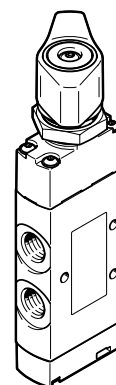
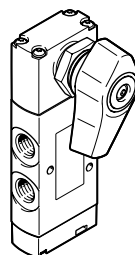
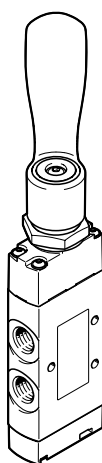
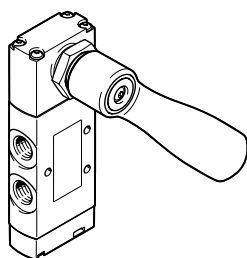
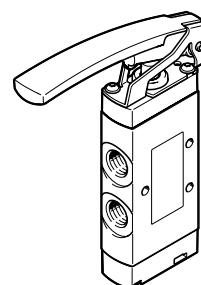
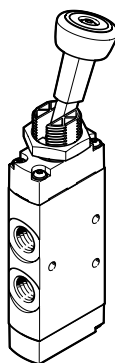
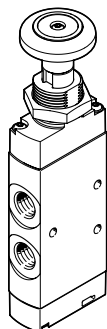


Key features



Innovative

- Small and compact for a wide range of pneumatic applications
- Numerous selectable valve functions: 3/2-way and 5/2-way functions
- With flow rates of up to 1200 l/min, the valves VHEF offer outstanding pneumatic performance for a wide range of applications
- Light weight
- Minimal actuating forces

Versatile

- Flexibility of the pneumatic working ports provides a practical solution to different requirements
- The 3/2-way valve can be used as normally closed (NC) or normally open (NO)
- Round silencer or ducted exhaust air
- Suitable for vacuum
- Reverse operation possible
- Pressure range from vacuum to 10 bar possible
- Design:
 - Pushbutton valve
 - Toggle lever valve
 - Finger lever valve
 - Hand lever valve, sideways
 - Hand lever valve
 - Selector valve, sideways
 - Selector valve

Operational safety

- Durable with tried-and-tested piston spool valves and poppet valves
- Robust design: basic valve made from metal with plastic cover

Easy to install




- Mounted using mounting holes
- Front-panel mounting possible for nearly all valves (not possible for finger lever valve)

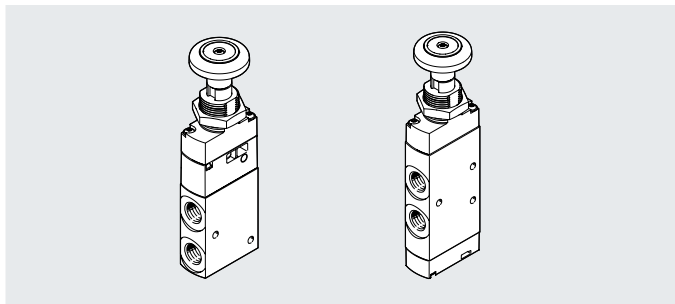
Type codes

001	Series	
VHEF	Manually actuated valve	
002	Actuation type	
E	Selector switch	
ES	Selector switch, on the side	
H	Hand lever, top	
HS	Hand lever, on the side	
L	Finger lever	
P	Pushbutton	
V	Toggle lever, top	
003	Design principle	
	Piston spool	
T	Poppet valve	
004	Type of control	
	Directly actuated	
C	Indirectly actuated	
005	Pilot air	
	Internal	
Z	External	

006	Valve function	
M32	3/2-way valve, normally closed or open	
B32	3/2-way valve, double solenoid/bistable	
M52	5/2-way valve, single solenoid/monostable	
B52	5/2-way valve, double solenoid/bistable	
P53E	5/3-way valve, mid-position exhausted	
B53E	5/3-way valve, detenting, mid-position exhausted	
P53C	5/3-way valve, mid-position closed	
B53C	5/3-way valve, detenting, mid-position closed	
007	Reset method for monostable/single solenoid valves	
	None	
E	Pneumatic spring, external	
M	Mechanical spring	
008	Pneumatic connection	
G18	G1/8	
G14	G1/4	
N18	1/8 NPT	
N14	1/4 NPT	

Datasheet – Pushbutton valve

-  Flow rate
750 ... 1200 l/min
-  Pressure
–0.095 ... 1 MPa
–0.95 ... 10 bar
-  Temperature range
–10 ... +60°C



General technical data	
Design	Pushbutton valve
Width [mm]	20
Application information	Manual actuation only
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. switching frequency [Hz]	0.5

Technical data – 3/2-way valve						
Type			VHEF-...-B32...18	VHEF-...-B32...14	VHEF-...-M32...18	VHEF-...-M32...14
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	
Type of control			Piloted		Piloted	
Pilot air supply			Internal, external only PTCZ types		Internal, external only PTCZ types	
Manual override			Detenting		–	
Actuating force at 6 bar		[N]	20	20	24.5	24.5
Release force at 6 bar		[N]	25	25	–	–
Pneumatic port 1, 2, 3			G1/8	G1/4	G1/8	G1/4
Pilot air port 12			–	–	M5 ¹⁾	M5 ¹⁾
Nominal width		[mm]	5.6	6	5.6	6
Product weight		[g]	168	161	168	161

1) Only for PTCZ types (external pilot air)

- Note

- An axial torque greater than 3 Nm on the pushbutton is to be avoided. This could overload it and cause it to break.
- The max. operating force exerted on the pushbutton must not exceed 200 N in all directions. This could overload it and cause it to break.