Vacuum generator OVEM

FESTO

Integrated functions!

Reliable

OVEM is a compact unit with a large variety of individually selectable functions for gentle, economical and reliable handling in a wide range of industry segments. Five performance classes and the new IO-Link® communication standard make it the ideal solution for every application.

Highlights

- Function integration
- Low installation costs
- Compact design
- Condition monitoring for increased process reliability

Reliable

Evacuation time and vacuum level are monitored using a vacuum sensor and shown on the display for greater process reliability and reduced machine downtime. The separately controllable ejector pulse ensures safe placement of the workpieces. To save energy, the integrated check valve prevents a pressure drop after the vacuum is switched off.
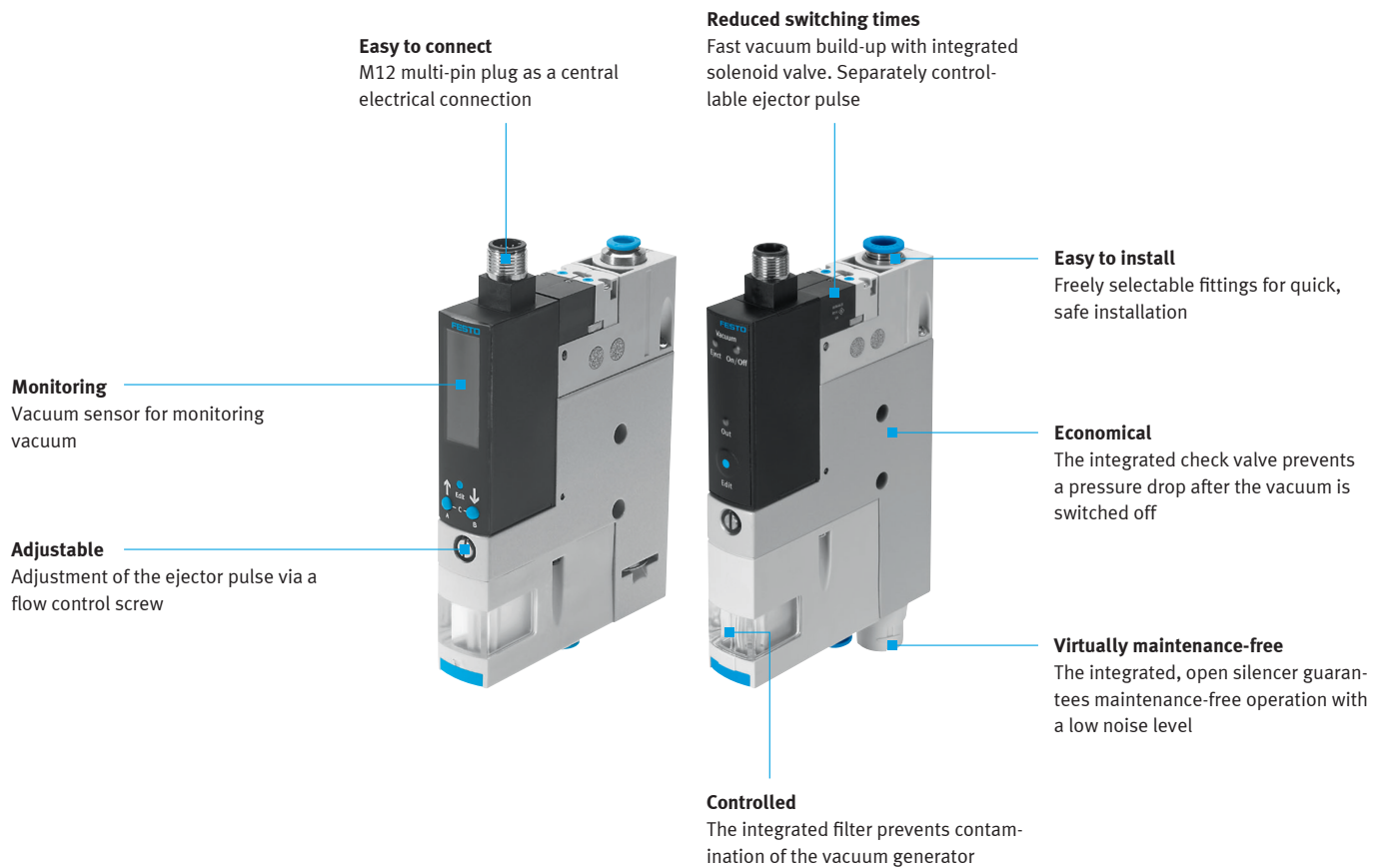
Easy to maintain

The integrated filter with inspection window for indicating when the OVEM needs to be maintained provides certainty. The open silencer means noise values are kept low while maintenance requirements are minimised.

Easy to operate

For a clear layout, all the control elements are placed on one side. IO-Link® makes commissioning and parameterisation very easy, while M12 multi-pin plugs simplify electrical installation. The function integration keeps the assembly costs low.

Vacuum generator OVEM

Easy to connect
M12 multi-pin plug as a central electrical connection

Reduced switching times
Fast vacuum build-up with integrated solenoid valve. Separately controllable ejector pulse

Easy to install
Freely selectable fittings for quick, safe installation

Monitoring
Vacuum sensor for monitoring vacuum

Economical
The integrated check valve prevents a pressure drop after the vacuum is switched off

Adjustable
Adjustment of the ejector pulse via a flow control screw

Virtually maintenance-free
The integrated, open silencer guarantees maintenance-free operation with a low noise level

Controlled
The integrated filter prevents contamination of the vacuum generator

Technical data

Functions	Values
Operating medium	Dry, filtered (40 µm), unlubricated compressed air
Operating pressure [bar]	2 … 8
Ambient temperature [°C]	0 … +50
Nominal width of Laval nozzle [mm]	0.45 / 0.7 / 0.95 / 1.4 / 2.0 *
Versions, 2 types	High vacuum High suction rate
Max. vacuum [%]	90
Operating voltage [V]	24 V DC
Normal position of the vacuum generator	Normally open, with or without ejector pulse Normally closed, with or without ejector pulse
Electrical connection	M12 plug (5-pin)
Vacuum sensor	Without vacuum sensor 1 switching output PNP or NPN, LED indicator 1 switching output PNP, LCD indicator 2 switching outputs PNP or NPN, LCD indicator 1 switching output PNP or NPN and 1 analogue output, LCD indicator IO-Link®, LCD indicator
Degree of protection	IP65

* Restricted choice of functions

Your link to the configurator:
www.festo.com/ovem