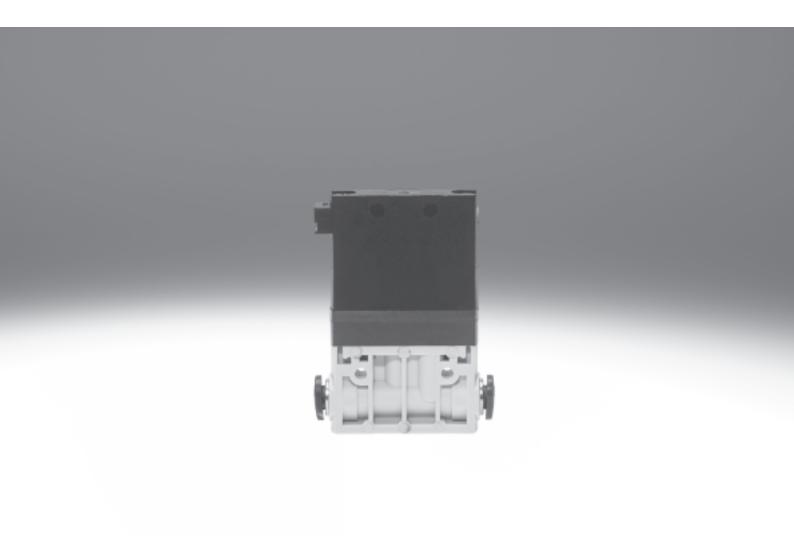
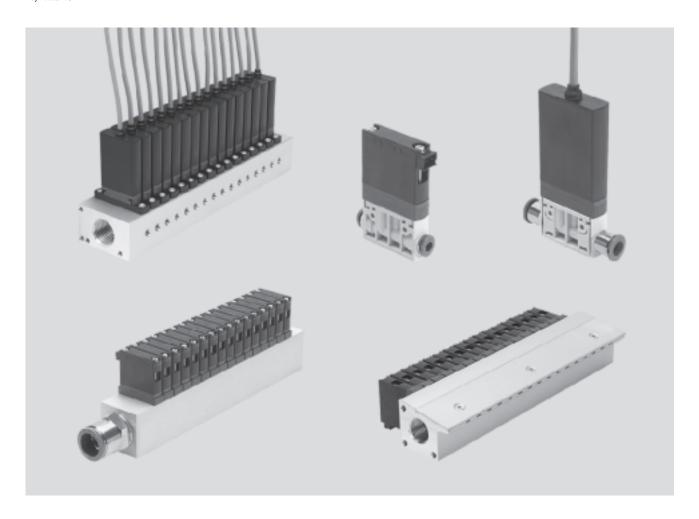
Solenoid valves MHJ, fast-switching valves

FESTO



Key features



Innovative

- Individual electrical connection via connecting cable and square plug sockets with integrated control electronics for MHJ9 or via moulded-in cable for MHJ10, control electronics are contained in the valve
- Manifold rail with air nozzle outlet for MHJ9
- Switching times of less than one millisecond
- $\bullet\,$ Signal control range 3 ... 30 V DC

Versatile

- Modular system offering a range of configuration options
- Identical basic valves for individual valve and manifold assembly
- Flexible air supply with air connection at both ends on the manifold rails
- Actuation of the MHJ9 valves without plug socket with cable MHJ9-KMH subject to consultation with Festo

Reliable

- Reliability of service thanks to valves that can be replaced quickly and easily
- No electrical plug connectors with MHJ10 thanks to integrated control electronics
- Up to 5 billion switching cycles

Easy to mount

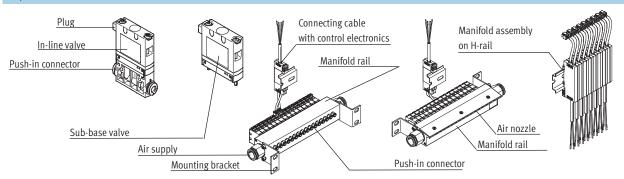
- Solid wall mounting or H-rail mounting of the connecting cables with MHJ9
- Manifold rail for MHJ9 with connecting cable block on H-rail can be mounted directly in the application

Solenoid valves MHJ, fast-switching valves



Key features





In-line valve

- Integrated push-in connector
- Electrical connection IP40
- Modular design

Valve manifold with individual outputs

- Air supply at both ends
- Mounting bracket assembly in 4 directions
- Stable manifold rail

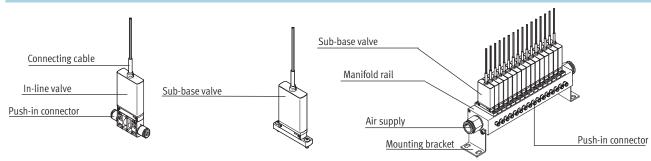
Valve manifold with air nozzles

- Air supply at both ends
- Mounting bracket assembly in 2 directions
- Accessible air ducts

Connecting cable with control electronics for two valves

• Individual mounting or on H-rail

MHJ10



In-line valve

- Integrated push-in connector
- Electrical connection with moulded-in connecting cable, IP65
- Modular design

