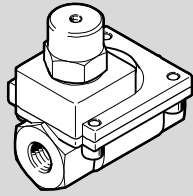


Pneumatic valve VLX-2



FESTO

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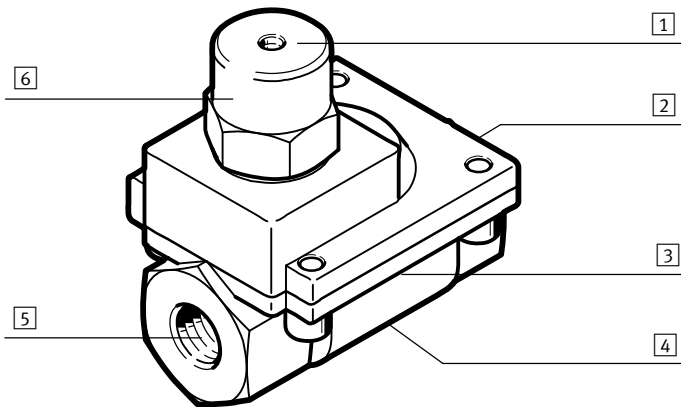
Operating instructions

8065879
1612a
[8065881]

Original: de

Pneumatic valve VLX-2 English

1 Design



- 1 Operating medium port
- 2 Port 1: Inlet
- 3 Arrow for flow direction
- 4 Mounting thread for mounting bracket (bottom side)
- 5 Port 2: Outlet
- 6 Control actuator

Fig. 1

2 Safety

Valves of the series VLX are intended for opening and closing compressed air lines.

- The product may only be used in its original status without unauthorised modifications.
- Take the ambient conditions into consideration at the location of use.
- Only use the product if it is in perfect technical condition.
- Installation and commissioning should only be conducted by qualified personnel.
- Use only media in accordance with specifications. Operation with chemically unstable gases, abrasive media and hard materials is not permitted.
- Use the valve only in the flow direction indicated.
- Store the product in a cool, dry, UV- and corrosion-protected environment.
- Dispose of the product in an environmentally friendly manner.

3 Function

The valve VLX is an indirectly-actuated 2/2-way directional control valve with diaphragm control.

When applying the operating medium, the pneumatic pilot control opens and the differential pressure between inlet and outlet lifts the diaphragm.

The valve opens.

If the operating medium is switched off, the upstream diaphragm closes the valve seat again and the flow is blocked.

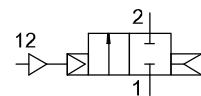


Fig. 2

4 Installation

The valves are installed directly into the line. Additional mounting options result from the mounting threads at the bottom of the valve.



Note

At the threaded end of the outlet port [5] there is a control air hole. For pipe connection only suitable fittings and sealants may be used that do not cover the control air hole.

1. Check the system requirements on site before installation.
 - The piping is unpressurized, and no medium flows in it.
 - The pipelines are clean.
2. Clean the valve immediately before installation.
3. Bring the valve into its mounting position. In doing so, observe the direction of flow [3].
4. Connect the pipe connections of the valve with the pipes by screwing.
 - Max. tightening torque → Fig. 3
5. Connect the lines for the operating medium [1].
 - Max. torque 2 Nm.

Pipe connection	["]	1/4	3/8	1/2	3/4	1
G thread: Max. tightening torque of thread	[Nm]	35	60	105	200	380
NPT thread		Screw in manually and apply max. 1.5 turns with the screw				
Control actuator (M20x1)	[Nm]	40				

Fig. 3

5 Commissioning

- Observe the specifications on the product labelling.
- Start up the valve only if it is fully mounted and built-in.
- Check connection points for tightness.



Note

At sudden pressure increase at inlet [2] the valve opens shortly as a principle.

6 Technical data

General information	VLX-2 -1/4	VLX-2 -3/8	VLX-2 -1/2	VLX-2 -3/4	VLX-2 -1
Valve function	2/2-way, closed, single solenoid				
Design	Diaphragm valve				
Type of actuation	Pneumatic				
Assembly position	Any				
Sealing principle	Soft				
Type of mounting	In-line installation				
Flow direction	Non-reversible				
Type of actuation	Piloted				
Operating medium	Compressed air according to ISO 8573-1:2010 [7:-:-]				
Medium	Filtered compressed air, grade of filtration 200 µm				
Medium pressure	[bar] 1 ...10				
Operating pressure	[bar] Depending on medium pressure → Fig. 5				
Differential pressure	[bar] 1.0				
Temperature of medium	[°C] -10 ... +80				
Ambient temperature	[°C] -10 ... +60				
Valve housing connection as per DIN ISO 228 acc. to ANSI B 1.20.1	G1/4 NPT 1/4	G3/8 NPT 3/8	G1/2 NPT 1/2	G3/4 NPT 3/4	G1 NPT 1
Nominal width	[mm] 13			20	
Standard flow rate	[l/min] 2400	3800	4000	10500	14000
Note on material for housing	Brass				

Fig. 4

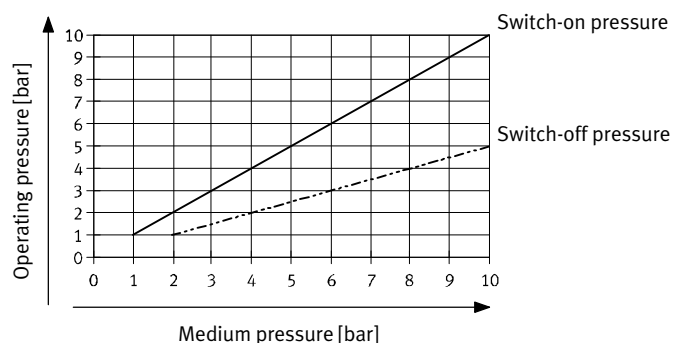


Fig. 5