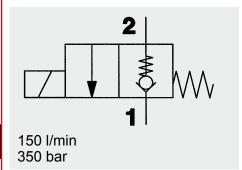
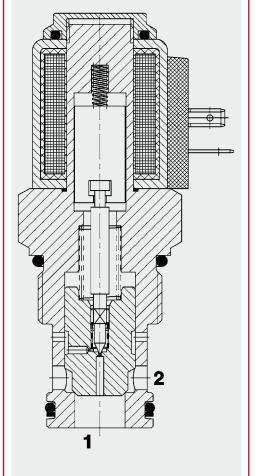


# DAC INTERNATIONAL



## 2/2 Solenoid Directional Valve UNE **Poppet Type, Pilot-Operated** Normally Closed SAE-16 Cartridge - 350 bar WS16Z-01

#### **FUNCTION**



### When the solenoid coil is not energized, the valve is closed from port 2 to port 1. Flow is permitted from port 1 to port 2.

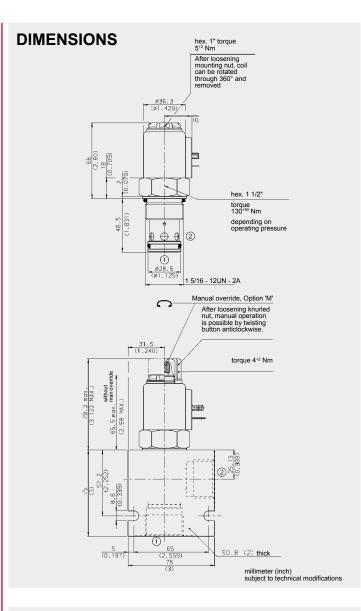
When energized, there is free flow through the valve from port 2 to port 1. Return flow from port 1 to 2 is prevented.

#### **FEATURES**

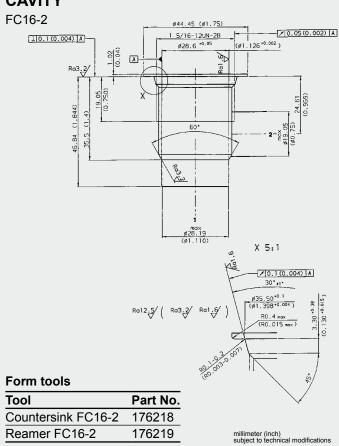
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Low pressure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

#### **SPECIFICATIONS** Increting procesure

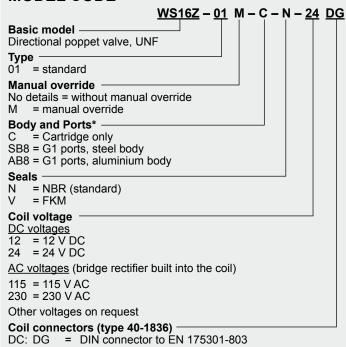
Operating pressure:	350 bar			
Nominal flow:	max. 150 l/min up	max. 150 l/min up to 280 bar		
	max. 100 l/min from 280 to 350 bar			
Internal leakage:	Leakage-free			
	(max. 5 drops ≘ 0,25 cm³/min at 350 bar)			
Media operating temperature range:	min20 °C to max. +100 °C			
Ambient temperature range:	min20 °C to max. +60 °C			
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2			
Viscosity range:	7.4 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 va	instructions for valves" in brochure 5.300)		
Installation:	No orientation restrictions			
Material:	Valve body:	steel		
	Poppet:	hardened and		
		ground steel		
	Seals:	NBR (standard)		
		FKM (optional, media		
		temperature range		
	0 "	-20 °C to 120 °C)		
0 "	Coil:	Steel/Polyamide		
Cavity:	FC16-2			
Weight:	Valve complete:	0.62 kg		
	Coil only:	0.19 kg		
Electrical data				
Response time:	Energized:	approx. 50 ms		
	De-energized:	approx. 35 ms		
Type of voltage:	DC solenoid, AC voltage is rectified			
	using a bridge rectifier built into the coil			
Current draw at 20 °C:	1.5 A at 12 V DC			
	0.8 A at 24 V DC			
Voltage tolerance:		± 15 % of nominal voltage		
Coil duty rating:	I duty rating: Continuous up to max. 115%			
	of nominal voltage at			
	max. 60° C ambient temperature			
Coil type:	Coil40-1836	Coil40-1836		



#### **CAVITY**



#### MODEL CODE



= KOSTAL threaded connection M27x1 DK = 2 flying leads, 457 mm long, 0.75 mm<sup>2</sup> = Deutsch connector, 2-pole, axial DL DN DT = AMP Junior Timer, 2-pole, radial AC: AG = DIN connector to EN 175301-803 Other connectors on request

#### Standard models

Model code	Part No.
WS16Z-01-C-N-12DG	3049464
WS16Z-01-C-N-24DG	3049480
WS16Z-01-C-N-230AG	3049517
Other models on request	

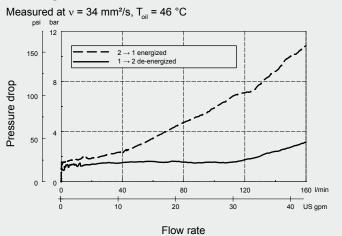
#### \*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH162-SB8	3032496	Steel, zinc-plated	G1	420 bar
FH162-AB8	3037193	Aluminium, anodized	G1	250 bar
Other models or	request	•		

#### Seal kits

Code	Material	Part No.
FH162-N	NBR	3052427
FS162-V	FKM	3051758

#### PERFORMANCE



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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