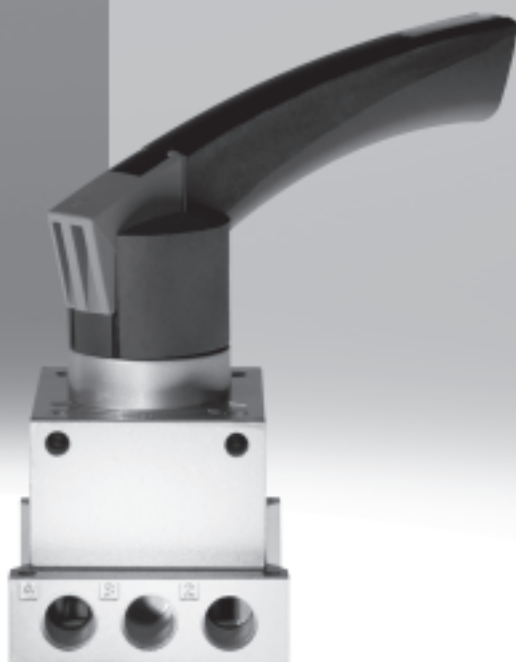


Hand lever valves VHER

FESTO



Hand lever valves VHER

Key features

FESTO

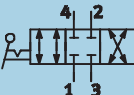
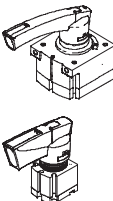
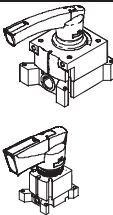
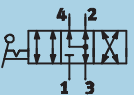
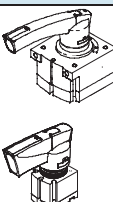
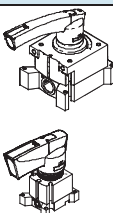


Powerful	Versatile	Practical	
-  - Flow rate 170 ... 4,300 l/min	• 4/3-way valve mid-position closed mid-position exhausted • Connections: M5, G$\frac{1}{8}$, G$\frac{1}{4}$, G$\frac{1}{2}$ • 3/3-way valve The hand lever valves VHER can be used as 3/3-way valves by sealing port 2	With these valves it is possible to stop single-acting cylinders (3/3-way valve) or double-acting cylinders (4/3-way valve) within the stroke range.	In mid-position closed, the drive piston moves until the forces are balanced. In mid-position exhausted the piston can be moved manually; only the frictional forces have to be overcome.

Hand lever valves VHER

Product range overview

FESTO

Function	Version	Type	Nominal flow rate	Lever				Connection				→ Page/ Internet
			[l/min]	Plastic		Metal		M5	G1/8	G1/4	G1/2	
				small	large	small	large					
		Ports underneath										
		VHER-AH-M04C-G18-UD	800	–	–	■	–	–	■	–	–	7
		VHER-AH-M04C-G14-UD	1,500	–	–	–	■	–	–	■	–	
		VHER-AH-M04C-G12-UD	4,300	–	–	–	■	–	–	–	■	
		VHER-BH-M04C-M05-UD	260	■	–	–	–	■	–	–	–	14
		VHER-BH-M04C-G18-UD	800	■	–	–	–	–	■	–	–	
		VHER-BH-M04C-G14-UD	1,500	–	■	–	–	–	–	■	–	
		VHER-BH-M04C-G12-UD	4,300	–	■	–	–	–	–	–	■	
	Ports at side											
		VHER-AH-M04C-G18-LD	600	–	–	■	–	–	■	–	–	7
		VHER-AH-M04C-G14-LD	1,150	–	–	–	■	–	–	■	–	
		VHER-AH-M04C-G12-LD	3,500	–	–	–	■	–	–	–	■	
		VHER-BH-M04C-M05-LD	170	■	–	–	–	■	–	–	–	14
		VHER-BH-M04C-G18-LD	600	■	–	–	–	–	■	–	–	
		VHER-BH-M04C-G14-LD	1,150	–	■	–	–	–	–	■	–	
		VHER-BH-M04C-G12-LD	3,500	–	■	–	–	–	–	–	■	
Ports at side												
		Ports underneath										
		VHER-AH-M04E-G18-UD	800	–	–	■	–	–	■	–	–	7
		VHER-AH-M04E-G14-UD	1,500	–	–	–	■	–	–	■	–	
		VHER-AH-M04E-G12-UD	4,300	–	–	–	■	–	–	–	■	
		VHER-BH-M04E-M05-UD	260	■	–	–	–	■	–	–	–	14
		VHER-BH-M04E-G18-UD	800	■	–	–	–	–	■	–	–	
		VHER-BH-M04E-G14-UD	1,500	–	■	–	–	–	–	■	–	
		VHER-BH-M04E-G12-UD	4,300	–	■	–	–	–	–	–	■	
	Ports at side											
		VHER-AH-M04E-G18-LD	600	–	–	■	–	–	■	–	–	7
		VHER-AH-M04E-G14-LD	1,150	–	–	–	■	–	–	■	–	
		VHER-AH-M04E-G12-LD	3,500	–	–	–	■	–	–	–	■	
		VHER-BH-M04E-M05-LD	170	■	–	–	–	■	–	–	–	14
		VHER-BH-M04E-G18-LD	600	■	–	–	–	–	■	–	–	
		VHER-BH-M04E-G14-LD	1,150	–	■	–	–	–	–	■	–	
		VHER-BH-M04E-G12-LD	3,500	–	■	–	–	–	–	–	■	

Hand lever valves VHER

Type codes

FESTO

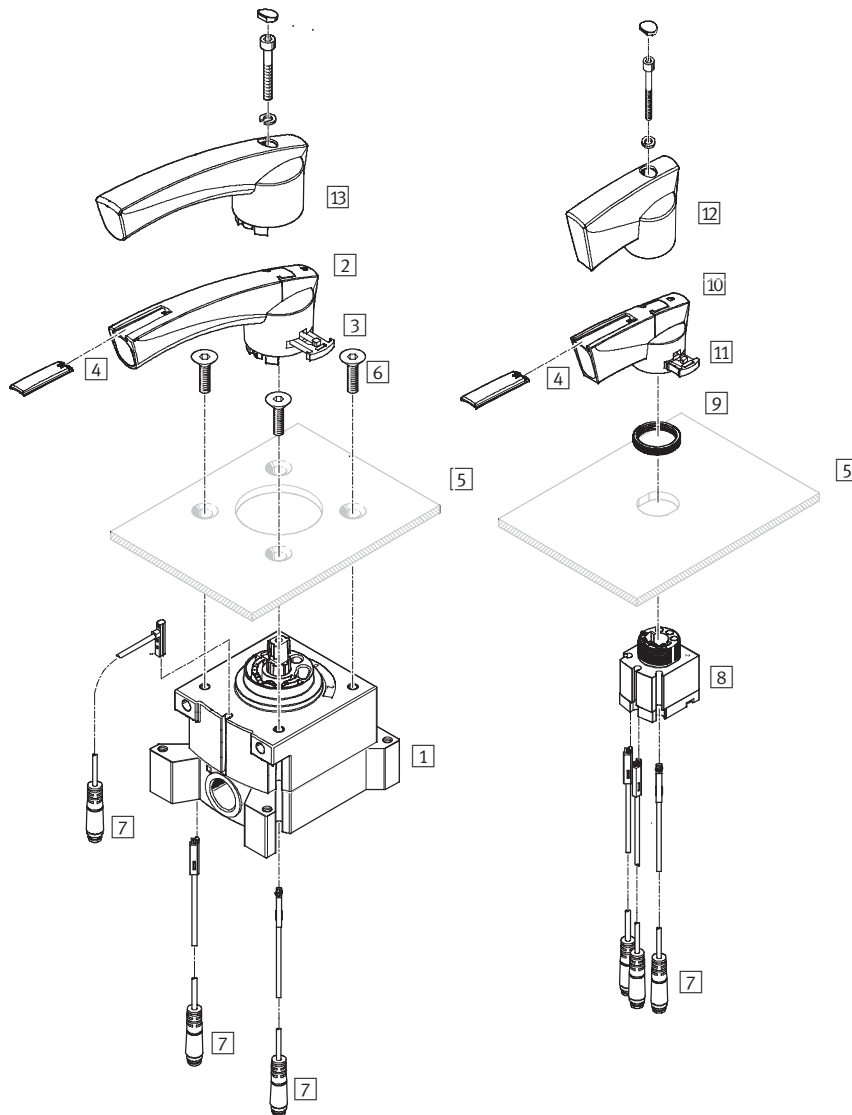
Type		VHER	-	BH	-	M04C	-	M05	-	LD
VHER	Hand lever valve with detent									
Construction										
AH	Lever in metal version									
BH	Lever in polymer version									
Valve function										
M04C	4/3-way valve, mid-position closed									
M04E	4/3-way valve, mid-position exhausted									
Connection										
M05	M5 (polymer version only)									
G18	G $\frac{1}{8}$									
G14	G $\frac{1}{4}$									
G12	G $\frac{1}{2}$									
Connection type										
LD	To the side									
UD	Underneath									

