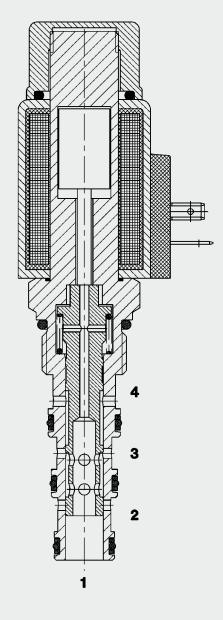


FUNCTION



When de-energized, the valve allows flow from port 3 to 1 or from 1 to 3, while blocking flow at ports 2 and 4. When energized, the valve allows flow

When energized, the valve allows flow from port 3 to 4 or from 4 to 3 and from port 1 to 2 or 2 to 1. **4/2 Solenoid Directional Valve UNE Spool Type, Direct-Acting SAE-10 Cartridge – 350 bar** WK10N-01

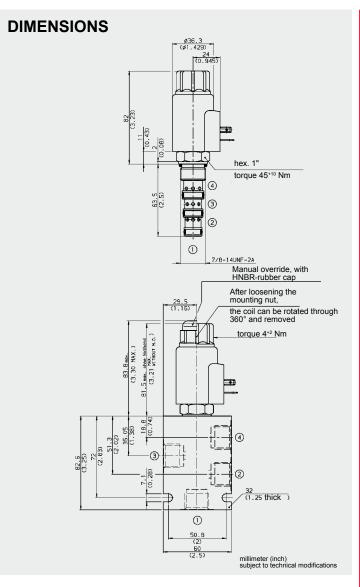
FEATURES

- 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

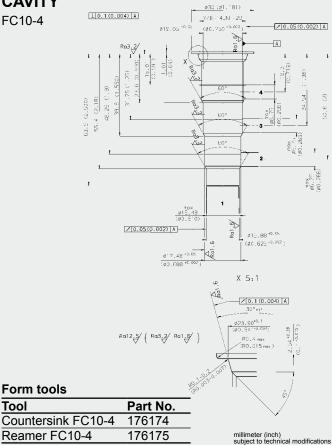
SPECIFICATIONS

Operating pressure:	350 bar		
Nominal flow:	32 l/min	32 l/min	
Internal leakage:	max. 140 cm ³ /		
	at 250 bar and		
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 mm²/s	min. 7.4 mm ² /s to max. 420 mm ² /s	
Filtration:	Class 21/19/16 cleaner	Class 21/19/16 according to ISO 4406 or cleaner	
Installation:	No orientation	No orientation restrictions	
Material:	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:	-	
	Coil:	steel / polyamide	
Cavity:	FC10-4		
Weight:	Valve complete:0.48 kg		
-	Coil only:	0.23 kg	
Electrical data:			
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 n	± 15% of the nominal voltage	
Coil duty rating:		Continuous up to max. 115% of the nominal voltage at max. 60° C ambient	
Coil type:	Coil50-1830	Coil50-1836	

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CAVITY



MODEL CODE	<u>WK10N - 01</u> M - C - N - <u>24</u> DG
Basic model — Directional spool valve, UNF	
Type 01 = standard	
Manual override no details = without manual override M = manual override	e
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	
AC voltages (bridge rectifier built in 24 = 24 V AC 230 = 230 V AC	to the coil)
Other voltages on request	
Coil connectors (type 50-1836) — DC: DG = DIN connector to EN 1 DK = KOSTAL threaded con DL = 2 flying leads, 457 mm DN = Deutsch connector, 2-1	75301-803 nection M27x1 long, 0.75 mm²

- DT = AMP Junior Timer, 2-pole, radial
- AC: AG = DIN connector to EN 175301-803
- Other connectors on request

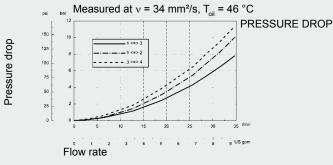
Standard models

Model cod	е			Part No.
WK10N-01	-C-N-24DG			3109892
WK10N-01	-C-N-230AG			3109893
Other mode	els on request			
*Standa	rd in-line boo	lies		
Code	Part No.	Material	Ports	Pressure

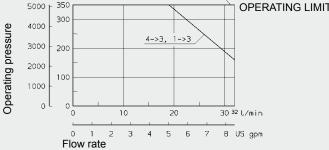
Code		Motorial		Dort No.
Seal kits				
Other bodies o	n request			
FH104-AB4	3038097	Aluminium, anodized	G1/2	210 bar
FH104-SB4	3037784	Steel, zinc-plated	G1/2	420 bar
Code	Part NO.	wateria	Ports	Pressure

Code	Material	Part No.
FS104-N SEAL KIT	NBR	3051912
FS104-V SEAL KIT	FKM	3071275

PERFORMANCE







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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. department. Subject to technical modifications.

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