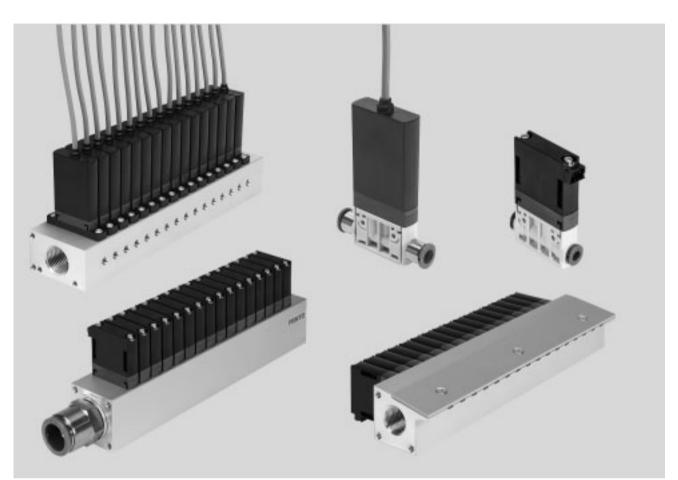




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Key features



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
- 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
- Control of the MHJ9 valves without plug socket with cable MHJ9-KMH subject to consultation with Festo

Reliable

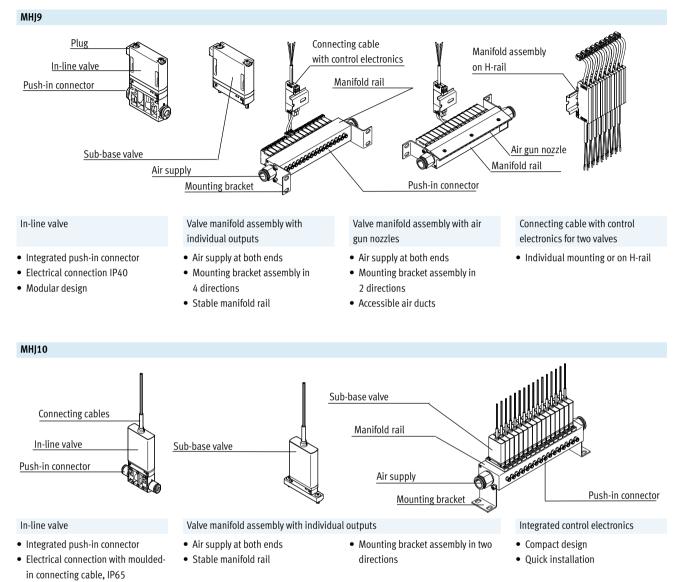
- Reliable servicing thanks to valves that can be replaced quickly and easily
- No electrical plug connectors with MHJ10 thanks to integrated control electronics
- Up to 5 billion switching cycles

Easy to install

- 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

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Key features



• Modular design

Solenoid valves MHJ, fast-switching valves Product range overview

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Function	Design	Operating voltage	Туре	Electrical connection	Switching time ¹⁾		→ Page/
		[V DC]			Off	On	Internet
2/2-way valve	LF = Standard nomina	al 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	17
1	Sub-base valve	12 53	MHJ9	Plug	0.9	0.7	8
		24	MHJ10	With moulded-in cable	1	0.8	17
	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	17
	Sub-base valve	12 53	MHJ9	Plug	0.4	0.8	8
		24	MHJ10	With moulded-in cable	0.4	0.8	17
	HF/LP = Standard nor	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	17
	Sub-base valve	12 53	MHJ9	Plug	0.4	1	8
		24	MHJ10	With moulded-in cable	0.5	1	17
	HF = Standard nomin	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	17
	Sub-base valve	12 53	MHJ9	Plug	0.5	1	8
		24	MHJ10	With moulded-in cable	0.6	1.2	17

1) Switching time at 24 V DC and 4 bar

Mounting options

Mounting options	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	_					

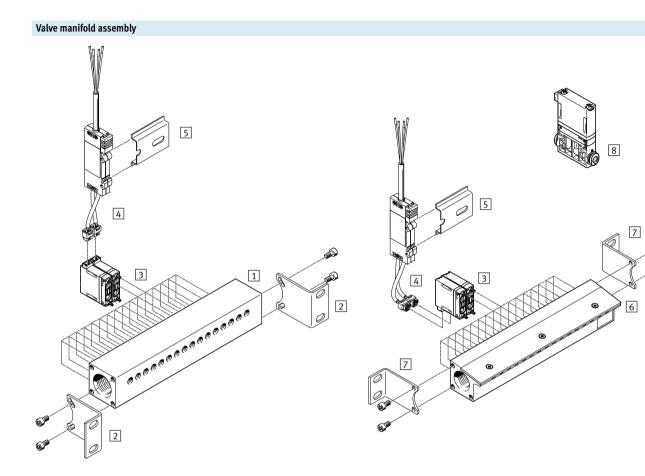
		MHJ	10] -	S] -	2,5	-	QS-4] –	MF
Valve s	eries										
MHJ	Fast-switching valves										
Width											
9	9 mm			_							
10	10 mm										
Control	electronics										
-	Without integrated control electronics	5				_					
	(only with MHJ9)										
S	With integrated control electronics										
L	(only with MHJ10)										
Cable l	ength for MHJ10										
0,35	0.35 m										
2,5	2.5 m										
Push-ir	connector for in-line valves										
_	Sub-base valves]	
QS-4	Push-in connector										
	for tubing O.D. 4 mm										
QS-6	Push-in connector										
	for tubing O.D. 6 mm										
Flow cla	200										
LF	Low flow (50 l/min)										
MF	Mid flow (100 l/min)										
MF HF/LP	High flow/low pressure										
IIF/LP	(160 l/min, 0.54 bar)										
HF	High flow (160 l/min)										
пг											