Hand lever valves VHER

Peripherals overview

FESTO

Control panel installation



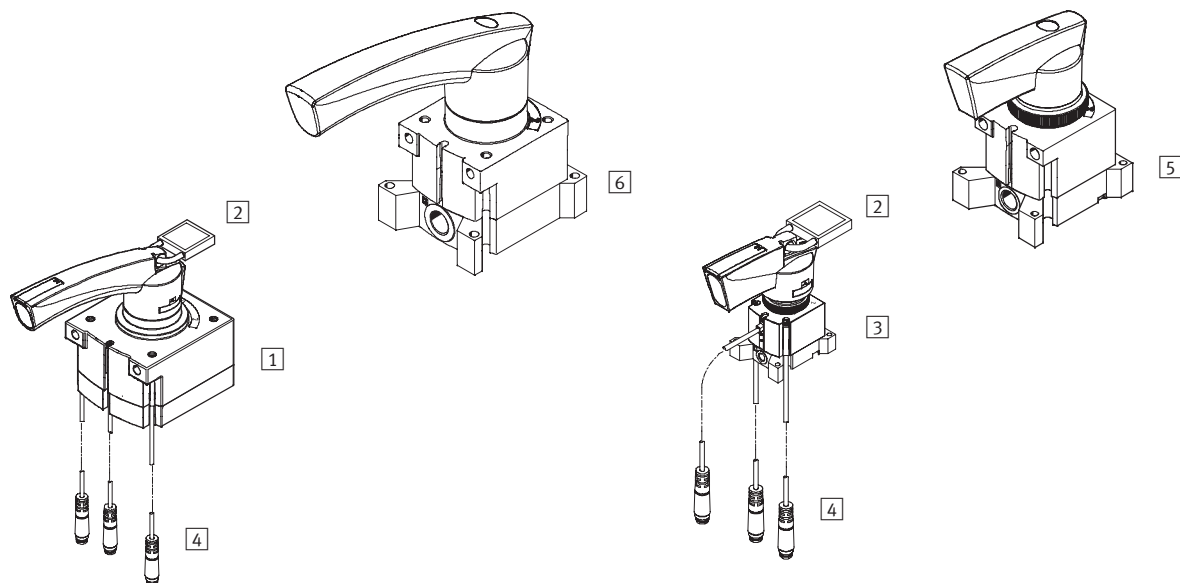
Component parts and accessories	Brief description	→ Page/Internet
1 Hand lever valves VHER	Connection size G1/8 and G1/2	7
2 Actuating lever	Large, polymer	–
3 Lever securing clip	Large	–
4 Inscription label		–
5 Control panel	Not included in scope of delivery	–
6 Mounting screws	Not included in scope of delivery	–
7 Proximity sensor SME-10-L, SME-10-Q	Not included in scope of delivery	sme
8 Hand lever valves VHER	Connection size M5 and G1/8	7
9 Knurled nut	Control panel mounting	–
10 Actuating lever	Small, polymer	–
11 Lever securing clip	Small	–
12 Actuating lever	Small, metal	–
13 Actuating lever	Large, metal	–

Hand lever valves VHER

Peripherals overview

FESTO

Assembled valves with accessories



Component parts and accessories	Brief description	→ Page/Internet
1 Hand lever valves VHER	Connection size G $\frac{1}{4}$ and G $\frac{1}{2}$ with polymer lever	14
2 Padlock	Not included in scope of delivery	–
3 Hand lever valves VHER	Connection size M5 and G $\frac{1}{8}$ with polymer lever	14
4 Proximity sensor SME-10F-... L-... , SME-10F-... Q-...	Not included in scope of delivery	sme
5 Hand lever valves VHER	Connection size G $\frac{1}{8}$ with metal lever	7
6 Hand lever valves VHER	Connection size G $\frac{1}{4}$ and G $\frac{1}{2}$ with metal lever	7

Hand lever valves VHER-AH

FESTO

Technical data VHER with metal lever

Flow rate

600 ... 4,300 l/min



Pressure

–0.95 ... +10 bar

Temperature range

–20 ... +80 °C



General technical data					
Pneumatic connection			G1/8	G1/4	G1/2
Valve function			4/3-way, closed or exhausted		
Design			Rotary slide valve		
Sealing principle			Hard		
Type of mounting			Option of front panel mounting or through-holes		
Pilot control mode			Direct		
Actuation type			Manual		
Actuating lever			Metal		
Switching position display			Via accessories		
Assembly position			Any		
Direction of flow			Reversible		
Non-overlapping			Yes		
Exhaust function			Flow control		
Standard nominal flow rate	Ports at side	[l/min]	600	1,150	3,500
	Ports underneath	[l/min]	800	1,500	4,300
Nominal size		[mm]	6	8	12
Pneumatic connection 1,2,3,4			G1/8	G1/4	G1/2
Actuating torque at 10 bar		[Nm]	1.1	2.8	5

Operating and environmental conditions		
Operating medium		Filtered compressed air, lubricated or unlubricated, grade of filtration 40µm
Operating pressure	[bar]	–0.95 ... 10
Ambient temperature	[°C]	–20 ... +80
Corrosion resistance class	[CRC]	2 ¹⁾

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. 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.

