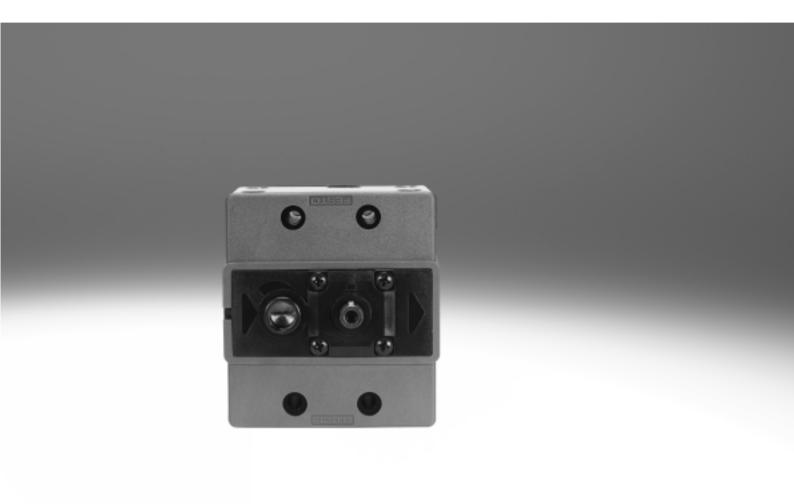
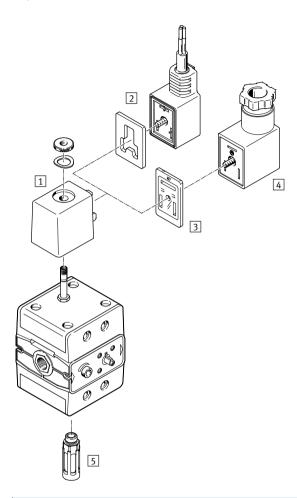
Solenoid valves MFHE/Pneumatic valves VLHE



Solenoid valves MFHE/Pneumatic valves VLHEPeripherals overview

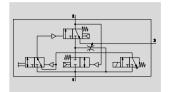


Accessories									
	MFHE	VLHE	→ Page/Internet						
Solenoid coil MSFG/MSFW	•	-	8						
2 Plug socket with cable KMF		-	8						
3 Illuminating seal MF-LD		_	8						
4 Plug socket MSSD-F		_	8						
5 Silencer U			8						

Solenoid valves MFHE FESTO

Technical data

Function



- 11 -

Flow rate 1,200 ... 2,900 l/min



Temperature range −10 ... +60 °C



Operating pressure 2 ... 10 bar/28 ... 145 psi



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Solenoid actuated soft start valve for gradual pressure build-up in pneumatic systems. This ensures safe start-up of pneumatic systems. A minimal amount of air flows into the system via an adjustable flow control valve. Output pressure is built up slowly. Downstream cylinders and working devices are slowly advanced to their initial positions. When the

output pressure reaches approx. 50% of the supply pressure, the valve switches to full flow.

- For F solenoid coils
 - 12, 24, 42 V DC
 - 24, 42, 48, 110, 230, 240 V AC (50 ... 60 Hz)
- On-off valve in combination with service units
- · Manual override, detenting



- Note

Manual override can be detented and secured in the initial position. In the depressed position, the manual override is advanced automatically to its initial position when the valve is actuated.



Note

Control voltage should not be switched to downstream solenoid valves until after pressure has been built up.

3

General technical data				
Туре		MFHE-3-1/4-B	MFHE-3-3/8	MFHE-3-1/2
Pneumatic connection 1, 2		G1/4	G ³ /8	G ¹ / ₂
Pneumatic connection 3		G1/4	G3/8	G1/2
Nominal diameter [r	mm]	8	9	12
Design		Disk seat	-	,
Type of mounting		Via through-holes		
Mounting position		Any		
Valve function		3/2-way valve, closed, single solenoid		
Exhaust function		Without flow control		
Reset method		Mechanical spring		
Actuation type		Direct		
Direction of flow		Non-reversible		
Sealing principle		Soft		
Response time on/off [r	ms]	12/80	20/94	28/76

Standard nominal flow rate qnN [l/min]							
Pneumatic connection		G ¹ / ₄	G ³ /8	G1/2			
In flow direction	unthrottled	1,200	2,100	2,900			
1 2	throttled	max. 150	max. 450	max. 450			
In venting direction		1,600	2,700	3,400			
2 3							

Solenoid valves MFHE

FESTO

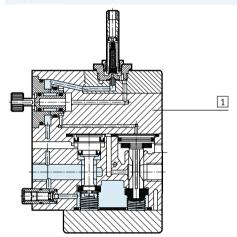
Technical data

Operating and environmental conditions					
Operating pressure	[bar]	2 10			
	[psi]	28 145			
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
Note on operating/pilot med	um	Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Ambient temperature	[°C]	-5 +40			
Temperature of medium	[°C]	-10 +60			

