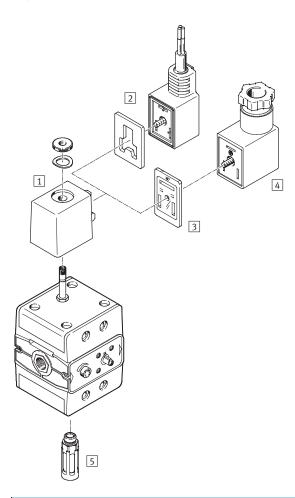
Solenoid valves MFHE/Pneumatic valves VLHE

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Solenoid valves MFHE/Pneumatic valves VLHE Peripherals overview





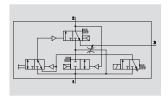
Accessories								
	MFHE	VLHE	→ Page/Internet					
1 Solenoid coil MSFG/MSFW	•	-	8					
2 Plug socket with cable KMF	•	-	8					
3 Illuminating seal MF-LD	•	-	8					
4 Plug socket MSSD-F	•	-	8					
5 Silencer U		•	8					

Solenoid valves MFHE



Technical data

Function



valve. Output pressure is built up

slowly. Downstream cylinders and

to their initial positions. When the

working devices are slowly advanced

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 switches to full flow. pneumatic systems. This ensures safe start-up of pneumatic systems. • For F solenoid coils A minimal amount of air flows into the - 12, 24, 42 V DC system via an adjustable flow control

output pressure reaches approx. 50% of the supply pressure, the valve

- 24, 42, 48, 110, 230, 240 V AC (50 ... 60 Hz)
- On-off valve in combination with service units
- Manual override, detenting





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.

General technical data					
Туре		MFHE-3-1/4-B	MFHE- 3-3/8	MFHE- 3-1/2	
Pneumatic connection 1, 2		G1/4	G3/8	G½	
Pneumatic connection 3		G1/4	G3/8	G1/2	
Nominal diameter [m	mm]	8	9	12	
Design		Disk seat			
Type of mounting		Via through-holes			
Mounting position		Any			
Valve function		3/2-way valve, single solenoid, closed			
Exhaust function		Without flow control			
Reset method		Mechanical spring			
Actuation type		Direct			
Direction of flow		Non-reversible			
Sealing principle		Soft			
Response time on/off [m	ms]	12/80	20/94	28/76	

Standard nominal flow rate qnN [l/min]							
Pneumatic connection		G1/4	G3/8	G ¹ / 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 Technical data

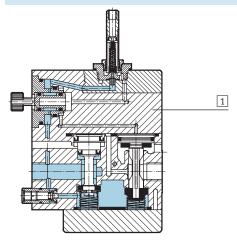


Operating and environmental conditions						
Operating pressure	[bar]	210				
[psi] 28 145						
Operating medium Compressed air, lubricated or unlubricated						
Ambient temperature [°C] -5 +40						
Temperature of medium	[°C]	-10 +60				

Weights [g]						
Pneumatic connection	G1/4	G3/8	G ¹ / ₂			
Solenoid valve MFHE	550	800	1,000			

Materials

Sectional view

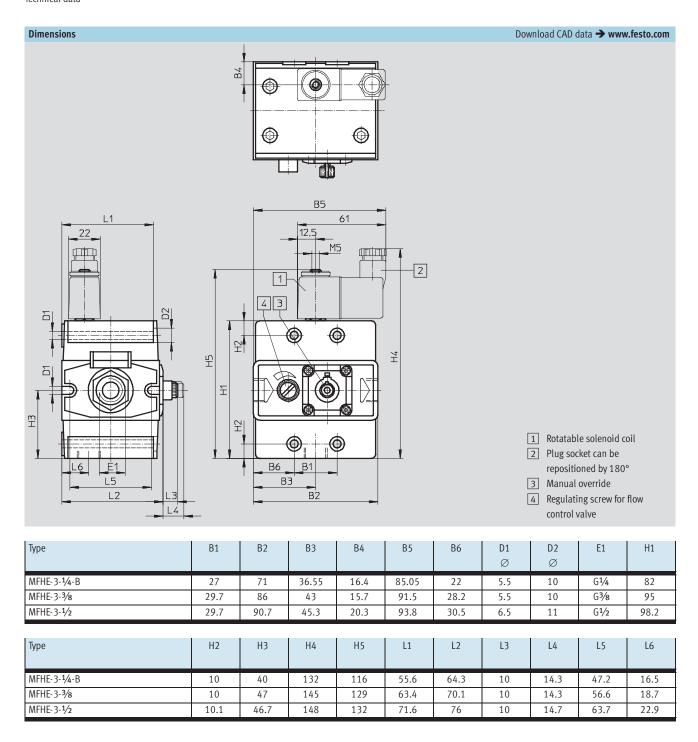


Sole	noid valve	
1	Housing	Polyacetal, aluminium, steel, brass
-	Seals	Nitrile rubber

