Up to 350 bar

AC) INTERNATIONAL

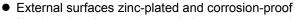
Up to 40 I/min

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

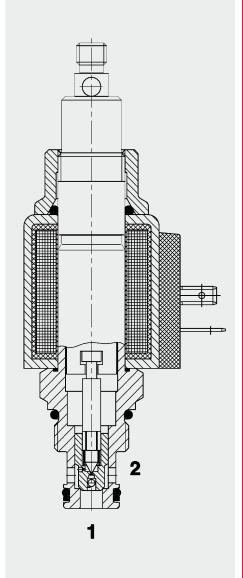
WSM06020ZR-01J

FUNCTION

FEATURES



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



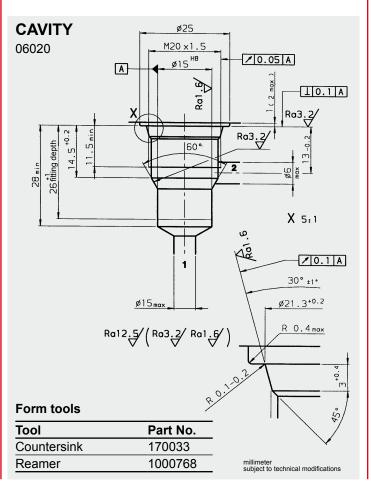
SPECIFICATIONS

Operating pressure:	max. 350 bar		
Nominal flow:	max. 40 l/min		
Internal leakage:	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 max. +60 °C		
Manual override:	The pull-force required is dependent on the operating pressure max. approx. 150 N The max. permitted pull-force is 180 N		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 10 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:	06020		
Weight:	Valve complete 0.36 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		
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% 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. Flow is permitted from port 1 to port 2. When energized the valve allows flow in both directions.

ø23.6

millimeter subject to technical modifications



MODEL CODE

WSM06020ZR - 01 J - C - N - 24 DG Basic model -Directional poppet valve, metric = standard 01 Manual override = pull-type, spring-return manual override **Body and ports** = cartridge only Seals = NBR (standard) N V = FKM Coil voltage DC voltages 12 = 12 V DC

= 24 V DC

AC voltages (bridge rectifier built into the coil)

= 115 V AC 230 = 230 V AC

Other voltages on request

Coil connectors (type 40-1836)

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.	
WSM06020ZR-01J-C-N-24DG	3123457	
WSM06020ZR-01J-C-N-230AG	3123561	

Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R06020-01X-01	275266	Steel, zinc-plated	G 3/8	420 bar

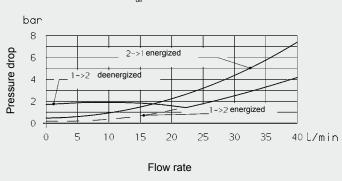
Other bodies on request

Seal kits

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

PERFORMANCE

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



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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