

FUNCTION

When the solenoid coil is not energized, the valve is open in both directions. When the solenoid coil is energized, the valve is closed in both directions. **2/2-Solenoid directional valve** poppet type, direct-acting normally open UNF Cartridge – **350 bar** WS08V-01

FEATURES

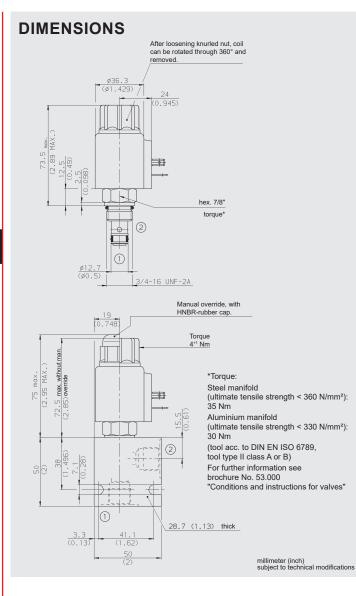
- Excellent switching performance by high power HYDAC solenoid
- Wide variety of connectors available
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1.000 h Salt spray test)

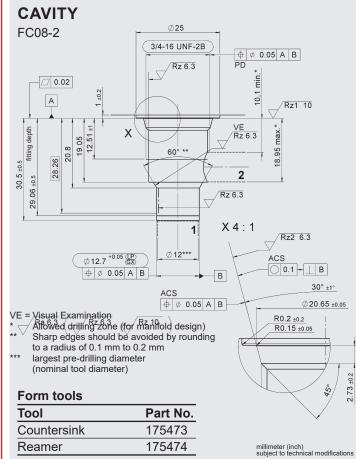
SPECIFICATIONS*

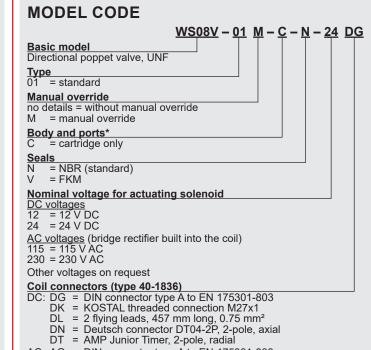
Operating pressure:	max. 350 bar	
Nominal flow:	max. 20 l/min	
Leakage:	Leakage-free	
	max. 5 drops/min (0.25 cm³/min) at 350 bar	
Media operating temperature range:	min20 °C to max. +100 °C	
Ambient temperature range:	min20 °C to max. + 60 °C	
Operating fluid:	Hydraulic oil to DIN 51524 Part 1, 2 and 3	
Viscosity range:	min. 7.4 mm²/s to max. 420 mm²/s	
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner	
MTTF _d :	150 - 1200 years, according to DIN EN ISO 13849-1	
Installation:	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	
	Coil only: 0.19 kg	
Electrical data		
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature	
Voltage tolerance:	± 15 % of nominal voltage	
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	
Response time: (at p _{max} , Q _{max} , v = 34 mm²/s)	energized: approx. 35 ms de-energized: approx. 70 ms substantially extended response times possible at other operating conditions	
	· · · ·	
Coil type:	possible at other operating conditions Coil40-1836	

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

HYDAC 1







AC: AG = DIN connector type A to EN 175301-803 Other connectors on request

Standard models

Model code	Part No.
WS08V-01-C-N-24DG	3138653
WS08V-01-C-N-115AG	3143219

*Standard in-line bodies

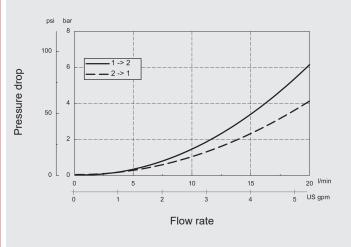
Code	Part No.	Material	Ports	Pressure
FH082-SB3	560919	Steel, zinc-plated	G3/8"	350 bar
FH082-AB3	3011423	Aluminium, clear anodized	G3/8"	210 bar
Other line bodi	es on request			

Seal kits

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

TYPICAL PERFORMANCE

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



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. 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: valves@hydac.com