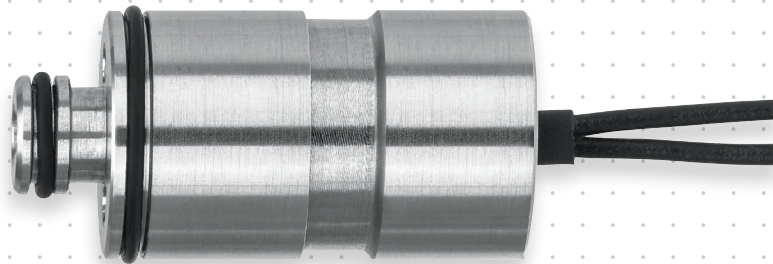




2/2-way proportional valve VPWS



Highlights

- Extremely small, diameter only 15 mm, length only 30 mm
- Lightweight
- High flow rate of up to 210 l/min at 2 bar
- Full proportional characteristics
- Attractively priced

This lightweight cartridge valve is compact at just 15 mm and has a large flow rate of up to 210 l/min at 2 bar. The compact design and high flow rate of the proportional solenoid valve VPWS make it the optimal choice for use in medical technology. It is also suitable for other application areas and industry segments in which gas flows of 5 l/min to 310 l/min at up to 10 bar have to be regulated.

Safe and precise operation

The VPWS regulates gas flows, whether oxygen, carbon dioxide, air, nitrogen dioxide or inert gases, safely and precisely. And not only in medical technology, but also in applications in the electronics and semi-conductor industries, and the biotech/pharmaceutical industries.

Ideal for medical ventilators

The proportional valve VPWS shows its strengths in medical ventilators and anaesthesia systems, for example for mixing respiratory gases with oxygen. But it can also be used in laparoscopy and colonoscopy systems to meter carbon dioxide, air and other gases.

Flow rate always under control

In dental drills or other compressed-air-driven operating instruments, the VPWS regulates the flow of air reliably and precisely.



Additional information:

Product page

> www.festo.com/catalogue/vpws

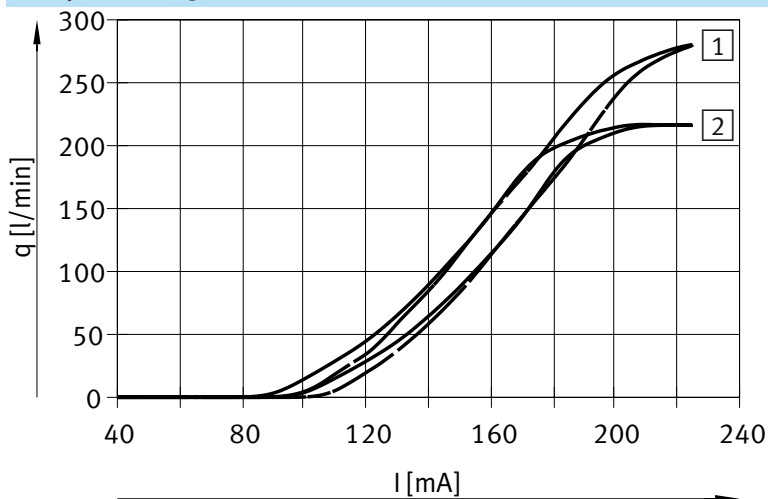


Technical data

	VPWS-0.3	VPWS-1	VPWS-1.5	VPWS-2.2	VPWS-6-...-3	VPWS-6-...-7
Function	2/2 NC 8 mm Cartridge	2/2 NC	2/2 NC	2/2 NC	2/2 NC, pressure compensated	2/2 NC, pressure compensated
Nozzle	0,3 mm	1,0 mm	1,5 mm	2,2 mm	6 mm	6 mm
Max. inlet pressure	10 bar	10 bar	8 bar	3 bar	3 bar	7 bar
Max. flow rate	1,3 l/min at 1 bar 7,5 l/min at 10 bar	60 l/min at 8 bar	90 l/min at 8 bar	50 l/min at 3 bar	200 l/min at 2 bar 270 l/min at 3 bar	200 l/min at 2 bar 310 l/min at 7 bar
Leakage	< 1 ml/min	< 1 ml/min	< 1 ml/min	< 1 ml/min	< 5 ml/min < 2 ml/min (external)	< 5 ml/min < 2 ml/min (external)
Media	Air, neutral gases	Air, oxygen, neutral gases	Air, oxygen, neutral gases	Air, oxygen, neutral gases	Air, oxygen, neutral gases	Air, oxygen, neutral gases
Material	Stainless steel, FKM	Stainless steel, FKM	Stainless steel, FKM	Stainless steel, FKM	Stainless steel, FKM	Stainless steel, FKM
Current control	0 ... 70 mA	0 ... 200 mA	0 ... 200 mA	0 ... 200 mA	0 ... 225 mA	0 ... 225 mA
Max. nominal power	1,5 W	2,5 W	2,5 W	2,5 W	3 W	3 W
Coil resistance at 20 °C	308 Ω	60,5 Ω	60,5 Ω	60,5 Ω	60,5 Ω	60,5 Ω

Also operable with 24 V PWM (min 3 kHz frequency)

Example: flow diagram for the valve VPWS-2.2-B-6-PC15-2-V



- 1 Characteristic curve for 3 bar
- 2 Characteristic curve for 2 bar

