

## **PADINTERNATIONAL**

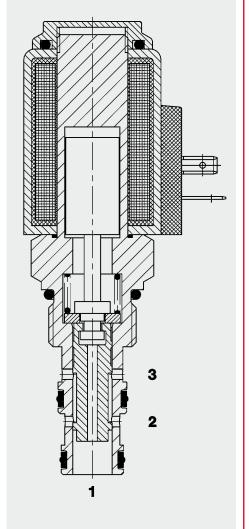
# max. 32 l/min

## WK10D-01

## 3/2 Solenoid Directional Valve UNE Spool Type, Direct-Acting SAE-10 Cartridge – 350 bar

#### **FUNCTION**

max. 350 bar



### When de-energized, the valve allows flow in both directions between ports 3 and 2, while blocking flow at port 1.

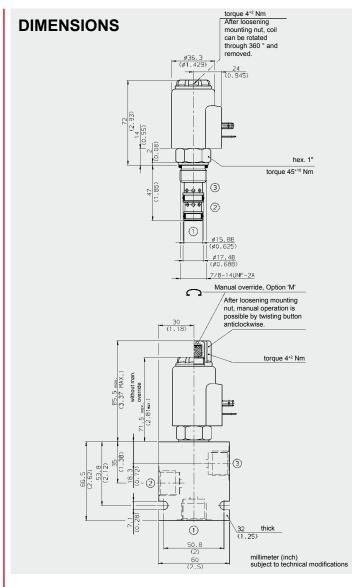
When energized, the valve allows flow in both directions between ports 1 and 2. while blocking flow at port 3.

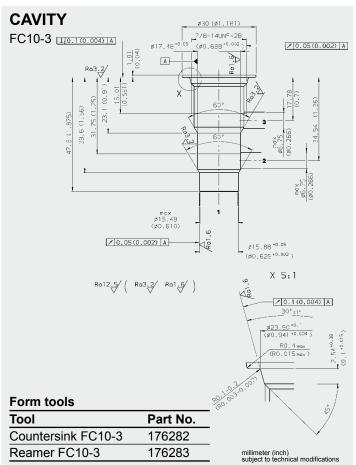
#### **FEATURES**

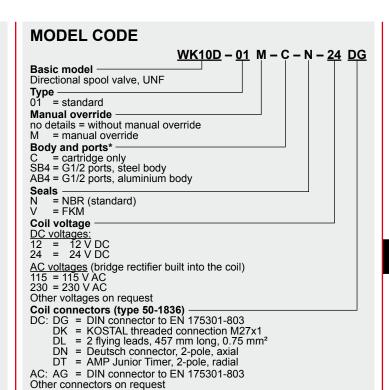
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure 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 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 mm <sup>2</sup> /s to max. 420 mm <sup>2</sup> /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)		
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	0.47 kg	
	Coil only	0.23 kg	
Electrical data:			
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature		
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 type:	Coil50-1836		







#### Standard models

Model code	Part No.
WK10D-01-C-N-24DG	3095107
WK10D-01-C-N-230AG	3095105

#### \*Standard in-line bodies

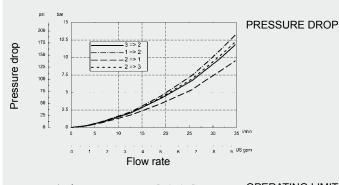
Part No.	Material	Ports	Pressure
3037697	Steel, zinc-plated	G1/2	420 bar
3038092	Aluminium, anodized	G1/2	210 bar
	3037697	3037697 Steel, zinc-plated	3037697 Steel, zinc-plated G1/2

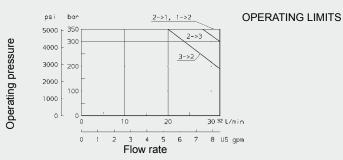
#### Other bodies on request Seal kits

Code	Material	Part No.
FS103-N SEAL KIT	NBR	3071274
FS103-V SEAL KIT	FKM	3049443

#### 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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