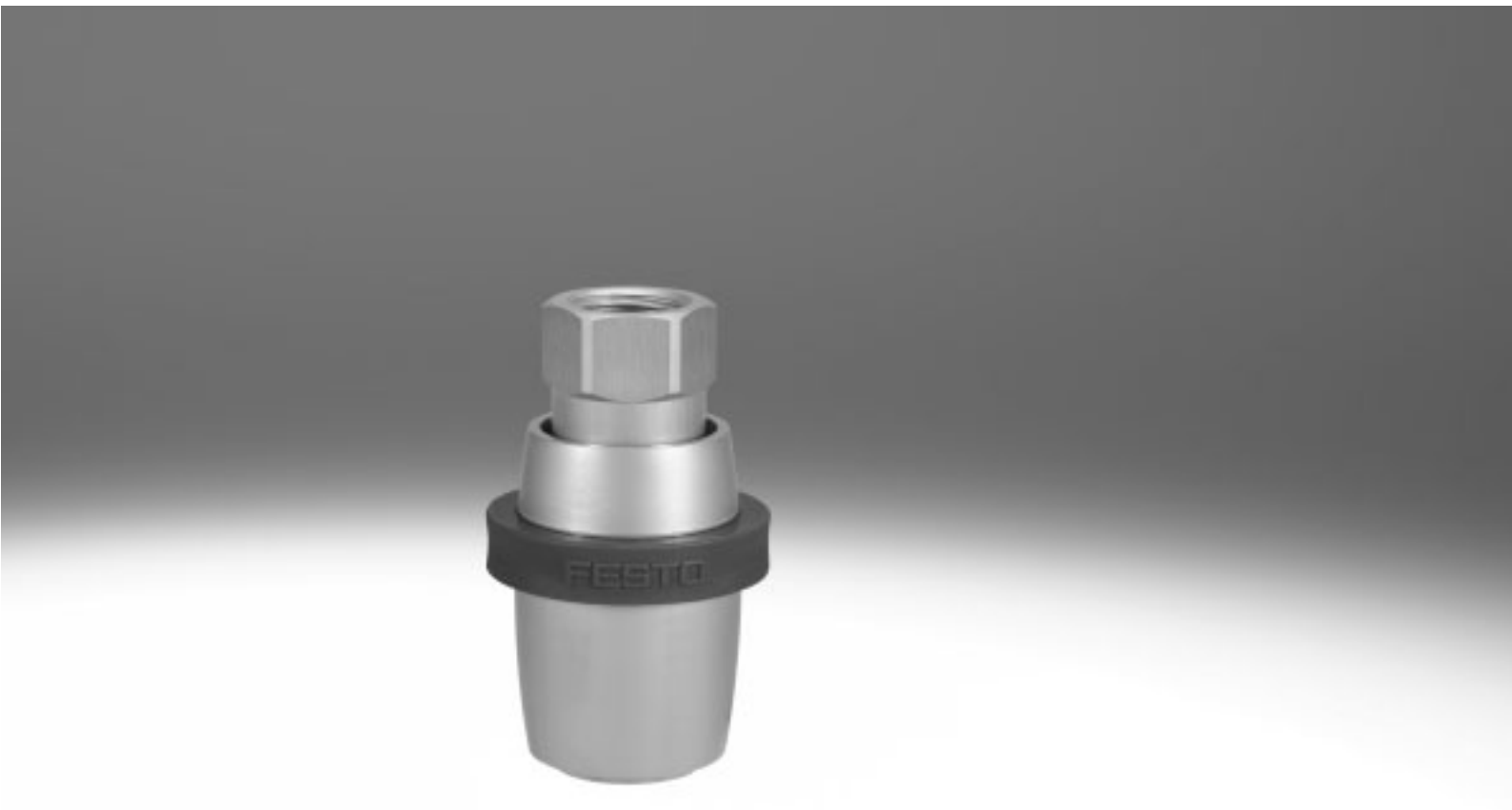
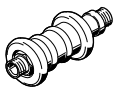
Hand slide valves W/VBOH



Hand slide valves W/VBOH

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		W	M5, G1⁄8, G1⁄4, G3⁄8, G1⁄2, G3⁄4	M5, G1⁄8, G1⁄4, G3⁄8, G1⁄2, G3⁄4	120 … 6,800	3
			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	5

Hand slide valves W

Technical data

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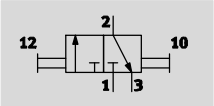
Function



