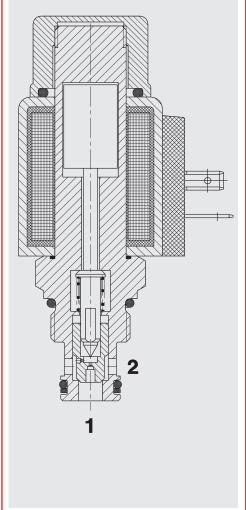


up to 350 bar

### FUNCTION



When de-energized, there is free flow through the valve from port 2 to 1. Flow in the reverse direction is not permitted. When the solenoid coil is energized, the valve is closed from port 2 to port 1. In the reverse direction there is free flow through the valve when the hydraulic force on the piston exceeds the solenoid force (approx. 9 to 20 bar). <u>Please mind</u>: In pilot operated solenoid valves, shift performance and response times depend i.a. very much on pressure drop and volume flow during actuation. **2/2 Solenoid Directional Valve Poppet Type, Pilot-Operated Normally Open Metric Cartridge – 350 bar** WSM06020Y-01

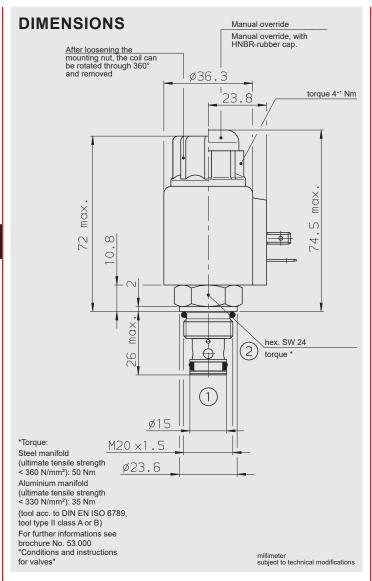
### FEATURES

- Excellent switching performance by high power HYDAC solenoid
- Coil seals protect the solenoid system
- Compact design enables space-saving installation in connection housings and control blocks
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1.000 h Salt spray test)

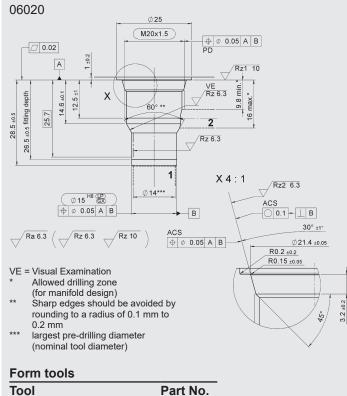
## SPECIFICATIONS\*

Operating pressure:	max. 350 bar		
Nominal flow:	max. 40 l/min		
Internal leakage:	Leakage-free		
	max. 5 drops/min (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, 2 and 3		
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 - 1200 years, according to DIN EN ISO 13849-1		
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: 0.33 kg		
	Coil only: 0.19 kg		
Electrical data			
Type of voltage:	<u>DC</u> : direct current solenoid <u>AC</u> : alternating current solenoid with 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. 50 ms		
	de-energized: approx. 35 ms		
	de-energized: approx. 35 ms substantially extended response times possible at other operating conditions		

\* see "Conditions and instructions for valves" in brochure 53.000



# CAVITY



#### **MODEL CODE** <u>WSM06020Y - 01 M - C - N - 24 DG</u>

Basic model Directional poppet valve, metric

**Type** 01 = standard

Manual override

No details = without manual override = manual override Μ

## 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 V AC 230

Other voltages on request

#### Coil connectors (type 40-1836)

- DC: DG = DIN connector to EN175301-803
  - DK = Kostal threaded connection M27 x 1
  - DL = 2 flying leads 475 mm long, 0.75 mm<sup>2</sup>
  - DN = Deutsch connector type A, 2 pole, axial DT = AMP Junior Timer, 2 pole, radial

AC: AG = DIN connector type A to EN175301-803

Other connectors on request

#### Standard models

Model code	Part No.
WSM06020Y-01-C-N-24DG	3056077
WSM06020Y-01-C-N-230AG	3056075

#### Standard in-line bodies

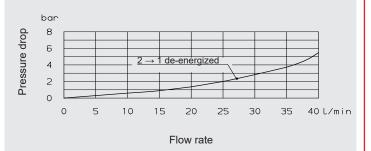
Code	Part No.	Material	Ports	Pressure
R06020-01X-01	275266	Steel, zinc-plated	G3/8"	350 bar
For other connecti	ion housings, s	ee brochure no. E 5.252		

#### Seal kits

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

## **TYPICAL 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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2 HYDAC

170033 1000768 millimeter subject to technical modifications