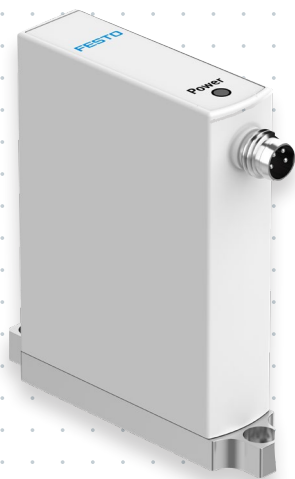




Proportional pressure regulator VEAB with IO-Link®



Sub-base valve



In-line valve

Digitalised piezo control delivers an exceptional performance

Highlights

- IO-Link® communication
- Quiet and durable
- For vacuum and overpressure
- Extremely precise thanks to optimised control behaviour
- Diagnostics and standard commands via IO-Link®: switching cycle counter, processor temperature, switching function, etc.
- Target-reached function
- Customisation functions: application-specific presets, adjust-zero function, 2-point calibration, etc.



The piezo bender is the innovative core element of the VEAB with IO-Link®. It is further enhanced by optimised control behaviour and useful additional functions. The proportional characteristics of a directly actuated piezo bender ensure stable and reliable regulation, and an infinitely variable pressure rise. This is interesting for all those industries requiring IO-Link® communication. The valves control flows of up to 20 l/min with maximum precision, low hysteresis, high repeat accuracy, low energy consumption and completely quietly.

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 predefined control parameters that are stored in the electronics. The settings can be perfectly customised to your individual application thanks to presets for small volumes, large volumes, flow rates and user-specific presets.

Perfect pressure regulation

Compared to pressure regulators with pulse-width modulated valve technology, the pressure regulators VEAB with IO-Link® control the set pressure value from vacuum to overpressure, precisely, quietly and stably, without fluctuations in the output pressure, even in the case of air consumption changes and micro volumes.

Universal communication via IO-Link®

IO-Link® is the first worldwide standardised IO technology (IEC 61131-9) for communicating with both sensors and actuators. This powerful point-to-point communication is based on the familiar three-conductor sensor and actuator connection, without any further requirements on the cabling. IO-Link® is fieldbus-independent and can be integrated into all fieldbus systems worldwide.

**Designed for maximum performance with small volumes**

For maximum performance and excellent economic efficiency. VEAB with IO-Link® combines innovative piezo technology with digital control technology. This makes it interesting for many applications as it offers excellent features, such as:

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

Operating mode

VEAB with IO-Link® is particularly suitable for pressure regulation applications with low air consumption for cylinders, grippers and rotary actuators, as well as for applications requiring highly dynamic response characteristics. It is designed for maximum performance with small volumes, e.g. for controlling pressure cylinders, low-pressure control in wafer production or web control in the textile industry. The selection of presets allows you to optimally adjust the valve behaviour to your application.

The main industry segments

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

Applications

- Pressure regulation
- Web tension control
- Testing
- Aspirating and blowing off
- Gripping
- Dosing
- Pressing
- Press-fitting
- Polishing

Technical data

Valve function	3-way proportional pressure regulator
Flow rate at 6 → 5 bar [l/min]	20
Pressure ranges [bar]	-1 ... 0; -1 ... 1; 0 ... 0,2; 0 ... 1; 0 ... 2; 0 ... 6
Pneumatic connection	QS4
Setpoint value	IO-Link®
Actual value	IO-Link®
Electrical connection	Plug M8, 4-pin
Connecting cables	Pre-assembled
Degree of protection	IP65

Order information			In-line valve		Sub-base valve	
Pressure range [bar]	Part number	Type	Part number	Type	Part number	Type
-1 ... 0	8191407	VEAB-L-26-D14-Q4-LK-1R1	8191413	VEAB-L-26-D14-F-LK-1R1		
-1 ... 1	8191403	VEAB-L-26-D13-Q4-LK-1R1	8191409	VEAB-L-26-D13-F-LK-1R1		
0 ... 0,2	8191408	VEAB-L-26-D12-Q4-LK-1R1	8191414	VEAB-L-26-D12-F-LK-1R1		
0 ... 1	8191405	VEAB-L-26-D7-Q4-LK-1R1	8191411	VEAB-L-26-D7-F-LK-1R1		
0 ... 2	8191404	VEAB-L-26-D2-Q4-LK-1R1	8191410	VEAB-L-26-D2-F-LK-1R1		
0 ... 6	8191406	VEAB-L-26-D9-Q4-LK-1R1	8191412	VEAB-L-26-D9-F-LK-1R1		