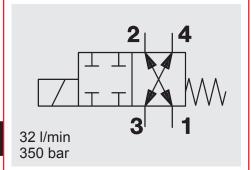
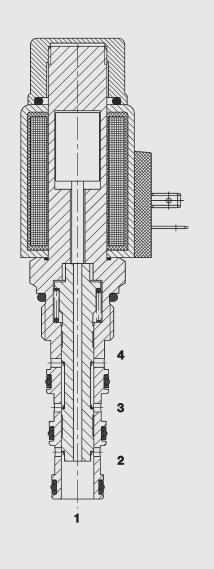


YDAC) INTERNATIONAL



4/2 Solenoid Directional Valve UNE **Spool Type, Direct Acting** SAE-10 Cartridge - 350 bar WK10A-01

FUNCTION



When de-energized, the valve allows flow in both directions between ports 3 and 4 and also in both directions between ports 1 and 2.

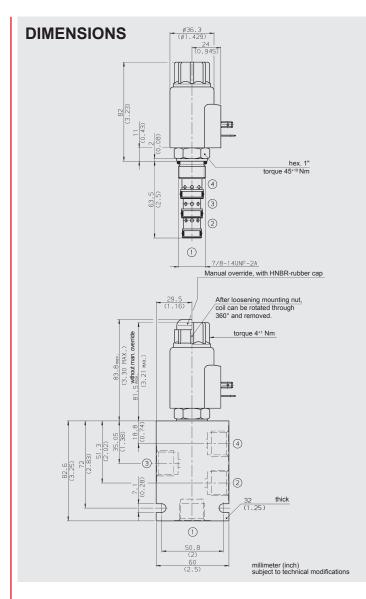
When the solenoid coil is energized, the valve is closed in both directions.

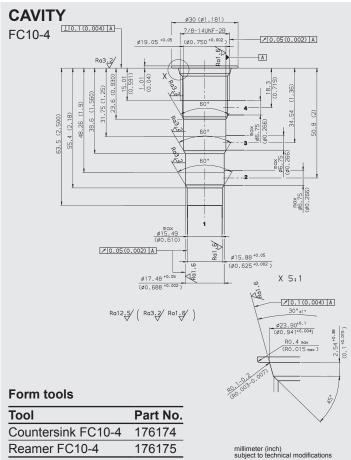
FEATURES

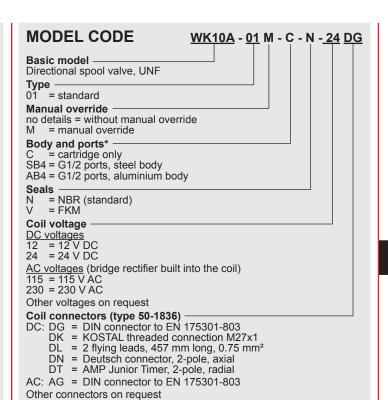
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure drop due to CFD optimized flow path

SPECIFICATIONS

Operating pressure:	max. 350 bar	max. 350 bar		
Nominal flow:	max. 32 l/min			
Internal leakage:	max. 160 cm³/mi mm²/s	max. 160 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 D	OIN 51524 Part 1 and 2		
Viscosity range:	min. 7.4 mm²/s to	o max. 420 mm²/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		
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:	FC10-3			
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 nominal voltage			
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature			
Coil type:	Coil50-1836			







Standard models

Model code	Part No.
WK10A-01-C-N-24DG	3098530
WK10A-01-C-N-230AG	3098531
Other models on request	

*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH104-SB4	3037784	Steel, zinc-plated	G1/2	350 bar
FH104-AB4	3038097	Aluminium, anodized	G1/2	210 bar

Other bodies on request

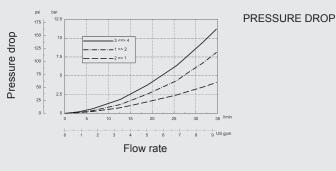
Seal kits

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

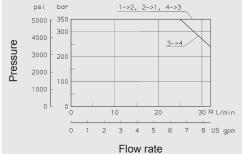
Other models on request

PERFORMANCE

Measured at ν = 34 mm²/s T_{Oil} = 46 °C



OPERATING LIMITS



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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