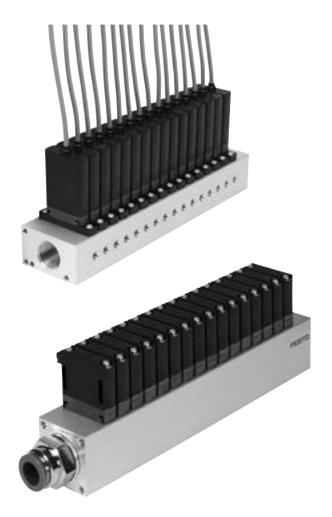
Solenoid valves MHJ, fast-switching valves

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 included in the valve
- Manifold rail with air gun nozzle output 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

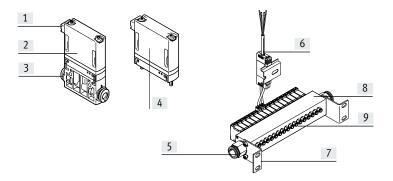
- Reliable servicing thanks to valves that can be replaced quickly and easily
- No electrical plug connectors with MHJ10 thanks to integrated control electronics
- Up to 5 billion switching cycles

Easy to mount

- Solid wall mounting or H-rail mounting of the connecting cables with MHI9
- Manifold rail for MHJ9 with connecting cable block on H-rail can be mounted directly in the application

Key features

MHJ9



11

- [1] Plug
- In-line valve
- Push-in connector
- [4] Sub-base valve
- Air supply
- Connecting cable with control electronics
- Mounting bracket
- Manifold rail
- Push-in connector
- [10] Air gun nozzle
- [11] Manifold rail
- [12] Block mounting on H-rail

In-line valve

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

Valve manifold assembly with individual outputs

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

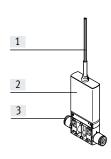
Valve manifold assembly with air gun nozzles

- · 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



- 9 5 6 8

- Connecting cables
- In-line valve
- [3] Push-in connector
- Sub-base valve
- [5] Sub-base valve
- Manifold rail
- Mounting bracket
- Push-in connector
- Air supply

In-line valve

- · Integrated push-in connector
- Electrical connection with moulded-in connecting cable, IP55
- Modular design

Valve manifold assembly with individual outputs

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

Integrated control electronics

- · Compact design
- · Quick installation

Solenoid valves MHJ, fast-switching valves

Product range overview

Function	Design	Operating voltage	Туре	Electrical connection	Switching time ¹⁾		→ Page/Internet					
		[V DC]			Off	On						
2/2-way valve	LF = Standard nominal flow rate 50 l/min											
12	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 nominal 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 nominal 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 nominal	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 0.4 MPa

Mounting op Design	ptions		In-line valve	Sub-base valve
MHJ9 with p	lug			
		Direct mounting		-
		Manifold assembly	-	•
MHI10 with	moulded-in cable			
		Direct mounting	•	-
		Manifold assembly	-	•

Type codes

001	Series	
МНЈ9	Solenoid valve	
MHJ10	Solenoid valve	
002	Control electronics	
	Without integrated control electronics (only with MHJ9)	
S	With integrated control electronics (only with MHJ10)	
003	Cable length	
	Without integrated cable	
2,5	2.5 m	
0,35	0.35 m	

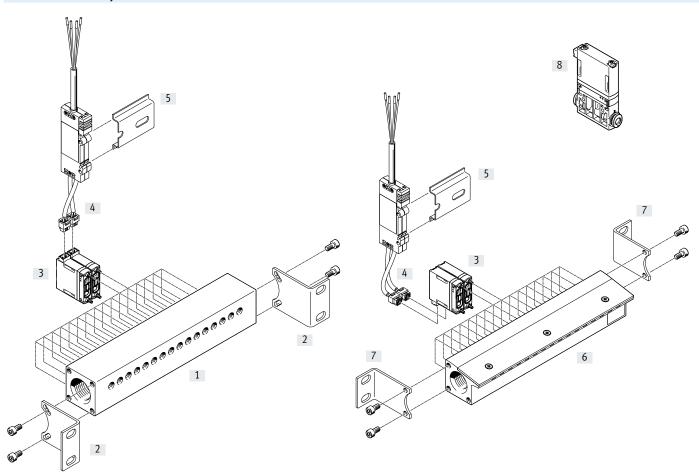
Pneumatic connection	
Sub-base valves	
Push-in connector 4 mm	
Push-in connector 6 mm	
Push-in connector 1/4	
Flow rate	
50 l/min	
100 l/min	
160 l/min	
160 l/min, 0.5 4 bar	
	Sub-base valves Push-in connector 4 mm Push-in connector 6 mm Push-in connector 1/4 Flow rate 50 l/min 100 l/min 160 l/min

