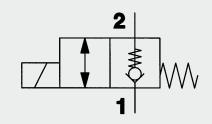
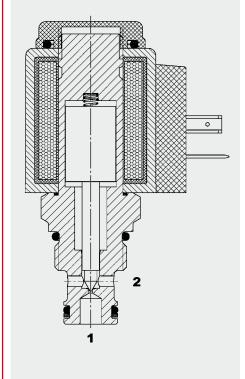
# DAC INTERNATIONAL



Up to 3 I/min Up to 350 bar

### **FUNCTION**



The WSM06020Z-70 is suitable for particularly low flow rates and is specially designed for use as a pilot

When the solenoid coil is not energized, the valve is closed from port 2 to port 1. In the opposite direction, the valve opens at a pressure differential of approx. 60 bar. When the solenoid coil is energized, the valve allows flow in both directions.

## 2/2 Solenoid Directional Valve **Poppet Type, Direct-Acting Normally Closed** Metric Cartridge - 350 bar

WSM06020Z-70

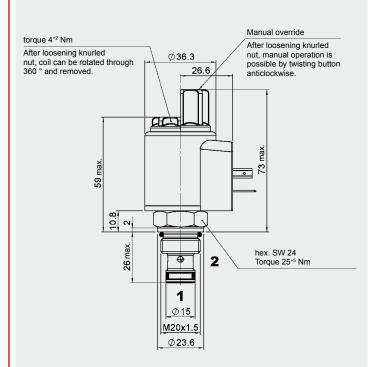
#### **FEATURES**

- Version -70 for particularly low flow rates
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components 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

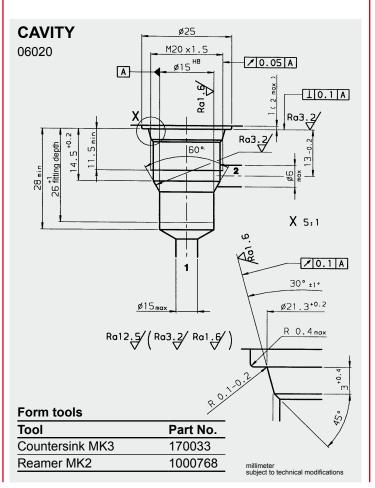
#### **SPECIFICATIONS**

Operating pressure:	max. 350 bar		
Nominal flow:	max. 3 l/min		
Internal leakage:	Leakage-free		
Media operating temperature range:	min20 °C to	min20 °C to max. +100 °C	
Ambient temperature range:	min20 °C to	min20 °C to max. +60 °C	
Operating fluid:	Hydraulic oil t	Hydraulic oil to DIN 51524 Part 1 and 2	
Viscosity range:	min. 7.4 mm²/s to max. 420 mm²/s		
Filtration:	Class 21/19/1 cleaner	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	No orientation restrictions	
Materials:	Valve body:	high tensile steel	
	Poppet:	hardened and ground steel	
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)	
	Back-up rings	: PTFE	
Cavity:	06020		
Weight:	Complete val	ve: 0.33 kg	
	Coil only	0.19 kg	
Electrical data:	1		
Type of voltage:	DC solenoid, using a bridge	AC voltage is rectified e rectifier built into the coil	
Current draw at 20 °C:	1.5 Å at 12 V DC 0.8 Å 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:	On:	approx. 20 ms	
	Off:	approx. 30 ms	
Coil type:	Coil40-18		
	30	<del></del>	

#### **DIMENSIONS**



millimeter subject to technical modifications



## **MODEL CODE**

WSM06020Z - 70 M - C - N - 24 DGBasic model Directional poppet valve, metric Ausführung = Standard (for particularly low flow rates) Manual override no details = without manual override M = manual override **Body and ports** = cartridge only Combinations with body on request Seals = NBR (standard)

= 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 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-70-C-N-12DG	3581216
WSM06020W-70-C-N-24DG	3534256
WSM06020Z-70-C-N-230AG	3534257
Other models on request	

#### Standard in-line bodies

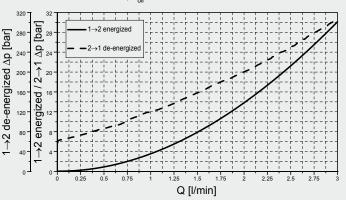
Code	Part No.	Material	Ports	Pressure
R06020-01X-01	275266	Steel, zinc-plated	G 3/8	420 bar

#### Seal kits

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

#### PERFORMANCE

Measured at  $v = 33 \text{ mm}^2/\text{s}$ ,  $T_{oil} = 46 ^{\circ}\text{C}$ 



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.

**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