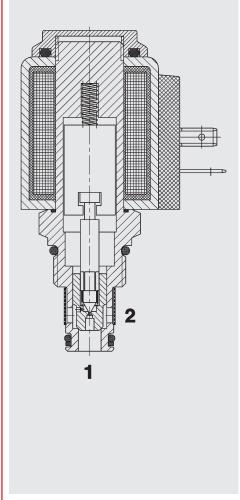


FUNCTION



2/2 Solenoid Directional Valve Poppet Type, Pilot Operated Normally Closed Screen Filter UNF Cartridge – 350 bar WS08Z-30

FEATURES

- Excellent switching performance by high power HYDAC solenoid
- Wide variety of connectors available
- In flow direction 2 to 1 internal valve parts protected against coarse contamination by screen filter
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1.000 h Salt spray test)

SPECIFICATIONS*

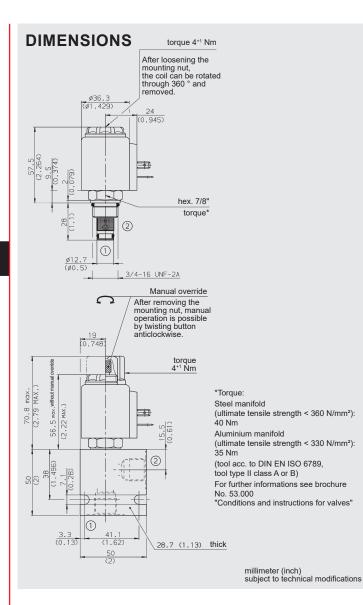
	0501		
Operating pressure:	max. 350 bar		
Nominal flow:	max. 30 l/min		
Leakage:	Leak-free		
	max. 5 drops/min (0.25 cm ³ /min) at 350 bar		
Media operating temperature range:	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °C to n		
Operating fluid:	-	DIN 51524 Part 1, 2 and 3	
Viscosity range:	min. 7.4 mm ² /s to max. 420 mm ² /s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
Screen filter:	300 μm mesh size		
MTTF _d :	150 - 1200 years, according to DIN EN ISO 13849-1		
Installation:	No orientation restrictions		
Materials:	Valve body:	free-cutting steel	
	Poppet:	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			
Coil duty rating:	Continuous up to max. 115 % of the nominal voltage at 60 °C ambient temperature		
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		
Response time:	energized:	approx. 35 ms	
(at p_{max} , Q_{max} , $v = 33 \text{ mm}^2/\text{s}$)	de-energized:	approx. 50 ms	
		tended response times or operating conditions	
Coil type:	Coil40-1836		

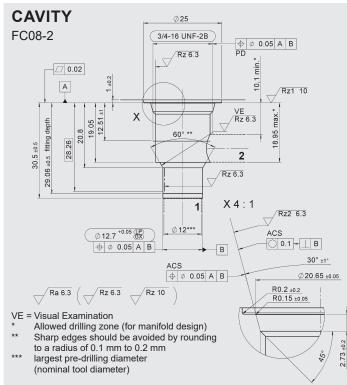
The directional valve is a pilot operated valve in poppet style.

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, there is free flow through the valve from port 2 to 1. Flow from port 1 to 2 is prevented. <u>Please mind</u>: In pilot operated solenoid valves, shift performance and response times depend i.a. very much on pressure drop and volume flow during actuation.

* see "Conditions and instructions for valves" in brochure 53.000

HYDAC 1





Form tools

Tool	Part No.
Countersink	175473
Reamer	175474

MODEL CODE

$\frac{WS08Z - 30}{M} - C - N - 24 DG$
Basic model
Directional poppet valve, UNF
Type 30 = with screen filter (port 2)
Manual override
No details = without manual override M = manual override
Body and ports*
C = cartridge only
Seals
N = NBR (standard) V = FKM
Coil voltage
DC voltages 12 = 12 V DC
$24 = 24 \vee DC$
<u>AC voltages</u> (bridge rectifier built into the coil)
$\frac{1}{115} = 115 \text{ VAC}$
230 = 230 V AC
Other voltages on request
Coil connectors (type 40-1836)
DC: DG = DIN connector type A to EN 175301-803
DK = KOSTAL threaded connection M27x1 DL = 2 flying leads, 457 mm long, 0.75 mm²
DN = Deutsch connector, 2-pole, axial
DT = AMP Junior Timer, 2-pole, radial
AC: AG = DIN connector type A to EN 175301-803
Other connectors on request

Standard models

Model code	Part No.
WS08Z-30-C-N-24DG	3132859
WS08Z-30-C-N-115AG	3136647

*Standard in-line bodies

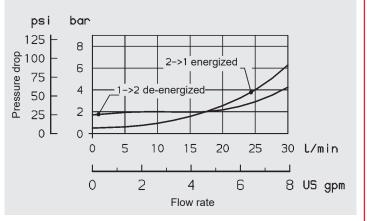
Code	Part No.	Material	Ports	Pressure
FH082-SB3	560919	Steel, zinc-plated	G3/8"	350 bar
FH082-AB3	3011423	Aluminium, anodized	G3/8"	210 bar
Other line boo	lies on request			

Seal kits

Code	Material	Part No.	
FS UNF 08/N	NBR	3651385	
FS UNF 08/V	FKM	3651356	

TYPICAL PERFORMANCE

Measured at $v = 33 \text{ mm}^2/\text{s}$, $T_{oil} = 46 \text{ }^\circ\text{C}$



NOTE

millimeter (inch) subject to technical modifications

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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