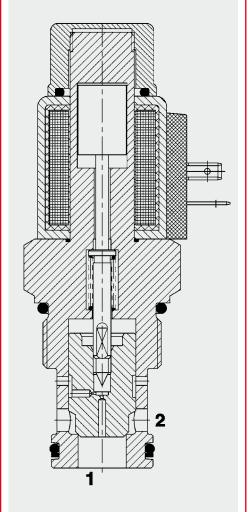
YDAC INTERNATIONAL

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.

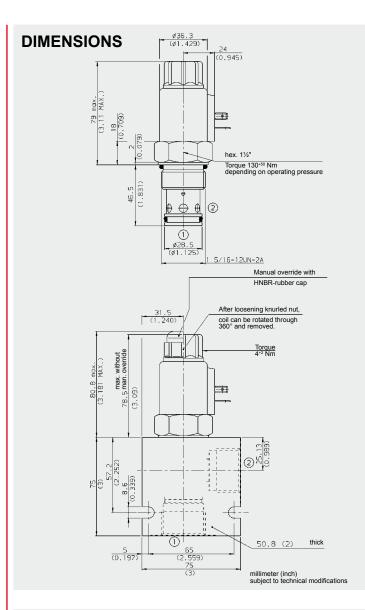
When the solenoid coil is energized, the valve is closed from port 2 to port 1. In the reverse direction the valve will allow flow from port 1 to 2 when the hydraulic force on the piston overcomes the solenoid force (approx. 9 to 20 bar).

FEATURES

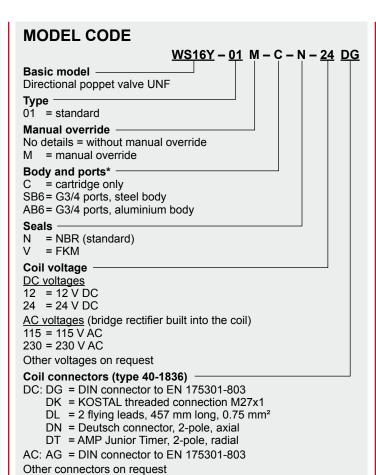
- Excellent switching performance by high power HYDAC solenoid
- Wide variety of connectors available
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- External surfaces zinc-plated and corrosion-proof
- Coil seals protect the solenoid system

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		
	(max. 5 drops = 0,25 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 ² /s to 420 mm ² /s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF _d :	150 years (see "Conditions and		
	instructions for 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	
	5	-20 °C to +120 °C)	
	Back-up rings:	PTFE	
	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 temperature		
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 ^{+0.002}) A (1,844) 60° 46.84 X 5:1 /0.1(0.004) A 30° ±1. ø35.50*0.1 (ø1.398*0.004) Ra12.5/ (Ra3.2/ Form tools Tool Part No. Countersink FC16-2 176218 Reamer FC16-2 176219 millimeter (inch) subject to technical modifications



Standard models

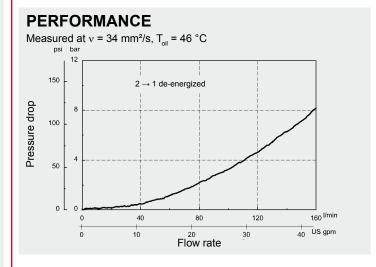
Model code	Part No.
WS16Y-01-C-N-24DG	3049587
WS16Y-01-C-N-230AG	3049612

*Standard in-line bodies

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 hodie	es on request			

Seal kits

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



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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