Proximity sensors for switching position display			
Pneumatic connection	Connection direction	Type SME-10F-... L-... SME-10F-... Q-...	
G $\frac{1}{8}$	Underneath (UD)	■	■
	Side (LD)	–	■
G $\frac{1}{4}$	Underneath	■	■
	Side	–	■
G $\frac{1}{2}$	Underneath	■	■
	Side	–	■

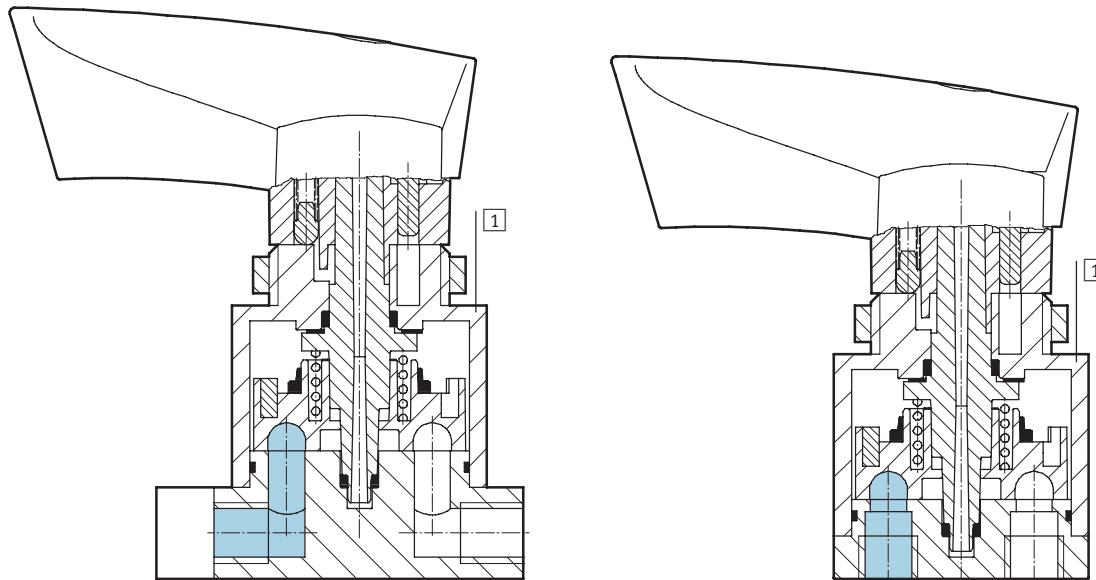
Hand lever valves VHER-AH

Technical data VHER with metal lever

FESTO

Sectional view

Hand lever valves VHER-AH-...



Materials

1	Housing	Die-cast aluminium
-	Seals	Nitrile rubber
-		Contains PWIS (paint wetting impairment substances)
-		Free of copper and PTFE

Hand lever valves VHER-AH

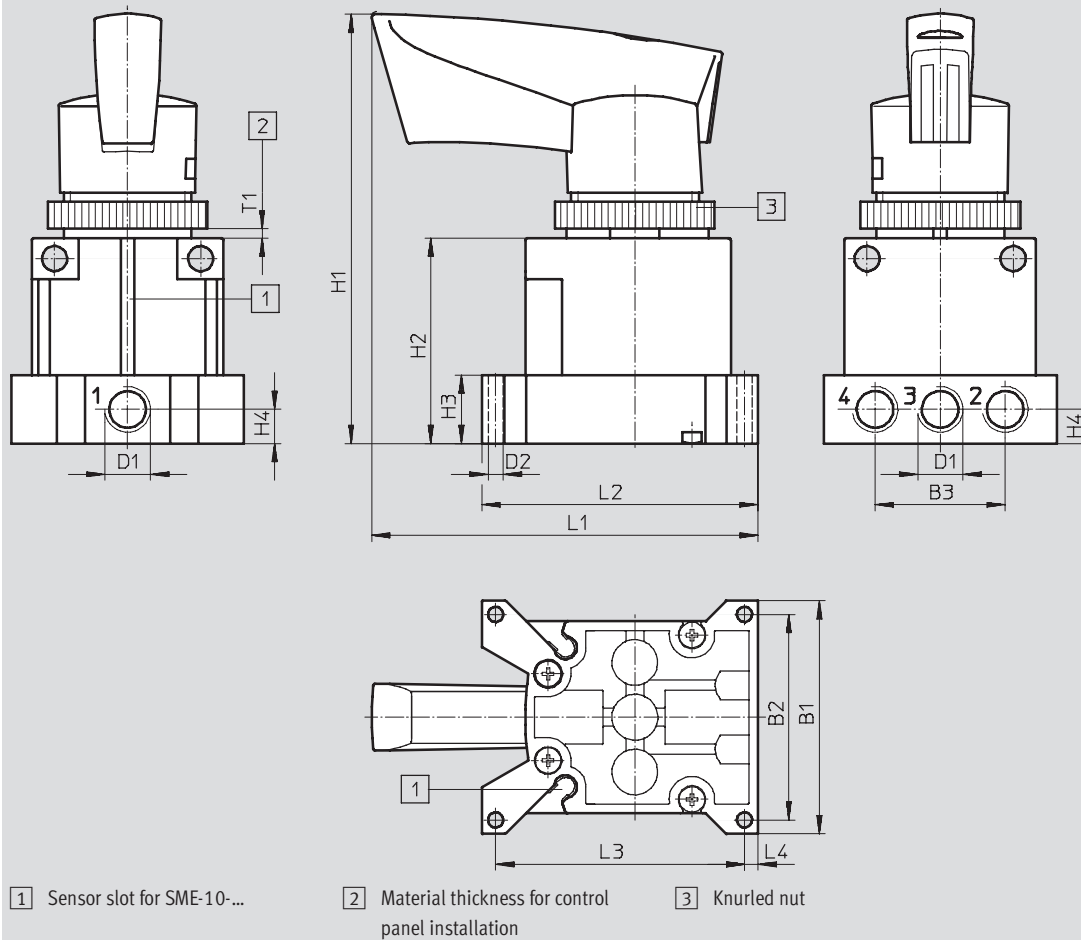
Technical data VHER with metal lever

FESTO

Dimensions

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

Ports G $\frac{1}{8}$, side



Type	B1	B2	B3	D1	D2 Ø	H1	H2	H3	H4	L1	L2	L3	L4	T1
VHER-AH-...-G18-LD	51	45	28.5	G $\frac{1}{8}$	3	94	45	15	7.5	85	60.5	54.5	3	2 ... 4

Hand lever valves VHER-AH

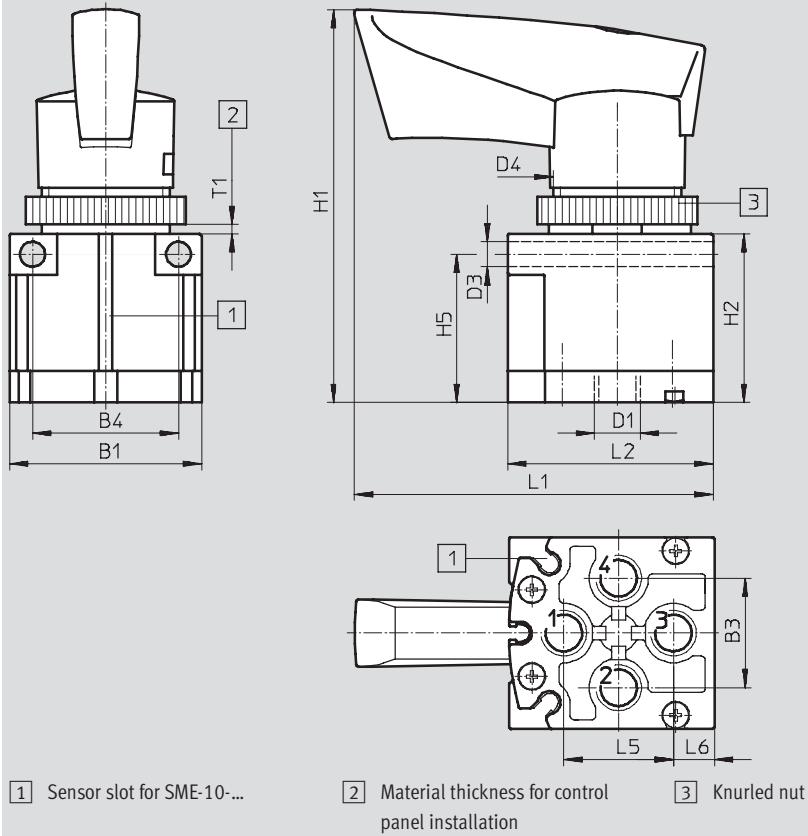
Technical data VHER with metal lever

FESTO

Dimensions

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

Ports G $\frac{1}{8}$, underneath



Type	B1	B3	B4	D1	D3 Ø	D4	H1	H2	H5	L1	L2	L5	L6	T1
VHER-AH-...-G18-UD	42	24	32	G $\frac{1}{8}$	5.5	M30	87	37	32.5	79	45	24	9	2 ... 4

