

# Vacuum generator OVEM

Part number: 539074

**FESTO**



## Data sheet

Feature	Value
Nominal width of Laval nozzle	0.45 mm...3 mm
Width dimension	20 mm...36 mm
Mounting position	Any
Ejector characteristics	High suction rate High vacuum Standard
Grade of filtration	40 µm
Manual override	Non-detenting Additionally via operating buttons
Integrated function	Ejector pulse valve, electric Flow control Shut off valve, electric Compressed air filter Air saving function, electrical Non-return valve Pneumatic muffler open Vacuum switch
Structural design	Modular
Short-circuit protection	yes
Valve function	Closed Open
Reverse polarity protection	for all electrical connections
Display type	4-character alphanumeric Back-lit LCD LED
Switching position indication	LCD LED
Operating pressure	2 bar...8 bar
Operating pressure for max. vacuum	3.5 bar...5.3 bar
Max. vacuum	93 %
Max. suction rate with respect to atmosphere	6 l/min...348 l/min
DC operating voltage range	20.4 V...27.6 V
Duty cycle	100%
Coil characteristics	24 V DC: low-current phase 0.3 W, high-current phase 2.55 W
Overload protection	Available

Feature	Value
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L VDMA24364 zone III
Temperature of medium	0 °C...50 °C
Relative air humidity	5 - 85 %
Noise level at nominal operating pressure	45 dB(A)...77 dB(A)
Degree of protection	IP65
Ambient temperature	0 °C...50 °C
Product weight	285 g...885 g
Pressure measuring range	-1 bar...0 bar
IO-Link®, profile	Smart sensor profile
IO-Link®, function classes	Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel
IO-Link®, process data content OUT	1 bit (ejector pulse ON/OFF) 1 bit (vacuum ON/OFF)
IO-Link®, process data content IN	14 bit PDV (pressure measurement) 2 bit BDC (pressure monitoring)
IO-Link®, data memory required	0.5 KB
Electrical connection	5-pin M12x1 Plug
Type of mounting	With through-hole With internal thread With accessories
Pneumatic connection 1	G1/8 G1/4 1/8 NPT 1/4 NPT QS-6 QS-8 QS-1/4 QS-5/16
Pneumatic connection 3	G1/8 G3/8 1/8 NPT 1/4 NPT QS-8 QS-12 QS-16 QS-5/16 Pneumatic muffler Pneumatic muffler integrated
Vacuum connection	G1/8 G1/4 1/8 NPT 1/4 NPT 1/2 NPT QS-6 QS-8 QS-12 QS-16 QS-1/4 QS-5/16
Note on materials	RoHS-compliant
Female nozzle material	POM

Feature	Value
Muffler material	Wrought aluminum alloy POM PU foam