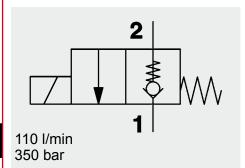
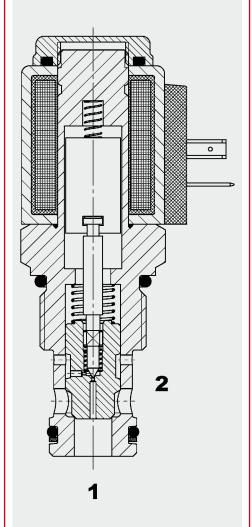
YDAC INTERNATIONAL



2/2 Solenoid Directional Valve UNF Poppet Type, Pilot-Operated **Normally Closed** SAE-12 Ćartridge – 350 bar

WS127-01

FUNCTION



FEATURES

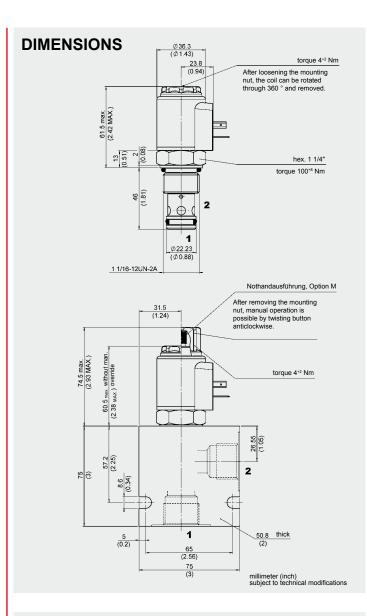
- Excellent switching performance by high power HYDAC solenoid
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- External surfaces zinc-plated and corrosion-proof
- Low pressure drop due to CFD optimized flow path
- Wide variety of connectors available

SPECIFICATIONS

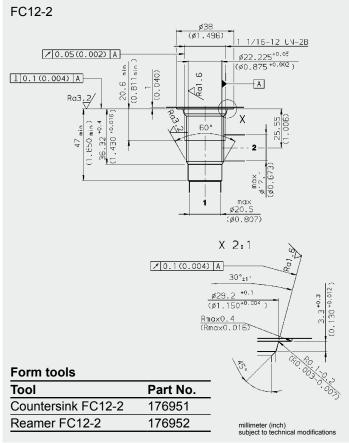
Operating pressure:	max. 350 bar		
Nominal flow:	max. 110 l/min		
Leakage:	Leak-free		
	(max. 5 drops ≘ 0,25 cm³/min at 350 bar)		
Media operating temperature range:	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °C to max. 60 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 7.4 mm²/s to max. 420 mm²/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 -20 °C to +120 °C)	
	Back-up rings:	PTFE	
	Coil:	steel / polyamide	
Cavity:	FC12-2		
Weight:	Valve complete	0.46 kg	
	Coil only	0.19 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:	1.5 A at 12 V DC 0.8 A at 24 V DC		
Voltage tolerance:	± 15% of the nominal voltage		
Response time:	Energized: De-energized:	approx. 30 ms approx. 70 ms	
Coil type:	Coil40-1836		

When the solenoid coil is not energized, the valve is closed from port 2 to port 1. There is free flow from port 1 to port 2.

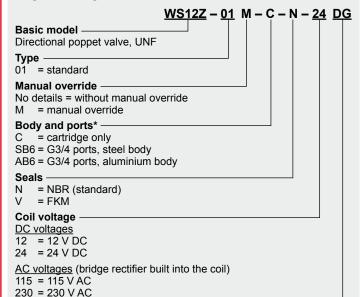
When energized, there is free flow through the valve from port 2 to 1. Flow from port 1 to 2 is not permitted.



CAVITY



MODEL CODE



Coil connectors (type 40-1836)

Other voltages on request

DC: DG = DIN connector to EN 175301-803 DK = KOSTAL threaded connection M27x1 DL = 2 flying leads, 457 mm long, 0.75 mm² DN = Deutsch connector, 2-pole, axial 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.
WS12Z-01-C-N-24DG	3157866
WS12Z-01-C-N-230AG	3157865

*Standard in-line bodies

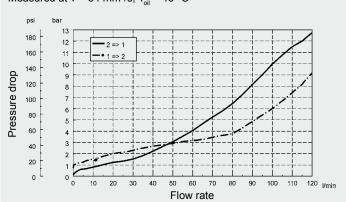
Code	Part No.	Material	Ports	Pressure
FH122-SB6	3053782	Steel, zinc-plated	G3/4	420 bar
FH122-AB6	3053843	Aluminium, anodized	G3/4	210 bar

Seal kits

Code	Material	Part No.
FS122-N SEAL KIT	NBR	3071298
FS122-V SEAL KIT	FKM	3071299

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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