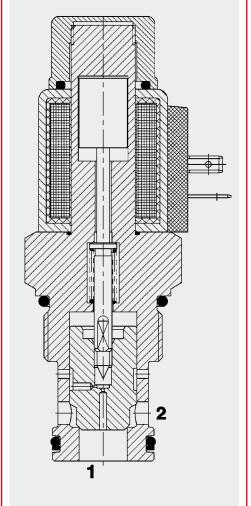
# YDAC INTERNATIONAL

## 2/2 Solenoid Directional Valve **Poppet Type, Pilot-Operated Normally Open** SAE-16 Čartridge – 350 bar WS16Y-01

## **FUNCTION**

150 l/min 350 bar



When de-energized, there is free flow through the valve from port 2 to 1. Flow is not possible in the reverse direction.

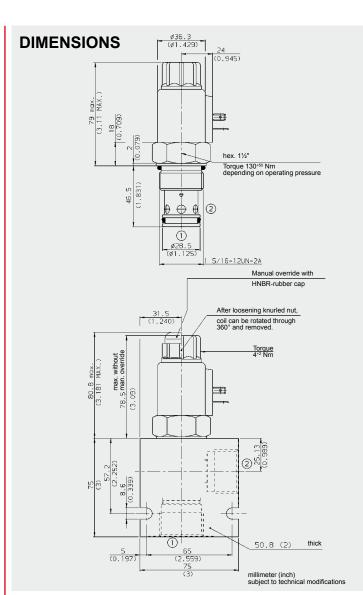
When the solenoid coil is energized, the valve is closed from port 2 to port 1. In the reverse direction the valve will allow flow from port 1 to 2 when the hydraulic force on the piston overcomes the solenoid force (approx. 9 to 20 bar).

## **FEATURES**

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

## **SPECIFICATIONS**

Operating pressure:	max. 350 bar		
Flow rate	max. 150 l/min up to 280 bar		
	max. 100 l/min, from 280 to 350 bar		
Leakage:	Leakage-free		
		,25 cm³/min at 350 bar)	
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 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 v	valves" in brochure 5.300)	
Installation:	No orientation restrictions		
Materials:	Valve body:	free-cutting steel	
	Poppet:	hardened and	
		ground steel	
	Seals:	NBR (standard)	
		FKM (optional, media	
		temperature range	
	<b>5</b>	-20 °C to +120 °C)	
	Back-up rings:	PTFE	
<del></del>	Coil:	steel / polyamide	
Cavity:	FC16-2		
Weight:	Valve complete		
	Coil only	0.19 kg	
Electrical data:			
Current draw at 20 °C:	1.5 A at 12 V DC		
0.71.1	0.8 A at 24 V DC		
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at		
Posponeo timo:	60 °C ambient to	•	
Response time:	Energized:	approx. 150 ms approx. 35 ms	
Coil type:	De-energized:	appiux. 30 iiis	
Coil type:	Coil40-1836		



## **CAVITY** FC16-2 ø44.45 (ø1.7<u>5)</u> 0.05(0.002) A 1 5/16-12UN-2B 10.1(0.004) A (ø1.126 <sup>+0.002</sup>) A (1,844) 60° 46.84 X 5:1 /0.1(0.004) A 30° ±1. ø35.50<sup>+0.1</sup> (ø1.398<sup>+0.004</sup>) Ra12.5/ ( Ra3.2/ Ra1.6/ Form tools Tool Part No. Countersink FC16-2 176218 Reamer FC16-2 176219 millimeter (inch) subject to technical modifications

## **MODEL CODE** WS16Y - 01 M - C - N - 24 DG Basic model -Directional poppet valve UNF Type 01 = standard Manual override No details = without manual override M = manual override Body and ports\* = cartridge only SB6 = G3/4 ports, steel body AB6 = G3/4 ports, aluminium body = 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 40-1836) 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.
WS16Y-01-C-N-24DG	3049587
WS16Y-01-C-N-230AG	3049612

AC: AG = DIN connector to EN 175301-803

## \*Standard in-line bodies

Other connectors on request

Code	Part No.	Material	Ports	Pressure
FH162-SB8	3032496	Steel, zinc-plated	G1	420 bar
FH162-AB8	3037193	Aluminium, anodized	G1	210 bar
Other line bodie	es on request	-		

#### Seal kits

Code	Material	Part No.
FS162-N SEAL KIT	NBR	3052427
FS162-V SFAL KIT	FKM	3051758