Valve manifold with individual outputs

- Air supply at both ends
- Stable manifold rail

Mounting bracket assembly in 2 directions

Integrated control electronics

- Compact design
- Quick installation

Solenoid valves MHJ, fast-switching valvesProduct range overview



Function	Design	Operating voltage	Type	Electrical connection	Switchi	ng time ¹⁾	→ Page/
	[V DC]			Off On		Internet	
2/2-way valve	LF = Standard nomina	l flow rate 50 l/min					
2	In-line valve	12 53	MHJ9	Plug	0.9	0.7	8
		24	MHJ10	With moulded-in cable	1	0.8	16
1	Sub-base valve	12 53	MHJ9	Plug	0.9	0.7	8
		24	MHJ10	With moulded-in cable	1	0.8	16
	MF = Standard nomin	al flow rate 100 l/min					
	In-line valve	12 53	MHJ9	Plug	0.4	0.8	8
		24	MHJ10	With moulded-in cable	0.4	0.8	16
	Sub-base valve	12 53	MHJ9	Plug	0.4	0.8	8
		24	MHJ10	With moulded-in cable	0.4	0.8	16
	HF = Standard nomina	al flow rate 160 l/min					
	In-line valve	12 53	MHJ9	Plug	0.5	1	8
		24	MHJ10	With moulded-in cable	0.6	1.2	16
	Sub-base valve	12 53	MHJ9	Plug	0.5	1	8
		24	MHJ10	With moulded-in cable	0.6	1.2	16
	HF/LP = Standard non	ninal flow rate 160 l/min					
	In-line valve	12 53	MHJ9	Plug	0.4	1	8
		24	MHJ10	With moulded-in cable	0.5	1	16
	Sub-base valve	12 53	MHJ9	Plug	0.4	1	8
		24	MHJ10	With moulded-in cable	0.5	1	16

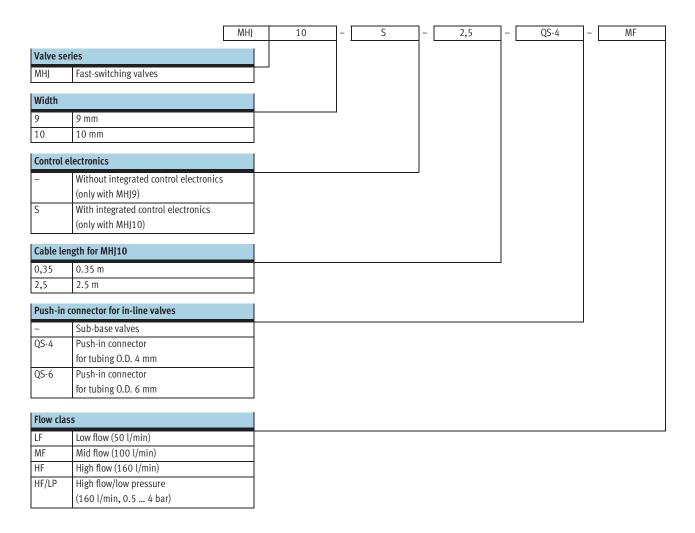
¹⁾ Switching time at 24 V DC and 4 bar

Mounting options			
Design		In-line valve	Sub-base valve
MHJ9 with plug			
	Direct mounting	•	-
	Manifold assembly	-	
MHJ10 with moulded-in cable			
	Direct mounting	•	-
	Manifold assembly	-	•

Solenoid valves MHJ, fast-switching valves



Type codes



Solenoid valves MHJ9, fast-switching valves Peripherals overview



Valve manifold design 5 7

	Туре	Brief description	→ Page/Internet
Manifold rail	MHJ9-P16	With 16 valve positions	23
2 Mounting kit	MHJ-HW1	Consisting of 2 mounting brackets and 4 socket head screws	23
3 Sub-base valve	MHJ9	2/2-way solenoid valve	22
4 Connecting cable	MHJ9-KMH	With control electronics for 2 solenoid valves	22
5 H-rail	NRH-35-2000	2 m long	22
6 Manifold rail	MHJ9-PN16	With 16 valve positions	23
7 Mounting kit	MHJ-HW2	Consisting of 2 mounting brackets and 4 socket head screws	23
8 In-line valve	MHJ9	2/2-way solenoid valve	22

Solenoid valves MHJ9, fast-switching valves Peripherals overview



Valve manifold with accessories 2 1

	Туре	Brief description	→ Page/Internet
Manifold rail	MHJ9-P16	With mounting kit MHJ-HW1	23
2 Push-in fitting	QS	For air supply 1	23
3 Push-in fitting	QS	For valve output 2	23

