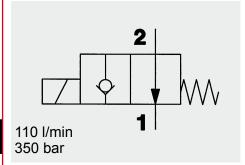
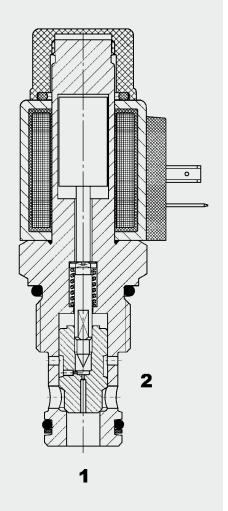
INTERNATIONAL



2/2 Solenoid Directional Valve UNE **Poppet Type, Pilot-Operated Normally Open** SAE-12 Cartridge - 350 bar WS12Y-01

FUNCTION



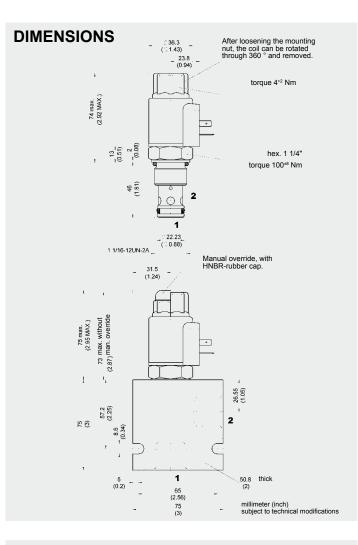
When de-energized, there is free flow through the valve from port 2 to 1. Flow is not permitted in the reverse direction. When the soleriou coin to valve is closed from port 2 to p reverse direction the valve will from port 1 to 2 when the hydron the poppet overcomes the force (approx. 1.5 to 6.5 bar). 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 poppet overcomes the solenoid

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
- Wide variety of connectors available
- Low pressure drop due to CFD optimized flow path

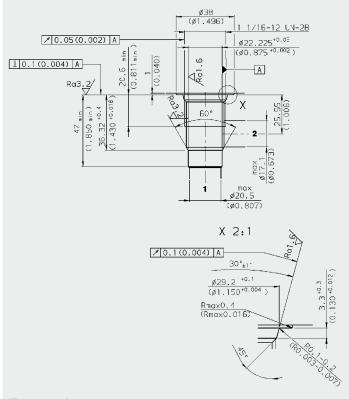
SPECIFICATIONS

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	0.49 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:	approx. 90 ms	
	De-energized:	approx. 25 ms	
Coil type:	Coil40-1836		



CAVITY

FC12-2

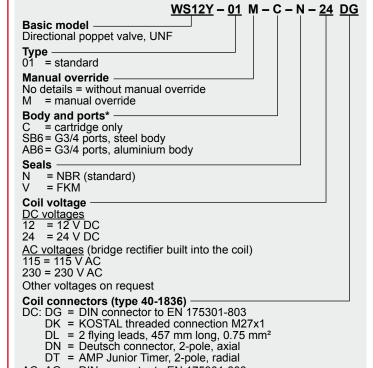


Form tools

1 01111 10010	
Tool	Part No.
Countersink FC12-2	176951
Reamer FC12-2	176952

millimeter (inch) subject to technical modifications

MODEL CODE



Standard models

Model code	Part No.
WS12Y-01-C-N-24DG	3157829
WS12Y-01-C-N-230AG	3157828

AC: AG = DIN connector to EN 175301-803

*Standard in-line bodies

Other connectors on request

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

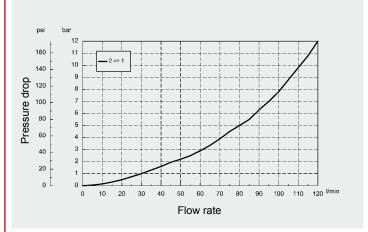
Other line bodies on request

Seal kits

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

PERFORMANCE

Measured at $v = 33 \text{ mm}^2/\text{s}$, $T_{oil} = 46 ^{\circ}\text{C}$



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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