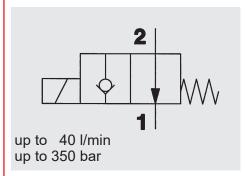


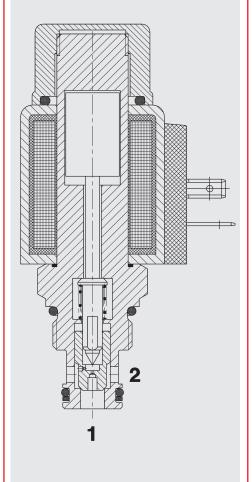
(DAY) INTERNATIONAL



2/2 Solenoid Directional Valve **Poppet Type, Pilot-Operated Normally Open** Metric Cartridge - 350 bar

WSM06020Y-01

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).

Please mind: In pilot operated solenoid valves, shift performance and response times depend i.a. very much on pressure drop and volume flow during actuation.

FEATURES

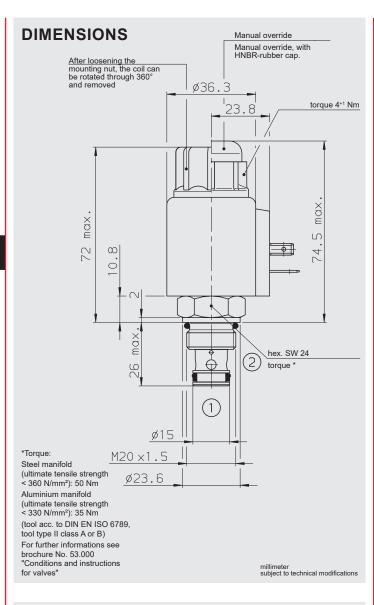
- Excellent switching performance by high power HYDAC solenoid
- Coil seals protect the solenoid system
- Compact design enables space-saving installation in connection housings and control blocks
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1.000 h Salt spray test)

SPECIFICATIONS*

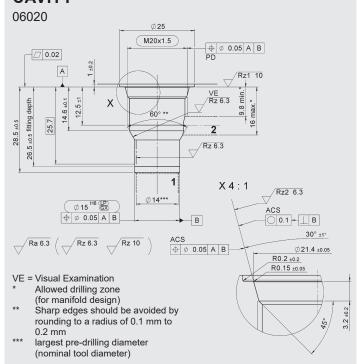
Operating pressure:	max. 350 bar	
Nominal flow:	max. 40 l/min	
Internal leakage:	Leakage-free max. 5 drops/min (0.25 cm³/min) at 350 bar	
Media operating temperature range:	min20 °C to max. +100 °C	
Ambient temperature range:	min20 °C to max. + 60 °C	
Operating fluid:	Hydraulic oil to DIN 51524 part 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 _d :	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:	DC: direct current solenoid AC: 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 substantially extended response times possible at other operating conditions	
Cail france	Coil40-1836	
Coil type:	Coll40-1836	

^{*} see "Conditions and instructions for valves" in brochure 53.000

EN **5.947**.4/11.18



CAVITY

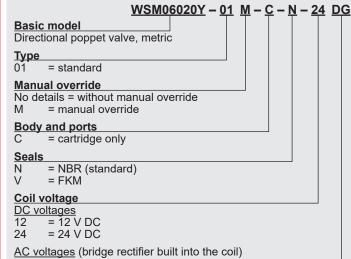


Form tools

1 01111 10010		
Tool	Part No.	
Countersink (shank MK3)	170033	
Reamer (shank MK2)	1000768	millimeter

technical modifications

MODEL CODE



= 230 V AC Other voltages on request

= 115 V AC

230

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 mm² 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

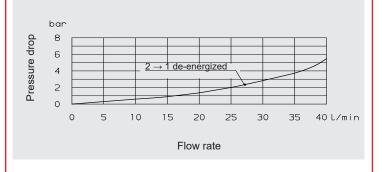
For other connection housings, see brochure no. E 5.252.

Seal kits

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

TYPICAL 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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