Solenoid valves MHJ9, fast-switching valves Peripherals overview

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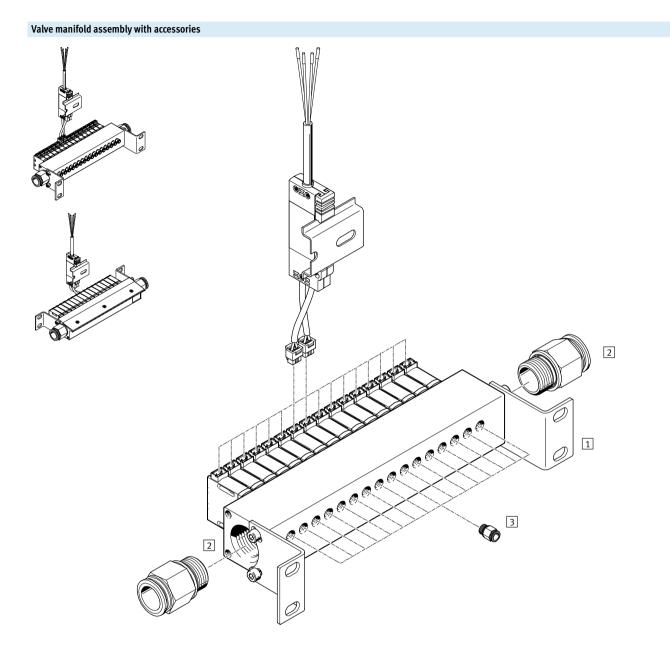
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		Туре	Brief description	→ Page/Internet
1	Manifold rail	MHJ9-P16	With 16 valve positions	24
2	Mounting kit	MHJ-HW1	Consisting of 2 mounting brackets and 4 socket head screws	24
3	Sub-base valve	MHJ9	2/2-way solenoid valve	23
4	Connecting cable	МНЈ9-КМН	With control electronics for 2 solenoid valves	23
5	H-rail	NRH-35-2000	2 m long	23
6	Manifold rail	MHJ9-PN16	With 16 valve positions	24
7	Mounting kit	MHJ-HW2	Consisting of 2 mounting brackets and 4 socket head screws	24
8	In-line valve	MHJ9	2/2-way solenoid valve	23

Solenoid valves MHJ9, fast-switching valves Peripherals overview



	Туре	Brief description	➔ Page/Internet
1 Manifold rail	MHJ9-P16	With mounting kit MHJ-HW1	24
2 Push-in fitting	QS	For air supply port 1	24
3 Push-in fitting	QS	For valve output 2	24







- **J** - Temperature range −5 ... +60 °C



General technical data

Туре		In-line	valve MHJ	9-QS		Sub-base valve MHJ9				
			MF	HF/LP	HF	LF	MF	HF/LP	HF	
Valve function			2/2-way valve, single solenoid, closed							
Design		Poppet	valve with	iout mecha	nical spri	ng return				
Sealing principle		Hard								
Note on operation		Do not	operate w	ithout flow						
Actuation type		Electric	al							
Reset method		Pneum	atic spring	r.						
Type of control		Direct								
Flow direction	direction			Non-reversible						
Mounting position		Any								
Width	[mm]	9 ¹⁾								
Grid dimension	[mm]	9.5								
Standard nominal flow rate ²⁾	[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 installation or via through- On sub-base								
		holes								
Pneumatic connection 1 and 2		QS4	QS4	QS6	QS6	Sub-ba	ase M7			
Product weight	[g]	30				25				
Max. tightening torque for valve mounting	[Nm]	- 0.28								

Min. permitted grid dimension 9.5 mm
 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 conc	litions						
Туре		LF	MF	HF/LP	HF		
Operating medium			Compressed a	ir to ISO 8573-1:201	0 [7:4:4]		
Note on the operating/pilot medium	1		Operation with	lubricated medium	not possible		
Operating pressure [bar]		+0.5 +8	+0.5 +6	+0.5 +4	+0.5 +6		
Ambient temperature [°C]		-5 +60	-5 +60				
	With manifold assembly	[°C]	Max. +45	Max. +45	Max. +45	-	
Temperature of medium		[°C]	-5 +60				
Restricted ambient and temperatur	e of medium		As a function of	f switching frequency	/ (see graph)		
Storage temperature		[°C]	-20 +50				
Permissible solenoid surface temperature [°C]		+120					
Corrosion resistance class CRC ¹⁾			2				
Note on materials			RoHS-complian	nt			

