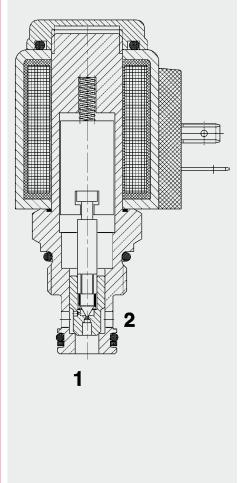


Up to 40 l/min Up to 350 bar

FUNCTION



2/2 Solenoid Directional Valve Poppet Type, Pilot Operated Normally Closed Metric Cartridge Valve – 350 bar WSM06020Z-01

FEATURES

- Excellent switching performance by high power HYDAC solenoid
- Hardened and ground control piston to ensure minimal wear and extended service life
- External surfaces zinc-plated and corrosion-proof
- Coil seals protect the solenoid system
- Compact design enables space-saving installation in connection housings and control blocks

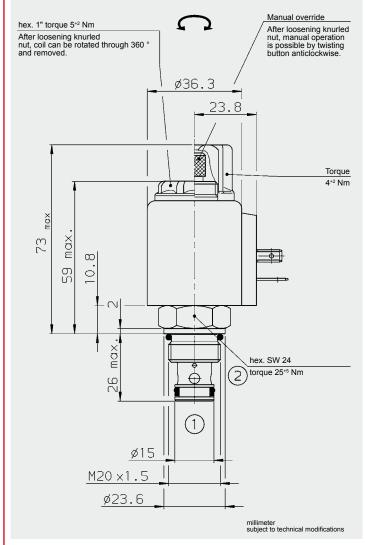
SPECIFICATIONS

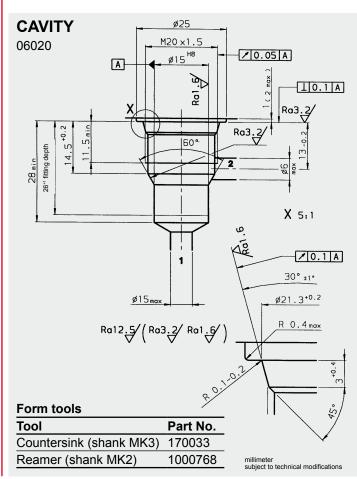
Operating pressure:	max. 350 bar		
Nominal flow:	max. 40 l/min	max. 40 l/min	
Internal leakage:	Leakage-free (max. 5 drops ≙	Leakage-free (max. 5 drops ≘ 0,25 cm³/min at 350 bar)	
Media operating temperature range:	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °C to n	min20 °C to max. +60 °C	
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 10 mm²/s t	min. 10 mm ² /s to max. 420 mm ² /s	
Filtration:	Class 21/19/16 cleaner	Class 21/19/16 according to ISO 4406 or cleaner	
MTTF _d :	150 years (see instructions for	150 years (see "Conditions and instructions for valves" in brochure 5.300)	
Installation:	No orientation r	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:	06020		
Weight:	Valve complete	0.33 kg	
	Coil only	0.19 kg	
Electrical data:			
Type of voltage:	DC solenoid, A0 using a bridge r	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 D 0.8 A at 24 V D		
Voltage tolerance:	± 15% of the no	± 15% of the nominal voltage	
Coil duty rating:	of the nominal v	Continuous up to max. 115% of the nominal voltage at 60 °C ambient temperature	
Response time:	Energized:	approx. 35 ms	
	De-energized:	approx. 50 ms	
Coil type:	Coil40-1836		

When the solenoid coil is not energized, the valve is closed from port 2 to port 1. In the reverse direction there is free flow through the valve. The valve piston opens at a differential pressure of approx. 1.5 bar (check function). When energized, there is free flow

through the valve from port 2 to port 1. Return flow from port 1 to 2 is prevented.

DIMENSIONS





MODEL CODE WSM06020Z - 01 M - C - N - 24 DG

Basic model ———		
Directional papert value	motrio	

Directional poppet valve, metric

Туре 01 = standard

Manual override

No details = without manual override

= manual override М

Body and ports

С = cartridge only

Seals

= NBR (standard) N V

= FKM Coil voltage

DC voltages 12 = 12 V DC

24 = 24 V DC

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 to EN175301-803 DT = AMP Junior Timer, 2-pole, radial DK = Kostal threaded connection M27 x 1
 - DL = 2 flying leads 475 mm long, 0.75 mm²
 - DN = Deutsch connector, axial
- AC: AG = DIN connector to EN175301-803

Other connectors on request

Standard models

Model code	Part No.
WSM06020Z-01-C-N-24DG	3055428
WSM06020Z-01-C-N-230AG	3055416

Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R06020-01X-01	275266	Steel, zinc-plated	G3/8	420 bar
For other connection	0,	e brochure no. E 5.252.		

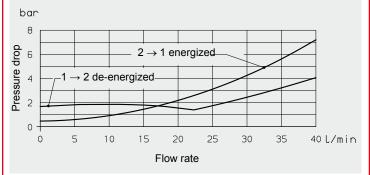
'Connection Housings for Cartridge Valves".

Seal kits

Material	Part No.		
NBR	3119017		
FKM	3262477		
	NBR		

PERFORMANCE

Measured at v = 34 mm²/s, T_{oil} = 46 °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.

HYDAC Fluidtechnik GmbH Justus-von-Liebig-Str. D-66280 Sulzbach/Saar Tel: 0 68 97 /509-01 Fax: 0 68 97 /509-598 E-Mail: flutec@hydac.com