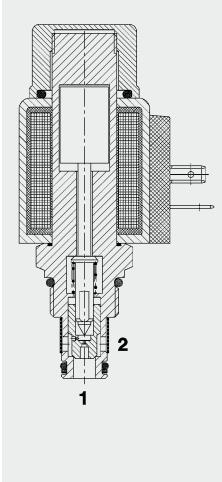


FUNCTION



E 5.992.1/01.13

When de-energized, there is free flow through the valve from port 2 to 1. Flow from port 1 to 2 is is not permitted. When the solenoid coil is energized, the

valve is closed from port 2 to port 1. In the reverse direction the valve will allow flow from port 1 to 2 when the hydraulic force on the poppet overcomes the solenoid force (approx. 9 to 20 bar).

2/2 Solenoid Directional Valve UNE Poppet Type, Pilot-Operated Normally Open Screen Filter SAE-08 Cartridge – 250 bar

WS08Y-30

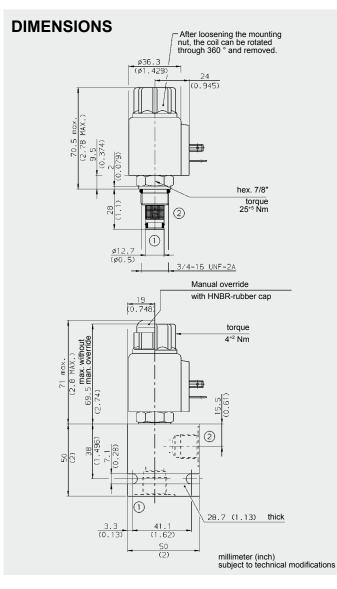
FEATURES

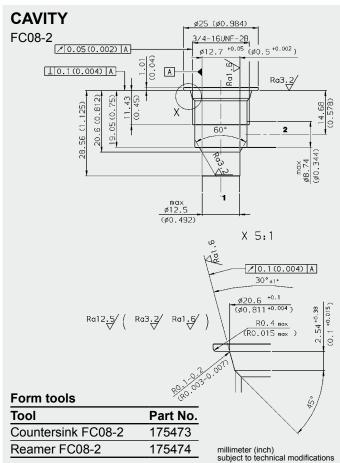
- Excellent switching performance by high power HYDAC solenoid
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- External surfaces zinc-plated and corrosion-proof
- Wide variety of connectors available
- Low pressure drop due to CFD optimized flow path
- In flow direction 2 to 1 internal valve parts protected against coarse contamination by screen filter

SPECIFICATIONS

Operating pressure:	max. 350 bar		
Nominal flow:	max. 30 l/min		
Leakage:	Leak-free		
	(max. 5 drops		
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 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 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 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. 50 ms		
-	De-energized: approx. 35 ms		
Coil type:	Coil40-1836		







MODEL CODE WS08Y - 30 M - C - N - 24 DG Basic model -Directional poppet valve with screen filter Type 30 = standard Manual override No details = without manual override M = manual override Body and ports* = cartridge only С SB3 = G3/8 ports, steel body AB3 = G3/8 ports, aluminium body Seals = NBR (standard) N V = FKM Coil voltage <u>DC voltages</u> 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-30-C-N-24DG	3132862
WS08Y-30-C-N-230AG	3132863

*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 line had		,	00/0	210.00

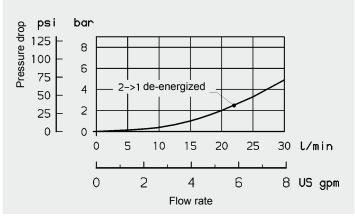
Other line bodies on request

Seal kits

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

PERFORMANCE

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



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.

HYDAC Fluidtechnik GmbH Justus-von-Liebig-Str. D-66280 Sulzbach/Saar Tel: 0 68 97 /509-01 Fax: 0 68 97 /509-598 E-Mail: flutec@hydac.com

HYDAC | 355