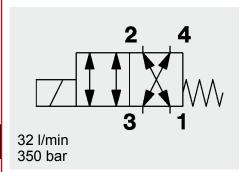
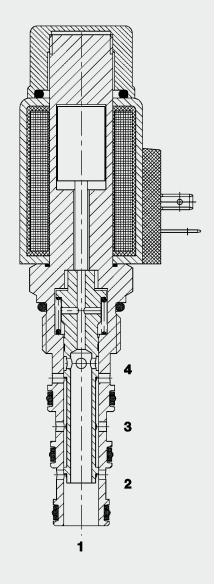
# DAC INTERNATIONAL



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

WK10Y-01

#### **FUNCTION**



### **FEATURES**

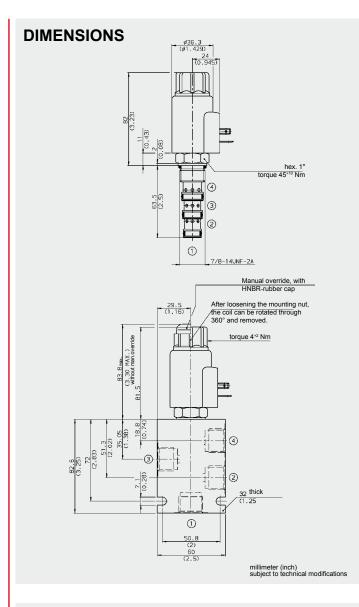
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure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

#### **SPECIFICATIONS**

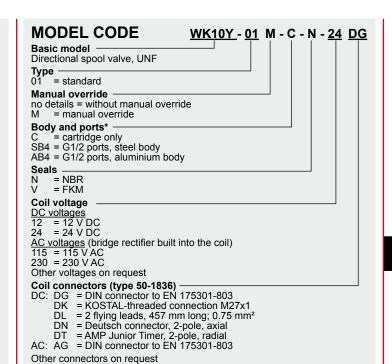
Operating pressure:	max. 350 bar			
Nominal flow:	max. 32 l/min			
Internal leakage:	max. 120 cm³/min at 250 bar and 34 mm²/s			
Media operating temperature range:	min20 °C to m	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °C to max. +60 °C			
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2			
Viscosity range:	min. 7.4 mm²/s to max. 420 mm²/s			
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner			
MTTF <sub>d</sub> :	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:	-20 °C to +120 °C) PTFE		
	Back-up rings: Coil:	,		
Cavity:	. •	PTFE		
Cavity: Weight:	Coil:	PTFE		
	Coil: FC10-4	PTFE steel / polyamide		
	Coil: FC10-4 Valve complete	PTFE steel / polyamide  0.48 kg		
Weight:	Coil: FC10-4 Valve complete Coil only Energized:	PTFE steel / polyamide  0.48 kg		
Weight:  Electrical data: Response time:	Coil: FC10-4 Valve complete Coil only  Energized: De-energized:	PTFE steel / polyamide  0.48 kg 0.23 kg  approx. 35 ms approx. 50 ms		
Weight:  Electrical data:	Coil: FC10-4 Valve complete Coil only  Energized: De-energized: DC solenoid, AC	PTFE steel / polyamide  0.48 kg 0.23 kg  approx. 35 ms		
Weight:  Electrical data: Response time:	Coil: FC10-4 Valve complete Coil only  Energized: De-energized: DC solenoid, AC	PTFE steel / polyamide  0.48 kg 0.23 kg  approx. 35 ms approx. 50 ms voltage is rectified ectifier built into the coil C		
Weight:  Electrical data: Response time:  Type of voltage:	Coil: FC10-4 Valve complete Coil only  Energized: De-energized: DC solenoid, AC using a bridge re 2.22 A at 12 V D	PTFE steel / polyamide  0.48 kg 0.23 kg  approx. 35 ms approx. 50 ms voltage is rectified ectifier built into the coil CCC		
Weight:  Electrical data: Response time:  Type of voltage:  Current draw at 20 °C:	Coil: FC10-4 Valve complete Coil only  Energized: De-energized: DC solenoid, AC using a bridge re 2.22 A at 12 V D 1.13 A at 24 V D ± 15% of the nor Continuous up to	PTFE steel / polyamide  0.48 kg 0.23 kg  approx. 35 ms approx. 50 ms voltage is rectified ectifier built into the coil CCC		

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.



### **CAVITY** FC10-4 [1]0.1(0.004) [A] ø30 (ø<u>1.181)</u> 7/8-14UNF-2B /0.05(0.002) A (ø0.750 \*0.002 31.75 (1.25) 48.26 (1.9) 55.4 (2,18) (997 --3 60° ø15.49 (ø0.610) الازور / 0.05(0.002) A ø15.88 <sup>+0.05</sup> (ø0.625 <sup>+0.002</sup>) X 5:1 +0.002 ✓0.1(0.004)[A] Ra12.5/ ( Ra3.2/ Ra1.6/ ) \$23.90<sup>+0.1</sup> R0.4 max (R0.015 max) Form tools Part No. Tool Countersink FC10-4 176174 Reamer FC10-4 176175 millimeter (inch) subject to technical modifications



#### Standard models

Part No.
3095462
3094514
3094515

## \*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

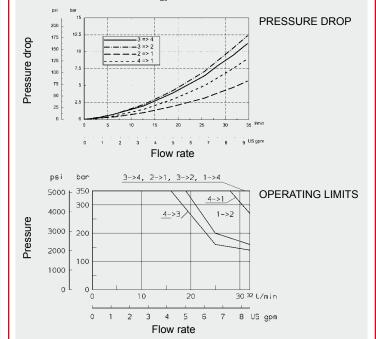
Other bodies on request

#### Seal kits

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

#### PERFORMANCE

Measured at  $v = 34 \text{ mm}^2/\text{s}$ ,  $T_{Oil} = 46 ^{\circ}\text{C}$ 



**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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