

Miniature valves VOVK

FESTO



Only 5.9 mm wide!

Highlights

- 5.9 mm grid
- Extremely small and lightweight
- Very wide pressure range –0.9 ... 7 bar
- Very low power consumption – ideal for compact valve terminals or battery-powered solutions
- Three setup options

Extremely slim and small yet high performing, with a pressure range of up to 7 bar or down to 0.9 bar under vacuum: ideal if you want to operate a large number of switching valves next to each other in a small space. The 3/2-way NC valve with a flow rate of up to 5.8 l/min can also be expanded to a valve terminal with up to 20 positions.

Suitable for many applications

For example in the area of in-vitro diagnostics (IVD) for small point-of-care (POC) devices, the miniature valves can actuate many diaphragms on a lab-on-a-chip cartridge that contains the analysis process and reagents. Or they can be used to control the flow of liquid in dialysis equipment in order to actuate diaphragm switches that keep the contaminated liquids separate from the system. The VOVK is a miniature all-rounder, whether as a pilot valve or for directly controlling small gas flows in the electronics or semiconductor industry. Thanks to an extremely low power consump-

tion of just 0.5 watts and a switching time of 6 milliseconds a large number of valves can be packed tightly next to each other to switch small gas flows.

High-performance range

Its vacuum suitability together with a pressure range of up to 7 bar and a width of just 5.9 mm make the VOVK unique. It comes in three versions for maximum usability: with a flanged connection underneath for mounting valves on a manifold block, a flanged connection at the front for connecting up to 20 valves side by side or as an individual valve with barbed fitting.

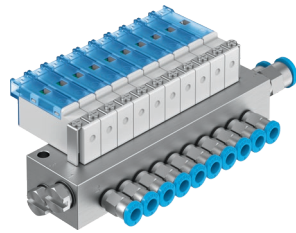
Miniature valves VOVK

Versatile connection concepts: three variants

The VOVK can also be used as a 2/2-way valve by sealing port 3 of the valve on the manifold block.

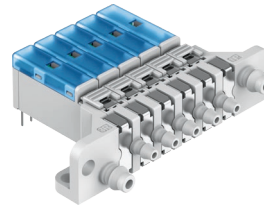
Each miniature valve VOVK is available either with pins or with a cable and plug, in 12 V DC or 24 V DC.

VOVK-...-FB with flanged connection underneath



- Manifold block for an individual valve or for ten valves

VOVK-...-FF with flanged connection on the front



- For easy side-by-side installation of 2 ... 20 valves
- Working ports with 3.2 mm or 4 mm barbed fittings
- Common supply and exhaust with 6 mm barbed fittings

VOVK-...-Q3F individual valve with barbed fittings



Technical data

Type	VOVK
Function	3/2-way valve, normally closed Soft sealing Without manual override
Width [mm]	5.9
Standard flow rate [l/min]	5.8
Cv value [gal/min]	0.006
Operating pressure [bar]	-0.9 ... 7 (suitable for vacuum)
Leakage [l/h]	< 0.3
Switching time [ms]	6 (at 6 bar)
Operating voltage	12 V DC, 24 V DC With LED and overvoltage protection circuit
Power consumption [W]	0.5
Protection class	IP40
Media	Air
Air quality	5µ filter
Service life	> 10 million cycles
Operating temperature [°C]	+5 ... +50