Weights [g]							
Pneumatic connection	G1/4	G3/8	G½				
Solenoid valve MFHE	550	800	1,000				

Materials

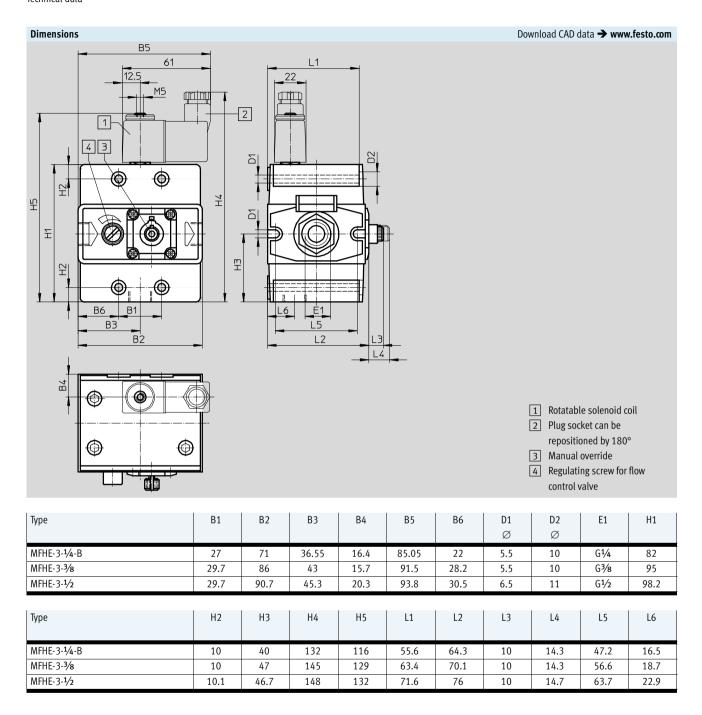
Sectional view



Solenoid valve	
1 Housing	POM, aluminium, steel, brass
- Seals	NBR
Note on materials	RoHS-compliant (only MFHE-3-1/4-B)

Solenoid valves MFHE

Technical data



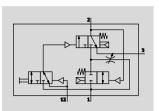
Ordering data		
Pneumatic connection	Part No.	Туре
G ¹ / ₄	14329	MFHE-3-1/4-B
G3/8	12908	MFHE-3-3/8
G ¹ / ₂	10421	MFHE-3-1/2

Pneumatic valves VLHE

Technical data

FESTO

Function



Flow rate 1,200 ... 2,900 l/min

- Temperature range -10 ... +60 °C

Operating pressure 2 ... 12 bar/28 ... 180 psi

- www.festo.com



Pneumatically actuated soft start valve for gradual pressure build-up in pneumatic systems. This ensures safe start-up of pneumatic systems.

A minimal amount of air flows into the system via an adjustable flow control valve. Output pressure is built up slowly. Downstream cylinders and

work devices are slowly advanced to their initial positions. When the output pressure reaches approx. 50% of the supply pressure, the valve switches to full flow.

- On-off valve in combination with service units
- Manual override, detenting

- 🖢 - Note

Manual override can be detented and secured in the initial position. In the depressed position, the manual override is advanced automatically to its initial position when the valve is actuated.

General technical data							
Туре	VLHE-3-1/4-B	VLHE-3-3/8	VLHE-3-1/2				
Pneumatic connection 1, 2	G1/4	G3/8	G ¹ / ₂				
Pneumatic connection 3	G1/4	G3/8	G1/2				
Pneumatic connection 12 (pilot air)	G1/8	G1/8	G1/8				
Nominal diameter [mm]	8	9	12				
Design	Disk seat	sk seat					
Type of mounting	Via through-holes						
Mounting position	Any						
Valve function	3/2-way valve, closed, single sole	noid					
Exhaust function	With flow control						
Sealing principle	Soft						
Response time on/off [ms]	8/23	8.5/19.5	25/39				

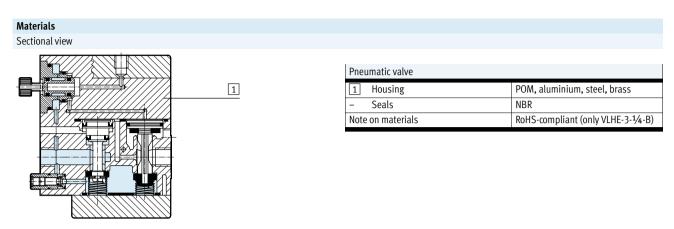
Standard nominal flow rate qnN [l/min]							
Pneumatic connection		G ¹ / ₄	G ³ /8	G1/2			
In flow direction unthrottled		1,200	2,100	2,900			
1} 2	throttled	max. 150	max. 450	max. 450			
In venting direction		1,600	2,700	3,400			
2} 3							