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Data sheet

Electrical data in combination with c	onnecting cable MHJ9-KMH						
Туре			LF	MF	HF/LP	HF	
Operating voltage range ¹⁾ [V DC]			12 53				
Note regarding operating voltage			Operation only with connecting cable MHJ9-KMH				
Coil resistance		[Ohm]	2.5				
Duty cycle ²⁾		[%]	100	100	100	-	
Operating conditions in accordance	With individual valve		-	-	-	S3 50% 20 min	
with DIN VDE 0580 ²⁾	With manifold assembly		-	-	-	S3 15% 20 min	
Electrical connection			2-pin, plug KMH				
Degree of protection to EN 60529			IP40				

1) Any current limit 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 for the switching operation.

2) Air must flow through the valve continuously

The specified values only apply when using the connecting cable

Ask your technical consultant about other actuation options for the MHJ valves.

On Off	[Hz] [%]	LF 500 ±15	MF 1000	HF/LP 500	HF 500
	[%]		1000	500	500
		+15			500
Off	[0/]	±1 J			
	[70]	+15/-25			
Switching time on	[ms]	1	1.1	1.3	1.4
Switching time off	[ms]	0.9	0.4	0.5	0.6
Switching time on	[ms]	0.7	0.7	0.8	0.9
Switching time off	[ms]	0.9	0.5	0.5	0.7
Switching time on	[ms]	0.7	0.8	1	1
Switching time off	[ms]	0.9	0.4	0.4	0.5
Switching time on	[ms]	-	0.9	-	1.3
Switching time off	[ms]	-	0.4	-	0.5
Switching time on	[ms]	0.8	-	-	-
Switching time off	[ms]	0.9	-	-	-
Switching time on	[ms]	0.6	0.6	0.8	0.8
Switching time off	[ms]	0.8	0.4	0.4	0.4
,	Switching time on Switching time off Switching time on Switching time off Switching time on Switching time off Switching time on Switching time off Switching time off Switching time off	Switching time on [ms] Switching time off [ms] Switching time on [ms] Switching time off [ms] Switching time on [ms] Switching time off [ms]	Switching time on [ms] 1 Switching time off [ms] 0.9 Switching time off [ms] 0.7 Switching time off [ms] 0.9 Switching time off [ms] 0.7 Switching time on [ms] 0.9 Switching time on [ms] - Switching time on [ms] 0.8 Switching time off [ms] 0.9 Switching time off [ms] 0.9 Switching time off [ms] 0.9 Switching time off [ms] 0.9	Switching time on [ms] 1 1.1 Switching time off [ms] 0.9 0.4 Switching time off [ms] 0.7 0.7 Switching time off [ms] 0.9 0.5 Switching time on [ms] 0.7 0.8 Switching time on [ms] 0.9 0.4 Switching time on [ms] 0.7 0.8 Switching time on [ms] 0.9 0.4 Switching time on [ms] 0.9 0.4 Switching time on [ms] 0.9 0.4 Switching time on [ms] 0.9 - Switching time on [ms] 0.8 - Switching time off [ms] 0.9 - Switching time off [ms] 0.9 - Switching time on [ms] 0.6 0.6	Switching time on [ms] 1 1.1 1.3 Switching time off [ms] 0.9 0.4 0.5 Switching time off [ms] 0.7 0.7 0.8 Switching time off [ms] 0.9 0.5 0.5 Switching time on [ms] 0.7 0.8 1 Switching time on [ms] 0.7 0.8 1 Switching time on [ms] 0.7 0.4 0.4 Switching time on [ms] 0.7 0.8 1 Switching time on [ms] 0.9 0.4 0.4 Switching time on [ms] 0.9 - - Switching time on [ms] 0.8 - - Switching time on [ms] 0.8 - - Switching time off [ms] 0.9 - - Switching time onff [ms] 0.9 - - Switching time onff [ms] 0.6 0.6 0.8

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.

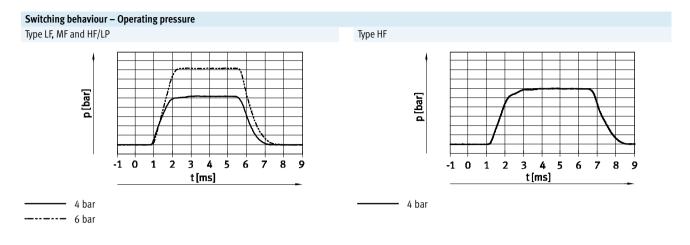
The ambient temperature must therefore be limited accordingly so that the maximum switching frequency can be reached.