Solenoid valves MHJ9, fast-switching valves



Technical data

Function

12 12 1

Width

9 mm

Temperature range −5 ... +60 °C



General technical data										
Туре			In-line valve MHJ9-QS				Sub-base valve MHJ9			
		LF	MF	HF	HF/LP	LF	MF	HF	HF/LP	
Valve function		2/2-way	valve, sing	gle soleno	id, closed					
Design		Poppet v	alve witho	ut mecha	nical sprin	g return				
Sealing principle		Hard								
Note on operation			perate wit	hout flow	rate					
Service life in billions of switching cycles ¹⁾		5	5	0.5	0.5	5	5	0.5	0.5	
Actuation type		Electric								
Reset method		Pneuma	tic spring							
Type of control		Direct								
Direction of flow		Non-reve	ersible							
Mounting position		Any								
Width	[mm]	92)								
Grid dimension	[mm]	9.5								
Standard nominal flow rate ³⁾	[l/min]	50	100	160	160	50	100	160	160	
C value	[l/sbar]	0.2	0.4	0.66	0.66	0.2	0.4	0.66	0.66	
b value		0.5	0.38	0.36	0.36	0.5	0.38	0.36	0.36	
Type of mounting		In-line ir	nstallation	or via		On sub-	base			
		through-	holes							
Pneumatic connection 1 and 2		QS4	QS4	QS6	QS6	Sub-bas	e M7			
Product weight	[g]	30				25				
Max. tightening torque of valve mounting	[Nm]	-	_	_	_	0.28	•	_		

¹⁾ 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.

³⁾ The specified flow rate refers to the valve without sub-base. The maximum flow rate that can be achieved may deviate from the specified value when the valve is mounted on a sub-base.

Operating and environmental cond	itions								
Туре		LF	MF	HF	HF/LP				
Operating medium			Compressed air	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium			Operation with l	ubricated medium	not possible				
Operating pressure		[bar]	+0.5 +8	+0.5 +6	+0.5 +6	+0.5 +4			
Ambient temperature		[°C]	-5 +60						
	With manifold assembly	[°C]	Max. +45	Max. +45	-	Max. +45			
Temperature of medium		[°C]	-5 +60						
Storage temperature		[°C]	-20 +50						
Corrosion resistance class CRC			2 ¹⁾						
Note on materials			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.

Min. permissible grid dimension 9.5 mm

Solenoid valves MHJ9, fast-switching valves Technical data



Electrical data in combination v	vith connecting cable MHJ9-KMH					
Туре			LF	MF	HF	HF/LP
Operating voltage range ¹⁾		[V DC]	12 53			
Duty cycle ²⁾		[%]	100	100	-	100
Operating conditions to	With individual valve		-	_	S3 50% 20 min	-
DIN VDE 0580 ²⁾	With manifold assembly		-	_	S3 15% 20 min	-
Electrical connection			2-pin, plug KMH	•		
Protection class to EN 60529			IP40			

¹⁾ If there is a current limit, during the switching operation it must be set to at least 1.7 A for LF, MF and HF/LP valves and to at least 1.85 A for HF valves.
2) Air must flow through the valve continuously.

Note	
The specified values apply	Ask your technical consultant about
exclusively when using the	other actuation options for the MHJ
connecting cable MHJ9-KMH.	valves.

Switching times ¹⁾ and frequence	encies					
Туре			LF	MF	HF	HF/LP
Maximum switching frequenc	У	[Hz]	500	1,000	500	500
Switching times at 12 V DC						
Pressure 4 bar	Switching time on	[ms]	1	1.1	1.4	1.3
	Switching time off	[ms]	0.9	0.4	0.6	0.5
Switching times at 24 V DC						
Pressure 0.5 bar	Switching time on	[ms]	0.7	0.7	0.9	0.8
	Switching time off	[ms]	0.9	0.5	0.7	0.5
Pressure 4 bar	Switching time on	[ms]	0.7	0.8	1	1
	Switching time off	[ms]	0.9	0.4	0.5	0.4
Pressure 6 bar	Switching time on	[ms]	-	0.9	1.3	-
	Switching time off	[ms]	-	0.4	0.5	-
Pressure 8 bar	Switching time on	[ms]	0.8	-	-	-
	Switching time off	[ms]	0.9	-	-	-
Switching times at 48 V DC						
Pressure 4 bar	Switching time on	[ms]	0.6	0.6	0.8	0.8
	Switching time off	[ms]	0.8	0.4	0.4	0.4

¹⁾ Tolerance ±15%

Note

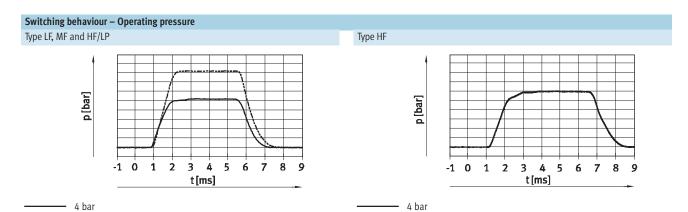
The maximum switching frequency that can be achieved decreases as the temperature of the valve increases or as the operating and ambient temperature increases.

The ambient temperature must therefore be limited accordingly so that the maximum switching frequency can be reached.