Hand lever valves VHER-AH

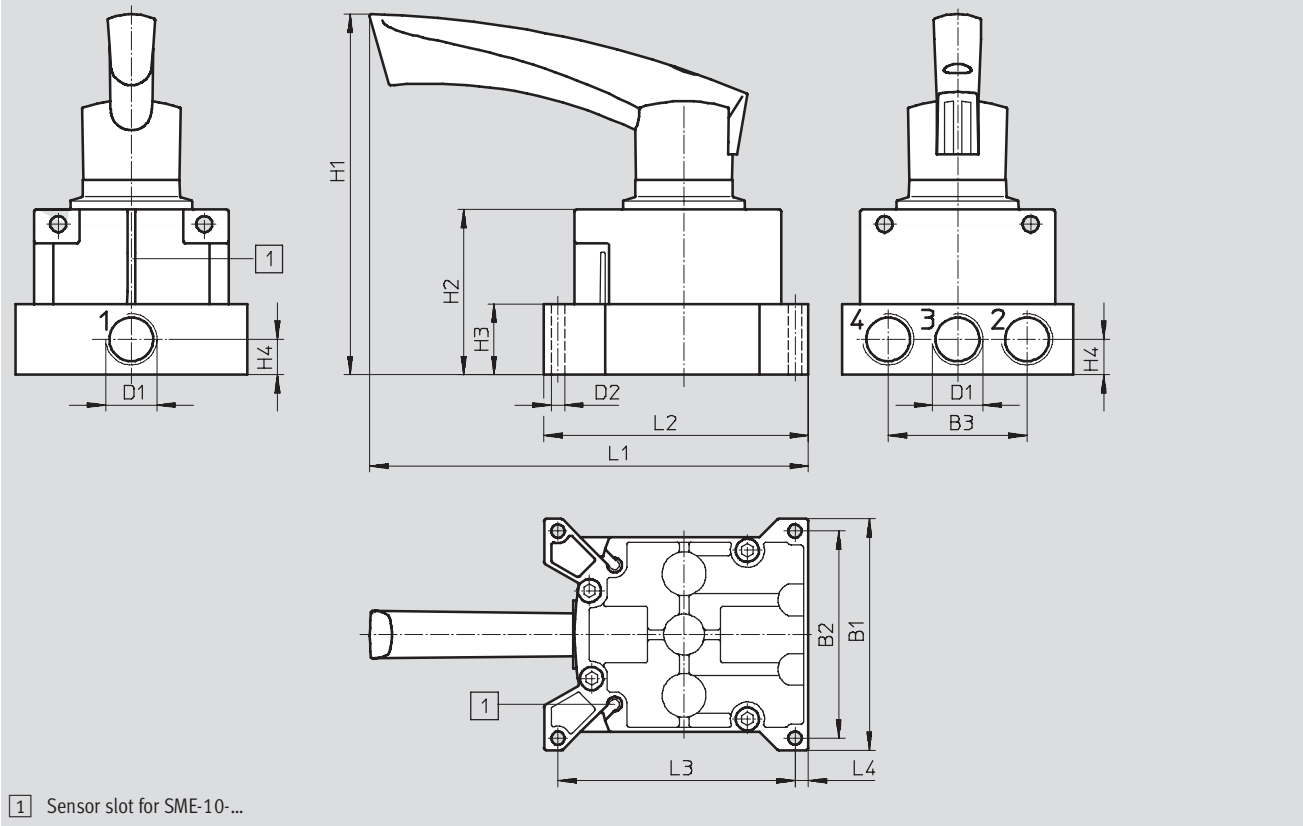
Technical data VHER with metal lever

FESTO

Dimensions

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

Ports G $\frac{1}{4}$ and G $\frac{1}{2}$, side



Type	B1	B2	B3	D1	D2 Ø	H1	H2	H3	H4	L1	L2	L3	L4
VHER-AH-...-G14-LD	66	57.5	37.5	G $\frac{1}{4}$	4.5	136	56	20.5	10.3	165	77	69.2	4
VHER-AH-...-G12-LD	95	85	57	G $\frac{1}{2}$	5.5	149	68	29	14.5	180	108.5	97.3	5.5

Hand lever valves VHER-AH

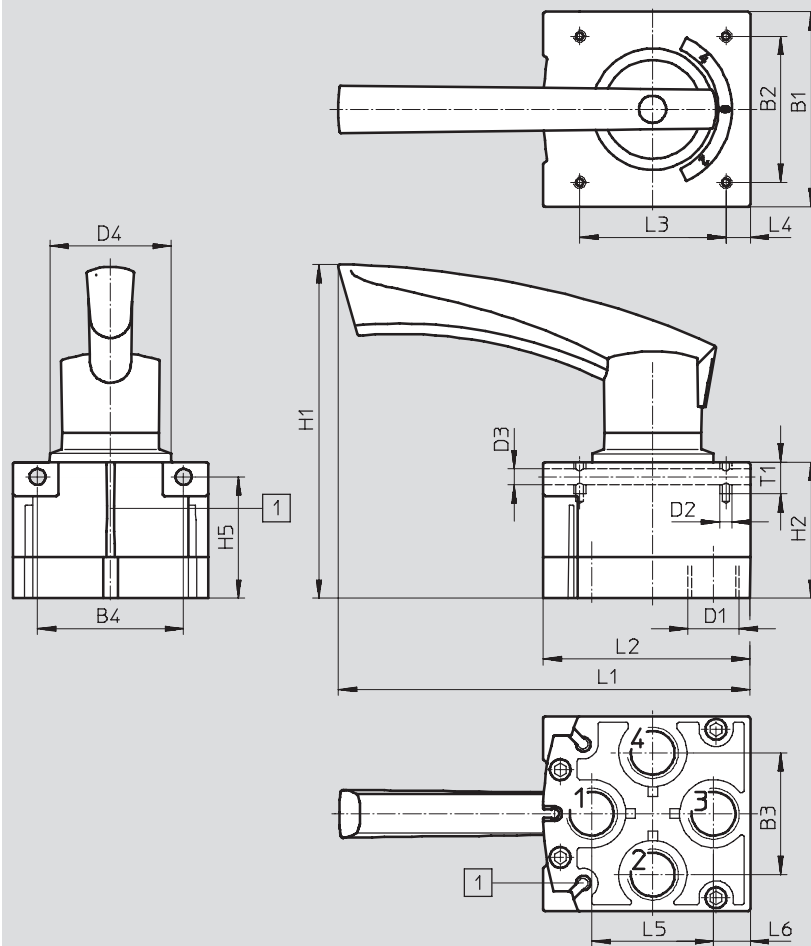
Technical data VHER with metal lever

FESTO

Dimensions

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

Ports G $\frac{1}{4}$ and G $\frac{1}{2}$, underneath

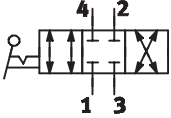
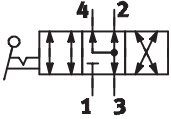


