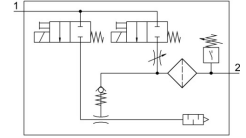


# Vacuum generator OVEM-20-H-B-PO-CE-N-1P

Part number: 8023701

FESTO



## Data sheet

Feature	Value
Nominal width of Laval nozzle	2 mm
Width dimension	20 mm
Type code	OVEM
Muffler construction type	Open
Mounting position	Any
Ejector characteristics	High vacuum Standard
Grade of filtration	40 µm
Manual override	Non-detenting
Integrated function	Ejector pulse valve, electric Flow control Shut off valve, electric Compressed air filter Non-return valve Pneumatic muffler open Vacuum switch
Structural design	Modular
Short-circuit protection	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
Switching input to standard	IEC 61131-2
Display type	LED
Setting options	Teach-in
Switching position indication	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 rate with respect to atmosphere	86.5 l/min
Air supply time at nominal operating pressure	0.2 s

Feature	Value
DC operating voltage range	20.4 V ... 27.6 V
Duty cycle	100%
Inductive protective circuit	Adapted to MZ, MY and ME coils
Insulation voltage	50 V
Idle current	<80 mA
Max. output current	100 mA
Residual current	0.1 mA
Switching output	PNP
Voltage drop	≤1.5 V
Coil characteristics	24 V DC: low-current phase 0.3 W, high-current phase 2.55 W
Surge resistance	0.8 kV
Overload protection	Available
Contamination level	3
Certification	RCM compliance mark c UL us - Listed (OL)
KC characters	KC EMC
CE marking (see declaration of conformity)	As per EU EMC directive
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication not possible
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Temperature of medium	0 °C ... 50 °C
Relative air humidity	5 - 85 %
Noise 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 internal thread 2.5 Nm with through-hole
Product weight	415 g
Pressure measuring range	-1 bar ... 0 bar
Accuracy in ± % FS	0.5 %FS
Hysteresis	0.02 bar
Reproducibility, switching value FS	0.6 %
Input switching logic	PNP (positive switching)
Electrical connection	5-pin M12x1 Plug
Type of mounting	With through-hole With internal thread With accessories
Pneumatic connection 1	G1/4
Pneumatic connection 3	Pneumatic muffler integrated
Vacuum connection	QS-8
Note on materials	Contains paint-wetting impairment substances RoHS-compliant
Seals material	NBR
Female nozzle material	POM
Compressed air filter material	Fabric PA Sintered steel
Material of filter housing	PA-reinforced
Housing material	Die-cast aluminum PA-reinforced
Hollow bolt material	Wrought aluminum alloy
Material of adjusting screw	Steel

<b>Feature</b>	<b>Value</b>
Muffler material	Wrought aluminum alloy PU foam
Material of screws	Steel
Material of plug housing	Brass, nickel-plated
Material of pin contacts	Brass, gold-plated
Material of pins	Steel
Material of jet nozzle	Wrought aluminum alloy
Material of keypad	PA-reinforced
Material of pneumatic fitting	Brass, nickel-plated
Bracket material	Stainless steel