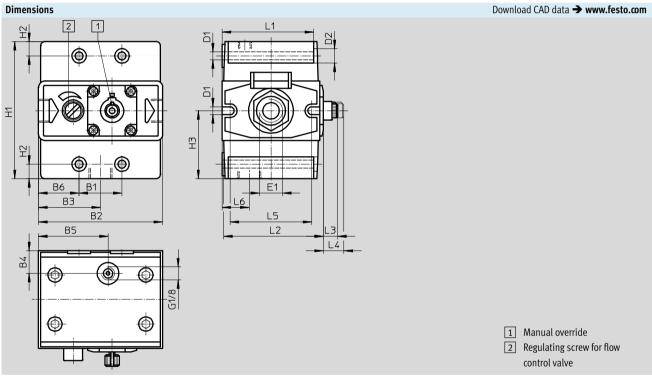
Operating and environmental conditions					
Operating pressure	[bar]	212			
	[psi]	28 180			
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
Note on operating/pilot med	lium	Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Ambient temperature	[°C]	-10 +60			
Temperature of medium	[°C]	-10 +60			

Weights [g]							
Pneumatic connection	G1/4	G3/8	G½				
Pneumatic valve VLHE	430	790	980				

Pneumatic valves VLHE

Technical data





Туре	B1	B2	В3	B4	B5	В6	D1	D2	E1
							Ø	Ø	
VLHE-3-1/4-B	27	71	36.5	16.5	40	22	5.5	10	G1/4
VLHE-3-3/8	29.7	86	43	15.7	48.2	28	5.5	10	G3/8
VLHE-3-1/2	29.7	90.7	45.3	20.2	51	30.5	6.5	11	G½

Туре	H1	H2	Н3	L1	L2	L3	L4	L5	L6
VLHE-3-1/4-B	82	10	40	55.6	64.3	10	14.3	47.2	16.5
VLHE-3-3/8	95	10	47	63.4	70.1	10	14.3	56.6	18.7
VLHE-3-1/2	98.2	10.1	46.7	71.6	76	10	14.7	63.7	22.9

Ordering data		
Pneumatic connection	Part No.	Туре
G ¹ / ₄	14330	VLHE-3-1/4-B
G3/8	12909	VLHE-3-3/8
G½	10420	VLHE-3-1/2

Solenoid valves MFHE/Pneumatic valves VLHE Accessories



Ordering data - 9	Solenoid coils MSFG/MSFW				Technical data → Internet: msf
	Description	Operating voltage		Part No.	Туре
		V DC	V AC (50 60 Hz)		
00	F solenoid coil, with spring washer and	12	-	34410	MSFG-12DC-OD
	knurled nut, without plug socket	24	42	34411	MSFG-24DC/42AC-OD
		42	-	34413	MSFG-42DC-OD
j		-	24	34415	MSFW-24AC-OD
		-	48	34418	MSFW-48AC-OD
		-	110	34420	MSFW-110AC-OD
		-	230	34422	MSFW-230AC-OD
		-	240	34424	MSFW-240AC-OD

ĺ	Ordering data – Plug sockets with cable KMF Technical of						
		Nominal operating voltage	Switching status display	Cable length [m]	Part No.	Туре	
ĺ		24 V DC	LED	2.5	30935	KMF-1-24DC-2,5-LED	
				5	30937	KMF-1-24DC-5-LED	
				10	193458	KMF-1-24-10-LED	
		230 V AC	_	2.5	30936	KMF-1-230AC-2,5	
				5	30938	KMF-1-230AC-5	

	Ordering data – Ill	uminating seal MF-LD		Technical data → Internet: mf
		Operating voltage range	Part No.	Туре
		12 24 V DC	19143	MF-LD-12-24DC
	137	230 V DC/V AC ±10%	19144	MF-LD-230AC

Ordering data -	Plug sockets MSSD-F		Technical data → Internet: mssd
	Type of mounting: cable connection	Part No.	Туре
(O)	Cable conduit fitting Pg9	34431	MSSD-F
	Cable conduit fitting M16	539710	MSSD-F-M16
	Insulation displacement connector	192746	MSSD-F-S-M16

Ordering data – S	ilencers U		Technical data → Internet: u
	Pneumatic connection	Part No.	Туре
	G1/4	6842	U-1/4-B
	G3/8	6843	U-3/8-B
	G½	6844	U-1/2-B