Solenoid valves MHJ9, fast-switching valves

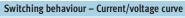
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Technical data



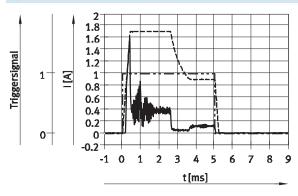
Type HF

1



Type LF, MF and HF/LP

---- 6 bar



Triggersignal ₹ 0.8 0.6 0.4 0.2 0 0 0 1 2 6 t[ms]

 Current in the supply line at 24 V ---- Coil current

--- Trigger signal

 Current in the supply line at 24 V ---- Coil current ---- Trigger signal

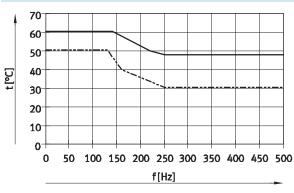
1.6

1.4

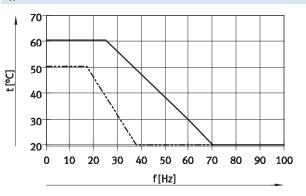
1.2

Maximum permissible ambient temperature as a function of switching frequency

Type LF, MF and HF/LP



Type HF



Individual valve, 4 bar

---- Manifold assembly/sub-base valve, 4 bar

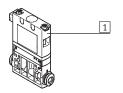
- Individual valve, 4 bar

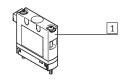
----- Manifold assembly/sub-base valve, 4 bar

Solenoid valves MHJ9, fast-switching valvesTechnical data



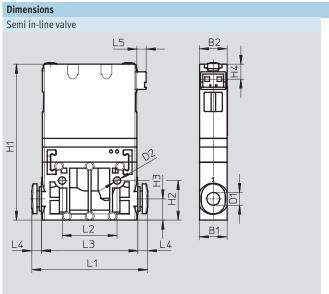
Materials

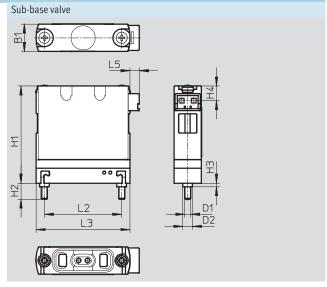




1	Housing	Reinforced polyamide
-	Seals	HNBR
-	Screws	Steel
-	Manifold rail	Anodised wrought aluminium alloy

Download CAD Data → www.festo.com/us/cad





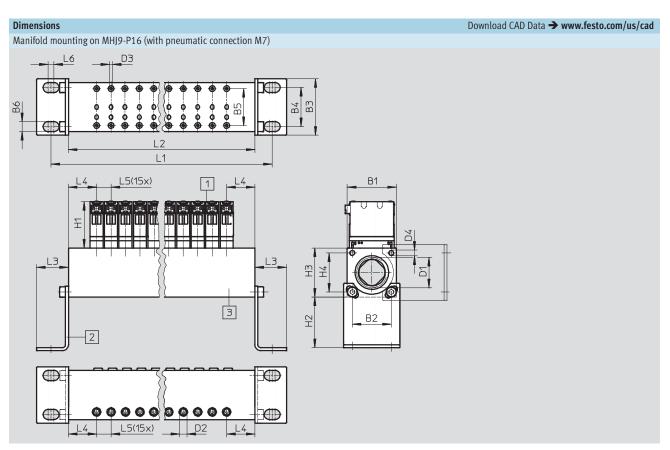
Туре	B1	B2	D1	D2	H1	H2	Н3	H4	L1	L2	L3	L4	L5
MHJ9-QS-4	9	9	4	2.4	51	13	7	5	38	1	32	3.2	3
MHJ9-QS-6	10	9	6						51	8		9.5	

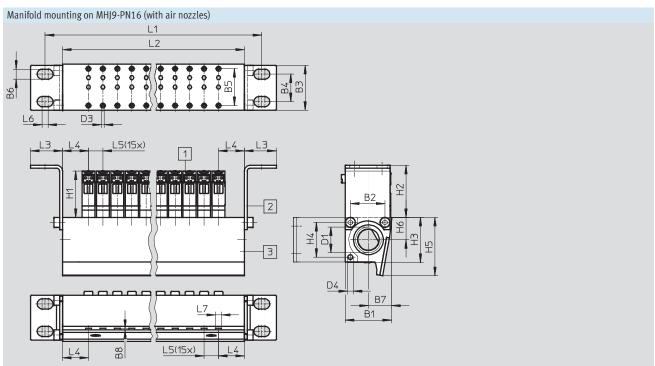
MHJ9 9 M2 3 32 5.3 1.2 5 25.5 31	3

Solenoid valves MHJ9, fast-switching valves

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Technical data





Туре	B1	B2	В3	В4	B5	B6	B7	B8	D1	D2	D3	D4	H1	H2	Н3	H4	H5	Н6	L1	L2	L3	L4	L5	L6	L7
MHJ9-P16	34	27	39	27	26	7	-	-	G1/2	M7	M2	M4	32	35	34	27	-	-	213	189	22	20	10	4	-
MHJ9-PN16	32	24	31	19	26	7	15	1	G3/8	-	M2	M4	32	36	31	24	40	16	210	186	22	18	10	4	5

