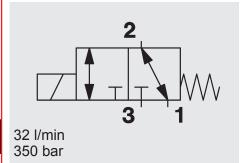
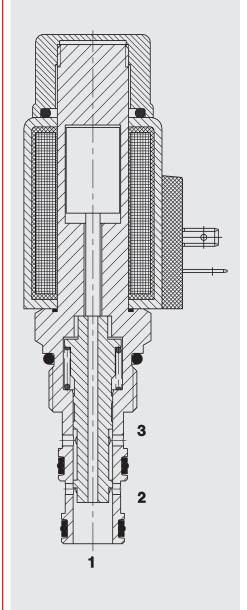
# YDAC INTERNATIONAL



## 3/2 Solenoid Directional Valve UNF Spool Type, Direct Acting SAE-10 Cartridge – 350 bar WK10C-01

#### **FUNCTION**



When the solenoid coil is de-energized, the valve allows flow in both directions between ports 2 and 1, while blocking

between ports 2 and 1, while flow at port 3.

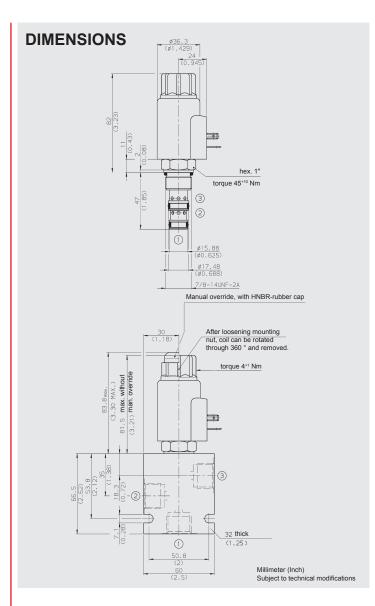
When energized, the valve all both directions between ports while blocking flow at port 1. When energized, the valve allows flow in both directions between ports 3 and 2,

#### **FEATURES**

- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- 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 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:	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		



### **CAVITY** ø30 (ø1.181) 7/8-14UNF-2B FC10-3 10.1(0.004) A / 0.05(0.002) A A / 0.05(0.002) A (Ø0.625 +0.002) X 5:1 Ra12.5/ ( Ra3.2/ Ra1.6/ ) / 0.1(0.004) A Ø23.90<sup>+0.1</sup> Form tools Tool Part No. Countersink FC10-3 176282 Millimeter (Inch) Reamer FC10-3 176283

#### MODEL CODE WK10C - 01 M - C - N - 24 DG Basic model Directional spool valve, UNF 01 = standard Manual override no details = without manual override M = manual override **Body and Ports\*** = cartridge only SB4 = G1/2 ports, steel body AB4 = G1/2 ports, aluminium body Seals = NBR (standard) = FKM 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

#### Standard models

Model code	Part No.
WK10C-01-C-N-24DG	3079848
WK10C-01-C-N-230AG	3094630

#### Standard in-line bodies

Other connectors on request

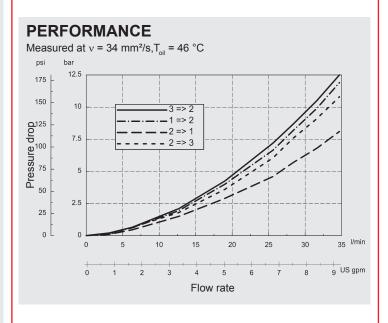
AC: AG = DIN connector to EN 175301-803

Code	Part No.	Material	Ports	Pressure
FH103-SB4	3037697	Steel, zinc-plated	G1/2	420 bar
FH103-AB4	3038092	Aluminium, anodized	G1/2	210 bar

Other line bodies on request

#### Seal kits

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



#### **NOTE**

subject to technical modifications

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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