1 Sensor slot for SME-10-...

Type	B1	B2	B3	B4	D1	D2	D3 Ø	D4 Ø	H1	H2	H5	L1	L2	L3	L4	L5	L6	T1
VHER-AH-...-G14-UD	56	42	33	42	G $\frac{1}{4}$	M5	5.5	40	130	49	43.5	157	60	42	7.2	33	11.4	12
VHER-AH-...-G12-UD	80	60	50	60	G $\frac{1}{2}$	M6	6.4	50	137	55.8	49.8	169	85	60	10	50	15	13

Hand lever valves VHER-AH

Technical data VHER with metal lever

Ordering data						
Circuit symbol	Description	Weight [g]	Connection direction	Pneumatic connection	Part No.	Type
4/3-way valve ¹⁾						
	Mid-position closed	260	Side	G $\frac{1}{8}$	538178	VHER-AH-M04C-G18-LD
		560		G $\frac{1}{4}$	538180	VHER-AH-M04C-G14-LD
		1,010		G $\frac{1}{2}$	538182	VHER-AH-M04C-G12-LD
		220	Underneath	G $\frac{1}{8}$	538179	VHER-AH-M04C-G18-UD
		510		G $\frac{1}{4}$	538181	VHER-AH-M04C-G14-UD
		860		G $\frac{1}{2}$	538183	VHER-AH-M04C-G12-UD
	Mid-position exhausted	260	Side	G $\frac{1}{8}$	538184	VHER-AH-M04E-G18-LD
		560		G $\frac{1}{4}$	538186	VHER-AH-M04E-G14-LD
		1,010		G $\frac{1}{2}$	538188	VHER-AH-M04E-G12-LD
		220	Underneath	G $\frac{1}{8}$	538185	VHER-AH-M04E-G18-UD
		510		G $\frac{1}{4}$	538187	VHER-AH-M04E-G14-UD
		860		G $\frac{1}{2}$	538189	VHER-AH-M04E-G12-UD

1) The hand lever valve can be used as a 3/3-way valve by sealing port 2.

Hand lever valves VHER-BH

Technical data VHER with plastic lever

FESTO

Flow rate

170 ... 4,300 l/min



Pressure

-0.95 ... +10 bar

Temperature range

-20 ... +80 °C



General technical data						
Pneumatic connection			M5	G1/8	G1/4	G1/2
Valve function			4/3-way, closed or exhausted			
Design			Rotary slide valve			
Sealing principle			Hard			
Type of mounting			Front panel mounting	Option of front panel mounting or through-holes		
Pilot control mode			Direct			
Actuation type			Manual			
Actuating lever			Polymer			
Actuator lock			Lockable with accessories			
Switching position display			Via accessories			
Assembly position			Any			
Direction of flow			Reversible			
Standard nominal flow rate	Ports at side	[l/min]	170	600	1,150	3,500
	Ports underneath	[l/min]	260	800	1,500	4,300
Nominal size		[mm]	4	6	8	12
Pneumatic connection 1,2,3,4			M5	G1/8	G1/4	G1/2
Actuating force at 6 bar			[N]			
Actuating torque at 10 bar			[Nm]	0.6	1.1	2.8
						–

Operating and environmental conditions		
Operating medium		Filtered compressed air, lubricated or unlubricated, grade of filtration 40µm
Operating pressure	[bar]	-0.95 ... 10
Ambient temperature	[°C]	-20 ... +80
Corrosion resistance class	[CRC]	2 ¹⁾

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. 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.

Proximity sensors for switching position display			
Pneumatic connection	Connection direction	Type	
		SME-10F-... L-...	SME-10F-... Q-...
M5	Underneath (UD)	■	■
	Side (LD)	–	■
G $\frac{1}{8}$	Underneath	■	■
	Side	–	■
G $\frac{1}{4}$	Underneath	■	■
	Side	–	■
G $\frac{1}{2}$	Underneath	■	■
	Side	–	■

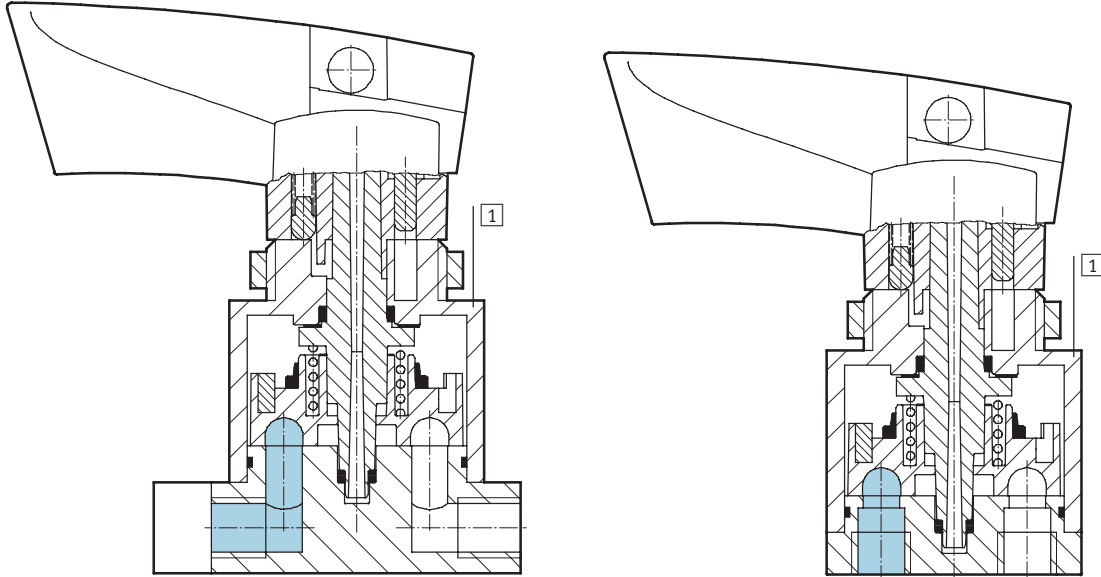
Hand lever valves VHER-BH

Technical data VHER with plastic lever

FESTO

Sectional view

Hand lever valves VHER-BH...



Materials				
Pneumatic connection	M5	G1/8	G1/4	G1/2
1 Housing	Reinforced PA	Reinforced PA	Die-cast aluminium	Die-cast aluminium
– Seals	Nitrile rubber			
–	Contains PWIS			
–	Free of copper and PTFE			