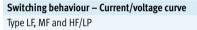


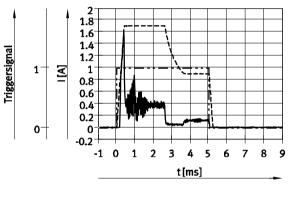


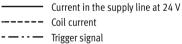
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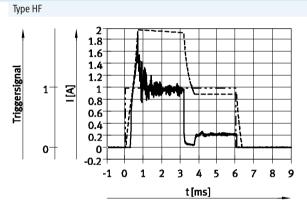
Data sheet







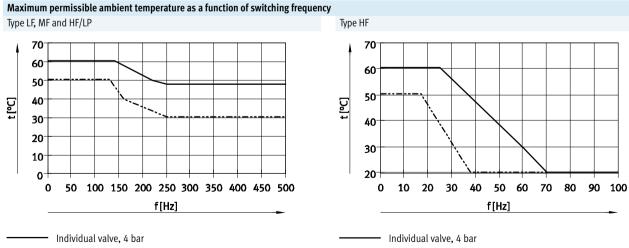




Current in the supply line at 24 V

----- Coil current

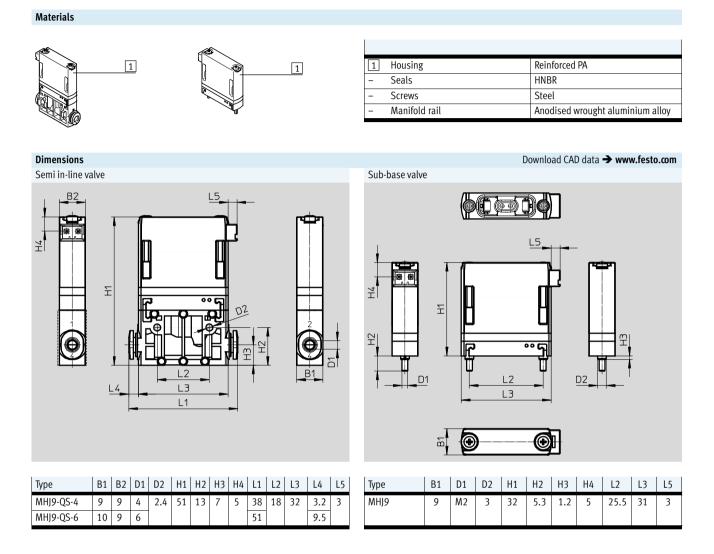
——— Trigger signal



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

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

Data sheet

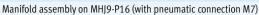


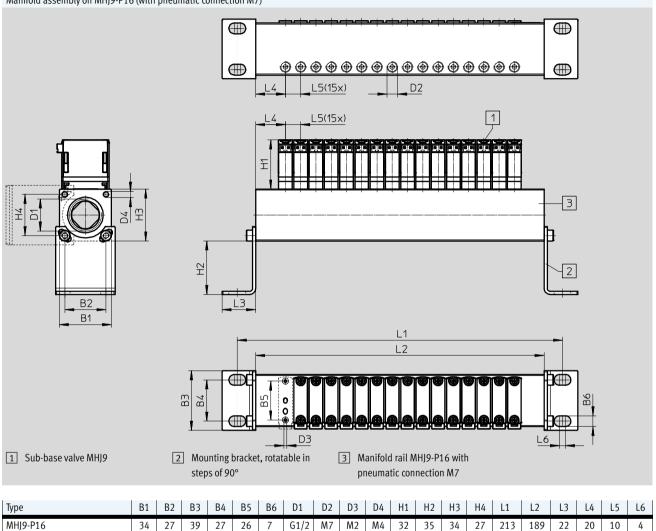
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Download CAD data → www.festo.com

