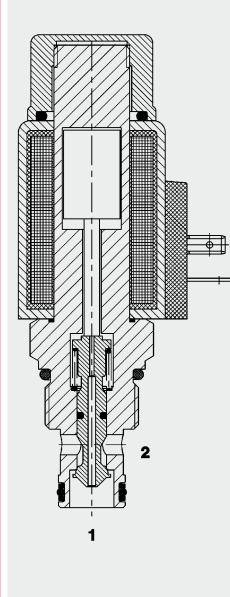


40 l/min 350 bar

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 UNE Poppet Type, Direct-Acting Normally Closed SAE-10 Cartridge – 350 bar** WS10W

FEATURES

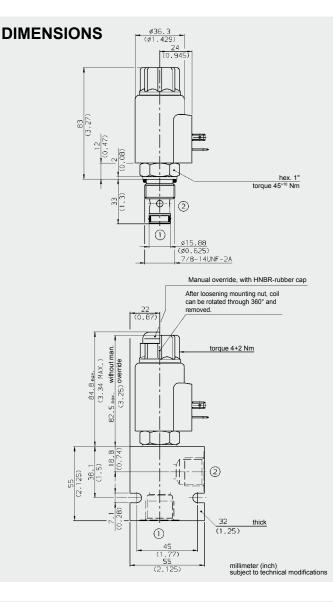
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connections available
- Excellent switching performance by high power HYDAC solenoid

SPECIFICATIONS

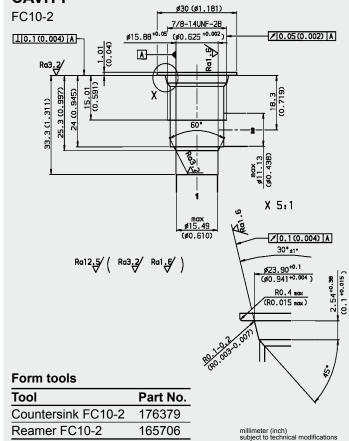
Operating pressure:	350 bar			
Nominal flow:	40 l/min	40 l/min		
Internal leakage:	Leakage-free (max. 5 drops ≘ 0,25 cm³/min at 350 bar)			
Media operating temperature range:	min20 °C to m	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °C to m	min20 °C to max. +60 °C		
Operating fluid:	Hydraulic oil to D	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 7.4 to max.	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	No orientation restrictions		
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 nomina	± 15 % of nominal voltage		
Coil duty rating:	of nominal voltage max. 60° C ambi	Continuous up to max. 115% of nominal voltage at max. 60° C ambient temperature		
Coil type:	Coil50-1836			

372 **HYDAC**

E 5.965.2/01.13



CAVITY



	<u>VS10W</u> - <u>01</u> M – C – N - <u>24</u> D
Basic model — Directional poppet valve UNF	
Type 01 = standard	
Manual override no details = without manual overrid M = manual override	ie
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 in 115 = 115 V AC 230 = 230 V AC	nto the coil)
Coil connectors (type 50-1836) – DC: DG = DIN connector to EN 17 DK = KOSTAL threaded conr DL = 2 flying leads, 457 mm DN = Deutsch connector, 2-p DT = AMP Junior Timer, 2-pc AC: AG = DIN connector to EN 17	nection M27x1 long, 0.75 mm² pole, axial ple, radial

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

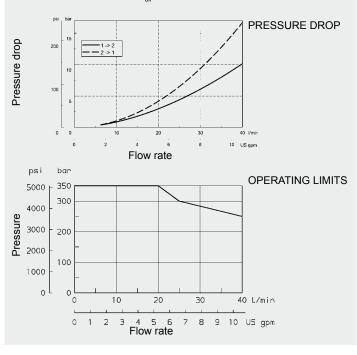
Code	Part No.	Material	Ports	Pressure
FH102-SB4	3037594	Steel, zinc-plated	G1/2	420 bar
FH102-AB4	3037777	Aluminium, clear anodized	G1/2	210 bar

Seal kits

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

PERFORMANCE

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



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 described. department. Subject to technical modifications.

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