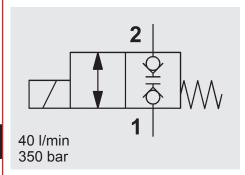
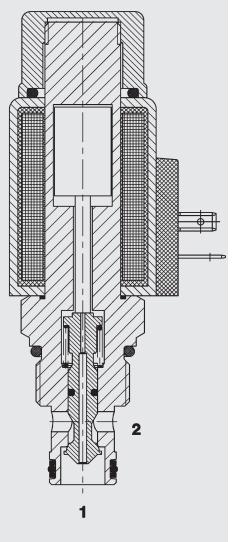


YDAC INTERNATIONAL



2/2 Solenoid Directional Valve UNE **Poppet Type, Direct-Acting Normally Closed** SAE-10 Cartridge - 350 bar **WS10W**

FUNCTION



FEATURES

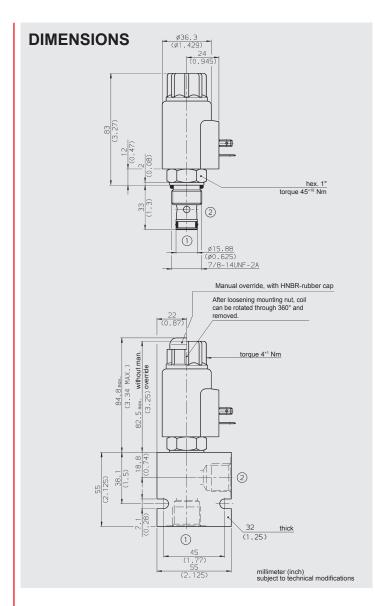
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connections available
- Excellent switching performance by high power HYDAC solenoid

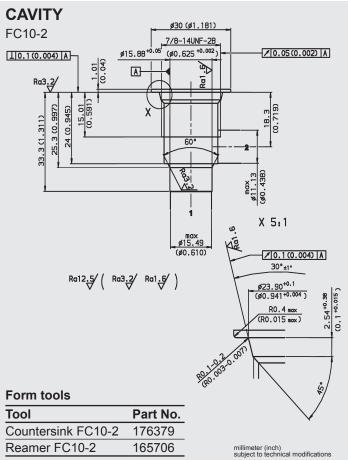
SPECIFICATIONS

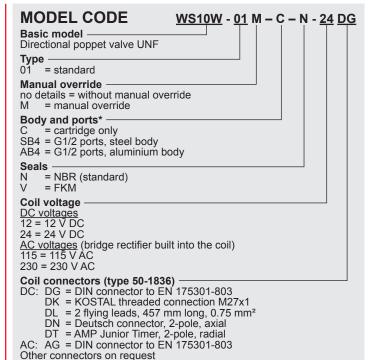
Operating pressure:	350 bar			
Nominal flow:	40 l/min			
Internal leakage:	Leakage-free (max. 5 drops = 0,25 cm³/min at 350 bar)			
Media operating temperature range:	min20 °C to max. +100 °C			
Ambient temperature range:	min20 °C to ma	min20 °C to max. +60 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2			
Viscosity range:	min. 7.4 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 restrictions			
Material:	Valve body: Poppet:	free-cutting steel 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:	FC10-2			
Weight:	Valve complete:	0.46 kg		
	Coil only:	0.23 kg		
Electrical data:				
Response time:	Energized:	approx. 50 ms		
	De-energized:	approx. 50 ms		
Type of voltage:	DC solenoid, AC voltage is rectified using a bridge rectifier built into the coil			
Current draw at 20 °C: 2.22 A at 12 V DC		2		
	1.13 A at 24 V DC			
Voltage tolerance:	± 15 % of nominal voltage			
Coil duty rating:	Continuous up to max. 115% of nominal voltage at max. 60° C ambient temperature			
Coil type:	Coil50-1836			

In the de-energized mode the valve blocks flow in both directions.

When energized the valve allows flow in both directions.







Standard models

Model code	Part No.
WS10W-01-C-N-12DG	3105542
WS10W-01-C-N-24DG	3105385
WS10W-01-C-N-230AG	3105386
Other models on request	

*Standard in-line bodies

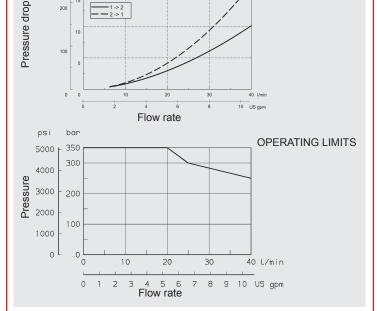
Code	Part No.	Material	Ports	Pressure
FH102-SB4	3037594	Steel, zinc-plated	G1/2	420 bar
FH102-AB4	3037777	Aluminium, clear anodized	G1/2	210 bar

Seal kits

Code	Part No.	Material	
Seal kit FS102-N	3033872	NBR	
Seal kit FS102-N	3051757	FKM	

PERFORMANCE

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



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

PRESSURE DROP