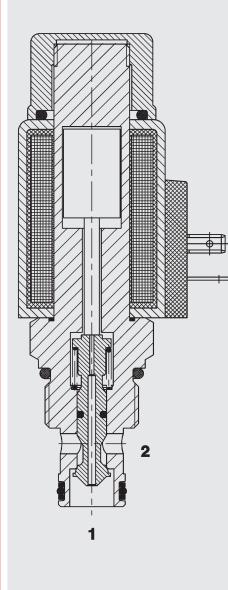


40 l/min 350 bar

FUNCTION



In the de-energized mode the valve blocks flow in both directions. When energized the valve allows flow in both directions. **2/2 Solenoid Directional Valve UNF Poppet Type, Direct-Acting Normally Closed SAE-10 Cartridge – 350 bar** WS10W

FEATURES

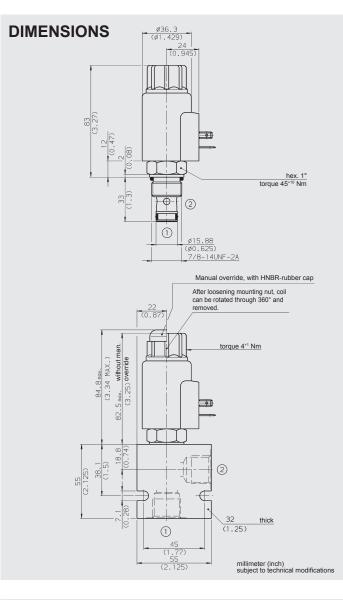
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connections available
- Excellent switching performance by high power HYDAC solenoid

SPECIFICATIONS

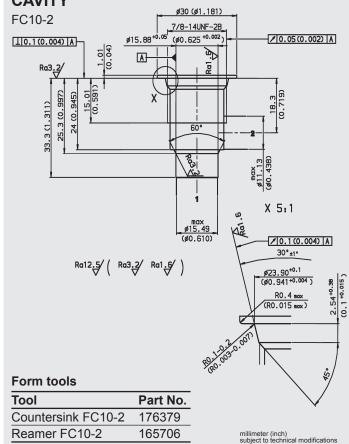
Operating pressure:	350 bar			
Nominal flow:	40 l/min			
Internal leakage:	Leakage-free (max. 5 drops			
Media operating temperature range:	min20 °C to max. +100 °C			
Ambient temperature range:	min20 °C to max. +60 °C Hydraulic oil to DIN 51524 Part 1 and 2			
Operating fluid:				
Viscosity range:	min. 7.4 to max. 420 mm ² /s			
Filtration:	Class 21/19/16 a cleaner	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 re	strictions		
Material:	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:	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			
	1.13 A at 24 V DC			
Voltage tolerance:	± 15 % of nomin			
Coil duty rating:	Continuous up to max. 115% of nominal voltage at max. 60° C ambient temperature			
Coil type:	Coil50-1836			

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E 5.965.3/09.13







MODEL CODE <u>WS10W</u> - $\underline{01}$ M - C - N - $\underline{24}$ <u>DG</u>
Basic model Directional poppet valve UNF
Type 01 = standard
Manual override no details = without manual override M = manual override
Body and ports* C = cartridge only SB4 = G1/2 ports, steel body AB4 = G1/2 ports, aluminium body
Seals N = 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
Coil connectors (type 50-1836) DC: DG = DIN connector to EN 175301-803 DK = KOSTAL threaded connection M27x1 DL = 2 flying leads, 457 mm long, 0.75 mm ² DN = Deutsch connector, 2-pole, axial DT = AMP Junior Timer, 2-pole, radial AC: AG = DIN connector to EN 175301-803

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

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

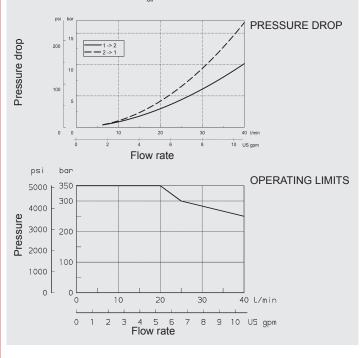
	Code	Part No.	Material	Ports	Pressure
EH102-AB4 3037777 Aluminium clear apodized G1/2 210 ba	FH102-SB4	3037594	Steel, zinc-plated	G1/2	420 bar
	FH102-AB4	3037777	Aluminium, clear anodized	G1/2	210 bar

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 °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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