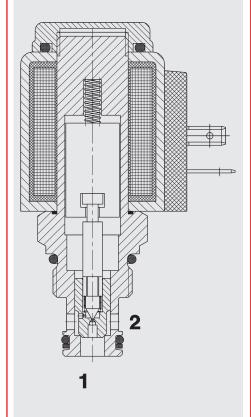
DAO INTERNATIONAL

up to 40 l/min up to 350 bar

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

WSM06020Z-01

FUNCTION



When the solenoid coil is not energized, the valve is closed from port 2 to port 1. In the reverse direction there is free flow through the valve. The valve piston opens at a differential pressure of approx. 1.5 bar (check function). When energized, there is free flow through the valve from port 2 to port 1. Return flow from port 1 to 2 is prevented. 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.

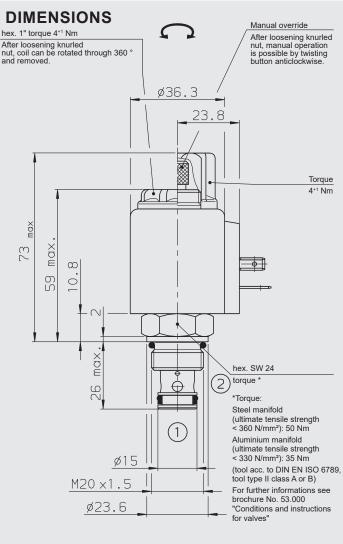
FEATURES

- 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)	
	Dook up ringer	PTFE	
	Back-up rings:	FIFE	
	Coil:	steel / polyamide	
Cavity:		=	
Cavity: Weight:	Coil:	steel / polyamide	
	Coil: 06020	steel / polyamide	
	Coil: 06020 Valve complete:	steel / polyamide 0.33 kg	
Weight:	Coil: 06020 Valve complete: Coil only: DC: direct curre AC: alternating	0.33 kg 0.19 kg	
Weight: Electrical data	Coil: 06020 Valve complete: Coil only: DC: direct curre AC: alternating	o.33 kg o.19 kg nt solenoid current solenoid with a fier built into the coil	
Weight: Electrical data Type of voltage:	Coil: 06020 Valve complete: Coil only: DC: direct curre AC: alternating obridge rectif	o.33 kg o.19 kg nt solenoid current solenoid with a fier built into the coil	
Weight: Electrical data Type of voltage: Current draw at 20 °C:	Coil: 06020 Valve complete: Coil only: DC: direct curre AC: alternating obridge rectif 1.5 A at 12 V DO 0.8 A at 24 V DO	on the steel / polyamide 0.33 kg 0.19 kg Introduction to the solution of the	
Weight: Electrical data Type of voltage: Current draw at 20 °C: Voltage tolerance: Coil duty rating: Response time:	Coil: 06020 Valve complete: Coil only: DC: direct curre AC: alternating obridge rectiff 1.5 A at 12 V DO 0.8 A at 24 V DO ± 15 % of the not of the nominal v	on the steel / polyamide 0.33 kg 0.19 kg Introduction to the solution of the	
Weight: Electrical data Type of voltage: Current draw at 20 °C: Voltage tolerance: Coil duty rating:	Coil: 06020 Valve complete: Coil only: DC: direct curre AC: alternating bridge rectiff 1.5 A at 12 V DO 0.8 A at 24 V DO ± 15 % of the not continuous up to the nominal v 60 °C ambient to	steel / polyamide 0.33 kg 0.19 kg nt solenoid current solenoid with a fier built into the coil cominal voltage o max. 115 % oltage at emperature	
Weight: Electrical data Type of voltage: Current draw at 20 °C: Voltage tolerance: Coil duty rating: Response time:	Coil: 06020 Valve complete: Coil only: DC: direct curre AC: alternating or bridge rectii 1.5 A at 12 V DO 0.8 A at 24 V DO ± 15 % of the not continuous up to of the nominal v 60 °C ambient to energized: de-energized: substantially extpossible at othe	o.33 kg o.19 kg nt solenoid current solenoid with a fier built into the coil cominal voltage o max. 115 % oltage at emperature approx. 35 ms	
Weight: Electrical data Type of voltage: Current draw at 20 °C: Voltage tolerance: Coil duty rating: Response time:	Coil: 06020 Valve complete: Coil only: DC: direct curre AC: alternating or bridge rectiff. 1.5 A at 12 V DO 0.8 A at 24 V DO ± 15 % of the not continuous up to of the nominal vector of the energized: de-energized: substantially extended at othe Coil40-1836	o.33 kg o.19 kg Int solenoid current solenoid with a fier built into the coil common to the coil coil coil coil coil coil coil coil	

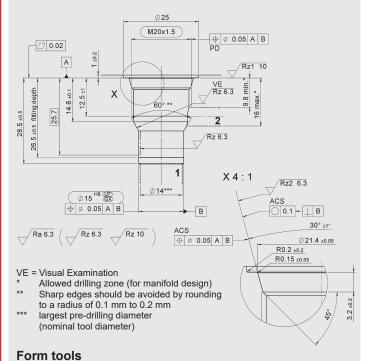
EN **5.943**.4/11.18



millimeter subject to technical modifications

CAVITY

06020

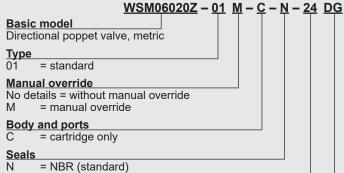


Part No.

1000768

170033

MODEL CODE



= FKM

Coil voltage

DC voltages 12 = 12 V DC = 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 type A 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 mm²

DN = Deutsch connector, axial

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

Other connectors on request

Standard models

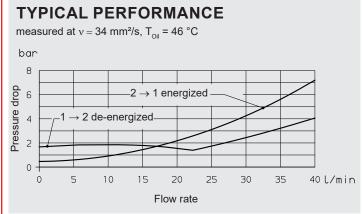
Model code	Part No.
WSM06020Z-01-C-N-24DG	3055428
WSM06020Z-01-C-N-230AG	3055416

Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R06020-01X-01	275266	Steel, zinc-plated	G3/8"	350 bar
other models on re	auest			

Seal kits

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



millimeter subject to technical modifications

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: valves@hydac.com

Countersink (shank MK3)

Reamer (shank MK2)

Tool