

Vacuum generator OVEM

Part number: 539074

FESTO



Data sheet

Feature	Value
Nominal size, Laval nozzle	0.45 mm...3 mm
Grid dimension	20 mm...36 mm
Mounting position	optional
Ejector characteristic	High suction rate High vacuum Standard
Grade of filtration	40 µm
Manual override	Non-detenting Additionally via operating buttons
Integrated function	Electric ejector pulse valve Flow control Electric on-off valve Filter Air saving function, electrical Check valve Open silencer Vacuum switch
Design	Modular
Short circuit current rating	yes
Valve function	Closed Open
Reverse polarity protection	For all electrical connections
Display type	4-place alphanumeric Back-lit LCD LED
Switching position indicator	LCD LED
Operating pressure	2 bar...8 bar
Operating pressure for max. vacuum	3.5 bar...5.3 bar
Max. vacuum	93 %
Max. suction flow rate against atmosphere	6 l/min...348 l/min
Operational voltage range DC	20.4 V...27.6 V
Duty cycle	100%
Characteristic coil data	24 V DC: low-current phase 0.3 W, high-current phase 2.55 W
Overload protection	Available

Feature	Value
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L VDMA24364 zone III
Media temperature	0 °C...50 °C
Relative air humidity	5 - 85 %
Sound pressure 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 IN/OUT) 1 bit (vacuum ON/OFF)
IO-Link, Process data content IN	14 bit PDV (pressure measurement value) 2 bit BDC (pressure monitoring)
IO-Link, Data storage required	0.5 KB
Electrical connection	5-pin M12x1 Plugs
Type of mounting	With through-hole Via 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
Note on materials	RoHS-compliant
Material receiver nozzle	POM

Feature	Value
Material silencer	Wrought aluminium alloy POM PU foam