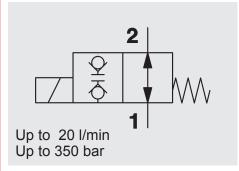


YDAC INTERNATIONAL

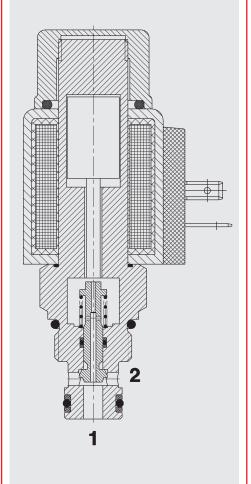


2/2 Solenoid Directional Valve **Poppet Type, Direct-Acting Normally Open** Metric Cartridge - 350 bar WSM06020V-01

FEATURES

- 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
- Low pressure drop due to CFD optimized flow path

FUNCTION

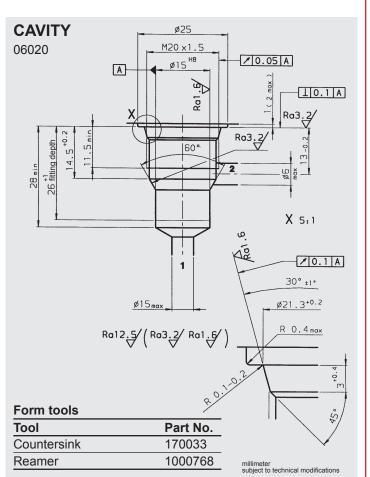


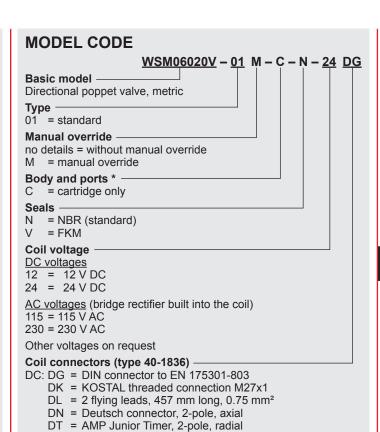
SPECIFICATIONS

On a rational resource	250 hor		
Operating pressure:	max. 350 bar		
Nominal flow:	max. 20 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 +60 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	10 to 420 mm ² /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 0.33 kg		
· · · · · · · · · · · · · · · · · · ·	Coil only 0.19 kg		
Electrical data	<u> </u>		
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. 40 ms		
•	De-energized: approx. 60 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 in both directions.

DIMENSIONS Manual override, with After loosening knurled nut, coil can be rotated through 360 $^{\circ}$ and HNBR-rubber cap removed. torque 4⁺¹ Nm ø36. 75. hex. SW 24 Torque 25⁺⁵ Nm <u>ø</u>15 M20 x1.5 _ø23.6





Standard models

Model code	Part No.
WSM06020V-01-C-N-24DG	3135462
WSM06020V-01-C-N-230AG	3135461

AC: AG = DIN connector to EN 175301-803

* Standard in-line bodies

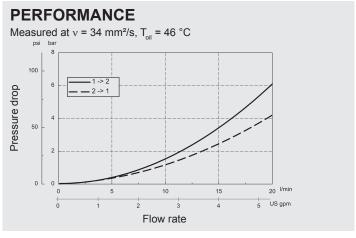
Other connectors on request

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

Seal kits

millimeter subject to technical modifications

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



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