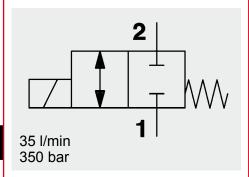


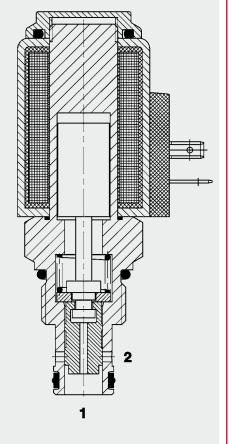
YDAC INTERNATIONAL



2/2 Solenoid Directional Valve UNE **Spool Type, Direct-Acting,** SAE-10 Cartridge - 350 bar

WK10W-01

FUNCTION



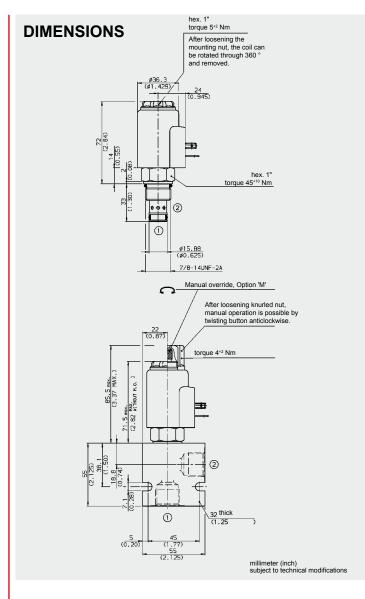
FEATURES

- 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 connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure drop due to CFD optimized flow path

SPECIFICATIONS

Operating pressure:	max. 350 bar			
Nominal flow:	max. 35 l/min	max. 35 l/min		
Internal leakage:	max. 150 cm³/min at 250 bar and 34 mm²/s			
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			
MTTF _d :	150 years (see "Conditions and instructions for valves" in brochure 5.300)			
Installation:	No orientation restrictions			
Materials:	Valve body:	free-cutting steel		
	Spool:	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	0.45 kg		
	Coil only	0.23 kg		
Electrical data:				
Response time:	Energized:	approx. 35 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 the nominal voltage			
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature			
Coil type:	Coil50-1836			

When the solenoid coil is de-energized, the valve blocks flow in both directions. When energized the valve allows flow in both directions.



CAVITY FC10-2 ø30 (ø1.181) 7/8-14UNF-2B ø15.88^{+0.05} / 0.05(0.002) A I]0.1(0.004)[A] <u>A</u>-25.3 (0.997) 33.3(1.311) 8 24 (0. 60 ő X 5:1 /0.1(0.004) A 30°±1° Ra12.5/ (Ra3.2/ Ra1.6/) ø23.90^{+0.1} (ø0.941^{+0.004}) +0.015 RO. 4 max (RO.015 max) 8 Form tools Tool Part No. Countersink FC10-2 176379

165706

Reamer FC10-2

MODEL CODE WK10W-01 M - C - N - 24 DG Basic model -Directional spool valve, UNF Manual override no details = without manual override = manual override Body and ports* = cartridge only SB4 = G1/2 ports, steel body AB4 = G1/2 ports, aluminium body = NBR (standard) = FKM Coil voltage DC voltages 12 = 12 V DC 24 = 24 V DC AC voltages (bridge rectifier built into the coil) 115 = 115 V AC 230 = 230 V AC

Coil connectors (type 50-1836)

Other voltages on request

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.
WK10W-01-C-N-24DG	3079726
WK10W-01-C-N-230AG	3094629

Other models on request

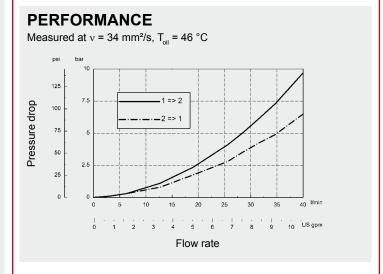
*Standard in-line bodies

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

Other bodies on request

Seal kits

Code	Material	Part No.
FS102-N SEAL KIT	NBR	3033872
FS102-V SEAL KIT	FKM	3051757



NOTE

millimeter (inch) subject to technical modifications

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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