- Standard nominal flow rate
  120 ... 6,800 l/min
- Temperature range
  –10 ... +60 °C
- Operating pressure
  –0.95 ... +10 bar

General technical date							
Pneumatic connection 1		M5	G1⁄8	G1⁄4	G3⁄8	G1⁄2	G3⁄4
Pneumatic connection 2		M5	G1⁄8	G1⁄4	G3⁄8	G1⁄2	G3⁄4
Nominal size	[mm]	2.5	3	7	9	12	18
Design		Sleeve valve					
Valve function		3/2-way, bi-stable					
Actuation type		Manual					
Actuating force	[N]	10	10	20	20	20	30
Type of mounting		Screw-in					
		In-line installation					
Mounting position		Any					
Sealing principle		Soft					
Type of control		Direct					
Direction of flow		Reversible					

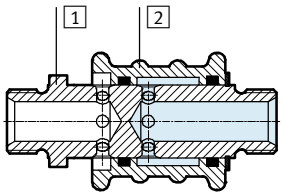
Flow rate characteristics							
Pneumatic connection 1		M5	G1⁄8	G1⁄4	G3⁄8	G1⁄2	G3⁄4
Standard nominal flow rate qnN[1)]	[l/min]	120	600	1,000	1,400	2,000	6,800

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

Operating and environmental conditions							
Pneumatic connection 1		M5	G1⁄8	G1⁄4	G3⁄8	G1⁄2	G3⁄4
Operating pressure	[bar]	–0.95 ... +8	–0.95 ... +10				
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium		Operation with lubricated medium possible (in which case lubricated operation will always be required)					
Ambient temperature	[°C]	–10 ... +60					
Temperature of medium	[°C]	–10 ... +60					

Materials

Sectional view

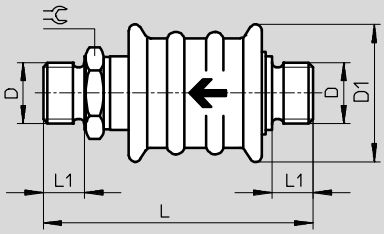


Hand slide valve	
1 Threaded plug	Anodised wrought aluminium alloy
2 Housing	Brass
– Seals	NBR
Note on materials	RoHS-compliant

Hand slide valves W

Technical data

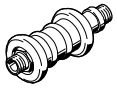
Dimensions Download CAD data ➔ **www.festo.com**



← Flow direction

Type	Connection D	D1 ∅	L	L1	⫧
W-3-M5	M5	20	46.4	5.0	9
W-3-⅛	G⅛	24	51.3	6.5	14
W-3-¼	G¼	35	70.4	8.0	17
W-3-⅜	G⅜	45	79.4	9.0	27
W-3-½	G½	45	82.4	10.5	27
W-3-¾	G¾	50	99.0	12.0	32

Ordering data

	Pneumatic connection		Standard nominal flow rate qnN	Weight	Part No.	Type
	1	2	[l/min]	[g]		
	M5	M5	120	25	**4451**	**W-3-M5**
	G⅛	G⅛	600	40	**2339**	**W-3-⅛**
	G¼	G¼	1,000	110	**2340**	**W-3-¼**
	G⅜	G⅜	1,400	280	**2341**	**W-3-⅜**
	G½	G½	2,000	300	**2342**	**W-3-½**
	G¾	G¾	6,800	400	**4052**	**W-3-¾**

Hand slide valves VBOH

Technical data

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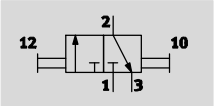
Function



- 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	G1⁄8	G1⁄4	G3⁄8	G1⁄2	G3⁄4
Pneumatic connection 2		M5	G1⁄8	G1⁄4	G3⁄8	G1⁄2	G3⁄4
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	G1⁄8	G1⁄4	G3⁄8	G1⁄2	G3⁄4
Standard nominal flow rate qnN[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

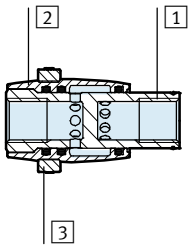
1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial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

Hand slide valves VBOH

Technical data

Materials

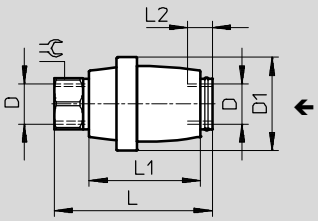
Sectional view



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 ∅	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 1	Pneumatic connection 2	Standard nominal flow rate qnN [l/min]	Weight [g]	Part No.	Type
	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**