Hand lever valves VHER-BH

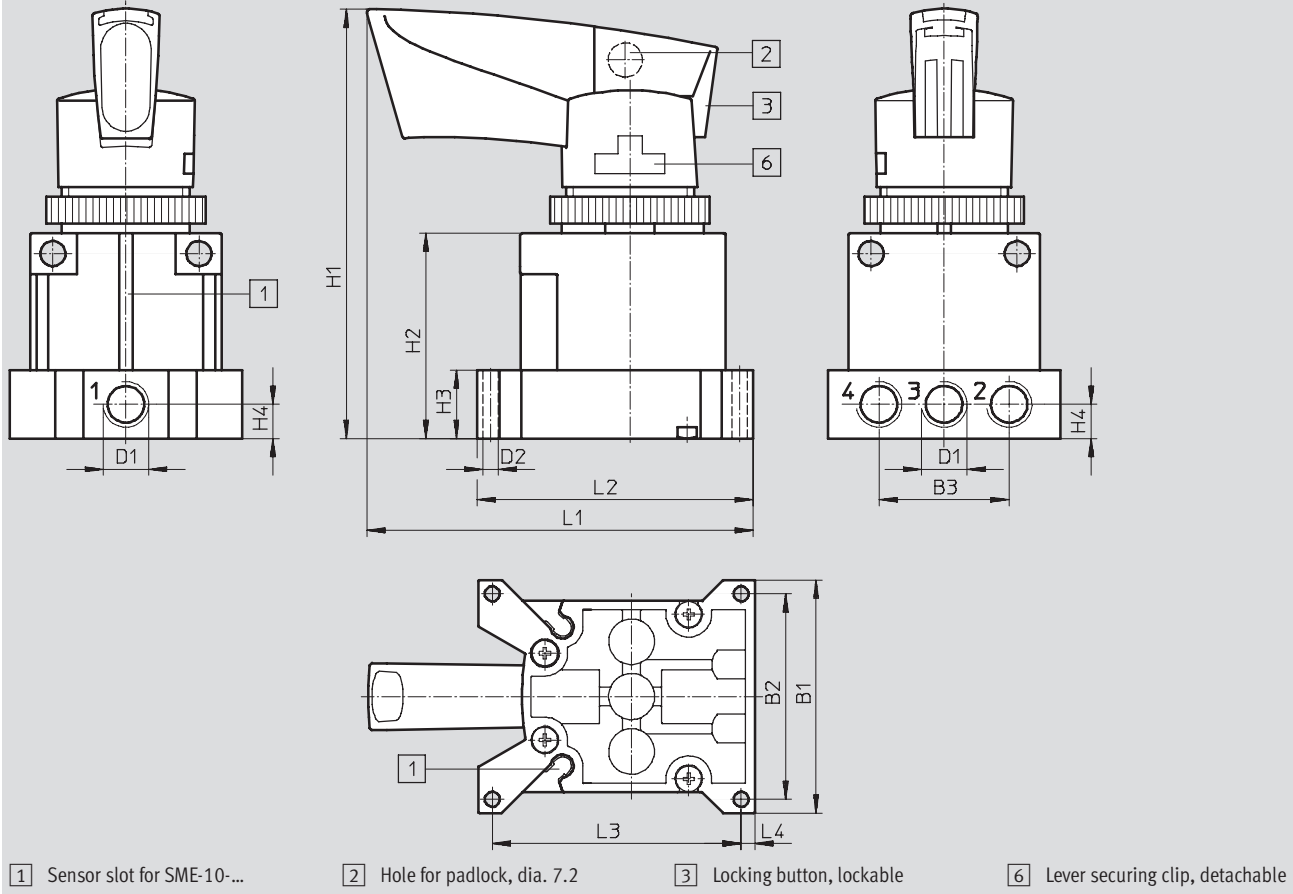
Technical data VHER with plastic lever

FESTO

Dimensions

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

Ports M5 and G $\frac{1}{8}$, side



Type	B1	B2	B3	D1	D2 Ø	H1	H2	H3	H4	L1	L2	L3	L4
VHER-BH-...-M05-LD	37	32	17.4	M5	2.5	82	32	10	5	78	45	40	2.5
VHER-BH-...-G18-LD	51	45	28.5	G $\frac{1}{8}$	3	94	45	15	7.5	85	60.5	54.5	3

Hand lever valves VHER-BH

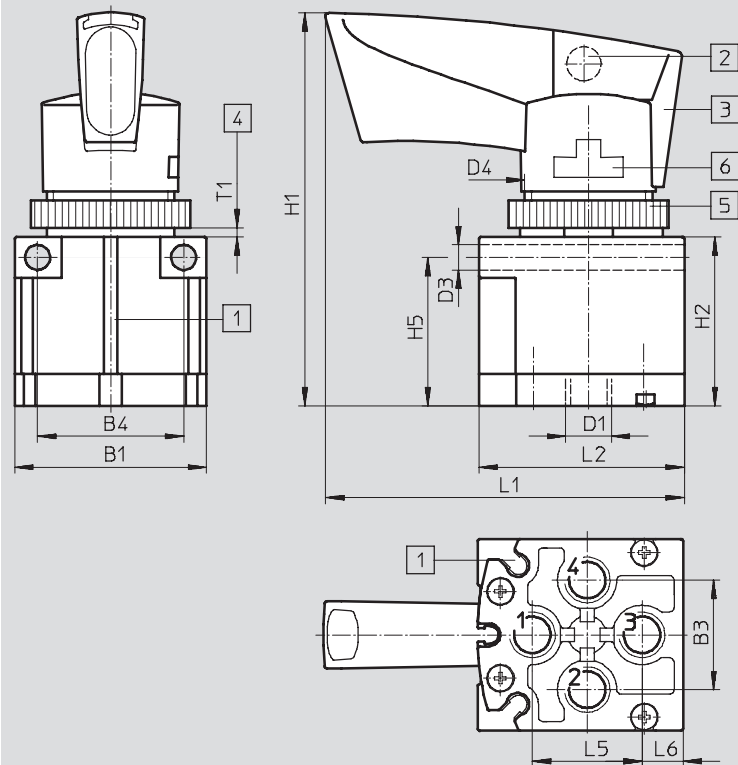
Technical data VHER with plastic lever

FESTO

Dimensions

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

Ports M5 and G $\frac{1}{8}$, underneath



- 1 Sensor slot for SME-10-...
- 2 Hole for padlock, dia. 7.2

- 3 Locking button, lockable

- 4 Material thickness for control panel installation

- 5 Knurled nut
- 6 Lever securing clip, detachable

Type	B1	B3	B4	D1	D3 Ø	D4	H1	H2	H5	L1	L2	L5	L6	T1
VHER-BH-...-M05-UD	30	17	-	M5	-	M22	79	28.6	-	73	33.8	17	6.5	2 ... 4
VHER-BH-...-G18-UD	42	24	32	G $\frac{1}{8}$	5.5	M30	86	37	32.5	79	45	24	9	1.5 ... 4.5

