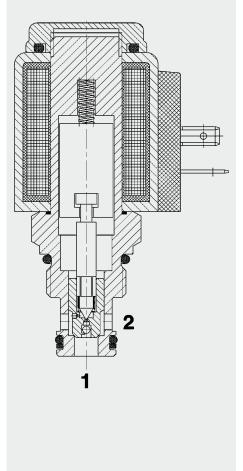


Up to 40 l/min Up to 350 bar

FUNCTION



2/2 Solenoid Directional Valve Poppet Type, Pilot Operated Normally Closed (Reverse Flow) Metric Cartridge Valve – 350 bar

WSM06020ZR-01

FEATURES

- Excellent switching performance by high power HYDAC solenoid
- Hardened and ground control piston to ensure minimal wear and extended service life
- Low pressure drop due to CFD optimized flow path
- Wide variety of connectors available
- 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

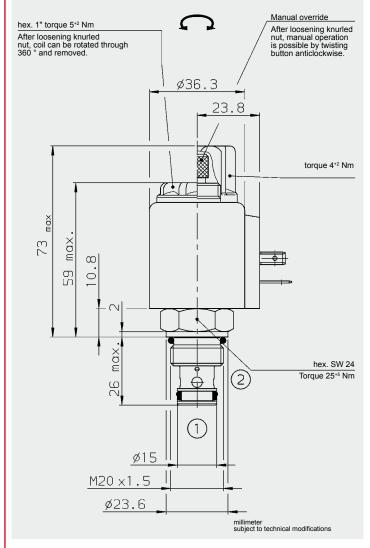
Operating pressure:	max. 350 bar			
Nominal flow:	max. 40 l/min	max. 40 l/min		
Internal leakage:	Leakage-free			
	(max. 5 drops			
Media operating temperature range:	min20 °C to max. +100 °C			
Ambient temperature range:	min20 °C to max. +60 °C			
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2			
Viscosity range:	min. 10 mm ² /s to max. 420 mm ² /s			
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner			
MTTF _d :	150 years (see "Conditions and			
Installation:	instructions for valves" in brochure 5.300)			
Materials:	No orientation restrictions			
Materials.	Valve body:	free-cutting steel hardened and		
	Poppet:	ground steel		
	Seals:	NBR (standard)		
	Seals.	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, AC voltage is rectified			
	using a bridge rectifier built into the coil			
		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%		
	of the nominal voltage at			
	60 °C ambient temperature			
Response time:	Energized: approx. 35 ms			
	De-energized: approx. 50 ms			
Coil type:	Coil40-1836	UUII4U-1830		

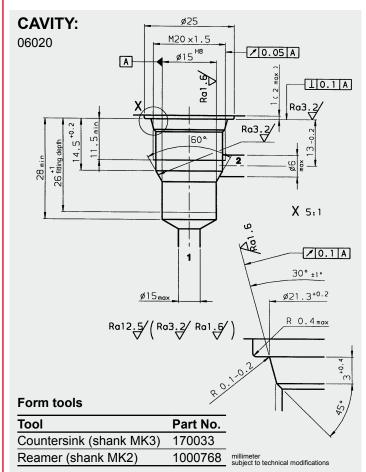
When the solenoid coil is not energized, the valve is closed from port 2 to port 1. In the reverse direction there is free flow through the valve. The valve piston opens at a differential pressure of

approx. 1.5 bar (check function). When energized the valve allows flow in both directions.

330 HYDAC

DIMENSIONS





MODEL CODE
<u>WSM06020ZR</u> - <u>01</u> M - C - N - <u>24</u> <u>DG</u>
Basic model Directional poppet valve, metric
Type 01 = standard
Manual override No details = without manual override M = manual override
Body and ports C = cartridge only
Seals N = NBR (standard) V = FKM
Coil voltage DC voltages 12 = 12 V DC 24 = 24 V DC
<u>AC voltages</u> (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 DN = Deutsch connector, axial

- DL = 2 flying leads, 475 mm loi DN = Deutsch connector, axial

AC: AG = DIN connector to EN175301-803

Other connectors on request

Standard models

Model code	Part No.	
WSM06020ZR-01-C-N-24DG	3055535	
WSM06020ZR-01-C-N-230AG	3055533	

Standard in-line bodies

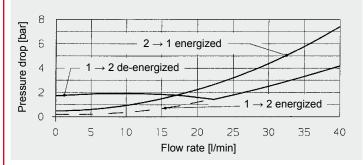
Code	Part No.	Material	Ports	
R06020-01X-01	275266	Steel, zinc-plated	G 3/8	
Other housings on	request			

Seal kits

Code	Material	Part No.
SEAL KIT 06020-NBR	NBR	3119017
SEAL KIT 06020-FKM	FKM	3262477

PERFORMANCE

Measured at $v = 34 \text{ mm}^2/\text{s}$, $T_{oil} = 46 \text{ }^\circ\text{C}$



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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