Country code None

Imperial connection

Peripherals overview

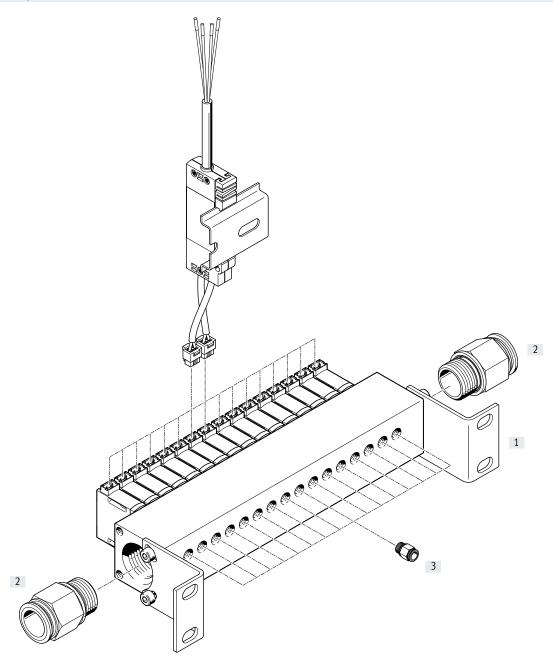
Valve manifold assembly



		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	MHJ9-KMH	With control electronics for 2 solenoid valves	24
[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	МНЈ9	2/2-way solenoid valve	23

Peripherals overview

Valve manifold assembly with accessories

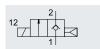


		Туре	Brief description	→ Page/Internet
[1]	Manifold rail	MHJ9-P16	With mounting kit MHJ-HW1	24
[2]	Push-in fitting	QS	For air supply port 1	24
[3]	Push-in fitting	QS	For valve output 2	24

Solenoid valves MHJ9, fast-switching valves

Data sheet

Function









General technical data											
Type	Type I			S		Sub-base	valve MHJ	9			
		LF	MF	HF/LP	HF	LF	LF MF HF/LP HF				
Valve function		2/2-way v	alve, single	solenoid, c	losed	-					
Design		Poppet va	lve without	mechanical	spring retu	rn					
Sealing principle		Hard							•		
Note on operation		Do not op	erate witho	ut flow	-						
Actuation type		Electrical									
Reset method		Pneumati	c spring								
Type of control		Direct									
Flow direction		Non-reversible									
Mounting position		Any									
Width	[mm]	91)									
Grid dimension	[mm]	9.5									
Standard nominal flow rate ²⁾	[l/min]	50	100	160	160	50	100	160	160		
Cvalue	[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 ins	stallation or	via through	-holes	On sub-b	ase				
Pneumatic connection 1 and 2		QS4	QS4	QS6	QS6	Sub-base	M7				
Product weight	[g]	30				25					
Max. tightening torque for valve mounting	[Nm]	-				0.28					

¹⁾ Min. permitted grid dimension 9.5 mm

²⁾ 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 conditions								
Type L			LF	MF	HF/LP	HF		
Operating medium			Compressed air to	ISO 8573-1:2010 [7:4	4:4]			
Note on the operating/pilot medium			Lubricated operat	ion not possible				
Operating pressure		[MPa]	+0.05 +0.8	+0.05 +0.6	+0.05 +0.4	+0.05 +0.6		
		[bar]	+0.5 +8	+0.5 +6	+0.5 +4	+0.5 +6		
Ambient temperature		[°C]	-5 +60					
	With block mounting	[°C]	Max. +45	Max. +45	Max. +45	-		
Temperature of medium		[°C]	-5 +60					
Restricted ambient temperature and temperature	erature of medium		As a function of sv	vitching frequency (see	graph)			
Storage temperature		[°C]	-20 +50					
Permissible solenoid surface temperature		[°C]	+120					
Corrosion resistance class CRC ¹⁾			2					
Note on materials			RoHS-compliant					

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

Mode rate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Electrical data in combination with connec	cting cable MHJ9-KMH								
Туре			LF	MF	HF/LP	HF			
Operating voltage range ¹⁾		[V DC]	12 53						
Note on operating voltage			Operation only	with connecting cable	MHJ9-KMH	P-KMH			
Coil resistance		[ohm]	2.5						
Duty cycle ²⁾		[%]	100	100	100	-			
Operating conditions to DIN VDE 0580 ²⁾	With individual valve		-	-	-	S3 50% 20 min.			
	With block mounting	-	-	-	-	S3 15% 20 min.			
Electrical connection		-	2-pin, plug KN	NH .		·			
Degree of protection 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