Hand lever valves VHER-BH

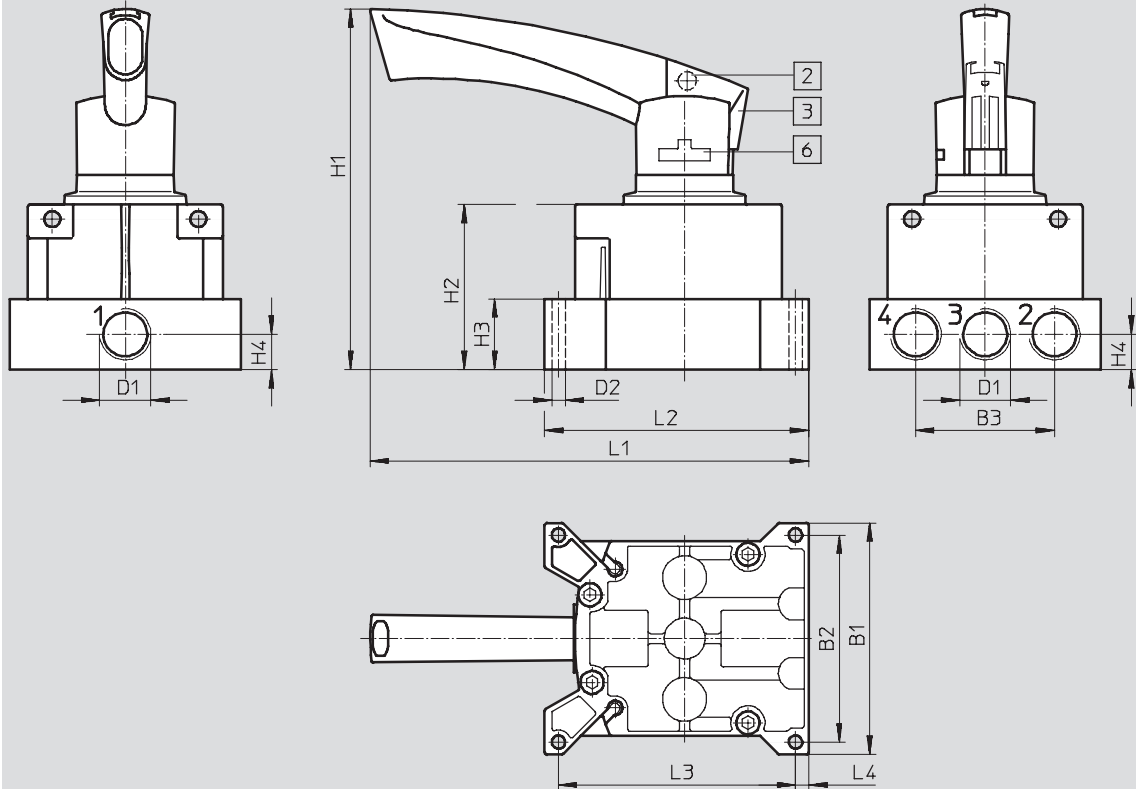
Technical data VHER with plastic lever

FESTO

Dimensions

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

Ports G $\frac{1}{4}$ and G $\frac{1}{2}$, side



2 Hole for padlock, dia. 7.2

3 Locking button, lockable

6 Lever securing clip, detachable

Type	B1	B2	B3	D1	D2 Ø	H1	H2	H3	H4	L1	L2	L3	L4
VHER-BH-...-G14-LD	66	57.5	37.5	G $\frac{1}{4}$	4.3	136	55.5	20.5	10.25	166	77	69.2	4
VHER-BH-...-G12-LD	96	85	57	G $\frac{1}{2}$	5.3	148	67.8	29	14.5	180	108.5	97.3	5.5

Hand lever valves VHER-BH

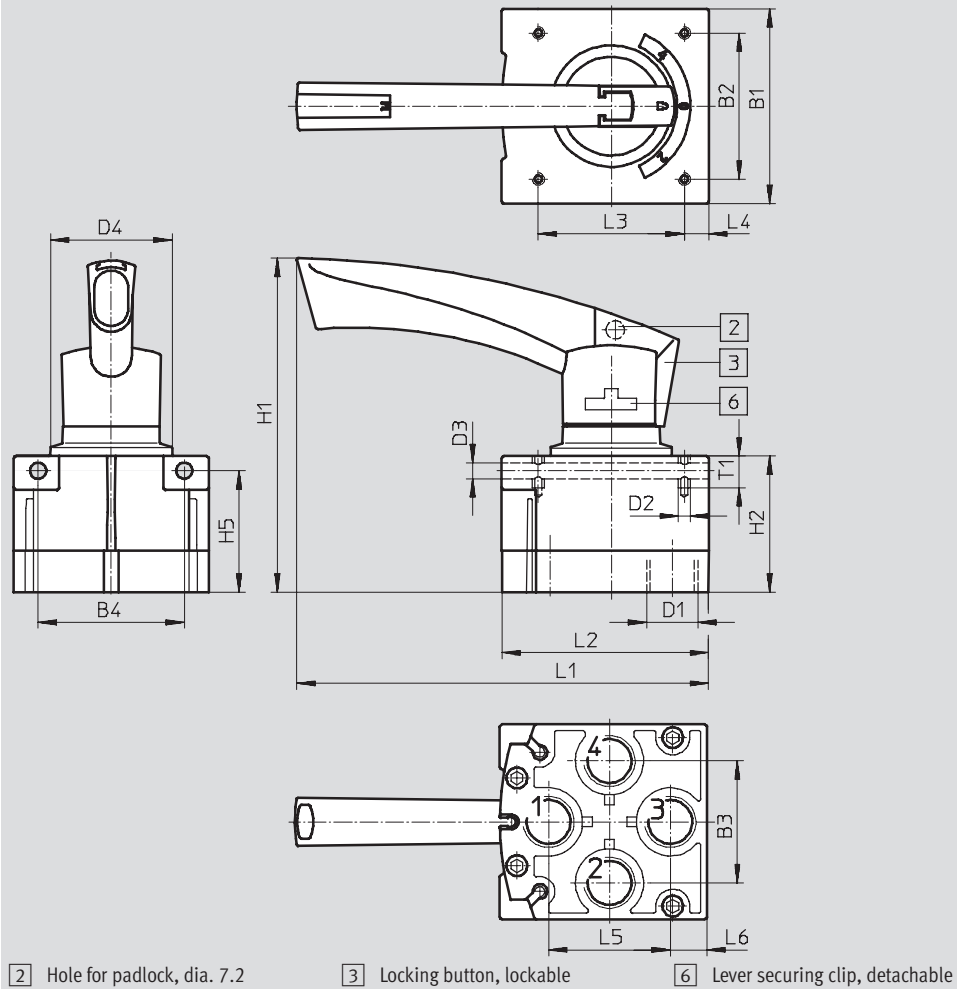
Technical data VHER with plastic lever

FESTO

Dimensions

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

Ports G $\frac{1}{4}$ and G $\frac{1}{2}$, underneath

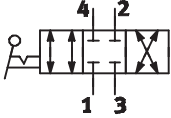
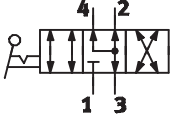


Type	B1	B2	B3	B4	D1	D2	D3 Ø	D4	H1	H2	H5	L1	L2	L3	L4	L5	L6	T1
VHER-BH-...-G14-UD	56.3	42	33	42	G $\frac{1}{4}$	M5	5.4	40.5	129	49	43.5	157	60.2	42	7.2	33	11.7	13
VHER-BH-...-G12-UD	80	60	50	60	G $\frac{1}{2}$	M6	6.5	51	137	55.8	49.8	169	84.8	60	10	50	15	16

Hand lever valves VHER-BH

FESTO

Technical data VHER with plastic lever

Ordering data						
Circuit symbol	Description	Weight [g]	Connection direction	Pneumatic connection	Part No.	Type
4/3-way valve ¹⁾						
	Mid-position closed	95	Side	M5	538190	VHER-BH-M04C-M05-LD
		165		G $\frac{1}{8}$	538192	VHER-BH-M04C-G18-LD
		435		G $\frac{1}{4}$	538194	VHER-BH-M04C-G14-LD
		900		G $\frac{1}{2}$	538196	VHER-BH-M04C-G12-LD
		80	Underneath	M5	538191	VHER-BH-M04C-M05-UD
		125		G $\frac{1}{8}$	538193	VHER-BH-M04C-G18-UD
		375		G $\frac{1}{4}$	538195	VHER-BH-M04C-G14-UD
		740		G $\frac{1}{2}$	538197	VHER-BH-M04C-G12-UD
	Mid-position exhausted	95	Side	M5	538198	VHER-BH-M04E-M05-LD
		165		G $\frac{1}{8}$	538200	VHER-BH-M04E-G18-LD
		435		G $\frac{1}{4}$	538202	VHER-BH-M04E-G14-LD
		900		G $\frac{1}{2}$	538204	VHER-BH-M04E-G12-LD
		80	Underneath	M5	538199	VHER-BH-M04E-M05-UD
		125		G $\frac{1}{8}$	538201	VHER-BH-M04E-G18-UD
		375		G $\frac{1}{4}$	538203	VHER-BH-M04E-G14-UD
		740		G $\frac{1}{2}$	538205	VHER-BH-M04E-G12-UD

1) The hand lever valve can be used as a 3/3-way valve by sealing port 2.

