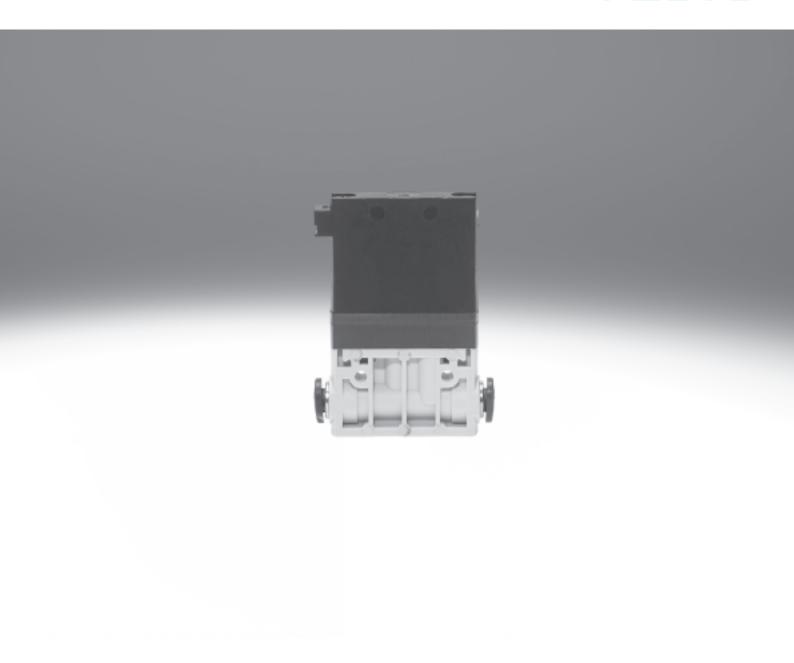
Solenoid valves MHJ, fast-switching valves, NPT

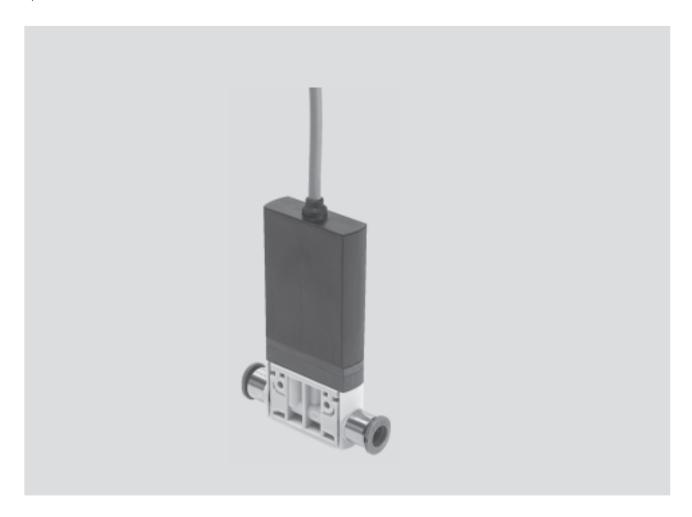
FESTO



Solenoid valves MHJ, fast-switching valves, NPT



Key features



Innovative

- Individual electrical connection via moulded-in connecting cable with switching electronics integrated in the valve
- Response times of less than one millisecond
- Signal control range 3 ... 30 V DC

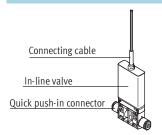
Reliable

- Reliability of service thanks to valves that can be replaced quickly and easily
- No electrical plug connections thanks to integrated control electronics
- Up to 7 billion switching cycles

Solenoid valves MHJ, fast-switching valves, NPT Key features

FESTO

MHJ



In-line valve

- Integrated quick push-in connector
- Electrical connection via moulded-in connecting cable

Integrated control electronics

- Compact design
- Quick installation

Solenoid valves MHJ, fast-switching valves, NPT Product range overview



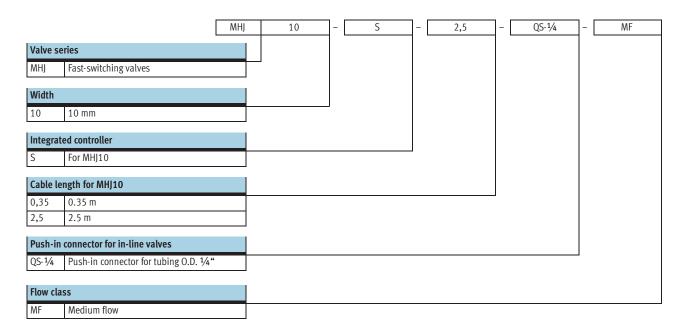
Function		Circuit symbol	Design	Response time ¹⁾		Operating voltage [V DC] → Page/Inte	
				Off	On		
2/2-way valve MF = Standard nominal flow rate 100 l/min							
		12 1	In-line valve	-	-	24	7

1) Response times are dependent on pressure and voltage

Mounting options							
Design		In-line valve					
MHJ with moulded-in connecting cable	MHJ with moulded-in connecting cable						
	Direct mounting		•				

