



Proportional pressure regulators VEAA/VEAB



Sub-base valve



In-line valve

Thanks to its high-precision control the future is piezo!

Highlights

- Quiet
- Long service life
- Very low energy consumption
- Extremely precise
- Wide pressure range: 1 ... 10 bar
- Flow ranges:
 - VEAA: up to 7 l/min,
 - VEAB: up to 20 l/min
- As an sub-base or inline valve
- Simple electrical and pneumatic interfaces

A piezo bender is the innovative core element of VEAA and VEAB. These valves offer high-precision flow control at up to 20 l/min. with low hysteresis, high repeat accuracy and low energy consumption. The proportional characteristics of a directly actuated piezo bender ensure stable and reliable regulation, and an infinitely variable pressure rise. The VEAA and VEAB are completely quiet during operation, which is very interesting for many industry segments.

Extremely long service life

Since the piezo component is virtually immune to mechanical wear and abrasion, the valves offer a very high number of switching cycles (≥ 300 million) or setpoint changes.

User-friendly

Virtually all your applications can be covered with the selected control parameters that are stored in the electronics. No need to set any parameters – simply connect and you're ready to go!

Perfect pressure regulation

Compared to pressure regulators with pulse-width modulation, the valves VEAA and VEAB control the set pressure precisely, quietly and stably, without fluctuations in the output pressure, even when the air consumption changes.

Even for micro volumes

VEAA/VEAB reliably regulate the smallest volumes, as well as vacuum or overpressure. Valves that combine both types of pressure in one unit are perfectly suited for dosing applications.

More information online:

Proportional pressure regulators
VEAA
> www.festo.com/catalogue/veaa

VEAB

> www.festo.com/catalogue/veab

Other Product Short Information:

VEAB with IO-Link
> PDF: [veab-iolink](#)

**Made for maximum performance with small and micro volumes**

For maximum performance and excellent economic efficiency. The VEAA and VEAB combine innovative piezo technology with digital control technology. This makes them attractive for many applications as it offers excellent key features, such as:

- Extremely precise and effort-less pressure control behaviour
- Long-term stability
- High repetition accuracy
- Low hysteresis
- Quiet operation
- Extremely low energy consumption

The VEAA and VEAB are particularly suitable for pressure regulation applications with low to micro air consumption for cylinders, grippers and rotary actuators, as well as for applications requiring highly dynamic response characteristics. Examples include pressure over liquid, controlling contact-pressure cylinders or low-pressure regulation for wafer production.

Main industry segments

- Special machine building
- Electronics manufacturing/ small parts assembly
- LifeTech
- Printing and paper machines
- Food processing and packaging machines
- Electrical industry
- Machine tools

Applications

- Pressure regulation
- Testing
- Aspirating and blowing off
- Pressing
- Press-fitting

Technical data

	VEAA	VEAB
Valve function	3-way proportional pressure regulator	
Flow rate at 6 → 5 bar [l/min]	7	20
Pressure ranges [bar]	0.02 ... 2 0.06 ... 6 0.1 ... 10	–1 ... 0 (+/-1) 0.002 ... 0.2 (+/-0.5) 0.01 ... 1 (–1 ... 5) 0.02 ... 2 0.06 ... 6
Pneumatic connection	QS4	
Setpoint value	0 ... 10 V, 4 ... 20 mA	
Actual value	0 ... 10 V, 4 ... 20 mA	
Electrical connection	Plug M8, 4-pin	
Connecting cables	Pre-assembled	
Degree of protection	IP65	