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

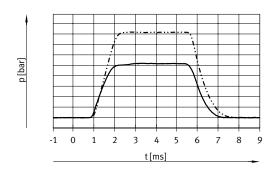
Switching times and frequencies						
Туре			LF	MF	HF/LP	HF
Maximum switching frequency		[Hz]	500	1000	500	500
Tolerance for switching time	On	[%]	±15		•	
	Off	[%]	+15/-25			
Switching times for 12 V DC when new						
Pressure 0.4 MPa (4 bar, 58 psi)	Switching time on	[ms]	1	1.1	1.3	1.4
	Switching time off	[ms]	0.9	0.4	0.5	0.6
Switching times for 24 V DC when new						
Pressure 0.05 MPa (0.5 bar, 7.25 psi)	Switching time on	[ms]	0.7	0.7	0.8	0.9
	Switching time off	[ms]	0.9	0.5	0.5	0.7
Pressure 0.4 MPa (4 bar, 58 psi)	Switching time on	[ms]	0.7	0.8	1	1
	Switching time off	[ms]	0.9	0.4	0.4	0.5
Pressure 0.6 MPa (6 bar, 87 psi)	Switching time on	[ms]	-	0.9	-	1.3
	Switching time off	[ms]	-	0.4	-	0.5
Pressure 0.8 MPa (8 bar, 116 psi)	Switching time on	[ms]	0.8	-	-	=
	Switching time off	[ms]	0.9	-	-	-
Switching times for 48 V DC when new						
Pressure 0.4 MPa (4 bar, 58 psi)	Switching time on	[ms]	0.6	0.6	0.8	0.8
	Switching time off	[ms]	0.8	0.4	0.4	0.4



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.

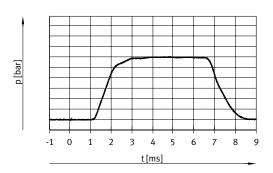
Switching behaviour - Operating pressure

Type LF, MF and HF/LP



4 bar 6 bar

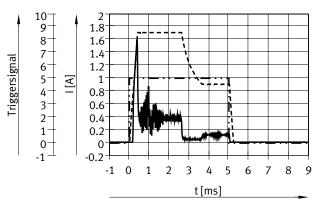
Type HF



4 bar

Switching behaviour - Current/voltage curve

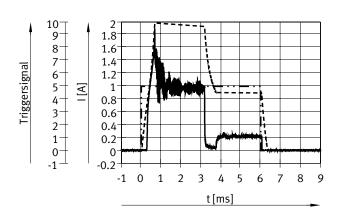
Type LF, MF and HF/LP



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

--- Trigger signal

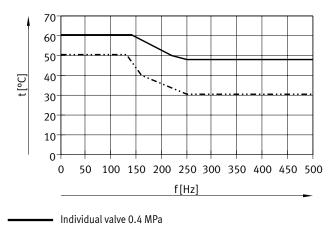
Type HF



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

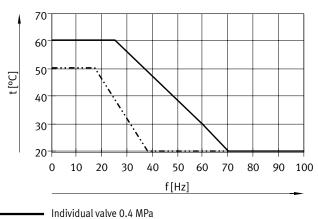
Maximum permissible ambient temperature as a function of switching frequency

Type LF, MF and HF/LP



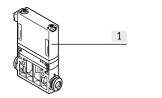
----- Block mounting/sub-base valve, 0.4 MPa

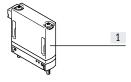
Type HF



----- Block mounting/sub-base valve, 0.4 MPa

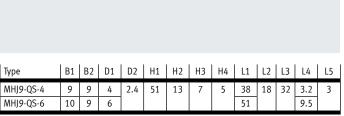
Materials

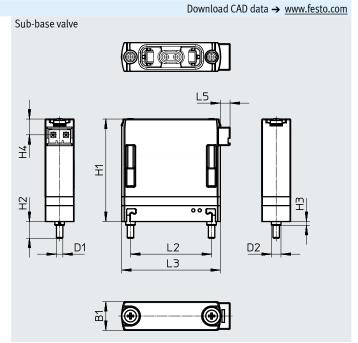




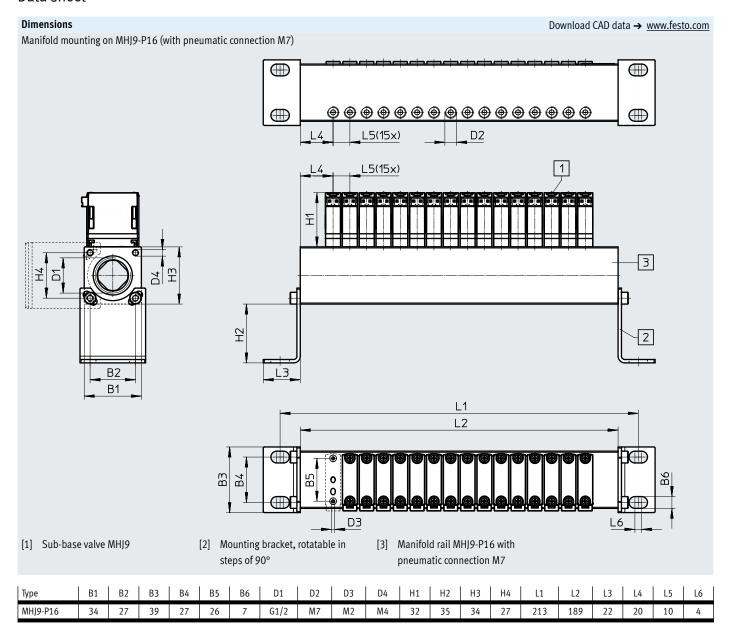
[1]	Housing	Reinforced PA
-	Seals	HNBR
-	Screws	Steel
-	Manifold rail	Anodised wrought aluminium alloy