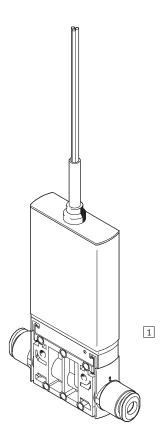
Solenoid valves MHJ, fast-switching valves, NPT Type codes







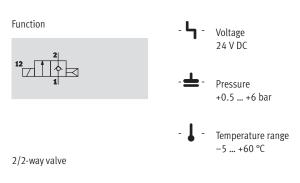
Individual valve



	Туре	Brief description	→ Page/Internet
1 In-line valve	MHJ10U	2/2-way solenoid valve	7

Solenoid valves MHJ, fast-switching valves, NPT Technical data – In-line valve, 2/2-way valves







General technical data						
Valve function	2/2-way, closed, single solenoid					
Design	Design					
Sealing principle	Hard					
Service life in billions of switching cycles ¹⁾	5					
Actuation type		Electric				
Type of control		Direct				
Direction of flow	Non-reversible					
Mounting position		Any				
Width	[mm]	10 ²⁾				
Grid dimension	[mm]	10.5				
Standard nominal flow rate	[l/min]	100				
C value	[l/sbar]	0.4				
b value	0.38					
Type of mounting		In-line installation or via through-holes				
Max. tightening torque for the mounting screws	0.7					
Pneumatic connection 1 and 2	QS-1/4					
Product weight	[g]	40				

- The long service life of the valves can only be achieved with the "hard" sealing principle, which, however, results in minor leakage when the valve is closed.
 Min. permitted grid dimension 10.5 mm

Operating and environmental conditions						
Operating medium		Filtered compressed air, unlubricated, grade of filtration 40 µm				
Operating pressure	[bar]	+0.5 +6				
Ambient temperature	[°C]	-5 +60				
Temperature of medium	[°C]	-5 +60				
Corrosion resistance class CRC		2 ¹⁾				
Certification		RoHS-compliant				

¹⁾ Corrosion resistance class 2 according to Festo standard 940 070 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Solenoid valves MHJ, fast-switching valves, NPT Technical data – In-line valve, 2/2-way valves

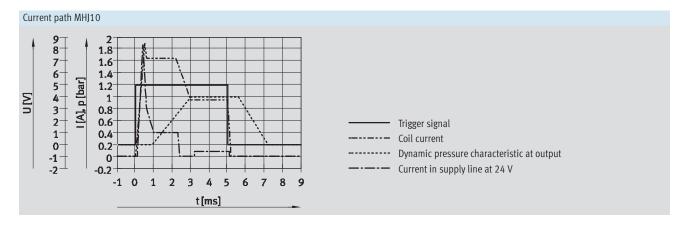


Electrical data				
Operating voltage		[V DC]	24 ±10% = 21.6 26.4 ¹⁾	
Control signal range		[V DC]	3 30	
Output	Low-current phase	[W]	2	
Output	High-current phase	[W]	7	
Protection class to EN 60529			IP65	
Duty cycle [%]			100 ²⁾	
Electrical connection			3-wire cable	
CE mark			To EU EMC Directive ³⁾	

- For the switching operation, the current limiter, if available, must be set to at least 1.7 A.
 Air must flow through the valve continuously.
 Max. permissible cable length 2.5 m.

Maximum switching frequency	Maximum switching frequency [Hz] 1,000 ²⁾						
maximum switching requercy		[112]	1,000				
Response times [ms]							
At 24 V DC and 0.5 bar	On		0.8				
	Off		0.5				
At 24 V DC and 4 bar	On		0.8				
	Off		0.4				
At 24 V DC and 6 bar	On		0.9				
	Off		0.4				

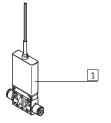
- 2) The ambient temperature must be limited with frequencies in excess of 200 Hz.



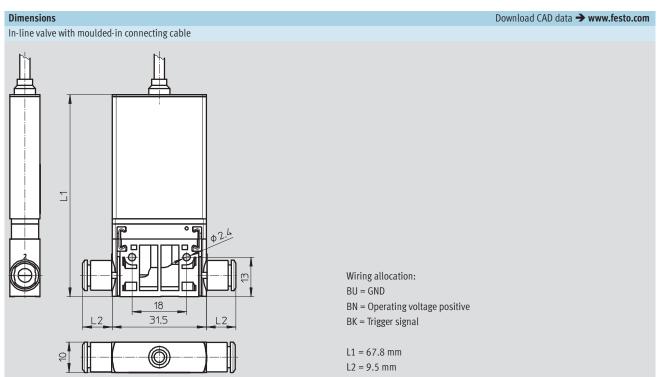
Solenoid valves MHJ, fast-switching valves, NPT Technical data – In-line valve, 2/2-way valves



Materials



1	Housing	PA-reinforced					
-	Seals	HNBR					
-	Screws	Steel					
_	Cable sheath	PUR					



Solenoid valves MHJ, fast-switching valves, NPT



Ordering data				
Designation		Part No.	Туре	
	In-line valve with quick plug connector QS-1/4	Cable length 0.35 m	562172	MHJ10-S-0,35-QS-1⁄4-MF-U
		Cable length 2.5 m	565517	MHJ10-S-2,5-QS- ¹ / ₄ -MF-U