Data sheet

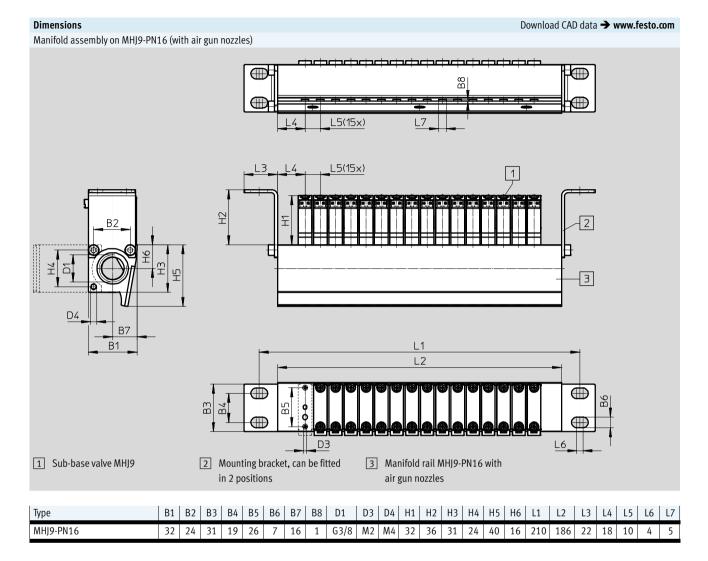
Dimensions





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Data sheet



Description	Standard nominal flow	Operating pressure	Part no.	Туре
	rate			
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 +4 bar	567793	MHJ9-QS-6-HF/LP
	160 l/min	+0.5 +6 bar	567790	MHJ9-QS-6-HF
ithout connecting cable				
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 +4 bar	567792	MHJ9-HF/LP
	160 l/min	+0.5 +6 bar	553117	MHJ9-HF
	out connecting cable 2/2-way solenoid valve /ithout connecting cable	interview rate out connecting cable 50 l/min 2/2-way solenoid valve 50 l/min 160 l/min 160 l/min ithout connecting cable 50 l/min 2/2-way solenoid valve 50 l/min 100 l/min 160 l/min	rate rate out connecting cable 50 l/min +0.5 +8 bar 2/2-way solenoid valve 50 l/min +0.5 +6 bar 100 l/min +0.5 +6 bar 160 l/min 160 l/min +0.5 +6 bar 160 l/min +0.5 +6 bar 2/2-way solenoid valve 50 l/min 2/2-way solenoid valve 50 l/min 100 l/min +0.5 +8 bar 100 l/min +0.5 +8 bar 100 l/min +0.5 +8 bar 100 l/min +0.5 +4 bar	rate out connecting cable 2/2-way solenoid valve 50 l/min +0.5 +8 bar 572079 100 l/min +0,5 +6 bar 553118 160 l/min +0.5 +4 bar 567793 160 l/min +0.5 +6 bar 567790

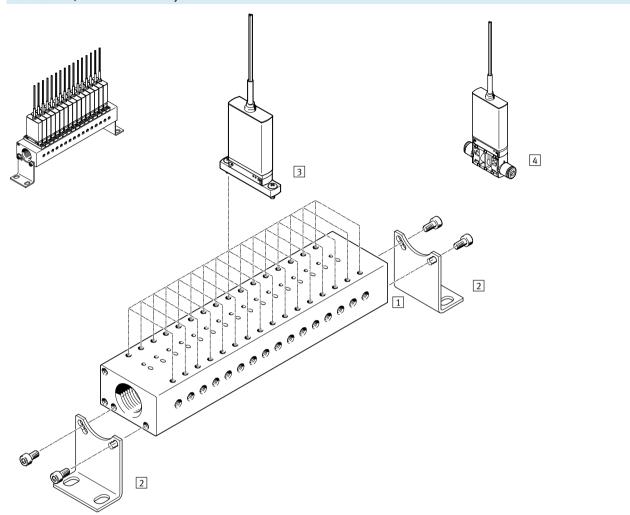
Ordering data – A	Accessories							
	Description			Part no.	Туре			
Connecting cable	Connecting cable with control electronics for 2 valves							
	Mounting on H-rail, for static	For LF, MF and HF/LP	0.5 m	553121	MHJ9-KMH-0,5-MF			
	applications	valves	2.5 m	565519	MHJ9-KMH-2,5-MF			
Served .		For HF valves	0.5 m	562170	MHJ9-KMH-0,5-HF			
-			2.5 m	567505	MHJ9-KMH-2,5-HF			
		i.						
Manifold rail								

i i i i i i i i i i i i i i i i i i i	For 16 valves MHJ9, without mounting bracket, with air gun nozzles	553123	MHJ9-PN16
	For 16 valves MHJ9, without mounting bracket, with pneumatic connection M7	553125	МНЈ9-Р16

Mounting kit		
For manifold rail MHJ9-P16, consisting of 2 mounting brackets and 4 socket head screws M4x8 DIN912	565455	МНЈ-НѠ1
For manifold rail MHJ9-PN16, consisting of 2 mounting brackets and 4 socket head screws M4x8 DIN912	565456	MHJ-HW2

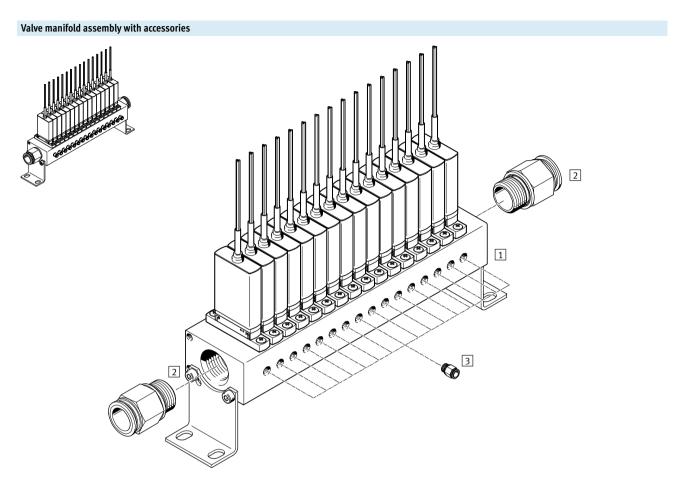
Push-in fitting for	valve output, port 2				
	Connecting thread M7 for tubing O.D.	For manifold rail with LF or	4 mm (10 pieces)	153319	QSM-M7-4-I
		MF valves			
O.		For manifold rail with HF or	6 mm (10 pieces)	153321	QSM-M7-6-I
1		HF/LP valves			
	L	I			
Push-in fitting for	air supply, port 1				
	Connecting thread G1/2 for tubing O.D.		12 mm (1 piece)	186104	QS-G1/2-12
			16 mm (1 piece)	186105	QS-G1/2-16
•	Connecting thread G3/8 for tubing O.D.		12 mm (10 pieces)	186103	QS-G3/8-12
			16 mm (10 pieces)	186347	QS-G3/8-16