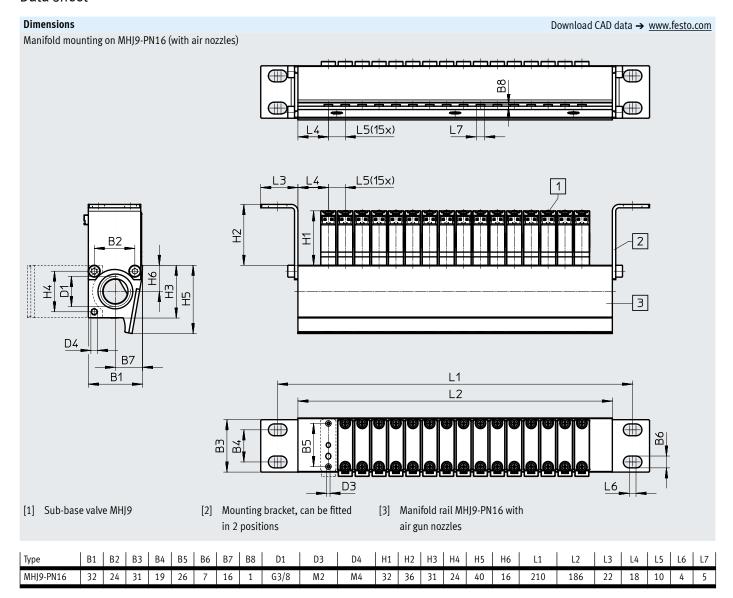
Dimensions Semi in-line valve





Туре	B1	D1	D2	H1	H2	Н3	H4	L2	L3	L5
MHJ9	9	M2	3	32	5.3	1.2	5	25.5	31	3





Data Sileei	L				
Ordering data					
	Description	Standard nominal flow rate	Operating pressure	Part no.	Туре
In-line valve wit	hout connecting cable	'	•		
*	2/2-way solenoid valve	50 l/min	+0.05 +0.8 MPa	572079	MHJ9-QS-4-LF
		100 l/min	+0.05 +0.6 MPa	553118	MHJ9-QS-4-MF
		160 l/min	+0.05 +0.4 MPa	567793	MHJ9-QS-6-HF/LP
		160 l/min	+0.05 +0.6 MPa	567790	MHJ9-QS-6-HF
	20 4 21				
Sub-base valve v	without connecting cable 2/2-way solenoid valve	50 l/min	+0.05 +0.8 MPa	572078	MHJ9LF
	2/2-way solellold valve	100 l/min	+0.05 +0.6 MPa	553115	MHJ9-MF
		160 l/min	+0.05 +0.4 MPa	567792	MHJ9-HF/LP
		160 l/min	+0.05 +0.6 MPa	553117	MHJ9-HF
		· · ·			,
Ordering data –	Accessories Description			Part no.	Туре
Connecting cable	e with control electronics for 2 valves				1
	Mounting on H-rail,	For LF, MF and HF/LP valves	0.5 m	553121	MHJ9-KMH-0.5-MF
	for static applications		2.5 m	565519	MHJ9-KMH-2.5-MF
The same of the sa		For HF valves	0.5 m	562170	MHJ9-KMH-0.5-HF
₩			2.5 m	567505	MHJ9-KMH-2.5-HF
Manifold rail					
	For 16 valves MHJ9, without mounting bracke	· · · ·		553123	MHJ9-PN16
	For 16 valves MHJ9, without mounting bracke	et, with pneumatic connection M7		553125	MHJ9-P16
Mounting kit					
BEE ST	For manifold rail MHJ9-P16, consisting of 2 mounting brackets and 4 sock	xet head screws M4x8 DIN912		565455	MHJ-HW1
444	For manifold rail MHJ9-PN16, consisting of 2 mounting brackets and 4 sock	ket head screws M4x8 DIN912		565456	MHJ-HW2
Push-in fitting fo	or valve output, port 2				
	Connecting thread M7 for tubing O.D.	For manifold rail with LF or MF valves	4 mm (pack of 10)	153319	QSM-M7-4-I
		For manifold rail with HF or HF	/ 6 mm (pack of 10)	153321	QSM-M7-6-I
		LI VAIVES			
Push-in fitting fo	or air supply, port 1				
	Connecting thread G1/2 for tubing O.D.		12 mm (pack of 1)	186104	QS-G1/2-12
			16 mm (pack of 1)	186105	QS-G1/2-16
_	Connecting thread G3/8 for tubing O.D.		12 mm (pack of 10)	186103	QS-G3/8-12
			16 mm (pack of 10)	1962//7	05-63/9-16