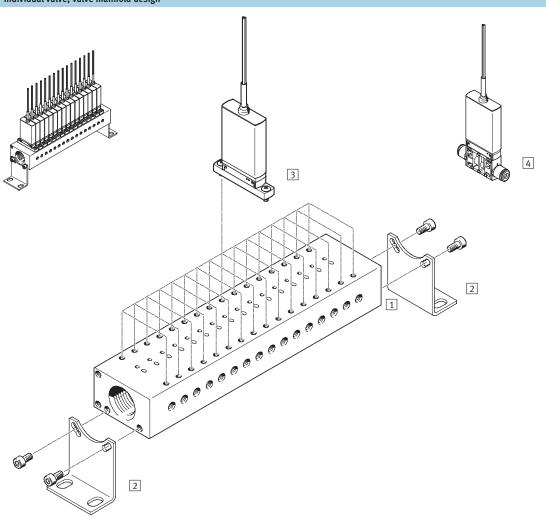
Solenoid valves MHJ9, fast-switching valvesTechnical data



Ordering data					
	Description	Standard nominal flow rate	Operating pressure	Part No.	Туре
In-line valve with	out connecting cable				
	2/2-way solenoid valve	50 l/min	+0.5 +8 bar	572079	MHJ9-QS-4-LF
600		100 l/min	+0.5 +6 bar	553118	MHJ9-QS-4-MF
		160 l/min	+0.5 +6 bar	567790	MHJ9-QS-6-HF
			+0.5 +4 bar	567793	MHJ9-QS-6-HF/LP
Sub-base valve w	ithout connecting cable				
P	2/2-way solenoid valve	50 l/min	+0.5 +8 bar	572078	MHJ9-LF
		100 l/min	+0.5 +6 bar	553115	MHJ9-MF
		160 l/min	+0.5 +6 bar	553117	MHJ9-HF
*			+0.5 +4 bar	567792	MHJ9-HF/LP

Ordering data - A	ccessories				
	Description			Part No.	Туре
Connecting cable v	with control electronics for 2 valves				
	Mounting on H-rail,	For LF, MF and HF/LP	0.5 m	553121	MHJ9-KMH-0,5-MF
	for static applications	valves	2.5 m	565519	MHJ9-KMH-2,5-MF
The said		For HF valves	0.5 m	562170	MHJ9-KMH-0,5-HF
*			2.5 m	567505	MHJ9-KMH-2,5-HF
			I	l	
Manifold rail					
	For 16 valves MHJ9, without mounting brac	ket, with air nozzles		553123	MHJ9-PN16
	For 16 valves MHJ9, without mounting brac	ket, with pneumatic connecti	on M7	553125	MHJ9-P16
Mounting kit					
	For manifold rail MHJ9-P16, consisting of 2 mounting brackets and 4 so	12	565455	MHJ-HW1	
BBB C	For manifold rail MHJ9-PN16, consisting of 2 mounting brackets and 4 so	cket head screws M4x8 DIN9	12	565456	MHJ-HW2
Push-in fitting for	valve output, port 2				
	Connecting thread M7 for tubing O.D.	For manifold rail with LF or MF valves	4 mm (10 pieces)	153319	QSM-M7-4-I
		For manifold rail with HF or HF/LP valves	6 mm (10 pieces)	153321	QSM-M7-6-I
Push-in fitting for	air cunnly nort 1				
a usir in inting 101	Connecting thread G½ for tubing O.D.		12 mm (1 piece)	186104	QS-G ¹ / ₂ -12
	Connecting timead 6 72 for tubing O.D.		16 mm (1 piece)	186105	QS-G ¹ /2-16
	Connecting thread G3/8 for tubing O.D.		12 mm (10 pieces)	186103	QS-G ³ / ₈ -12
	Connecting thread 678 for tubing O.D.		16 mm (10 pieces)		QS-G ³ / ₈ -16
			10 mm (10 pieces)	186347	Q3-U78-10

Individual valve, valve manifold design



	Ту	/pe	Brief description	→ Page/Internet
1 Manifold rail	М	NHJ10-P16	With 16 valve positions	23
2 Mounting kit	M	NHJ-HW1	Consisting of 2 mounting brackets and 4 socket head screws	23
3 Sub-base valve	. M	NHJ10	2/2-way solenoid valve	22
4 In-line valve	M	NHJ10	2/2-way solenoid valve	22

Solenoid valves MHJ10, fast-switching valves Peripherals overview



Valve manifold with accessories 1

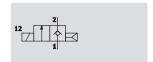
	Type	Brief description	→ Page/Internet
1 Manifold rail	MHJ10-P16	With mounting kit MHJ-HW1	23
2 Push-in fitting	QS	For air supply 1	23
3 Push-in fitting	QS	For valve output 2	23

Solenoid valves MHJ10, fast-switching valves

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Technical data

Function



Width

10 mm

Flow rate

Max. 160 l/min

Voltage

24 V DC



General technical data									
Type		In-line va	alve MHJ10)-SQS		Sub-bas	e valve Mi	HJ10-S	
		LF	MF	HF	HF/LP	LF	MF	HF	HF/LP
Valve function		2/2-way	valve, sing	gle solenoi	d, closed				
Design		Poppet v	alve witho	ut mechar	nical spring	g return			
Sealing principle		Hard							
Note on operation		Do not o	perate with	nout flow r	ate				
Service life in billions of switching cycles ¹⁾		5	5	0.5	0.5	5	5	0.5	0.5
Actuation type		Electric		•		•	•		
Reset method		Pneumat	tic spring						
Type of control		Direct							
Direction of flow		Non-reve	rsible						
Mounting position		Any							
Width	[mm]	10 ²⁾							
Grid dimension	[mm]	10.5							
Standard nominal flow rate	[l/min]	50	100	160	160	50	100	160	160
C value	[l/sbar]	0.2	0.4	0.66	0.66	0.2	0.4	0.66	0.66
b value		0.5	0.38	0.36	0.36	0.5	0.38	0.36	0.36
Type of mounting		In-line in	stallation	or via		On sub-	base		
		through-	holes						
Pneumatic connection 1 and 2		QS4	QS4	QS6	QS6	Connect	ing thread	M7	
Max. tightening torque of valve mounting	[Nm]	-				0.7			

¹⁾ 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.

