		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. /.4 mm ² /s to max. 420 mm ² /s		
	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		
	Poppet: hardened and		
	ground steel		
	Seals: NBR (standard)		
	FKM (optional, media		
	$20 \degree C$ to $\pm 120 \degree C$		
	-20 C to + 120 C) Back-up rings: DTEE		
Cavity:	FC08-2		
Weight:	Valve complete 0.36 kg		
Weight.	$\begin{array}{ccc} \text{Coil only} & 0.19 \text{ kg} \end{array}$		
Electrical data:			
Type of voltage:	DC solenoid AC voltage is rectified		
Type of Venage.	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		
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature		
Voltage tolerance:	± 15% of the nominal voltage		
Response time:	Energized: approx. 35 ms		
	De-energized: approx. 50 ms		
Coil type:	Coil40-1836		

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CAVITY





AC: AG = DIN connector to EN 175301-803

Other connectors on request

Standard models

Model code	Part No.
WS08ZR-01J-C-N-24DG	3122604
WS08ZR-01J-C-N-230AG	3122605

*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH082-SB3	560919	Steel, zinc-plated	G3/8	420 bar
FH082-AB3	3011423	Aluminium, anodized	G3/8	210 bar
Other bodies or	n request			

Seal kits

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

PERFORMANCE

Measured at $v = 34 \text{ mm}^2/\text{s}$, $T_{oil} = 46 \text{ }^\circ\text{C}$



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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