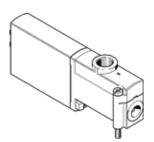
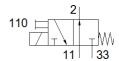
solenoid valve MHP3-MS1H-3/20-1/8 Part number: 525159

FESTO

individual valve, fast switching.





Data sheet

Valve function	Feature	Value
Width Standard nominal flow rate 200 Umin	Valve function	3/2 open, monostable
Standard nominal flow rate Operating pressure MPa Operating pressure Operating pressure Design structure Pressure-relieved poppet valve Type of reset mechanical spring Protection of conformity) To EU directive for EMC In accordance with EU RoHS directive To UK RoHS instructions Nominal size To UK RoHS instructions Nominal size To UK RoHS instructions Nominal size To UK signification Note on grid dimension Direction Sealing principle Assembly position Any Assembly position Any Any Assembly position Any Any Anual override Type of piloting Flow direction To UK are strictions Direction To UK are strictions Direction To UK assembly position Any Any Anual override Type of piloting Additional functions Spark arresting Reduction of holding current Protective circuit Prot	Type of actuation	electrical
Operating pressure MPa Operating pressure Operating pressure Operating pressure Operating pressure Pressure-relieved poppet valve Protection class IP65 Authorisation RCM Mark CUL us - Recognized (OL) CE mark (see declaration of conformity) To EU directive for EMC in accordance with EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC In accordance with EU RoHS directive UKCA marking (see declaration of conformity) To UK RoHS instructions Nominal size 3 mm Grid dimension Nominal size 3 mm Grid dimension Minimum distance between the valves is 5 mm Exhaust-air function Exhaust-air function Exhaust-air function Saling principle Soft Assembly position Any Manual override Pushing Type of piloting direct Flow direction Overlap Underlap Polarity protected Bipolar Additional functions Spark arresting Reduction of holding current Protective circuit Operating pressure, reversible -0.09 0.1 MPa -0.9 1 bar -1.3.05 14.5 psi Maximum switching frequency 228 Ptz Switching time off 2.8 ms Switching time off 2.8 ms Switching time off 3.2 ms -0.9 1 bar -0.9 1 ba	Width	14 mm
Design structure	Standard nominal flow rate	200 l/min
Design structure	Operating pressure MPa	-0.09 0.8 MPa
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Exhaust-air function Sealing principle Assembly position Any Manual override Type of piloting Type of piloting Flow direction Overlap Polarity protected Additional functions Spark arresting Reduction of holding current Protective circuit Operating pressure, reversible Operating frequency Switching time off Switching time off Switching time off Tolerance for Switching time OFF Tolerance for Switching time at 1 Hz and above Duty compressed air in accordance with ISO8573-1:2010 [7:4:4] through the soft Compressed air in accordance with ISO8573-1:2010 [7:4:4]	Note on grid dimension	Minimum distance between the valves is 5 mm
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Type of piloting direct Flow direction reversible with restrictions Overlap Underlap Polarity protected Bipolar Additional functions Spark arresting Reduction of holding current Protective circuit Operating pressure, reversible -0.09 0.1 MPa -0.9 0.1 MPa -0.9 1 bar -13.05 14.5 psi Maximum switching frequency 280 Hz Switching time off 2.8 ms Switching time on 2.3 ms Tolerance for Switching time OFF +10 %/-50 % Tolerance for Switching time at 1 Hz and above 0.2 ms Duty cycle 100 % Characteristic coil data 24 V DC: low-current phase 1.6 W, high-current phase 6.5 W Permissible voltage fluctuation +/- 10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4]	<u> </u>	Any
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Flow direction reversible with restrictions Overlap Polarity protected Additional functions Spark arresting Reduction of holding current Protective circuit Operating pressure, reversible Operating pressure, reversing Reduction of holding current Protective circuit Operating pressure, reversing Reduction of holding current Protective circuit Operating pressure, reversing Reduction of holding current Protective circuit Operating pressure, reversing Reduction of holding current Protective circuit Operating pressure, reversing Reduction of holding current Protective circuit Operating pressure, reversing Reduction of holding current Protective circuit Operating pressure, reversing Reduction of holding current Protective circuit Operating pressure, reversing Reduction of holding current Protective circuit Operating pressure, reversing Reduction of holding current Protective circuit Operating pressure, reversing Reduction of holding current Protective circuit Operating pressure, reversing Reduction of holding current Protective circuit Operating pressure, reversible Operating pre	Type of piloting	-
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Reduction of holding current Protective circuit Operating pressure, reversible -0.09 0.1 MPa -0.9 1 bar -13.05 14.5 psi Maximum switching frequency 280 Hz Switching time off 2.8 ms Switching time on 7.3 ms Tolerance for Switching time OFF +10 %/-50 % Tolerance for Switching time at 1 Hz and above Duty cycle 100 % Characteristic coil data 24 V DC: low-current phase 1.6 W, high-current phase 6.5 W Permissible voltage fluctuation Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4]		Spark arresting
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Permissible voltage fluctuation +/- 10 % Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4]		
Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4]		, , , , , , , , , , , , , , , , , , , ,
		'
operation)		Lubricated operation possible (subsequently required for further



Feature	Value
Vibration resistance	Transport application test at severity level 2 in accordance with FN
	942017-4 and EN 60068-2-6
Restriction ambient and medium temperature	related to switching frequency
Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Medium temperature	-5 40 °C
Ambient temperature	-5 40 °C
Product weight	120 g
Electrical connection	2-pin
	Plug
Mounting type	On PR manifold
Pneumatic connection, 11	Sub-base
Pneumatic connection, port 2	G1/8
Pneumatic connection, 33	Sub-base
Materials note	Conforms to RoHS
Material seals	HNBR
	NBR
Material housing	Die-cast zinc, coated
Material screws	Galvanised steel