²⁾ Min. permissible grid dimension 10.5 mm

Operating and environmental condition	ns									
Туре			LF	MF	HF	HF/LP				
Operating medium			Compressed air in accordance with ISO 8573-1:2010 [7:4:4]							
Note on operating/pilot medium			Operation with lubricated medium not possible							
Operating pressure		[bar]	+0.5 +8	+0.5 +8						
Ambient temperature	[°C]	-5 +60								
	With manifold assembly	[°C]	Max. +45	Max. +45	-	Max. +45				
Temperature of medium		[°C]	-5 +60		•					
Storage temperature		[°C]	-20 +50							
Corrosion resistance class CRC ¹⁾			2							
CE marking (see declaration of conform	ity)		To EU EMC Dire	ective ²⁾						
Note on materials			RoHS-compliar	nt						

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 lubrication agents.

For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com Support User documentation.

If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary. Max. permissible cable length 2.5 m.

Solenoid valves MHJ10, fast-switching valves Technical data



Electrical data						
Туре			LF	MF	HF	HF/LP
Operating voltage ¹⁾		[V DC]	24 ±10% = 21.6 .	26.4		
Control signal range		[V DC]	3 30			
Power	Low-current phase	[W]	2	2	3.2	2
	High-current phase	[W]	7	7	14.5	7
Protection class to EN 60529			IP65			•
Duty cycle ²⁾		[%]	100	100	-	100
Operating conditions to	With individual valve		-	-	S3 50% 20 min	-
DIN VDE 0580 ²⁾	With manifold assembly		-	-	S3 15% 20 min	-
Electrical connection			3-wire cable	•	•	1

¹⁾ If there is a current limit, during the switching operation it must be set to at least 1.7 A.

²⁾ Air must flow through the valve continuously.

Switching times 1) and freq	uencies					
Туре			LF	MF	HF	HF/LP
Maximum switching frequer	ncy	[Hz]	500	1,000	500	500
Switching times at 24 V DC						
Pressure 0.5 bar	Switching time on	[ms]	0.7	0.8	1	0.8
	Switching time off	[ms]	0.9	0.5	0.8	0.6
Pressure 4 bar	Switching time on	[ms]	0.8	0.8	1.2	1
	Switching time off	[ms]	1	0.4	0.6	0.5
Pressure 6 bar	Switching time on	[ms]	-	0.9	1.3	-
	Switching time off	[ms]	-	0.4	0.6	-
Pressure 8 bar	Switching time on	[ms]	0.9	-	-	-
	Switching time off	[ms]	0.9	-	-	-

¹⁾ Tolerance ±15%

Note

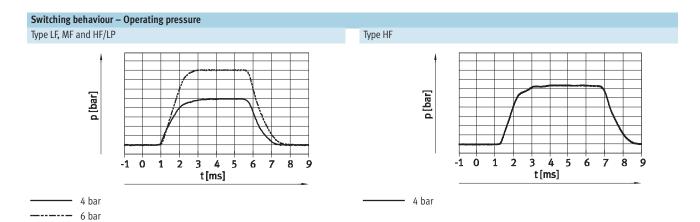
The maximum switching frequency that can be achieved decreases as the temperature of the valve increases or as the operating and ambient temperature increases.

The ambient temperature must therefore be limited accordingly so that the maximum switching frequency can be reached.

Solenoid valves MHJ10, fast-switching valves



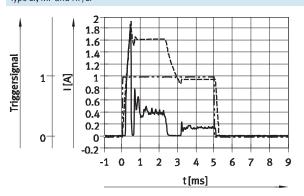
Technical data



Type HF

Switching behaviour - Current/voltage curve

Type LF, MF and HF/LP



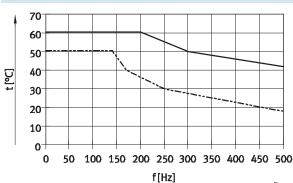
Current in the supply line at 24 V Coil current

---- Trigger signal

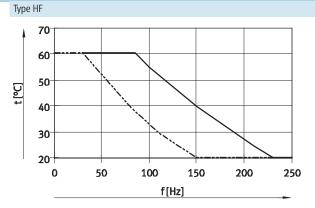
Current in the supply line at 24 V
Trigger signal

