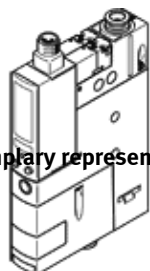


vacuum generator OVEM

Part number: 539074

FESTO

Supply/vacuum port with QS fittings, exhaust port with open silencer.



Exemplary representation

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Nominal size, Laval nozzle	0.45 ... 3 mm
Grid dimension	20 ... 36 mm
Design, silencer	open
Assembly position	Any
Ejector characteristic	High suction flow rate High vacuum Standard
Grade of filtration	40 µm
Manual override	Pushing Additionally via operating buttons
Integrated function	Ejector pulse valve, electrical Flow control valve Electrical on-off valve Filter Air saving function, electrical Non-return valve Open silencer Vacuum switch
Design structure	modular
Short circuit strength	Yes
Measured variable	Relative pressure
Measuring principle	Piezoresistive
Switching element function	Normally closed contact Normally open contact
Switching function	Window comparator Threshold value comparator Threshold value with fixed hysteresis
Valve function	closed open
Polarity protected	for all electrical connections
Standard switching input	IEC 61131-2
Type of display	4-place alphanumeric Backlit LCD LED
Indicating range [bar]	-0.999 ... 0 bar
Indicating range	-29.5 ... 0 inHg
Unit(s) that can be displayed	bar inchH2O inchHg
Hysteresis adjustment range [bar]	-0.9 ... 0 bar
Setting options	IO-Link Teach-In

Feature	Value
	Via display and buttons
Switching position indicator	LCD LED
Operating status display	Optical
Threshold setting range	-1 ... 0 bar
Operating pressure	2 ... 8 bar
Operating pressure for max. vacuum	3.5 ... 5.3 bar
Max. vacuum	93 %
Nominal operating pressure	6 bar
Max. suction rate with respect to atmosphere	6 ... 348 l/min
Air supply time at nominal operating pressure	0.2 ... 4.8 s
Operating voltage range DC	20.4 ... 27.6 V
Duty cycle	100 %
Inductive protective circuit	Adapted to MZ-, MY-, ME coils
Insulation voltage	50 V
Idle current	< 80 mA
Max. output current	100 mA
Residual current	0.1 mA
Switch output	2xNPN 2xPNP NPN PNP
Voltage drop	≤ 2 V
Characteristic coil data	24 V DC: low-current phase 0.3 W, high-current phase 2.55 W
Surge strength	0.8 kV
Overload withstand capability	Available
Degree of contamination	3
Authorisation	RCM Mark c UL us - Listed (OL)
KC mark	KC-EMV
CE mark (see declaration of conformity)	to EU directive for EMC
UKCA marking (see declaration of conformity)	To UK instructions for EMC
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B2-L VDMA24364 zone III
Medium temperature	0 ... 50 °C
Relative air humidity	5 - 85 %
Noise level at nominal operating pressure	45 ... 77 dB(A)
Protection class	IP65
Safety class	III
Ambient temperature	0 ... 50 °C
Max. tightening torque	0.8 Nm with female thread 2.5 Nm with clearance hole
Product weight	285 ... 885 g
Pressure measuring range	-1 ... 0 bar
Accuracy, FS	0.5 ... 3 %FS
Hysteresis	0.02 bar
Switching point reproducibility, FS	0.6 %
Protocol	IO-Link
IO-Link, protocol	Device V 1.1
IO-Link, profile	Smart sensor profile
IO-Link, function classes	Binary Data Channels (BDC) Process Data Variable (PDV) Identification diagnosis Teach channel
IO-Link, communication mode	COM2 (38,4 kBaud)
IO-Link, port type	A
IO-Link, process data width OUT	1 Byte

Feature	Value
IO-Link, process data content OUT	1 bit (ejector pulse IN/OUT) 1 bit (vacuum ON/OFF)
IO-Link, process data width IN	2 Byte
IO-Link, process data content IN	14 bit PDV (pressure reading) 2 bit BDC (pressure monitoring)
IO-Link, minimum cycle time	3,5 ms
IO-Link, data memory required	0.5 Kilobyte
IO-Link, device ID	0x00003E
Input circuit logic	NPN (negative switching) PNP (positive-switching)
Electrical connection	5-pin M12x1 Plug
Protection against manipulation	PIN-Code Electronic locking
Mounting type	with through hole with internal (female) thread with accessories
Pneumatic connection, port 1	G1/8 G1/4 1/8 NPT 1/4 NPT QS-6 QS-8 QS-1/4 QS-5/16
Pneumatic connection, port 3	G1/8 G3/8 1/8 NPT 1/4 NPT QS-8 QS-12 QS-16 QS-5/16 Silencer Integrated silencer
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
Materials note	Conforms to RoHS
Material seals	HNBR NBR
Material receiver nozzle	POM
Material filter	Mesh PA Sintered steel
Material filter housing	PA-reinforced
Material housing	Aluminium die cast Wrought Aluminium alloy PA-reinforced
Material hollow bolt	Wrought Aluminium alloy
Material adjusting screw	Steel
Material silencer	Wrought Aluminium alloy

Feature	Value
	POM PU foam
Material screws	Steel
Material screen	PA
Material connector housing	Nickel-plated brass
Material electrical contact	Brass, gold-plated
Material pins	Steel
Material transmitter nozzle	Wrought Aluminium alloy
Material keypad	PA-reinforced TPE-U
Material fitting	Anodised wrought aluminium alloy Nickel-plated brass
Material bracket	Stainless steel