

Vacuum generator OVEM-20-H-B-PO-CE-N-1P

Part number: 8023701

FESTO



Data sheet

 General operating condition

Feature	Value
Nominal size, Laval nozzle	2 mm
Grid dimension	20 mm
Silencer design	Open
Mounting position	optional
Ejector characteristic	High vacuum Standard
Grade of filtration	40 µm
Manual override	Non-detenting
Integrated function	Electric ejector pulse valve Flow control Electric on-off valve Filter Check valve Open silencer Vacuum switch
Design	Modular
Short circuit current rating	yes
Measured variable	Relative pressure
Measuring principle	Piezoresistive
Switching element function	N/O contact
Switching function	Threshold value comparator Threshold value with fixed hysteresis
Symbol	00992094
Valve function	Closed
Reverse polarity protection	For all electrical connections
Standard switching input	IEC 61131-2
Display type	LED
Setting options	Teach-in
Switching position indicator	LED
Switching status indication	Optical
Setting range threshold value	-1 bar ... 0 bar
Operating pressure	2 bar ... 8 bar
Operating pressure for max. vacuum	5.3 bar
Max. vacuum	93 %
Nominal operating pressure	6 bar
Max. suction flow rate against atmosphere	86.5 l/min
Air supply time at nominal operating pressure	0.2 s
Operational voltage range DC	20.4 V ... 27.6 V

Feature	Value
Duty cycle	100%
Inductive protective circuit	Adapted to MZ, MY, ME coils
Insulation voltage	50 V
No-load supply current	<80 mA
Max. output current	100 mA
Off-state current	0.1 mA
Switching output	PNP
Voltage drop	≤1.5 V
Characteristic coil data	24 V DC: low-current phase 0.3 W, high-current phase 2.55 W
Immunity to surge	0.8 kV
Overload protection	Available
Pollution degree	3
Approval	RCM trademark c UL us listed (OL)
KC mark	KC-EMV
CE mark (see declaration of conformity)	To EU EMC Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Media temperature	0 °C ... 50 °C
Relative air humidity	5 - 85 %
Sound pressure level at nominal operating pressure	74 dB(A)
Degree of protection	IP65
Protection class	III
Ambient temperature	0 °C ... 50 °C
Max. tightening torque	0.8 Nm with female thread 2.5 Nm with through-hole
Product weight	400 g
Pressure measuring range	-1 bar ... 0 bar
Accuracy in ± % FS	0.5 %FS
Hysteresis	0.02 bar
Reproducibility of switching values FS	0.6 %
Switching logic for inputs	PNP (positive switching)
Electrical connection	M12x1 Plugs
Type of mounting	With through-hole Via female thread With accessories
Pneumatic connection, port 1	G1/4
Pneumatic connection, port 3	Integrated silencer
Vacuum connection	QS-8
Note on materials	RoHS-compliant
Material seals	NBR
Material receiver nozzle	POM
Material filter	Fabric PA Sintered steel
Material filter housing	PA-reinforced
Material housing	Die-cast aluminium PA-reinforced
Material hollow bolt	Wrought aluminium alloy
Material adjusting screw	Steel

Feature	Value
Material silencer	Wrought aluminium alloy PU foam
Material screws	Steel
Material connector housing	Nickel-plated brass
Material electrical contact	Gold-plated brass
Material pins	Steel
Material transmitter nozzle	Wrought aluminium alloy
Material keypad	PA-reinforced
Material fitting	Nickel-plated brass
Material bracket	Stainless steel