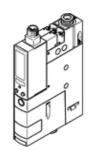
## Vacuum generator OVEM-10-H-BN-QO-ON-N-2P Part number: 539988

**FESTO** 

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





## **Data sheet**

Feature	Value
Nominal size, Laval nozzle	0.95 mm
Grid dimension	20 mm
Design, silencer	open
Assembly position	Any
Ejector characteristic	High vacuum
	Standard
Grade of filtration	40 μm
Manual override	Pushing
	Additionally via operating buttons
Integrated function	Electrical on-off valve
	Filter
	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
Valve function	open
Polarity protected	for all electrical connections
Standard switching input	IEC 61131-2
Type of display	4-place alphanumeric
	Backlit LCD
Indicating range	-29.5 0 inchHg
Unit(s) that can be displayed	inchHg
Threshold setting range	-0.999 0 bar
Hysteresis adjustment range [bar]	-0.9 0 bar
Setting options	Via display and buttons
Switching position indicator	LCD
Operating status display	Optical
Working pressure	2 8 bar
Working pressure for max. vacuum	3.5 bar
Max. vacuum	93 %
Nominal working pressure	6 bar
Max. suction rate with respect to atmosphere	19.5 l/min
Air supply time at nominal working pressure	1.2 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	< 70 mA



Residual current         0.1 mA           Voltage drop         4.1.5 V           Characteristic col data         2.4 V DC Tow current phase 0.3 W, high current phase 2.55 W           Surge strength         0.8 kV           Overload withstand capability         Available           Degree of contamination         3           Operating medium         Compressed ain a accordance with 1508573-122010 [7-M4]           Was on operating and pilot medium         Lubricated operation not possible           CE symbol (see declaration of conformity)         according to EU-ENV guideline           Corrosion resistance dassification CRC         2           Medium temperature         0.50 °C           Relative air humidoly         5.8 %           Noise level at nominal operating pressure         7.360(X)           Protection class         IPS           Salvey class         III           Authorization         RCM Mark           Cut us - Listed (01)           Max. Eightening torque         0.8 Nm with female thread           Accuracy, FS         3 76FS           Switching point reproducibility, FS         0.6 %           No %         Nm with clearance hole           Pressure measuring range         -1 0 bar           Accuracy, FS         3 76FS <th>Feature</th> <th>Value</th>	Feature	Value
Residual current         0.1 mA           Voltage drop         4.1.5 V           Characteristic col data         2.4 V DC Tow current phase 0.3 W, high current phase 2.55 W           Surge strength         0.8 kV           Overload withstand capability         Available           Degree of contamination         3           Operating medium         Compressed ain a accordance with 1508573-122010 [7-M4]           Was on operating and pilot medium         Lubricated operation not possible           CE symbol (see declaration of conformity)         according to EU-ENV guideline           Corrosion resistance dassification CRC         2           Medium temperature         0.50 °C           Relative air humidoly         5.8 %           Noise level at nominal operating pressure         7.360(X)           Protection class         IPS           Salvey class         III           Authorization         RCM Mark           Cut us - Listed (01)           Max. Eightening torque         0.8 Nm with female thread           Accuracy, FS         3 76FS           Switching point reproducibility, FS         0.6 %           No %         Nm with clearance hole           Pressure measuring range         -1 0 bar           Accuracy, FS         3 76FS <td>Max. output current</td> <td>100 mA</td>	Max. output current	100 mA
Switch output  Voltage drop  (-1.5 V Characteristic coil data  Surge strength  Operation of the contamination Operating medium  Compressed air in accordance with 1508573-1:2010 [7:44] Operated withstand capability Operated with a contamination Operating medium Compressed air in accordance with 1508573-1:2010 [7:44] Operating medium Operating medium Unbritated operation not possible Corrosion resistance classification CRC  2 Swinbot (see delaration of conformity) Ocordo resistance classification CRC  2 Relative air humidity Operating pressure	•	0.1 mA
Voltage drop	Switch output	2xPNP
Characteristic coil data		
Surge strength O. 8 kV Overload withstand capability Available Degree of contamination 3 Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation not possible CE symbol (See declaration of conformity) according to EU EAV guideline Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation not possible CE symbol (See declaration of conformity) according to EU EAV guideline Corrosion resistance classification CRC 2 Medium temperature O 50 °C Reditate air humidity S85 % Noise level at nominal operating pressure 73 dB(A) Protection class IP65 Safety class III Ambient temperature O 50 °C Authorization RM Mark Cull us - Listed (O1) Max. tightening torque O. 8 Mm with female thread 2.5 Mm with female thread 2.5 Mm with female thread 2.5 Mm with clearance hole Product weight Pressure measuring range 1 0 bar Accuracy, FS 3 3 %FS Switching point reproducibility, FS O. 6 % Switching point reproducibility, FS O. 6 % With through hole with internal (demale) thread with accessories Preumatic connection, port 1 Preumatic connection, port 3 Operating point reproducibility of thread With accessories Preumatic connection, port 3 Operating point reproducibility PA-reinforced Materials information, collector nozzle Material information, collector nozzle Material information, for seals Material information, jetnecer Wrought Aluminum alloy PA-reinforced Materials information, selencer Wrought Aluminum alloy PA-reinforced Material information, plug housing Material information, pl	·	24 V DC: low-current phase 0.3 W, high-current phase 2.55 W
