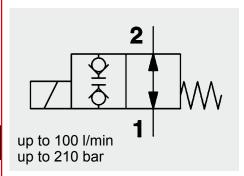
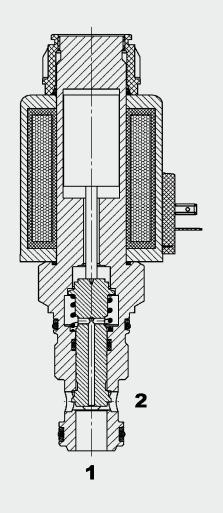


DAC) INTERNATIONAL



2/2 Solenoid Directional Valve **Poppet Type, Direct Acting Normally Open** Metric Cartridge – 210 bar WSM16520V

FUNCTIONING



The WSM16520V is a direct acting directional poppet valve – in the normal position, the valve is open in both directions. When the solenoid is energized, the valve closes in both directions.

Caution: No orifice is permitted just before port 1. Only "diffuser orifices" may be used.

FEATURES

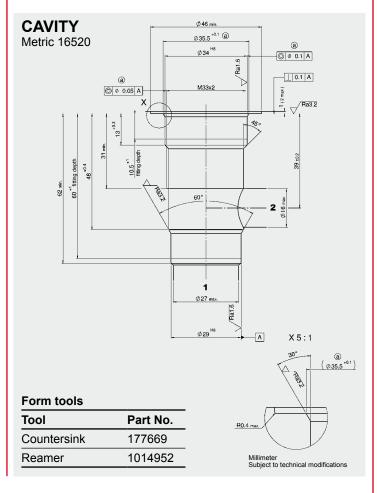
- Main application is in fast-switching applications e.g. in injection moulding machines
- High flow with low ∆p
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Excellent stability throughout the entire flow range
- Excellent dynamic performance
- Coil seals protect the solenoid system
- Low pressure drop due to CFD optimized flow path

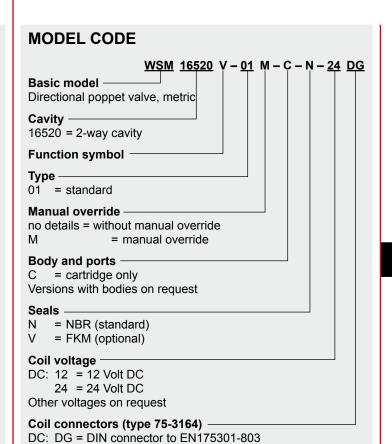
SPECIFICATIONS

Operating pressure:	max. 210 bar	
Nominal flow:	max. 100 l/min	
Internal leakage:	Leakage-free	
Media operating temperature range::	min20 °C to max. +100 °C	
Ambient temperature range:	min20 °C to max. +50 °C	
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2	
Viscosity range:	min. 7.4 mm²/s to max. 420 mm²/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: high tensile steel Piston: hardened and ground steel	
	Seals: NBR (standard) FKM (optional)	
	Back-up rings: PTFE	
Cavity:	16520	
Weight:	Valve complete 2.05 kg Coil only 1.05 kg	
Electrical data:		
Type of voltage:	DC solenoid, AC voltage can be rectified using a bridge rectifier, e.g. Z4 (not supplied)	
Current draw at 20 °C:	2.9 A at 12 V DC; 1.45 A at 24 V DC	
Voltage tolerance:	± 15% of nominal	
Coil duty rating:	Continuous up to max. 115% of the nominal voltage at 50 °C ambient temperature	
Response time:	On: approx. 80 ms Off: approx. 80 ms	
Coil type:	Coil –75-3164	

DIMENSIONS Ø64 37.5 Torque 6 +2 Nm After loosening the mounting nut, the coil can be rotated through 360° and removed 126 max. 75 23 hex SW41 torque 150 +20 Nm ₩ 2 Ø29 M33x2 Ø39

Millimeter Subject to technical modifications





Standard models

Model code	Part No.
WSM16520V-01-C-N-12DG	3432835
WSM16520V-01-C-N-24DG	3134213

DT = AMP Junior Timer, 2-pole, radial

Other models on request

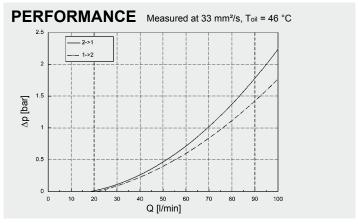
Other connectors on request

Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R16520-01X-01	3132532	Steel, zinc-plated	1 BSP	420 bar

Seal kits

Code	Part No.
SEAL KIT WSM16520 -NBR	3286856



NOTE

The information in this brochure relates to the operating conditions and applications described. For applications and operating conditions not described, please contact the proper HYDAC 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