



Hand slide valves W/VBOH



# Hand slide valves W/VBOH

Product range overview

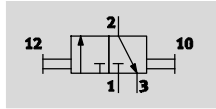
Version	Valve function	Version	Type	Pneumatic connection 1	Pneumatic connection 2	qnN [l/min]	→ Page/ Internet
Hand slide valves	3/2-way, bi-stable		W	M5, G1/8, G1/4, G3/8, G1/2, G3/4	M5, G1/8, G1/4, G3/8, G1/2, G3/4	120 ... 6,800	3
			VBOH	M5, G1/8, G1/4, G3/8, G1/2, G3/4	M5, G1/8, G1/4, G3/8, G1/2,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

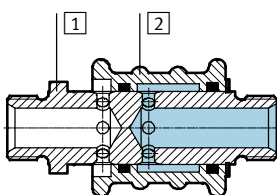
Flow rate characteristics						
Pneumatic connection 1	M5	G1/8	G1/4	G3/8	G1/2	G3/4
Standard nominal flow rate $q_{nN}^{1)}$ [l/min]	120	600	1,000	1,400	2,000	6,800

1) Measured at  $p_1 = 6$  bar and  $p_2 = 5$  bar,  $\Delta p = 1$  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	

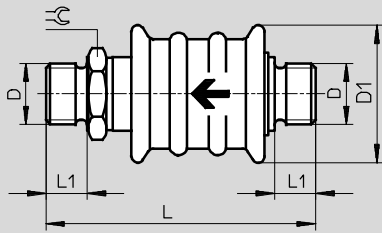
# Hand slide valves W

Technical data

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## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



← Flow direction

Type	Connection D	D1 Ø	L	L1	⊕
W-3-M5	M5	20	46.4	5.0	9
W-3-1/8	G1/8	24	51.3	6.5	14
W-3-1/4	G1/4	35	70.4	8.0	17
W-3-3/8	G3/8	45	79.4	9.0	27
W-3-1/2	G1/2	45	82.4	10.5	27
W-3-3/4	G3/4	50	99.0	12.0	32

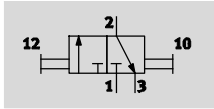
## Ordering data




	Pneumatic connection		Standard nominal flow rate qnN [l/min]	Weight [g]	Part No.	Type
	1	2				
	M5	M5	120	25	4451	W-3-M5
	G1/8	G1/8	600	40	2339	W-3-1/8
	G1/4	G1/4	1,000	110	2340	W-3-1/4
	G3/8	G3/8	1,400	280	2341	W-3-3/8
	G1/2	G1/2	2,000	300	2342	W-3-1/2
	G3/4	G3/4	6,800	400	4052	W-3-3/4

# 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 <sup>1)</sup> [l/min]	236	777	1,675	2,201	3,420	7,691

1) Measured at p<sub>1</sub> = 6 bar and p<sub>2</sub> = 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 <sup>1)</sup>	2

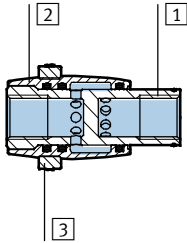
1) Corrosion resistance class 2 according to Festo standard 940 070  
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

# Hand slide valves VBOH

Technical data

## Materials

Sectional view

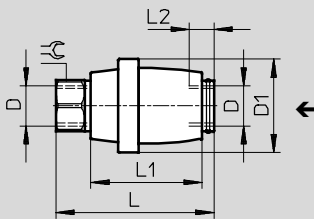


Hand slide valve


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](http://www.festo.com)

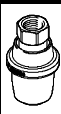


← Flow direction

 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		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