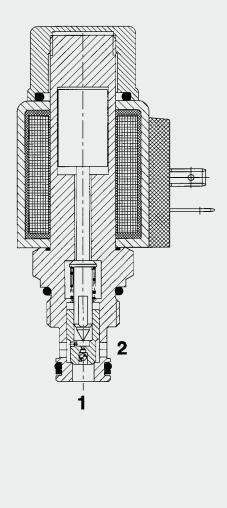


Up to 40 l/min Up to 350 bar

# **FUNCTION**



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

WSM06020YR-01

# **FEATURES**

- Excellent switching performance by high power HYDAC solenoid
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- External surfaces zinc-plated and corrosion-proof
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Low pressure drop due to CFD optimized flow path

# **SPECIFICATIONS**

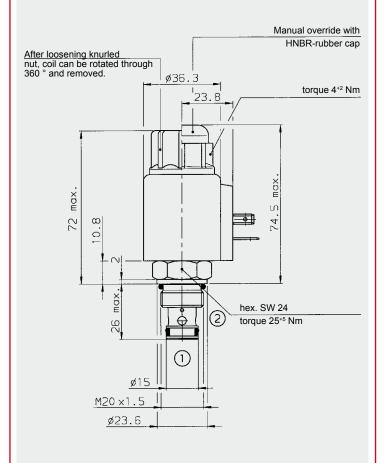
Operating pressure:	max. 350 bar			
Nominal flow:	max. 40 l/min			
Internal leakage:	Leakage-free			
	(max. 5 drops ≏ 0,25 cm³/min at 350 bar)			
Media operating temperature range:	min20 °C to max. +100 °C			
Ambient temperature range:	min20 °C to max. +60 °C			
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2			
Viscosity range:	min. 10 mm <sup>2</sup> /s to max. 420 mm <sup>2</sup> /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 Coil only	0.33 kg 0.19 kg		
Electrical data:		0		
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: de-energized:	approx. 50 ms		
Coil type:	Coil40-1836			

When the solenoid coil is de-energized, the valve is open in both directions. 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

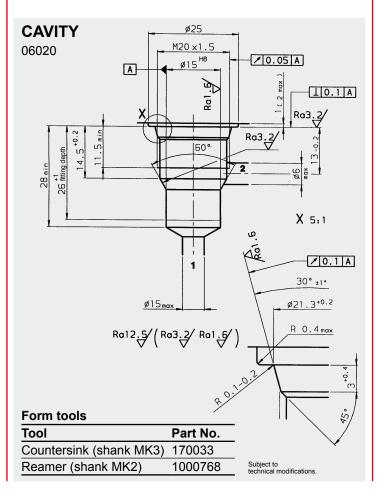
force (approx. 9 to 20 bar).

E **5.948**.2/01.13

# DIMENSIONS



Subject to technical modifications



# MODEL CODE

WSM06020YR - 01 M - C - N - 24 DG

Basic model -Directional poppet valve, metric

Type 01 = standard

Manual override No details = without manual override

Μ = manual override

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 = 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, 0.75 mm<sup>2</sup> DN = Deutsch connector, axial AC: AG = DIN connector to EN175301-803

Other connectors on request

### Standard models

Model code	Part No.
WSM06020YR-01-C-N-24DG	3056228
WSM06020YR-01-C-N-230AG	3056226

#### \*Standard in-line bodies

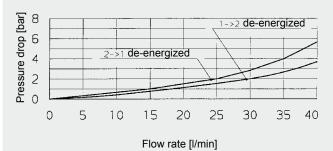
Code	Part No.	Material	Ports	Pressure
R06020-01X-01	275266	Steel, zinc-plated	G 3/8	max. 420 bar
For other line boo	lies, see broc	hure no. E 5.252.		

#### Seal kits

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

# PERFORMANCE

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



NOTE

The information in this brochure relates to the For applications or 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

**HYDAC** | 365