Solenoid valves MFHE

Technical data





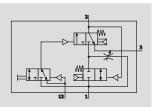
Ordering data		
Pneumatic connection	Part No.	Туре
G1/4	14329	MFHE-3-1/4-B
G3/8	12908	MFHE-3-3/8
G ¹ / ₂	10421	MFHE-3-1/2

Pneumatic valves VLHE

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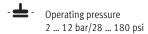
Technical data



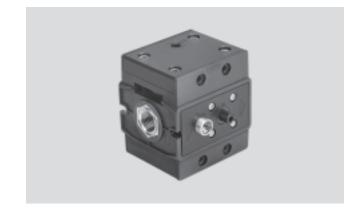


- N - Flow rate 1,200 ... 2,900 l/min









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	G ¹ / ₄	G3/8	G½				
Pneumatic connection 3	G1/4	G3/8	G ¹ / ₂				
Pneumatic connection 12 (pilot air)	G ¹ / ₈	G½	G ¹ / ₈				
Nominal diameter [mm]	8	9 12					
Design	Disk seat	Disk seat					
Type of mounting	Via through-holes						
Mounting position	Any						
Valve function	3/2-way valve, single solenoid, closed						
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		G1/4	G3/8	G½			
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							

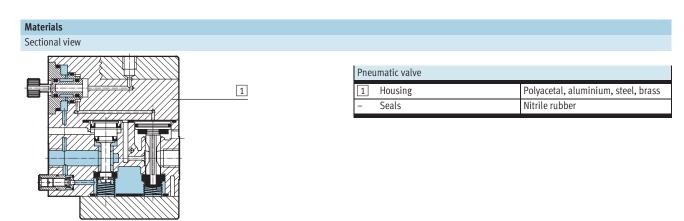
Operating and environment	Operating and environmental conditions						
Operating pressure	[bar]	2 12					
[psi] 28 180							
Operating medium		Compressed air, lubricated or unlubricated					
Ambient temperature [°C] -10 +60							
Temperature of medium	[°C]	-10 +60					

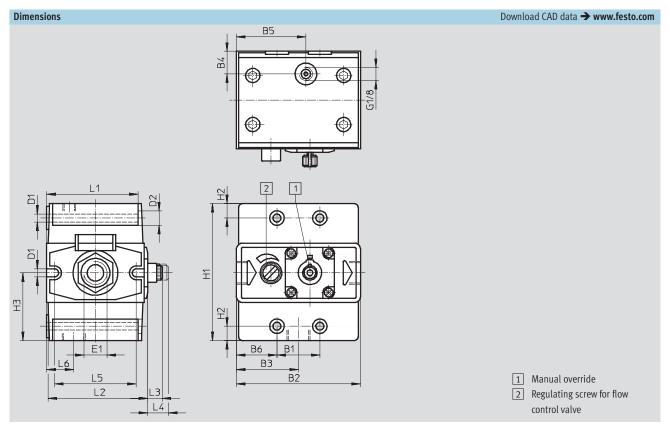
Weights [g]						
Pneumatic connection	G1/4	G3/8	G ¹ / ₂			
Pneumatic valve VLHE	430	790	980			

Pneumatic valves VLHE



Technical data





Туре	B1	B2	В3	B4	B5	В6	D1 Ø	D2 Ø	E1
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
G1/4	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)		
0	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
		-	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

Ordering data – Plug sockets with cable KMF Technical data						
		Nominal operating voltage		Cable length [m]	Part No.	Туре
r		24 V DC	LED	2.5	30935	KMF-1-24DC-2,5-LED
١,				5	30937	KMF-1-24DC-5-LED
I				10	193458	KMF-1-24-10-LED
١,		230 V AC	-	2.5	30936	KMF-1-230AC-2,5
				5	30938	KMF-1-230AC-5

	Ordering data – Illuminating seal MF-LD			Technical data → Internet: mf
l		Operating voltage range	Part No.	Туре
		12 24 V DC	19143	MF-LD-12-24DC
		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	Pa	art No.	Туре
	Cable conduit fitting Pg9	34	4431	MSSD-F
	Cable conduit fitting M16	53	39710	MSSD-F-M16
	Insulation displacement connector	19	92746	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
G ³ /8	G3/8	6843	U-3/8-B
	G½	6844	U-1/2-B

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