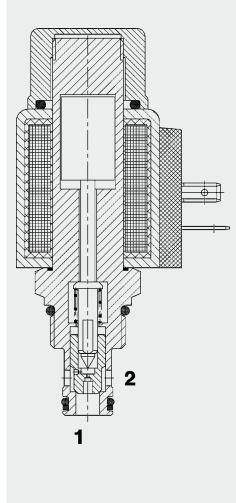


350 bar

FUNCTION



When de-energized, there is free flow through the valve from port 2 to port 1. Flow is not possible in the reverse direction.

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 hydraulic force on the piston overcomes the solenoid force (approx. 9 to 20 bar).

2/2 Solenoid Directional Valve UNE Poppet Type, Pilot-Operated Normally Open SAE-08 Cartridge – 350 bar WS08Y-01

FEATURES

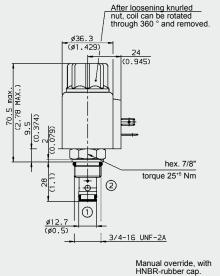
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure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

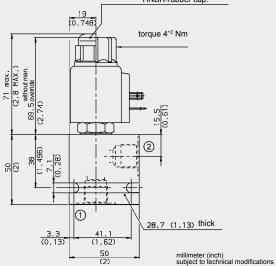
SPECIFICATIONS

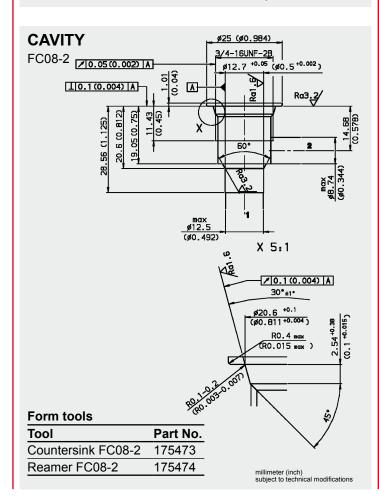
Operating pressure:	max. 350 bar			
Nominal flow:	max. 38 l/min	max. 38 l/min		
Leakage:	Leakage-free	Leakage-free		
		0,25 cm³/min at 350 bar)		
Media operating temperature range:	min20 °C to max. +100 °C			
Ambient temperature range:		min20 °C to max. +60 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2			
Viscosity range:	min. 7.4 mm²/s	min. 7.4 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:	No orientation r	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			
0	Coil only	0.19 kg		
Electrical data:				
Switching time:	energized: de-energized:	approx. 50 ms approx. 35 ms		
Type of voltage:	DC solenoid, A	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 no	± 15% of the nominal voltage		
Coil duty rating:	Continuous up of the nominal	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature		
Coil type:	Coil40-1836	Coil40-1836		

338 HYDAC

DIMENSIONS







MODEL CODE

Basic model -

Directional poppet valve, UNF

Туре 01 = standard

Manual override

No details = without manual override M = manual override

WS08Y - 01 M - C - N - 24 DG

Body and ports*

= cartridge only С SB3 = G3/8 ports, steel body AB3 = G3/8 ports, aluminium body

Seals

Ν = NBR (standard) V

= FKM

Coil voltage DC voltages

12 = 12 V DC, 24 = 24 V DC

<u>AC voltages</u> (bridge rectifier built into the coil) 115 = 115 V AC, 230 = 230 V AC

Other voltages on request

Coil connectors (type 40-1836)

- DC: DG = DIN connector 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 to EN 175301-803

Other connectors on request

Standard models

Model Code	Part No.
WS08Y-01-C-N-24DG	563048
WS08Y-01-C-N-230AG	3043372
Other models on request	

*Standard in-line bodies

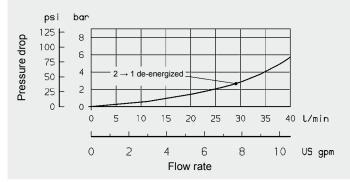
Code	Part No.	Material	Ports	Pressure
FH082-SB3	560919	Steel, zinc-plated	G3/8	420 bar
FH082-AB3	3011423	Aluminium, clear anodized	G3/8	210 bar
Other line bodie	es on request			

Seal kits

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

PERFORMANCE

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



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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