


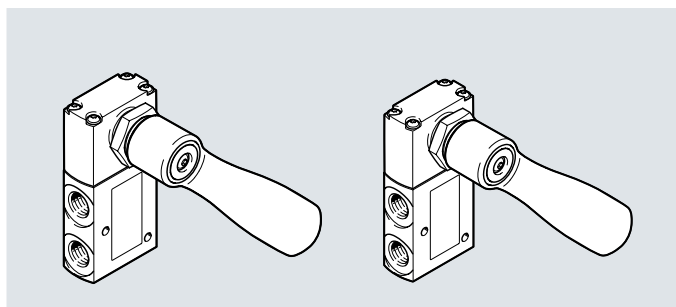


Datasheet – Hand lever valve, sideways

-  Flow rate
530 ... 1200 l/min
-  Pressure
-0.095 ... 1 MPa
-0.95 ... 10 bar
-  Temperature range
-10 ... +60°C



General technical data	
Design	Hand lever, sideways
Width [mm]	20
Type of control	Directly actuated
Application information	Manual actuation only The hand lever valve can be rotated 90° during mounting.
Actuation type	Manual
Type of mounting	Via through-hole or front panel using retaining nut
Sealing principle	Soft
Flow direction	Reversible
Exhaust function	Can be throttled
Mounting position	Any
Max. force when actuating the hand lever ¹⁾ [N]	200
Max. lateral force when actuating the hand lever ¹⁾ [N]	200
Max. switching frequency [Hz]	0.5

1) Measured at a distance of 80 mm from the centre of the hand lever fitting

Technical data – 3/2-way valve		VHEF-HST-B32...18	VHEF-HST-B32...14	VHEF-HST-M32...18	VHEF-HST-M32...14
Type		Poppet valve			
Design		Poppet valve			
Standard nominal flow rate	1 → 2 [l/min]	750	870	750	870
	3 → 2 [l/min]	665	750	665	750
Valve function		3/2-way valve, bistable		3/2-way valve, open/closed, monostable	
Overlap		Zero overlap		Zero overlap	
Reset method		–		Mechanical spring	
Manual override		Detenting		–	
Actuating torque at 6 bar [Nm]		0.7		0.6	
Pneumatic port 1, 2, 3		G1/8	G1/4	G1/8	G1/4
Nominal width [mm]		5.6	6	5.6	6
Product weight [g]		236	230	236	230

Datasheet – Hand lever valve, sideways

Technical data – 5/2-way valve				
Type	VHEF-HS-M52-M-...18	VHEF-HS-M52-M-...14	VHEF-HS-B52-...18	VHEF-HS-B52-...14
Design	Piston slide			
Standard nominal flow rate $1 \rightarrow 2$ [l/min]	750	1200	750	1200
Valve function	5/2-way valve, monostable		5/2-way valve, bistable	
Overlap	Positive overlap		Positive overlap	
Reset method	Mechanical spring		–	
Manual override	–		Detenting	Detenting
Actuating torque at 6 bar [Nm]	0.6			
Pneumatic port 1, 2, 3, 4, 5	G1/8	G1/4	G1/8	G1/4
Nominal width [mm]	5.2	7	5.2	7
Product weight [g]	265	298	265	298

Technical data – 5/3-way valve										
Type VHEF-HS-			B53C-...18	B53C-...14	B53E-...18	B53E-...14	P53C-...18	P53C-...14	P53E-...18	P53E-...14
Design			Piston slide							
Standard nominal flow rate	1 → 2	[l/min]	750	1200	530	900	700	1200	530	900
	4 → 5	[l/min]	–	–	400	470	–	–	400	470
	2 → 3	[l/min]	–	–	400	470	–	–	400	470
Valve function			5/3-way valve, closed		5/3-way valve, exhausted		5/3-way valve, closed		5/3-way valve, exhausted	
Overlap			Positive overlap		Positive overlap		Positive overlap		Positive overlap	
Reset method			–		–		Mechanical spring		Mechanical spring	
Manual override			Detenting		Detenting		–		–	
Actuating torque at 6 bar [Nm]			0.7							
Pneumatic port 1, 2, 3, 4, 5			G1/8	G1/4	G1/8	G1/4	G1/8	G1/4	G1/8	G1/4
Nominal width [mm]			5.2	7	5.2	7	5.2	7	5.2	7
Product weight [g]			265	298	265	298	265	298	265	298

Materials	
Housing	Anodised wrought aluminium alloy
Lever	PA-reinforced
Cover	PA-reinforced
Seal	NBR
Note on materials	RoHS-compliant

Operating and environmental conditions	
Operating medium	Compressed air to ISO 8573-1:2010 [7:–:–]
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Operating pressure	[MPa] –0.095 ... 1
	[bar] –0.95 ... 10
Temperature of medium [°C]	–10 ... +60
Ambient temperature [°C]	–10 ... +60
Corrosion resistance class CRC ¹⁾	1

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

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts which are covered in the application (e.g. drive trunnions).

Datasheet – Hand lever valve, sideways

Ordering data					
Description	Reset method	Nominal flow rate [l/min]	Weight [g]	Part no.	Type
3/2-way valve	–	750	236	4165861	VHEF-HST-B32-G18
		870	230	4165862	VHEF-HST-B32-G14
	Mechanical spring	750	236	4165853	VHEF-HST-M32-M-G18
		870	230	4165854	VHEF-HST-M32-M-G14
5/2-way valve	Mechanical spring	750	265	4165855	VHEF-HS-M52-M-G18
		1200	298	4165856	VHEF-HS-M52-M-G14
	–	750	265	4165863	VHEF-HS-B52-G18
		1200	298	4165864	VHEF-HS-B52-G14
5/3-way valve	–	700	265	4165865	VHEF-HS-B53C-G18
		1200	298	4165866	VHEF-HS-B53C-G14
		530	265	4165867	VHEF-HS-B53E-G18
		900	298	4165868	VHEF-HS-B53E-G14
	Mechanical spring	700	265	4165857	VHEF-HS-P53C-M-G18
		1200	298	4165858	VHEF-HS-P53C-M-G14
		530	265	4165859	VHEF-HS-P53E-M-G18
		900	298	4165860	VHEF-HS-P53E-M-G14