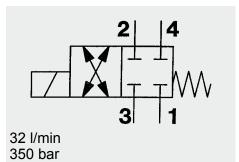


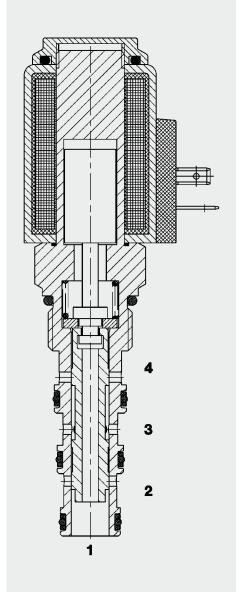
# DAC INTERNATIONAL



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

WK10Z-01

## **FUNCTION**



## **FEATURES**

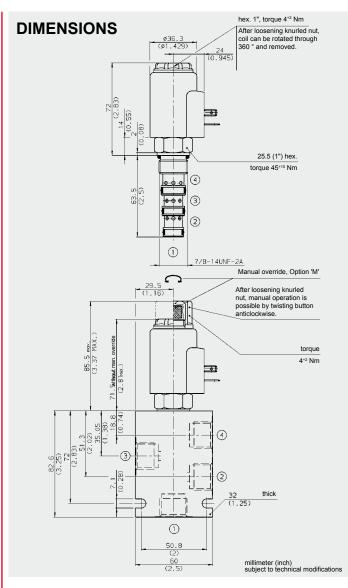
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure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

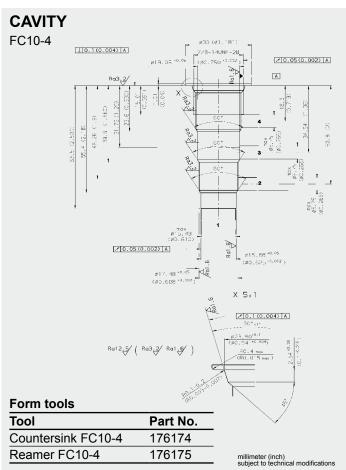
### **SPECIFICATIONS**

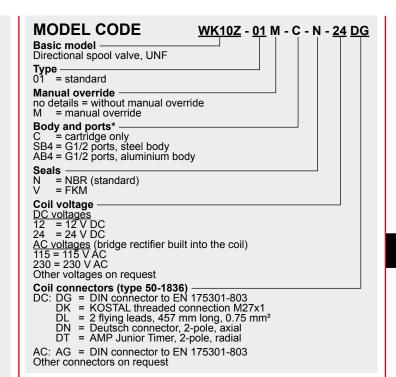
Operating pressure:	max. 350 bar			
Nominal flow:	max. 32 l/min	max. 32 l/min		
Internal leakage:	max. 160 cm³/min	max. 160 cm³/min at 250 bar and 34 mm²/s		
Media operating temperature range:	min20 °C to m	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °C to m	min20 °C to max. + 60 °C		
Operating fluid:	Hydraulic oil to E	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity:	min. 7.4 mm²/s t	min. 7.4 mm²/s to max. 420 mm²/s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner			
Installation:	No orientation re	No orientation restrictions		
MTTF <sub>d</sub> :		150 years (see "Conditions and instructions for valves" in brochure 5.300)		
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:				
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 nor	± 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			

In the de-energized mode the valve blocks flow in all directions.

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







#### Standard models

Model code	Part No.
WK10Z-01-C-N-24DG	3094511
WK10Z-01-C-N-230AG	3094512

Other models on request

#### \*Standard in-line bodies

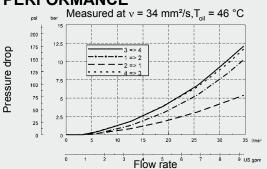
Code	Part No.	Material	Ports	Pressure
FH104-SB4	3037784	Steel, zinc-plated	G1/2	420 bar
FH104-AB4	3038097	Aluminium, clear anodized	G1/2	210 bar
Oth on boundary				

Other housings on request

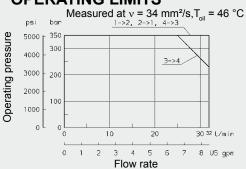
#### Seal kits

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





## **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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