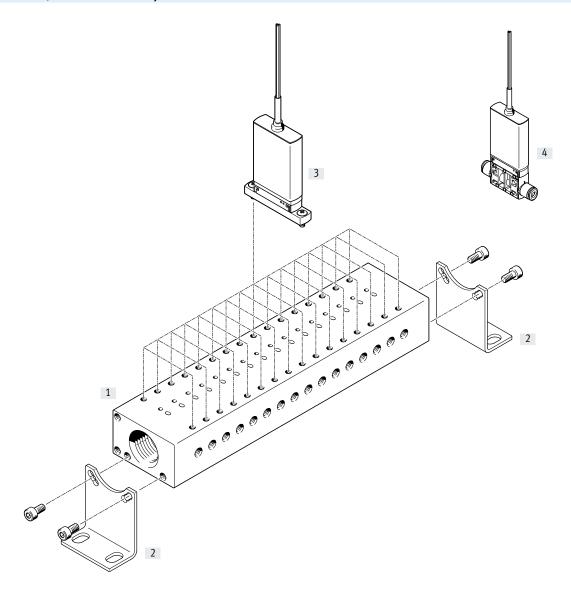
16 mm (pack of 10)

186347

QS-G3/8-16

Peripherals overview

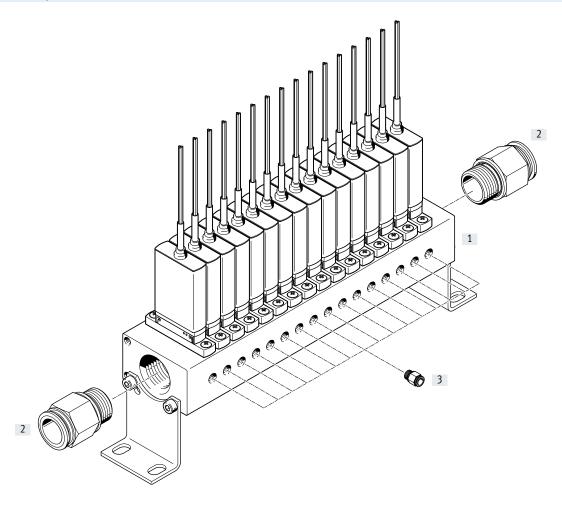
Individual valve, valve manifold assembly



		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

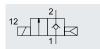
Peripherals overview

Valve manifold assembly with accessories



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

Function



- **[]** - Width 10 mm

- N - Flow rate max. 160 l/min

- **** - Voltage 24 V DC



General technical data									
Туре		In-line va	n-line valve MHJ10-SQS			Sub-ba	Sub-base valve MHJ10-S		
		LF	MF	HF/LP	HF	LF	MF	HF/LP	HF
Valve function		2/2-way	valve, single	e solenoid, cl	osed	-			
Design		Poppet v	alve without	t mechanical	spring retur	n			
Sealing principle		Hard					-		
Note on operation		Do not o	perate withou	out flow	-				
Actuation type		Electrical							
Reset method		Pneumatic spring Pneumatic spring							
Type of control	,	Direct							
Flow direction	,	Non-reve	rsible						
Mounting position		Any							
Width	[mm]	10 ¹⁾							
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 o	r via through-	holes	On sul	o-base		
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								
Туре			LF	MF	HF/LP	HF		
Operating medium			Compressed air to	ISO 8573-1:2010 [7:4	:4]			
Note on the operating/pilot medium			Lubricated operat	on not possible				
Operating pressure		[MPa]	+0.05 +0.8	+0.05 +0.6	+0.05 +0.4	+0.05 +0.6		
		[bar]	+0.5 +8	+0.5 +6	+0.5 +4	+0.5 +6		
Ambient temperature		[°C]	-5 +60					
With	n block mounting	[°C]	Max. +45	Max. +45	Max. +45	-		
Temperature of medium		[°C]	-5 +60	•				
Restricted ambient temperature and temperature of	f medium		As a function of switching frequency (see graph)					
Storage temperature		[°C]	-20 +50					
Permissible solenoid surface temperature		[°C]	+120					
Corrosion resistance class CRC ¹⁾			2					
CE marking (see declaration of conformity)			To EU EMC Directiv	re ²⁾				
KC mark			KC EMC					
Certification			RCM compliance n	nark				
Note on materials			RoHS-compliant		-			

