YDAG INTERNATIONAL

Up to 40 I/min Up to 350 bar

FUNCTION

The directional valve WS08Z-01E is a pilot-operated poppet valve with electronic switch position monitoring. When de-energized the valve is closed from port 2 to port 1.

Flow is possible in the opposite direction. The valve piston opens at a differential pressure of approx. 1.8 bar (check function).

When energized, there is free flow through the valve from port 2 to port 1. Flow in the reverse direction is prevented.

2/2 Solenoid Directional Valve **Poppet Type, Pilot-Operated** Normally Closed With Electronic Switch Position **Monitoring** SAE-08 Cartridge - 350 bar

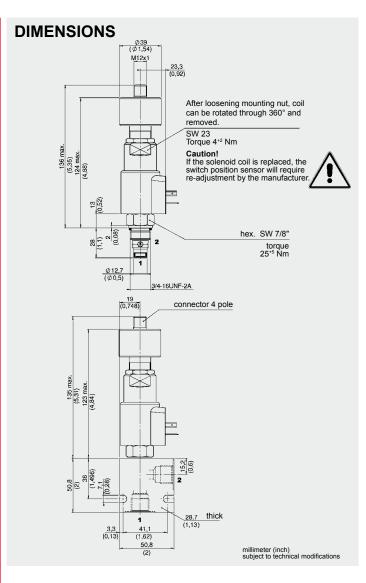
WS08Z-01E

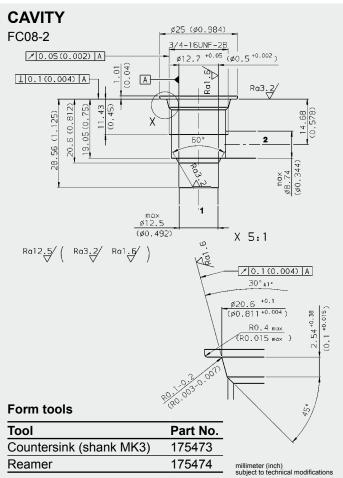
FEATURES

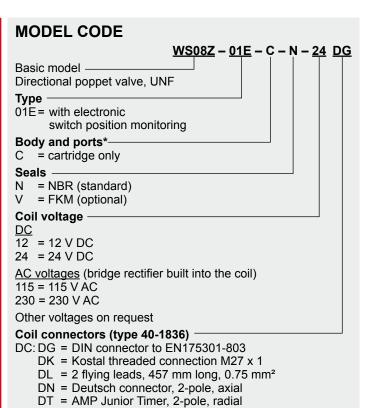
- With integrated electronic switch position monitoring
 External surfaces zinc-plated and corrosion-proof
 Hardened and ground internal valve components ensure minimal wear and extended service life
- Wide variety of connections available
- Excellent switching performance by high power HYDAC solenoid Low pressure drop due to CFD optimized flow path

SPECIFICATIONS

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Operating pressure:	max. 350 bar		
Nominal flow:	max. 40 l/min		
Leckage:	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		
Fluids:	Hydraulic oil to DIN 51524 Part 1 + 2		
Viscosity:	min. 10 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:	Optional		
Material:	Valve body: hardened steel		
	Piston: hardened and ground steel		
	Seals: NBR (standard) FPM (optional, media temperature range -20 °C to +120 °C)		
	Back-up rings:PTFE		
Cavity:	FC08-2		
Weights:	0.5 kg		
Electric 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 for 12 V DC 0,8 A for 24 V DC		
Pull-in voltage:	± 15% of nominal		
Coil duty rating:	Continuous up to 115% of nominal voltage at 60 °C ambient temperature		
Response time:	Energized: approx. 30 ms De-energized: approx. 70 ms		
Coil type	Coil40-1836		
Sensor specifications			
Supply voltage	20 up to 32 V DC with reverse polarity protection of supply		
Outputs:	2 with change-over function PNP positive switching		
Output load:	≤ 400 mA, 100% continuous		
Short-circuit protection:	Provided		
Connector:	Male connector M12 x 1, round		
Type of protection:	IP65 to DIN 40050		
CE conformity:	93/68/EEC2004/108/EC		
EMV:	DIN EN6100-6-1-2-3-4		
Humidity range:	0-95 % rel. (to DIN 40040)		
Diagram:	pnp		







Standard models

Code	Part No.
WS08Z-01E-C-N-12DG	3368894
WS08Z-01E-C-N-24DG	3361705
WS08Z-01E-C-N-230AG	3368916
Other models on request	

AC: AG = DIN Connector (EN 175301-803)

* Standard in-line bodies

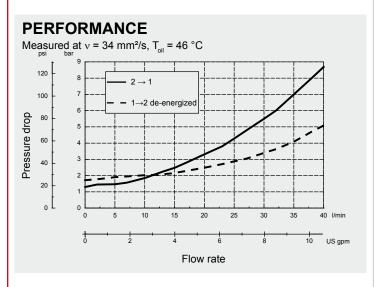
other connectors on request

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 models 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.

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