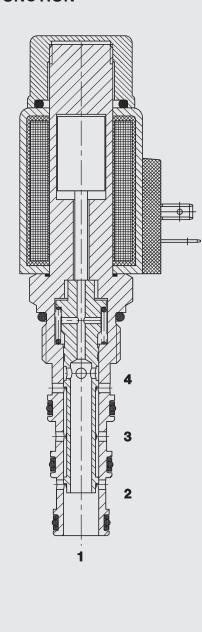


FUNCTION



When de-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.

When energized, the valve allows flow from port 2 to 3 or from 3 to 2 and from port 1 to 4 or 4 to 1.

**4/2 Solenoid Directional Valve UNF Spool Type, Direct-Acting SAE-10 Cartridge – 350 bar** WK10Y-01

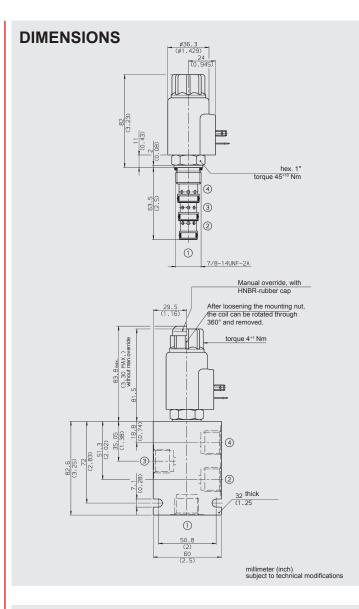
## FEATURES

- 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

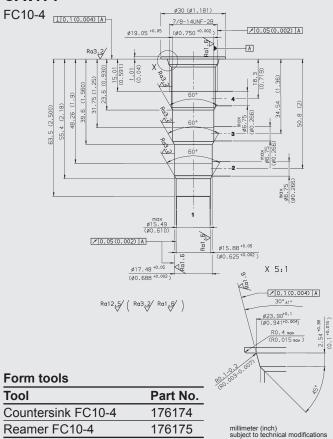
# SPECIFICATIONS

Operating pressure:	max. 350 bar		
Nominal flow:	max. 32 l/min		
Internal leakage:	max. 120 cm³/min at 250 bar and 34 mm²/s		
Media operating temperature range:	min20 °C to m	min20 °C to max. +100 °C	
Ambient temperature range:	min20 °C to m	ax. +60 °C	
Operating fluid:	Hydraulic oil to E	DIN 51524 Part 1 and 2	
Viscosity range:	min. 7.4 mm²/s t	o max. 420 mm²/s	
Filtration:	Class 21/19/16 a cleaner	Class 21/19/16 according to ISO 4406 or	
MTTF <sub>d</sub> :	150 years (see "Conditions and instructions for valves" in brochure 5.300)		
Installation:	No orientation re	estrictions	
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:	FC10-4		
Weight:	Valve complete	0.48 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:			

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## CAVITY



MODEL CODE <u>WK10Y</u> - 01 M - C - N - 24 DG
Basic model Directional spool 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
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
Other voltages on request 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 <sup>2</sup> 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.
WK10Y-01-C-N-12DG	3095462
WK10Y-01-C-N-24DG	3094514
WK10Y-01-C-N-230AG	3094515
Other models on request	

#### \*Standard in-line bodies

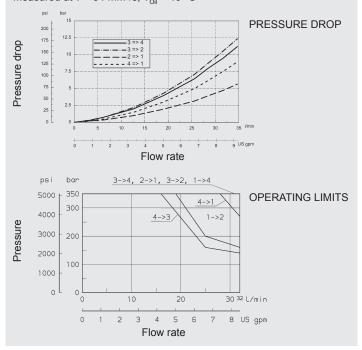
Code	Part No.	Material	Ports	Pressure
FH104-SB4	3037784	Steel, zinc-plated	G1/2	420 bar
FH104-AB4	3038097	Aluminium, anodized	G1/2	210 bar
Other bodies o	n request			

#### Seal kits

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

## PERFORMANCE

Measured at v = 34 mm²/s, T<sub>oil</sub> = 46 °C



**NOTE** The information in this brochure relates to the For applications or operating conditions not described. For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

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