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

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

²⁾ For information about the area of use, see the EC declaration of conformity at: www.festo.com/catalogue/... → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Solenoid valves MHJ10, fast-switching valves

Data sheet

Electrical data							
Туре			LF	MF	HF/LP	HF	
Operating voltage ¹⁾		[V DC]	24 ±10% = 2	1.6 26.4			
Trigger signal range		[V DC]	3 30				
Input resistance		[kΩ]	34				
Note on input current		Linear rise					
		0.09 0.44	mA with a trigger sigr	nal of 3 15 V DC			
			0.44 15.44 mA with 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 operating	voltage			
Additional functions			Spark arresting				
			Holding current reduction with energy recovery				
			Safety shut-off				
Degree of protection to EN 60529			IP55				
Duty cycle ²⁾		[%]	100	100	100	_	
Operating conditions to DIN VDE 0580 ²⁾	With individual valve	•	-	-	-	S3 50% 20 min.	
	With block mounting	•	-	-	-	S3 15% 20 min.	
Electrical connection			Cable, 3-wire	!			

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 and frequencies						
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 new						
Pressure 0.05 MPa (0.5 bar, 7.25 psi)	Switching time on	[ms]	0.7	0.8	0.8	1
	Switching time off	[ms]	0.9	0.5	0.6	0.8
Pressure 0.4 MPa (4 bar, 58 psi)	Switching time on	[ms]	0.8	0.8	1	1.2
	Switching time off	[ms]	1	0.4	0.5	0.6
Pressure 0.6 MPa (6 bar, 87 psi)	Switching time on	[ms]	_	0.9	-	1.3
	Switching time off	[ms]	_	0.4	-	0.6
Pressure 0.8 MPa (8 bar, 116 psi)	Switching time on	[ms]	0.9	_	-	-
	Switching time off	[ms]	0.9	-	-	-

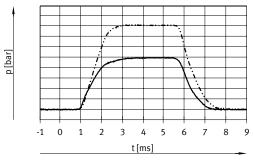


- Note

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.

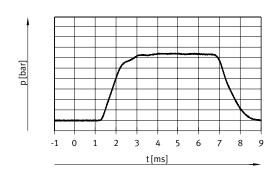
Switching behaviour - Operating pressure

Type LF, MF and HF/LP



— 4 bar

Type HF



______ 4 bar

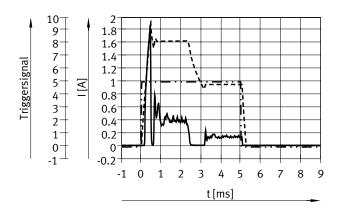
Type HF

Switching behaviour - Current/voltage curve

Type LF, MF and HF/LP

6 bar

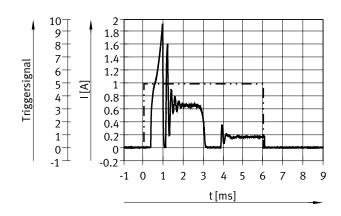




Current in the supply line at 24 V

Coil current

Trigger signal

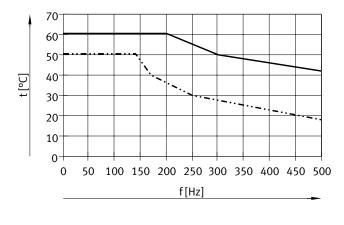


Current in the supply line at 24 V
Trigger signal

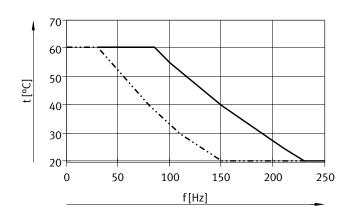
Maximum permissible ambient temperature as a function of switching frequency

Type LF, MF and HF/LP





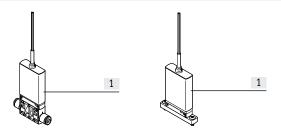
Individual valve 0.4 MPa
Block mounting/sub-base valve, 0.4 MPa



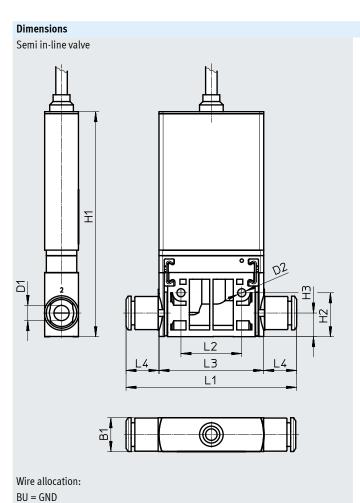
Individual valve 0.4 MPa

Block mounting/sub-base valve, 0.4 MPa

Materials



[1] Housing Reinforced PA	
Reinforced PPS	
- Seals HNBR	
- Screws Steel	
- Cable sheath PUR	
- Manifold rail Anodised wrought alumin	ium alloy



