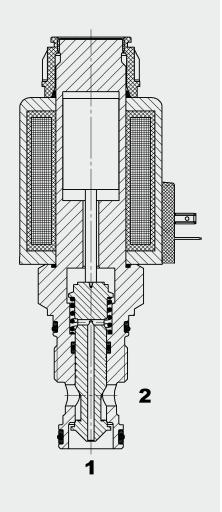
PACINTERNATIONAL

2/2 Solenoid Directional Valve **Poppet Type, Direct Acting** Normally Closed **Metric Cartridge – 210 bar** WSM16520W

FUNCTION



The WSM16520W is a direct acting directional poppet valve – in the normal position, the valve is closed in both directions. When the solenoid is energized, the valve opens and allows flow in both

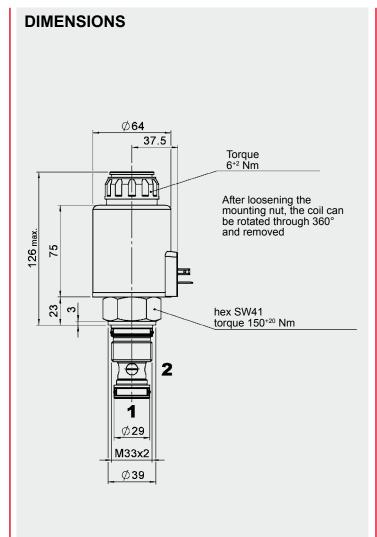
Caution: No orifice is permitted just before port 1. Only "diffuser orifices" may be used.

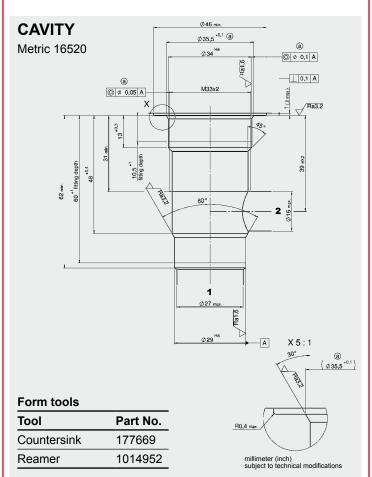
FEATURES

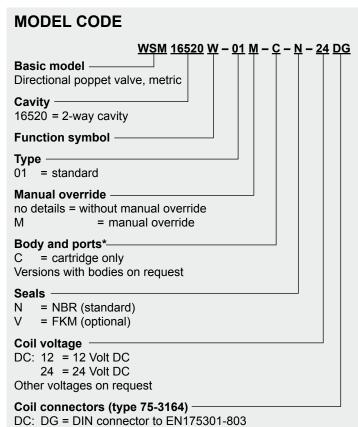
- Main application is in fast-switching applications e.g. in injection moulding machines
- High flow with low Δp
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Excellent stability throughout the entire 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: hardened steel Piston: hardened and ground steel Seals: NBR (standard) FKM (optional)		
	FKM (optional) Back-up rings: PTFE		
Cavity:	Metric 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. 70 ms Off: approx. 50 ms		
Coil type:	Coil –75-3164		







Standard models

Model code	Part No.
WSM16520W-01-C-N-12DG	3432838
WSM16520W-01-C-N-24DG	3134104

DT = AMP Junior Timer, 2-pole, radial

Other models on request

Other connectors on request

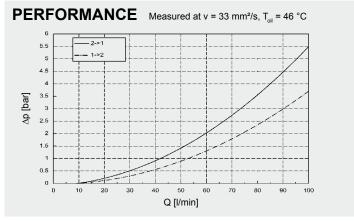
*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R16520-01X-01	3132532	Steel, zinc-plated	1 BSP	350 bar

Seal kits

millimeter (inch) subject to technical modifications

Code	Part No.	
SEAL KIT WSM16520 -NBR	3286856	



NOTEThe 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.

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