Hand lever valves VHER

Accessories

FESTO

Ordering data				
	Description	Pneumatic connection	Part No.	Type
Blanking plugs				
	For sealing ports	M5	3843	B-M5¹⁾
		G1/8	3568	B-1/8¹⁾
		G1/4	3569	B-1/4¹⁾
		G1/2	3571	B-1/2¹⁾
Silencers				
	For fitting in exhaust ports	–	➔ Internet: u	
Push-in fittings QS				
	For connecting compressed air tubing with standard O.D.	–	➔ Internet: quick star	

Permissible QS fittings ¹⁾ for VHER							
Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type
VHER-...-M05-UD		VHER-...-M05-LD		VHER-...-G18-UD		VHER-...-G18-LD	
153302	QSM-M5-3	153313	QSM-M5-3-I	186264	QSM-G $\frac{1}{8}$ -4	186266	QSM-G $\frac{1}{8}$ -4-I
153304	QSM-M5-4	153315	QSM-M5-4-I	186265	QSM-G $\frac{1}{8}$ -6	186267	QSM-G $\frac{1}{8}$ -6-I
153306	QSM-M5-6			186266	QSM-G $\frac{1}{8}$ -4-I	186106	QS-G $\frac{1}{8}$ -4-I
153313	QSM-M5-3-I			186267	QSM-G $\frac{1}{8}$ -6-I	186107	QS-G $\frac{1}{8}$ -6-I
153315	QSM-M5-4-I			186095	QS-G $\frac{1}{8}$ -4	186109	QS-G $\frac{1}{8}$ -8-I
153317	QSM-M5-6-I			186096	QS-G $\frac{1}{8}$ -6		
				186098	QS-G $\frac{1}{8}$ -8		
				186106	QS-G $\frac{1}{8}$ -4-I		
				186107	QS-G $\frac{1}{8}$ -6-I		
				186109	QS-G $\frac{1}{8}$ -8-I		
VHER-...-G14-UD		VHER-...-G14-LD		VHER-...-G12-UD		VHER-...-G12-LD	
186097	QS-G $\frac{1}{4}$ -6	186108	QS-G $\frac{1}{4}$ -6-I	186104	QS-G $\frac{1}{2}$ -12	186115	QS-G $\frac{1}{2}$ -12-I
186099	QS-G $\frac{1}{4}$ -8	186110	QS-G $\frac{1}{4}$ -8-I	186105	QS-G $\frac{1}{2}$ -16		
186101	QS-G $\frac{1}{4}$ -10	186112	QS-G $\frac{1}{4}$ -10-I	186115	QS-G $\frac{1}{2}$ -12-I		
186108	QS-G $\frac{1}{4}$ -6-I						
186110	QS-G $\frac{1}{4}$ -8-I						
186112	QS-G $\frac{1}{4}$ -10-I						

1) Scope of delivery 10 pieces

Permissible silencers for VHER							
Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type
VHER-....M05-UD		VHER-....M05-LD		VHER-....G18-UD		VHER-....G18-LD	
4645	U-M5	4645	U-M5	6841	U-1⁄8-B	161419	UC-1⁄8
165003	UC-M5	165003	UC-M5	161419	UC-1⁄8		
				2307	U-1⁄8		
VHER-....G14-UD		VHER-....G14-LD		VHER-....G12-UD		VHER-....G12-LD	
6842	U-1⁄4-B	165004	UC-1⁄4	6844	U-1⁄2-B	6844	U-1⁄2-B
165004	UC-1⁄4						
2316	U-1⁄4						

Hand lever valves VHER

Accessories

FESTO

Ordering data – Proximity sensors for VHER						
	Electrical connection		Cable length [m]	Connection direction	Part No.	Type
	Cable	Plug M8x1				
	N/O contact					
	3-wire	–	2.5	In-line	173210	SME-10-KL-LED-24
				Lateral	173211	SME-10-KQ-LED-24
	–	3-pin	0.3	In-line	173212	SME-10-SL-LED-24
				Lateral	173213	SME-10-SQ-LED-24

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical
Electromechanical actuators, motors, controllers & drives



Pneumatics
Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



© Copyright 2008, Festo Corporation. While every effort is made to ensure that all dimensions and specifications are correct, Festo cannot guarantee that publications are completely free of any error, in particular typing or printing errors. Accordingly, Festo cannot be held responsible for the same. For Liability and Warranty conditions, refer to our "Terms and Conditions of Sale", available from your local Festo office. All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of Festo. All technical data subject to change according to technical update.



Printed on recycled paper at New Horizon Graphic, Inc., FSC certified as an environmentally friendly printing plant.

Festo North America

Festo Regional Contact Center

5300 Explorer Drive
Mississauga, Ontario L4W 5G4
Canada

USA Customers:

For ordering assistance,

Call: 1.800.99.FESTO (1.800.993.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: customer.service@us.festo.com

For technical support,

Call: 1.866.GO.FESTO (1.866.463.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: product.support@us.festo.com

Canadian Customers:

Call: 1.877.GO.FESTO (1.877.463.3786)

Fax: 1.877.FX.FESTO (1.877.393.3786)

Email: festo.canada@ca.festo.com

USA Headquarters

Festo Corporation
395 Moreland Road
P.O. Box 18023
Hauppauge, NY 11788, USA
www.festo.com/us

USA Sales Offices

Appleton

North 922 Tower View Drive, Suite N
Greenville, WI 54942, USA

Boston

120 Presidential Way, Suite 330
Woburn, MA 01801, USA

Chicago

1441 East Business Center Drive
Mt. Prospect, IL 60056, USA

Dallas

1825 Lakeway Drive, Suite 600
Lewisville, TX 75057, USA

Detroit – Automotive Engineering Center

2601 Cambridge Court, Suite 320
Auburn Hills, MI 48326, USA

New York

395 Moreland Road
Hauppauge, NY 11788, USA

Silicon Valley

4935 Southfront Road, Suite F
Livermore, CA 94550, USA

United States



USA Headquarters, East: Festo Corp., 395 Moreland Road, Hauppauge, NY 11788

Phone: 1.631.435.0800; Fax: 1.631.435.8026;

Email: info@festo-usa.com

www.festo.com/us

Canada



Headquarters: Festo Inc., 5300 Explorer Drive, Mississauga, Ontario L4W 5G4

Phone: 1.905.624.9000; Fax: 1.905.624.9001;

Email: festo.canada@ca.festo.com

www.festo.ca

Mexico



Headquarters: Festo Pneumatic, S.A., Av. Ceylán 3, Col. Tequesquahuac,
54020 Tlalneapantla, Edo. de México

Phone: 011 52 [55] 53 21 66 00; Fax: 011 52 [55] 53 21 66 65;

Email: festo.mexico@mx.festo.com

www.festo.com/mx

Central USA

Festo Corporation
1441 East Business
Center Drive
Mt. Prospect, IL 60056, USA
Phone: 1.847.759.2600
Fax: 1.847.768.9480



Western USA

Festo Corporation
4935 Southfront Road,
Suite F
Livermore, CA 94550, USA
Phone: 1.925.371.1099
Fax: 1.925.245.1286



Festo Worldwide

Argentina Australia Austria Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark
Estonia Finland France Germany Great Britain Greece Hong Kong Hungary India Indonesia Iran Ireland Israel Italy Japan Latvia
Lithuania Malaysia Mexico Netherlands New Zealand Norway Peru Philippines Poland Romania Russia Serbia Singapore
Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland Taiwan Thailand Turkey Ukraine United States Venezuela

www.festo.com