Vacuum generator OVEM Part number: 539074

FESTO



Data sheet

Feature	Value
Nominal width of Laval nozzle	0.45 mm3 mm
Width dimension	20 mm36 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 bar8 bar
Operating pressure for max. vacuum	3.5 bar5.3 bar
Max. vacuum	93 %
Max. suction rate with respect to atmosphere	6 l/min348 l/min
DC operating voltage range	20.4 V27.6 V
Duty cycle	100%
Coil characteristics	24 V DC: low-current phase 0.3 W, high-current phase 2.55 W
Overload protection	Available

Note level at nominal operating pressure Degree of protection Pie65 Ambient temperature Product weight Pressure measuring range 1-bar0 bar IO-Link®, frunction classes Binary data channel (BDC) Process data variable (PDV) Identification Disgnostics Teach Channel IO-Link®, process data content OUT 1 bit (ejector pulse ON/OFF) 1 bit (vacuum ON/OFF) IO-Link®, data memory required 0.5 KB Electrical connection Type of mounting With through-hole With internal thread With accessories Preumatic connection 3 Preumatic connection 3 G1/8 G3/8 G3-14 GS-8 GS-12 GS-16 GS-17 IV NPT IV NP	Feature	Value
Comparison medium	Certification	
Cornosion resistance class (CRC) 2 - Moderate corrosion stress	CE marking (see declaration of conformity)	As per EU EMC directive
ABS (PWIS) conformity	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
VDMA23464 zone III	Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Relative air humidity Noise level at nominal operating pressure 45 d8 d8 (A77 d8 (A) Degree of protection IP65 Ambient temperature 0 °C50 °C Product weight 28 5 g88 5 g Product weight 10-Link®, function classes IO-Link®, function classes IO-Link®, profile IO-Link®, process data content OUT 11 bit (spictor pulse ON/OFF) 1 bit (yocuum ON/OFF) 1 bit (y	LABS (PWIS) conformity	
Note level at nominal operating pressure Degree of protection Pie5 Product weight Pressure measuring range 1-baro bar O-Link®, function classes Processed at a content OUT 1-D-Link®, process data content OUT 1-D-Link®, process data content IN 1-D-Link®, data memory required 1-D-Link®, data memory required 1-D-Link®, fala connection 1-D-Link®, fa	Temperature of medium	0 ℃50 ℃
Degree of protection	Relative air humidity	5 - 85 %
Ambient temperature Product weight 285 g885 g Prosure measuring range 10-Link®, function classes 10-Link®, process data content OUT 1 bit (ejector pulse ON/OFF) 1 bit (vacuum ON/OFF) 1 bit (va	Noise level at nominal operating pressure	45 dB(A)77 dB(A)
Product weight 28 5 g88 5 g Pressure measuring range 1-1 bar o bar 1 O-Link®, profile Smart sensor profile O-Link®, function classes Smart sensor profile O-Link®, function classes Smart sensor profile O-Link®, process data variable (PDV) dentification Diagnostics reach channel (BDC) process data content OUT 1 bit (ejector pulse ON/OFF) In the (ejector pulse ON/OFF)	Degree of protection	IP65
Pressure measuring range 1-bar0 bar IO-Link®, profile Smart sensor profile IO-Link®, function classes Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Io-Link®, function classes Ibi (vacuum ON/OFF) Io-Link®, process data content OUT 1-bit (ejector pulse ON/OFF) Io-Link®, process data content IN 1-bit (ejector pulse ON/OFF) Io-Link®, process data content IN 1-bit (ejector pulse ON/OFF) Io-Link®, process data content IN 1-bit (ejector pulse ON/OFF) Io-Link®, process data content IN 1-bit (ejector pulse ON/OFF) Io-Link®, process data content IN 1-bit (ejector pulse ON/OFF) Io-Link®, process data content IN 1-bit (vacuum ON/OFF)	Ambient temperature	0 °C50 °C
IO-Link®, profile Smart sensor profile	Product weight	285 g885 g
Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel DoLink®, process data content OUT 1 bit (ejector pulse ON/OFF) 1 bit (yeu mo N/OFF) 1 bit (yeu mo	Pressure measuring range	-1 bar0 bar
Process data variable (PDV) Identification Diagnostics Teach channel IO-Link®, process data content OUT Ibit (ejector pulse ON/OFF) Ibit (vacuum ON/OFF) I	IO-Link®, profile	Smart sensor profile
1 bit (vacuum ON/OFF) 10-Link®, process data content IN 14 bit POV (pressure measurement) 2 bit BDC (pressure monitoring) 10-Link®, data memory required 0.5 KB Electrical connection 5-pin M12x1 Plug With through-hole with internal thread With accessories Pneumatic connection 1 61/4 1/8 NPT 1/4 NPT 0.5-6 OS-5/16 OS-5/16 OS-5/16 OS-	IO-Link®, function classes	Process data variable (PDV) Identification Diagnostics
2 bit BDC (pressure monitoring) O-Link®, data memory required O.5 kB	IO-Link®, process data content OUT	
Electrical connection	IO-Link®, process data content IN	
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 Q5-6 Q5-8 Q5-1/4 Q5-5/16 Pneumatic connection 3 G1/8 G3/8 1/8 NPT 1/4 NPT Q5-8 Q5-12 Q5-16 Q5-5/16 Q5-16 Q5-16 Q5-8 Q5-12 Q5-16 Q5-16 Q5-16 Q5-16 Q5-10 Q	IO-Link®, data memory required	0.5 KB
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-12 QS-16 QS-5/16 Pneumatic muffler pneumatic muffler integrated Vacuum connection G1/8 G1/4 1/8 NPT 1/4 NPT QS-6 QS-5/16 Pneumatic muffler integrated Vacuum connection G1/8 G1/4 1/8 NPT 1/4 NPT QS-6 QS-8 QS-12 QS-10 QS-11/4 QS-5/16 Note on materials RoHS-compliant	Electrical connection	M12x1
G1/4 1/8 NPT 1/4 NPT QS-6 QS-8 QS-1/4 QS-5/16	Type of mounting	With internal thread
G3/8	Pneumatic connection 1	G1/4 1/8 NPT 1/4 NPT QS-6 QS-8 QS-1/4
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	Pneumatic connection 3	G3/8 1/8 NPT 1/4 NPT QS-8 QS-12 QS-16 QS-5/16 Pneumatic muffler
Note on materials RoHS-compliant	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
	Note on materials	
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Feature	Value
	Wrought aluminum alloy POM PU foam