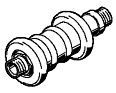
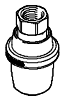
Hand slide valves W/VBOH

Hand slide valves W/VBOH

Product range overview

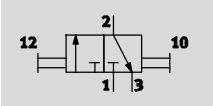
Version	Valve function	Version	Type	Pneumatic connection 1	Pneumatic connection 2	qnN [l/min]	→ Page/ Internet
Hand slide valves	3/2-way, bi-stable		W	M5, G1⁄8, G1⁄4, G3⁄8, G1⁄2, G3⁄4	M5, G1⁄8, G1⁄4, G3⁄8, G1⁄2, G3⁄4	120 … 6,800	3
			VBOH	M5, G1⁄8, G1⁄4, G3⁄8, G1⁄2, G3⁄4	M5, G1⁄8, G1⁄4, G3⁄8, G1⁄2, G3⁄4	236 … 7,691	5

Hand slide valves W

Technical data

FESTO

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					

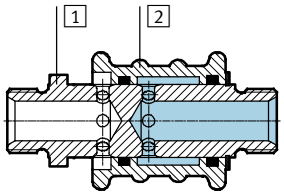
Flow rate characteristics							
Pneumatic connection 1		M5	G1⁄8	G1⁄4	G3⁄8	G1⁄2	G3⁄4
Standard nominal flow rate qnN[1)]	[l/min]	120	600	1,000	1,400	2,000	6,800

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

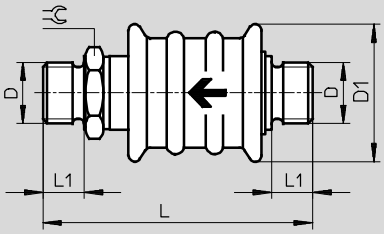


Hand slide valve	
1 Threaded plug	Anodised wrought aluminium alloy
2 Housing	Brass
– Seals	NBR
Note on materials	RoHS-compliant

Hand slide valves W

Technical data

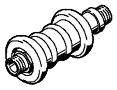
Dimensions Download CAD data ➔ **www.festo.com**



← 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

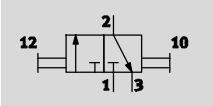
Ordering data

	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

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

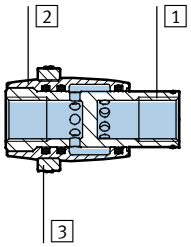
1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Hand slide valves VBOH

Technical data

Materials

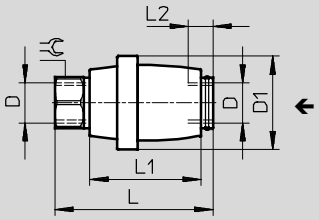
Sectional view



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**



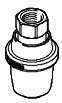
← Flow direction

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	G⅛	24	38.5	27	9	13
VBOH-32-G14	G¼	31	52.5	37	13	17
VBOH-32-G38	G⅜	39.5	60.5	42	13.5	22
VBOH-32-G12	G½	45	60.5	42	15	27
VBOH-32-G34	G¾	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**
	G⅛	G⅛	777	17	**1558073**	**VBOH-32-G18**
	G¼	G¼	1,675	35	**1302994**	**VBOH-32-G14**
	G⅜	G⅜	2,201	70	**1482679**	**VBOH-32-G38**
	G½	G½	3,420	90	**1587988**	**VBOH-32-G12**
	G¾	G¾	7,691	183	**1629664**	**VBOH-32-G34**