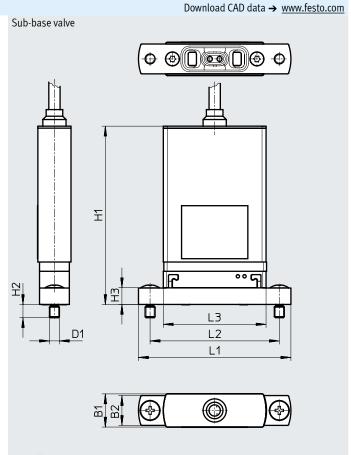
 Type
 B1
 D1
 D2
 H1
 H2
 H3
 L1
 L2
 L3
 L4

 MHJ10-S...QS4
 10
 4
 2.4
 68
 13
 7
 50.5
 18
 32
 9.5

 MHJ10-S...QS6
 6
 6
 8
 13
 7
 50.5
 18
 32
 9.5

BN = Operating voltage positive

BK = Trigger signal



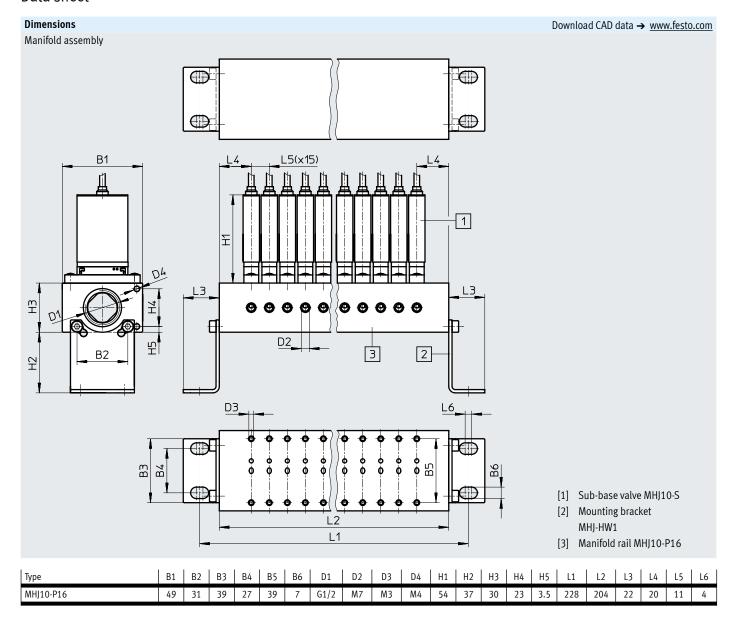
Wire allocation:

BU = GND

BN = Operating voltage positive

BK = Trigger signal

Туре	B1	B2	D1	H1	H2	Н3	L1	L2	L3
MHJ10-S	10	9	М3	54	4	5	46	39	31



Ordering data							
	Description	Standard nominal flow rate	Cable length	Product weight	Operating pressure	Part no.	Туре
In-line valve with	connecting cable						
1	2/2-way solenoid valve	50 l/min	2.5 m	85 g	+0.05 +0.8 MPa	572081	MHJ10-S-2.5-QS-4-LF
		100 l/min	0.35 m	50 g	+0.05 +0.6 MPa	557604	MHJ10-S-0.35-QS-4-MF
			2.5 m	85 g	+0.05 +0.6 MPa	565515	MHJ10-S-2.5-QS-4-MF
		160 l/min	2.5 m	85 g	+0.05 +0.4 MPa	567798	MHJ10-S-2.5-QS-6-HF/LP
					+0.05 +0.6 MPa	567503	MHJ10-S-2.5-QS-6-HF
Sub-base valve wi	ith connecting cable						
ì	2/2-way solenoid valve	50 l/min	2.5 m	75 g	+0.05 +0.8 MPa	572080	MHJ10-S-2.5-LF
		100 l/min	0.35 m	40 g	+0.05 +0.6 MPa	557601	MHJ10-S-0.35-MF
			2.5 m	75 g	+0.05 +0.6 MPa	565513	MHJ10-S-2.5-MF
		160 l/min	2.5 m	75 g	+0.05 +0.4 MPa	567796	MHJ10-S-2.5-HF/LP
					+0.05 +0.6 MPa	567502	MHJ10-S-2.5-HF

