

Hand slide valves VBOH

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Product range overview



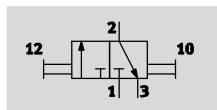
Version	Valve function	Version	Type	Pneumatic connection 1	Pneumatic connection 2	qnN [l/min]	→ Page/ Internet
Hand slide valves	3/2-way, bi-stable		VBOH	M5, G1/8, G1/4, G3/8, G1/2, G3/4	M5, G1/8, G1/4, G3/8, G1/2, G3/4	236 ... 7,691	3

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Technical data

Function



- Standard nominal flow rate
236 ... 7,691 l/min
- Temperature range
-10 ... +80 °C
- Operating pressure
-0.95 ... +12 bar



Hand slide valves VBOH are used as a shut-off function for pressurising and exhausting compressed air systems,

for example upstream of service unit combinations, for air guns and also for exhausting pneumatic cylinders.

- Non-overlapping, so no pressure losses when switching
- Minimal installation
- High flow rate and operating pressure
- Exclusive design

General technical data						
Pneumatic connection 1	M5	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{1}{2}$	G $\frac{3}{4}$
Pneumatic connection 2	M5	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{1}{2}$	G $\frac{3}{4}$
Grid dimension [mm]	17	24	31	39.5	45	57.5
Nominal size [mm]	3.6	5.7	8.4	9.9	12.1	19.3
Design	Sleeve valve					
Valve function	3/2-way, double solenoid					
Actuation type	Manual					
Actuating force [N]	14	17	45	41	37	70
Type of mounting	Screw-in					
	In-line installation					
Mounting position	Any					
Sealing principle	Soft					
Type of control	Direct					

Flow rate characteristics						
Pneumatic connection 1	M5	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{1}{2}$	G $\frac{3}{4}$
Standard nominal flow rate q _N ¹⁾ [l/min]	236	777	1,675	2,201	3,420	7,691

1) Measured at p₁ = 6 bar and p₂ = 5 bar, Δp = 1 bar

Operating and environmental conditions	
Operating pressure [bar]	-0.95 ... +12
Operating medium	Compressed air according to ISO 8573-1:2010 [7:4:4]
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Ambient temperature [°C]	-10 ... +80
Temperature of medium [°C]	-10 ... +80
Corrosion resistance class CRC ¹⁾	2

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

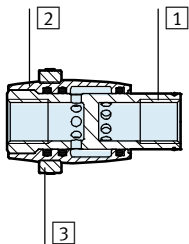
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Materials

Sectional view

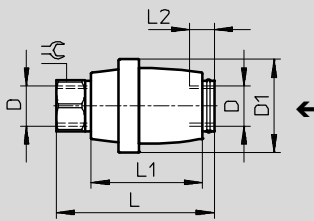


Hand slide valve

1	Threaded plug	Anodised wrought aluminium alloy
2	Housing	Anodised wrought aluminium alloy
3	Grip ring	Polybutylene terephthalate
-	Seals	Nitrile rubber
Note on materials		RoHS-compliant

Dimensions

Download CAD data → www.festo.com



← Flow direction



Note

Grip ring marked with direction arrow for the flow direction.

Type	Connection D	D1 Ø	L	L1	L2	↔
VBOH-32-M5	M5	17	35.6	24.5	5	8
VBOH-32-G18	G1/8	24	38.5	27	9	13
VBOH-32-G14	G1/4	31	52.5	37	13	17
VBOH-32-G38	G3/8	39.5	60.5	42	13.5	22
VBOH-32-G12	G1/2	45	60.5	42	15	27
VBOH-32-G34	G3/4	57.5	82	56.5	17	32

Ordering data

	Pneumatic connection		Standard nominal flow rate qnN [l/min]	Weight [g]	Part No.	Type
	1	2				
	M5	M5	236	8	1609969	VBOH-32-M5
	G1/8	G1/8	777	17	1558073	VBOH-32-G18
	G1/4	G1/4	1,675	35	1302994	VBOH-32-G14
	G3/8	G3/8	2,201	70	1482679	VBOH-32-G38
	G1/2	G1/2	3,420	90	1587988	VBOH-32-G12
	G3/4	G3/4	7,691	183	1629664	VBOH-32-G34