Solenoid valves MHJ10, fast-switching valves Peripherals overview



	Туре	Brief description	➔ Page/Internet
1 Manifold rail	MHJ10-P16	With 16 valve positions	24
2 Mounting kit	MHJ-HW1	Consisting of 2 mounting brackets and 4 socket head screws	24
3 Sub-base valve	MHJ10	2/2-way solenoid valve	23
4 In-line valve	MHJ10	2/2-way solenoid valve	23

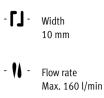
Solenoid valves MHJ10, fast-switching valves Peripherals overview



	Туре	Brief description	→ Page/Internet
1 Manifold rail	MHJ10-P16	With mounting kit MHJ-HW1	24
2 Push-in fitting	QS	For air supply port 1	24
3 Push-in fitting	QS	For valve output 2	24

Data sheet





- **L** - Voltage 24 V DC



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General technical data

General technical data									
Туре		In-line va	lve MHJ1	l0-SQS		Sub-ba	ase valve M	HJ10-S	
		LF	MF	HF/LP	HF	LF	MF	HF/LP	HF
Valve function		2/2-way	valve, sir	ngle solenc	oid, closec				
Design		Poppet v	alve with	out mecha	inical spri	ng return			
Sealing principle		Hard							
Note on operation		Do not op	perate wi	thout flow					
Actuation type		Electrical	l						
Reset method		Pneumat	ic spring						
Type of control		Direct							
low direction			Non-reversible						
Mounting position		Any							
Width	[mm]	101)							
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	n or via thr	ough-	On sub	o-base		
		holes							
Pneumatic connection 1 and 2		QS4	QS4	QS6	QS6	Sub-ba	ase M7		
Max. tightening torque for valve mounting	[Nm]	-		·		0.7			

1) Min. permitted grid dimension 10.5 mm

Operating and environmental conditions

Operating and environments									
Туре		LF	MF	HF/LP	HF				
Operating medium		Compressed ai	r to ISO 8573-1:201	0 [7:4:4]					
Note on the operating/pilot n	nedium	Operation with	lubricated medium	not possible					
Operating pressure	+0.5 +8	+0.5 +6	+0.5 +4	+0.5 +6					
Ambient temperature			-5 +60	·					
	With manifold assembly	[°C]	Max. +45	Max. +45	Max. +45	-			
Temperature of medium		[°C]	-5 +60	-5 +60					
Restricted ambient and medi	a temperature		As a function of	the switching frequ	ency (see graph)				
Storage temperature		[°C]	-20 +50	-20 +50					
Permissible solenoid surface	temperature	[°C]	+120	+120					
Corrosion resistance class CF	RC ¹⁾		2						
CE marking (see declaration	To EU EMC Directive ²⁾								
Note on materials			RoHS-compliant						

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

2) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp > Certificates.

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.

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Electrical data								
Туре			LF	MF	HF/LP	HF		
Operating voltage ¹⁾		[V DC]	24 ±10% = 2	21.6 26.4				
Trigger signal range		[V DC]	3 30					
Input resistance		[kΩ]	34					
Note on input current			Linear rise					
			0.09 0.44	nA at a trigger sign	al of 3 15 V DC			
			0.44 15.44 mA at a trigger signal of 15 30 V DC					
Power	Low-current phase	[W]	2	2	2	3.2		
	High-current phase	[W]	7	7	7	14.5		
Reverse polarity protection			For operatin	g voltage				
Additional functions			Spark arrest	ting				
			Holding current reduction with energy recovery					
			Safety shut-off					
Degree of protection to EN 60529			IP65					
Duty cycle ²⁾		[%]	100	100	100	-		
Operating conditions in accordance	With individual valve		-	-	-	S3 50% 20 min		
with DIN VDE 0580 ²⁾	With manifold assembly		-	-	-	S3 15% 20 min		
Electrical connection			Cable, 3-wir	e				

Any current limit must be set to at least 1.7 A for the switching operation.
 Air must flow through the valve continuously.

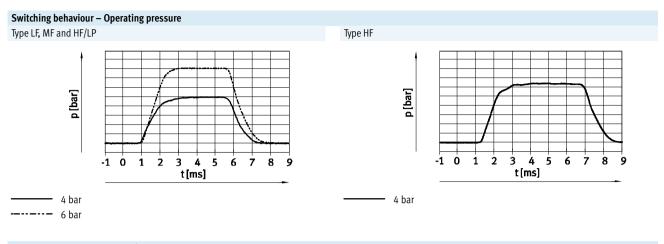
Switching times and frequencies	5					
Туре			LF	MF	HF/LP	HF
Maximum switching frequency		[Hz]	500	1000	500	500
Tolerance for switching time	On	[%]	±15			
	Off	[%]	+15/-25			
Switching times for 24 V DC when	n new					
Pressure 0.5 bar	Switching time on	[ms]	0.7	0.8	0.8	1
	Switching time off	[ms]	0.9	0.5	0.6	0.8
Pressure 4 bar	Switching time on	[ms]	0.8	0.8	1	1.2
	Switching time off	[ms]	1	0.4	0.5	0.6
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	-	-	-

--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.