Ordering data – Acc	essories				
	Description			Part no.	Туре
Manifold rail					
	For 16 valves MHJ10, without mou	unting bracket, with pneumatic connection M7		557608	MHJ10-P16
Mounting kit					
BBB O	For manifold rail MHJ10-P16, consisting of 2 mounting brackets	565455	MHJ-HW1		
Push-in fitting for v	alve output, port 2				
	Connecting thread M7 for tubing	For manifold rail with LF or MF valves	4 mm (pack of 10)	153319	QSM-M7-4-I
	O.D. For manifold rail with HF or HF/LP valves 6 mm (pack of 10)				QSM-M7-6-I
Push-in fitting for a	ir supply, port 1				
	Connecting thread G1/2 for tubing	g O.D.	12 mm (pack of 1)	186104	QS-G1/2-12
	16 mm (pack of 1)				QS-G1/2-16
	Connecting thread G3/8 for tubing	g O.D.	12 mm (pack of 10)	186103	QS-G3/8-12
			16 mm (pack of 10)	186347	QS-G3/8-16

Accessories

ring data	i .			1	1	1
	Description	Standard nominal flow rate	Cable length	Operating pressure	Part no.	Туре
ne valve v	vithout connecting cable					
	2/2-way solenoid valve	50 l/min	-	+0.05 +0.8 MPa	572079	MHJ9-QS-4-LF
		100 l/min	-	+0.05 +0.6 MPa	553118	MHJ9-QS-4-MF
		160 l/min	-	+0.05 +0.4 MPa	567793	MHJ9-QS-6-HF/LP
			-	+0.05 +0.6 MPa	567790	MHJ9-QS-6-HF
b-base valv	ve without connecting cable					
	2/2-way solenoid valve	50 l/min	-	+0.05 +0.8 MPa	572078	MHJ9LF
		100 l/min	-	+0.05 +0.6 MPa	553115	MHJ9-MF
		160 l/min	-	+0.05 +0.4 MPa	567792	MHJ9-HF/LP
		, i	-	+0.05 +0.6 MPa	553117	MHJ9-HF
-line valve v	vith connecting cable					
1	2/2-way solenoid valve	50 l/min	2.5 m	+0.05 +0.8 MPa	572081	MHJ10-S-2.5-QS-4-LF
		100 l/min	0.35 m	+0.05 +0.6 MPa	557604	MHJ10-S-0.35-QS-4-MF
			2.5 m	+0.05 +0.6 MPa	565515	MHJ10-S-2.5-QS-4-MF
$\sqrt{1}$		160 l/min	2.5 m	+0.05 +0.4 MPa	567798	MHJ10-S-2.5-QS-6-HF/LP
				+0.05 +0.6 MPa	567503	MHJ10-S-2.5-QS-6-HF
ub-base valv	ve with connecting cable					
1	2/2-way solenoid valve	50 l/min	2.5 m	+0.05 +0.8 MPa	572080	MHJ10-S-2.5-LF
		100 l/min	0.35 m	+0.05 +0.6 MPa	557601	MHJ10-S-0.35-MF
			2.5 m	+0.05 +0.6 MPa	565513	MHJ10-S-2.5-MF
_		160 l/min	2.5 m	+0.05 +0.4 MPa	567796	MHJ10-S-2.5-HF/LP
				+0.05 +0.6 MPa	567502	MHJ10-S-2.5-HF
ĬΙ						

Solenoid valves MHJ, fast-switching valves

Accessories

Ordering data					
	Description			Part no.	Туре
Connecting cable					
	With control electronics for 2 valves, mount-	For LF, MF and HF/LP valves	0.5 m	553121	MHJ9-KMH-0.5-MF
	ing on H-rail, for static applications		2.5 m	565519	MHJ9-KMH-2.5-MF
		For HF valves	0.5 m	562170	MHJ9-KMH-0.5-HF
			2.5 m	567505	MHJ9-KMH-2.5-HF
Manifold rail 1)					
	For 16 valves MHJ9, without mounting bracket, with air gun nozzles				MHJ9-PN16
	For 16 valves MHJ9, without mounting bracket, with pneumatic connection M7			553125	МНЈ9-Р16
	For 16 valves MHJ10, without mounting bracket, with pneumatic connection M7			557608	MHJ10-P16
Mounting kit					
888	For manifold rail MHJP16, consisting of 2 mounting brackets and 4 socket head screws M4x8 DIN912			565455	MHJ-HW1
444	For manifold rail MHJ9-PN16, consisting of 2 mounting brackets and 4 socket head screws M4x8 DIN912			565456	MHJ-HW2
Push-in fitting for v	valve output, port 2				
	Connecting thread M7 for tubing O.D.	4 mm (pack of 10)	For manifold rail with LF or MF valves	153319	QSM-M7-4-I
		6 mm (pack of 10)	For manifold rail with HF or HF/LP valves	153321	QSM-M7-6-I
Push-in fitting for a	air supply, port 1				
	Connecting thread G1/2 for tubing O.D. 12 mm (pack of 1)			186104	QS-G1/2-12
	16 mm (pack of 1)			186105	QS-G1/2-16
	Connecting thread G3/8 for tubing O.D. 12 mm (pack of 10)			186103	QS-G3/8-12

¹⁾ Further versions/lengths available on request