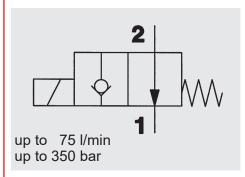
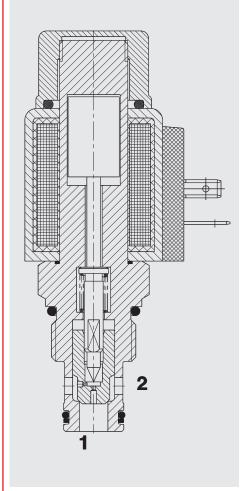


DAG INTERNATIONAL



2/2 Solenoid Directional Valve **Poppet Type, Pilot Operated Normally Open UNF Cartridge – 350 bar** WS10Y-01

FUNCTION



The directional valve is a pilot operated valve in poppet style.

When de-energized, there is free flow through the valve from port 2 to port 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. 2.5 to 10 bar).

Please mind: In pilot operated solenoid valves, shift performance and response times depend i.a. very much on pressure drop and volume flow during actuation.

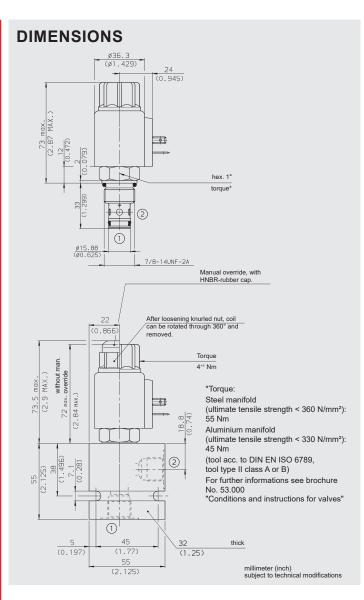
FEATURES

- Coil seals protect the solenoid system
- Wide variety of connectors available
- Excellent switching performance by high power HYDAC solenoid
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1.000 h Salt spray test)

SPECIFICATIONS*

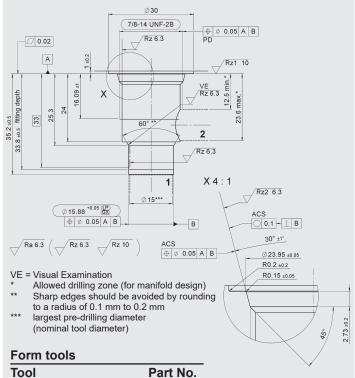
Operating pressure:	max. 350 bar			
Nominal flow:	max. 75 l/min			
Leakage:	Leakage-free			
	max. 5 drops/min (0.25 cm³/min) at 350 bar			
Media operating temperature range:	min20 °C to max. +100 °C			
Ambient temperature range:	min20 °C to ma			
Operating fluid:		N 51524 Part 1, 2 and 3		
Viscosity 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 - 1200 years,			
u-	according to DIN EN ISO 13849-1			
Installation:	No orientation restrictions			
Materials:	Valve body:	free-cutting steel		
	Piston:	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:	FC10-2			
Weight:	Valve complete:	0.37 kg		
	Coil only:	0.19 kg		
Electrical data				
Response time:	energized:	approx. 35 ms		
(at p_{max} , Q_{max} , $v = 34 \text{ mm}^2/\text{s}$)	de-energized:	approx. 50 ms		
		nded response times		
	possible at other operating conditions			
Type of voltage:	DC: direct current solenoid			
	AC: alternating current solenoid with a			
Current draw at 20 °C:	bridge rectifier built into the coil 1.5 A at 12 V DC			
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			
Coil duty rating:	Continuous up to max. 115 %			
Oon daty fating.	of the nominal voltage at			
	60 °C ambient temperature			
Coil type:	Coil40-1836	p =		
* see "Conditions and instructions for valves" in brochure 53.000				
EVILAR				

EN **5.914**.5/11.18



CAVITY

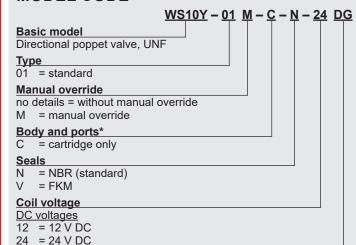
FC10-2



176379

165706

MODEL CODE



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 type A 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 type A to EN 175301-803

Other connectors on request

Standard models

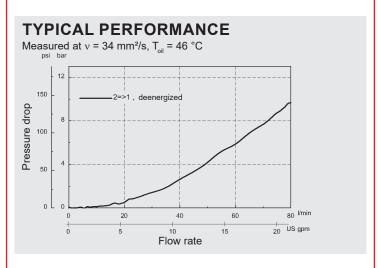
Model code	Part No.
WS10Y-01-C-N-24DG	3030653
WS10Y-01-C-N-230AG	3043826
Other models on request	'

* Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH102-SB4	3037594	Steel, zinc-plated	G1/2"	350 bar
FH102-AB4	3037777	Aluminium, anodized	G1/2"	210 bar
Other housing	s on request			

Seal kits

Code	Material	Part No.
FS UNF 10/N	NBR	3651557
FS UNF 10/V	FKM	3651559



millimeter (inch) subject to technical modifications

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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Reamer

Countersink