Maximum permissible ambient temperature as a function of switching frequency

Type LF, MF and HF/LP



----- Individual valve, 4 bar
----- Manifold assembly/sub-base valve, 4 bar

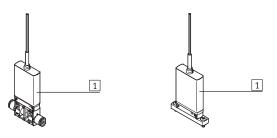


Individual valve, 4 barManifold assembly/sub-base valve, 4 bar

Solenoid valves MHJ10, fast-switching valvesTechnical data



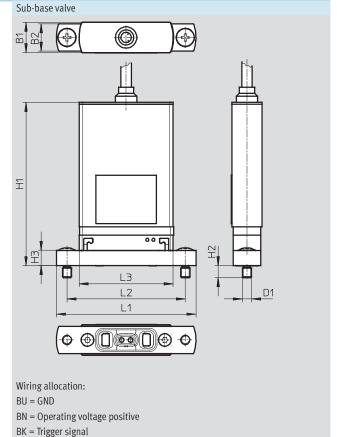
Materials



1	Housing	Reinforced polyamide
-	Seals	HNBR
-	Screws	Steel
-	Cable sheath	Polyurethane
-	Manifold rail	Anodised wrought aluminium alloy

Download CAD Data → www.festo.com/us/cad

Dimensions Semi in-line valve Ī L3 L1 Wiring allocation:



BU = GND

BN = Operating voltage positive

BK = Trigger signal

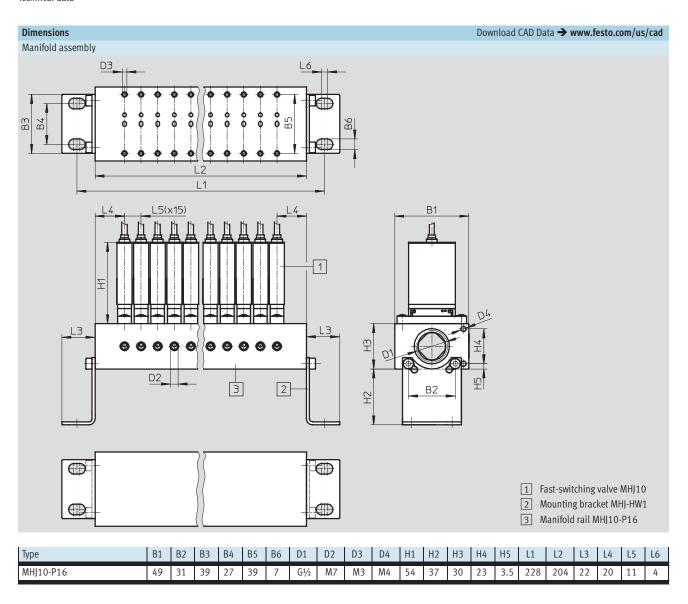
Туре	B1	D1	D2	H1	H2	Н3	L1	L2	L3	L4
MHJ10-SQS4	10	4	2.4	68	13	7	50.5	18	32	9.5
MHJ10-SQS6		6								

Туре	B1	B2	D1	H1	H2	Н3	L1	L2	L3
MHJ10-S	10	9	M3	54	4	5	46	39	31

Solenoid valves MHJ10, fast-switching valves



Technical data



Solenoid valves MHJ10, fast-switching valvesTechnical data



Ordering data						
	Description	Standard nominal flow rate	Cable length	Operating pressure	Part No.	Туре
In-line valve wit	h connecting cable					
	2/2-way solenoid valve	50 l/min	2.5 m	+0.5 +8 bar	572081	MHJ10-S-2,5-QS-4-LF
		100 l/min	0.35 m	+0.5 +6 bar	557604	MHJ10-S-0,35-QS-4-MF
			2.5 m	+0.5 +6 bar	565515	MHJ10-S-2,5-QS-4-MF
		160 l/min	2.5 m	+0.5 +6 bar	567503	MHJ10-S-2,5-QS-6-HF
				+0.5 +4 bar	567798	MHJ10-S-2,5-QS-6-HF/LP
Sub-base valve	with connecting cable					
	2/2-way solenoid valve	50 l/min	2.5 m	+0.5 +8 bar	572080	MHJ10-S-2,5-LF
		100 l/min	0.35 m	+0.5 +6 bar	557601	MHJ10-S-0,35-MF
			2.5 m	+0.5 +6 bar	565513	MHJ10-S-2,5-MF
		160 l/min	2.5 m	+0.5 +6 bar	567502	MHJ10-S-2,5-HF
				+0.5 +4 bar	567796	MHJ10-S-2,5-HF/LP

Ordering data – Accessories								
	Description				Туре			
Manifold rail	Manifold rail							
	For 16 valves MHJ10, without mounting bracket, with pneumatic connection M7				MHJ10-P16			
Mounting kit								
444	For manifold rail MHJ10-P16, consisting of 2 mounting brackets and 4 socket head screws M4x8 DIN912				MHJ-HW1			
Push-in fitting for	valve output, port 2							
	Connecting thread M7 for tubing O.D.	For manifold rail with LF or MF valves	4 mm (10 pieces)	153319	QSM-M7-4-I			
		For manifold rail with HF or HF/LP valves	6 mm (10 pieces)	153321	QSM-M7-6-I			
Push-in fitting for air supply, port 1								
	Connecting thread G½ for tubing O.D.	12 mm (1 piece)	186104	QS-G ¹ / ₂ -12				
	6 4 4 102/5		16 mm (1 piece)	186105	QS-G ¹ / ₂ -16			
	Connecting thread G3/8 for tubing O.D.		12 mm (10 pieces)	186103	QS-G ³ / ₈ -12			
			16 mm (10 pieces)	186347	QS-G ³ / ₈ -16			

