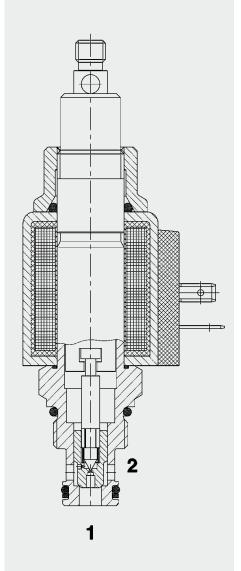
## **ACINTERNATIONAL**

# Up to 40 I/min Up to 350 bar

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

WSM06020Z-01J

#### **FUNCTION**



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. 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 1. Flow from port 1 to 2 is prevented.

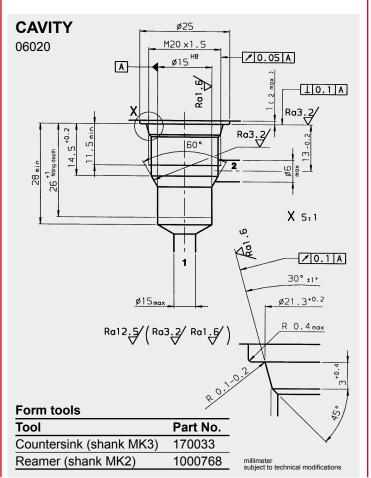
#### **FEATURES**

- With spring return manual override e.g. for cable-pull
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- 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		
mema roakago.	(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. 10 mm²/s to max. 420 mm²/s		
Filtration:	Class 21/19/16 according to ISO 4406 or		
	cleaner		
MTTF <sub>d</sub> :	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		
Place Collabora	Coil only 0.19 kg		
Electrical data:	DO and and I AO and an artist of the I		
Type of voltage:	DC solenoid, AC voltage is rectified		
Current draw at 20 °C:	using a 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% of the		
oon daty raining.	nominal voltage at 60 °C ambient		
	temperature		
Manual override:	The pull-force required is dependent on		
	the operating pressure – max. approx. 150		
	N.		
	The max. permitted pull-force is 180 N.		
Response time:	Energized: approx. 35 ms		
	De-energized: approx. 50 ms		
Coil type:	Coil40-1836		

millimeter subject to technical modifications



#### **MODEL CODE**

WSM06020Z - 01 J - C - N - 24 DG Basic model -Directional poppet valve, metric Type -01 = standard Manual override = pull-type, spring-return manual override Body and ports\* С = cartridge only Seals -= NBR (standard) Ν = FKM

## Coil voltage

DC voltages

= 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 EN 175301-803 DK = KOSTAL threaded connection M27x1

DL = 2 flying leads, 457 mm long, 0.75 mm<sup>2</sup>

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.
WSM06020Z-01J-C-N-24DG	3123455
WSM06020Z-01J-C-N-230AG	3123456

#### \* Standard in-line bodies

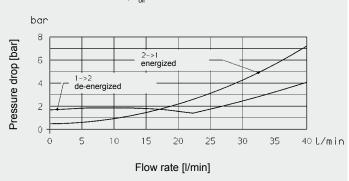
Code	Part No.	Material	Ports	Pressure
R06020-01X-01	275266	Steel, zinc-plated	G 3/8	420 bar
For other connection housings, see brochure no. E 5.252.				

#### 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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