Shut-off valve VBOC with switching position sensing



Highlights

- Function combination: 2/2-way shut-off valve, optionally with adjustable one-way flow control valve (exhaust air), exhaust function (non-de-tenting) and manual override
- Integrated diagnostics via direct switching position monitoring
- Compact design
- Attractively priced
- Comprehensive range of variants

To stop movements, the piloted shut-off valve VBOC can be mounted directly on a pneumatic drive. This is a perfect solution to minimise safety-related risks and meet the requirements of EC Machinery Directive 2006/42/EC for factory automation.

Safety
The VBOC can be used in pneumatic drive technology as a SSC (safe stopping and closing) safety sub-function in accordance with VDMA 24584.

Fault detection
Simple diagnostics can be realised thanks to the integrated switching position sensing.

Space saving
More functionality without compromising on compact dimensions. A manual override and manual exhaust function are also integrated as an option. This solution is quick to commission and easy to install, especially in tight installation spaces.

Cost-efficient
You save time and money thanks to the function combination, with several valve functions integrated in one component.

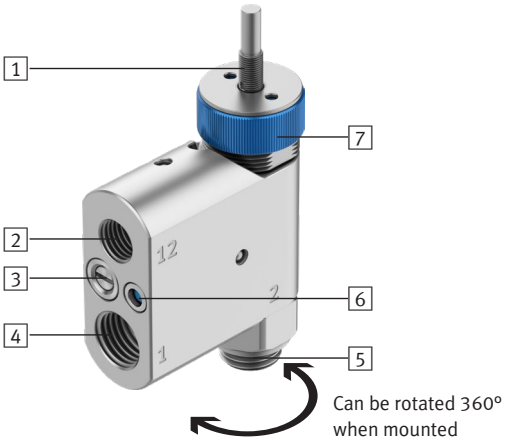
Additional information:

Product page
> www.festo.com/catalogue/vboc

The different functions and versions

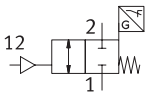
Product design

1 Sensor LED incl. cable connection
2 Pneumatic port 12, pilot air
3 One-way flow control valve (exhaust air)
4 Pneumatic port 1, compressed air supply
5 Pneumatic port 2, drive
6 Exhaust function (non-detenting)
7 Manual override



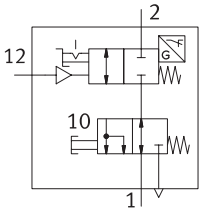
Versions





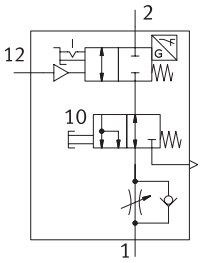
Basic valve: 2/2-way shut-off valve (closed) with switching position sensing, high diagnostic coverage (DC)





Basic valve, additionally with manual override and exhaust function (non-detenting)





Basic valve, additionally with one-way flow control valve, manual override and exhaust function (non-detenting)

Technical data

Pneumatic port 1,2		G1/8	G1/4	G3/8	G1/2
Pneumatic port 12		G1/8			
Nominal flow rate (6→5), standardised according to ISO 8778	[l/min]	330	700	1090	1560
Operating pressure	[MPa]	0.05 ... 1.0			
Temperature range	[°C]	-5 ... +60			
Electrical connection (sensor)		M8 or M12 plug to EN 61076-104, cable length 0.3 m			
CE approval		To EU EMC Directive			