Solenoid valves MHJ, fast-switching valves



ering data	1-		1	1-	1	
	Description	Standard nominal flow	Cable length	Operating	Part No.	Type
		rate		pressure		
ne valve with	out connecting cable					
	2/2-way solenoid valve	50 l/min	-	+0.5 +8 bar	572079	MHJ9-QS-4-LF
		100 l/min	-	+0.5 +6 bar	553118	MHJ9-QS-4-MF
		160 l/min	-	+0.5 +6 bar	567790	MHJ9-QS-6-HF
			-	+0.5 +4 bar	567793	MHJ9-QS-6-HF/LP
-base valve w	vithout connecting cable				_	
>	2/2-way solenoid valve	50 l/min	_	+0.5 +8 bar	572078	MHJ9-LF
T		100 l/min	_	+0.5 +6 bar	553115	MHJ9-MF
		160 l/min	_	+0.5 +6 bar	553117	MHJ9-HF
T .			-	+0.5 +4 bar	567792	MHJ9-HF/LP
ne valve with	connecting cable				_	
1	2/2-way solenoid valve	50 l/min	2.5 m	+0.5 +8 bar	572081	MHJ10-S-2,5-QS-4-LF
		100 l/min	0.35 m	+0.5 +6 bar	557604	MHJ10-S-0,35-QS-4-MF
			2.5 m	+0.5 +6 bar	565515	MHJ10-S-2,5-QS-4-MF
\						
		160 l/min	2.5 m	+0.5 +6 bar	567503	MHJ10-S-2,5-QS-6-HF
				+0.5 +4 bar	567798	MHJ10-S-2,5-QS-6-HF/LP
				12 111 1 /411		
haaa yaliye	ith connecting apple					
-base valve w	vith connecting cable 2/2-way solenoid valve	50 l/min	12.5 m	+0.5 +8 bar	E72000	MUI10 C 2 F I F
	2/2-way solenold valve	וווווון/ו טכ	2.5 m	+0.5 +8 Dar	572080	MHJ10-S-2,5-LF
		100 l/min	0.35 m	+0.5 +6 bar	557601	MHJ10-S-0,35-MF
			2.5 m	+0.5 +6 bar	565513	MHJ10-S-2,5-MF
						,
		160 l/min	2.5 m	+0.5 +6 bar	567502	MHJ10-S-2,5-HF
\sqcup				+0.5 +4 bar	567796	MHJ10-S-2,5-HF/LP
				+0.5 +4 bar	567796	MHJ10-S-2,5-l

Solenoid valves MHJ, fast-switching valvesAccessories



Ordering data					
o.acima acca	Description			Part No.	Type
Connecting cable	2 3331 1931			1.0	-76-
connecting capic	With control electronics for 2 valves,	For LF, MF and HF/LP	0.5 m	553121	MHJ9-KMH-0,5-MF
	·		2.5 m	565519	MHJ9-KMH-2,5-MF
The same of the sa	mounting on 11 ran, for static applications	For HF valves	0.5 m	562170	MHJ9-KMH-0,5-HF
		Torrii vatves	2.5 m	567505	MHJ9-KMH-2,5-HF
			2.5	307303	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Manifold rail ¹⁾					
	For 16 valves MHJ9, without mounting brad	553123	MHJ9-PN16		
	For 16 valves MHJ9, without mounting bracket, with pneumatic connection M7				МНЈ9-Р16
	For 16 valves MHJ10, without mounting bracket, with pneumatic connection M7				MHJ10-P16
Mounting kit	For manifold rail MHJP16,			565455	MHJ-HW1
888	consisting of 2 mounting brackets and 4 socket head screws M4x8 DIN912				,
ABB CO	For manifold rail MHJ9-PN16, consisting of 2 mounting brackets and 4 socket head screws M4x8 DIN912			565456	MHJ-HW2
Duch in litting for	value autmut, mort 2				
rusn-in fitting for	valve output, port 2	For manifold wait with 15	4 mm (10 minos)	152240	OSM M7 4 I
	Connecting thread M7 for tubing O.D.	For manifold rail with LF or MF valves	4 mm (10 pieces)	153319	QSM-M7-4-I
		For manifold rail with HF or HF/LP valves	6 mm (10 pieces)	153321	QSM-M7-6-I
Push-in fitting for	air supply, port 1				
2007 111 71111115 101	Connecting thread G½ for tubing O.D.		12 mm (1 piece)	186104	QS-G ¹ / ₂ -12
			l 16 mm (1 piece)	186105	US-G ¹ /2-16
	Connecting thread G3/8 for tubing O.D.		16 mm (1 piece) 12 mm (10 pieces)	186105 186103	QS-G½-16 QS-G¾-12

¹⁾ Further versions/lengths available on request

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