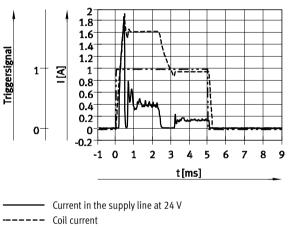
Data sheet

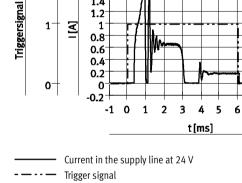


Type HF

1 Z

Switching behaviour - Current/voltage curve Type LF, MF and HF/LP





2[°] 1.8

1.6

1.4

1.2

0.8

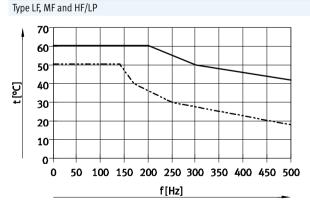
0.6

1



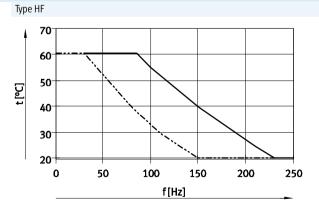


Maximum permissible ambient temperature as a function of switching frequency



Individual valve, 4 bar

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



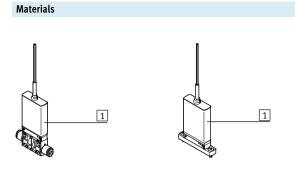
Individual valve, 4 bar

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

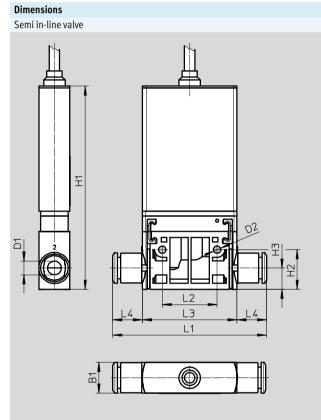
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7 8 9

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1	Housing	Reinforced PA
		Reinforced PPS
-	Seals	HNBR
-	Screws	Steel
-	Cable sheath	PUR
-	Manifold rail	Anodised wrought aluminium alloy



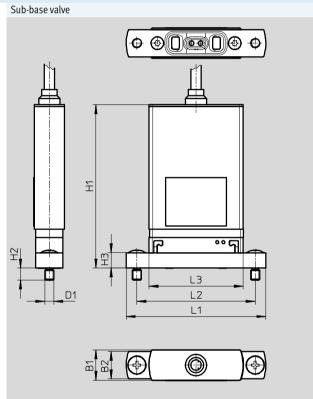
Wiring allocation:

BU = GND

BN = Operating voltage positive

BK = Trigger signal

Туре	B1	D1	D2	H1	H2	H3	L1	L2	L3	L4
MHJ10-SQS4	10	4	2.4	68	13	7	50.5	18	32	9.5
MHJ10-SQS6		6								



Wiring allocation:

BU = GND

BN = Operating voltage positive

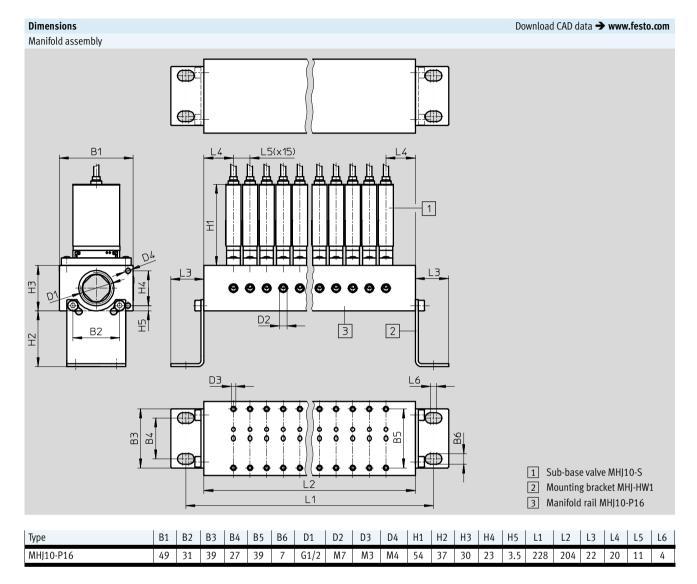
BK = Trigger signal

Туре	B1	B2	D1	H1	H2	H3	L1	L2	L3
MHJ10-S	10	9	M3	54	4	5	46	39	31

Download CAD data → www.festo.com

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Data sheet



Ordering data	l						
	Description	Standard nominal flow rate	Cable length	Product weight	Operating pressure	Part no.	Туре
n-line valve w	vith connecting cable						
	2/2-way solenoid valve	50 l/min	2.5 m	85 g	+0.5 +8 bar	572081	MHJ10-S-2,5-QS-4-LF
ļ		100 l/min	0.35 m	50 g	+0,5 +6 bar	557604	MHJ10-S-0,35-QS-4-MF
			2.5 m	85 g	+0.5 +6 bar	565515	MHJ10-S-2,5-QS-4-MF
		160 l/min	2.5 m	85 g	+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 valv	e with connecting cable				·		
	2/2-way solenoid valve	50 l/min	2.5 m	75 g	+0.5 +8 bar	572080	MHJ10-S-2,5-LF
		100 l/min	0.35 m	40 g	+0,5 +6 bar	557601	MHJ10-S-0,35-MF
A			2.5 m	75 g	+0.5 +6 bar	565513	MHJ10-S-2,5-MF
		160 l/min	2.5 m	75 g	+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			Part no.	Туре
Aanifold rail					
	For 16 valves MHJ10, without mounting bracket, with pneumatic connection M7			557608	MHJ10-P16
Vounting kit				4	
	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			1	
	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 G1/2 for tubing O.D.		12 mm (1 piece)	186104	QS-G1/2-12
S)			16 mm (1 piece)	186105	QS-G1/2-16
			12 mm (10 pieces)	186103	QS-G3/8-12
	Connecting thread G3/8 for tubing O.D.		12 mm (10 picccs)	100105	Q3-03/0-12

	Description	Standard nominal flow	Cable length	Operating	Part no.	Туре
		rate		pressure		
-line valv	e without 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 +4 bar	567793	MHJ9-QS-6-HF/LP
			-	+0.5 +6 bar	567790	MHJ9-QS-6-HF
ub-base v	alve without connecting cable		1			
	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 +4 bar	567792	MHJ9-HF/LP
10			-	+0.5 +6 bar	553117	MHJ9-HF
-line valv	e 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
1			2.5 m	+0.5 +6 bar	565515	MHJ10-S-2,5-QS-4-MF
\sim			2.5 m	+0.5 +4 bar	567798	MHJ10-S-2,5-QS-6-HF/LI
		160 l/min	2.5 111			
		160 l/min	2.5 11	+0.5 +6 bar	567503	MHJ10-S-2,5-QS-6-HF
	also with connecting cable	160 l/min	2.5 m	+0.5 +6 bar	567503	MHJ10-S-2,5-QS-6-HF
ub-base v	alve with connecting cable					
ub-base v	alve with connecting cable 2/2-way solenoid valve	50 l/min	2.5 m	+0.5 +8 bar	572080	MHJ10-S-2,5-LF
ub-base v			2.5 m 0.35 m	+0.5 +8 bar +0,5 +6 bar	572080 557601	MHJ10-S-2,5-LF MHJ10-S-0,35-MF
ub-base v		50 l/min	2.5 m	+0.5 +8 bar	572080	MHJ10-S-2,5-LF
ub-base v		50 l/min	2.5 m 0.35 m	+0.5 +8 bar +0,5 +6 bar	572080 557601	MHJ10-S-2,5-LF MHJ10-S-0,35-MF

Ordering data					
	Description			Part no.	Туре
Connecting cable	2				
	With control electronics for 2 valves,	For LF, MF and HF/LP	0.5 m	553121	MHJ9-KMH-0,5-MF
	mounting on H-rail, for static	valves	2.5 m	565519	MHJ9-KMH-2,5-MF
Contract of the second	applications	For HF valves	0.5 m	562170	MHJ9-KMH-0,5-HF
			2.5 m	567505	MHJ9-KMH-2,5-HF
		I			
Manifold rail ¹⁾					
	For 16 valves MHJ9, without mounting b	553123	MHJ9-PN16		
- THE REAL PROPERTY OF	For 16 valves MHJ9, without mounting b	553125	МНЈ9-Р16		
	For 16 valves MHJ10, without mounting bracket, with pneumatic connection M7				MHJ10-P16
Mounting kit	For manifold rail MHJP16, consisting of 2 mounting brackets and 4 socket head screws M4x8 DIN912			565455	MHJ-HW1
	For manifold rail MHJ9-PN16, consisting of 2 mounting brackets and 4 socket head screws M4x8 DIN912				MHJ-HW2
Push-in fitting fo	r valve output, port 2				
	Connecting thread M7 for tubing O.D.	4 mm (10 pieces)	For manifold rail with LF or MF valves	153319	QSM-M7-4-I
		6 mm (10 pieces)	For manifold rail with HF or HF/LP valves	153321	QSM-M7-6-I
Push-in fitting fo	r air supply, port 1				
Push-in fitting fo	r air supply, port 1 Connecting thread G1/2 for tubing O.D.		12 mm (1 piece)	186104	QS-G1/2-12
Push-in fitting fo			12 mm (1 piece) 16 mm (1 piece)	186104 186105	QS-G1/2-12 QS-G1/2-16
Push-in fitting fo					

1) Further versions/lengths available on request