Overload withstand capability         Available           Deprace of containiation         3           Operating medium         Compressed air in accordance with (508573-1):2010 [7:4-4]           Note on operating and pilot medium         Lobricated operation not possible           CE symbol Gee declaration of conformity)         according to EU-ENV guideline           Corrosion resistance classification CRC         2           Medium temperature         0		
Degree of contamination         3           Opcreating medium         Compressed air in accordance with ISO8573-1:2010 [7:4:/4]           Note on operating and pilot medium         Lubricated operation not possible           CE symbol (see declaration of conformity)         according to EU-ENV guideline           Corrosion resistance classification CKC         2           Medium temperature         050 °C           Relative air humidity         5 85 %           Noise level at nominal operating pressure         73 dB(A)           Protection class         IPE5           Safety class         III           Authorization         RCM Mark           cl U.s Listed (OL)           Max. tightening torque         050 °C           Authorization         RCM Mark           cl U.s Listed (OL)           Max. tightening torque         0.8 Nm with female thread           2.5 Nm with female thread         2.5 Nm with female thread           2.5 Nm with female thread         2.5 Nm with female thread           2.5 Nm with female thread         2.5 Nm with female thread           Pressure measuring range         1 o bar           Accuracy, FS         3 %FS           Switching point reproducibility, FS         0.6 %           Input circuit logic		Available
Compressed air in accordance with ISO8573-1;2010 [7:4:4]	, .	3
Note on operating and pilot medium  Corrosion resistance classification CRC  2		Compressed air in accordance with ISO8573-1:2010 [7:4:4]
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Corrosion resistance classification CRC   2		
Relative air humidity  Noise level at nominal operating pressure  7 3 dB(A)  Protection class  Protection class  All III  Ambient temperature  0 50 °C  Authorization  RCM Mark  CUL us - Usted (OL)  Max. tightening torque  0.8 Nm with female thread 2.5 Nm with (elerance hole  Product weight  Product weight  Product weight  Product weight  Product produc		
Relative air humidity  Noise level at nominal operating pressure  7 3 dB(A)  Protection class  Protection class  All III  Ambient temperature  0 50 °C  Authorization  RCM Mark  CUL us - Usted (OL)  Max. tightening torque  0.8 Nm with female thread 2.5 Nm with (elerance hole  Product weight  Product weight  Product weight  Product weight  Product produc	Medium temperature	0 50 °C
Noise level at nominal operating pressure   73 dB(A)   Protection class   IP65   Safety class   III   Ambient temperature   0 50 °C   Authorization   RCM Mark   CUL us - Usted (01)   Max. tightening torque   0.8 Nm with female thread   2.5 Nm with clearance hole   Product weight   322 g   Pressure measuring range   1 0 bar   Accuracy, FS   3 %FS   Switching point reproducibility, FS   0.6 %   Input circuit logic   PPH (positive-switching)   Electrical connection   Plug   Mu12x1   Spin   Mounting type   with through hole   with internal (female) thread   with accessories   Presumatic connection, port 1   Q.5 5/16   Pneumatic connection, port 3   Integrated silencer   Vacuum connection   Q.5 5/16   Materials information for seals   NBR   Materials information, collector nozzle   POM   Materials information, filter housing   PA-reinforced   Materials information, silencer   Wrought Aluminum alloy   PA-reinforced   Materials information, pins   Material information, pins   Material information, pins   Steel   Material information, pins   Steel   Material information, pins   Material information, pins   Material information, pins   Steel   Material information, pins   Material information, pins   Material information, pins   Material information, pins   Steel   Material information, pins   Steel   Material information, pins   Steel   Material information, pypad   TFE.U	•	
Protection class   1965		
Ambient temperature Authorization RCM Mark cUL us - Listed (OL) Max. tightening torque 0.8 Nm with female thread 2.5 Nm with clearance hole Product weight 322 g Pressure measuring range 1 O bar Accuracy, FS 3 %FS Switching point reproducibility, FS 0.6 % Input circuit logic Product weight Prognitive switching Input circuit logic Prognitive switching Plug M12x1 S-pin Mounting type with through hole with internal (female) thread with accessories with internal (female) thread with accessories Preumatic connection, port 1 QS-5/16 Preumatic connection, port 3 Integrated silencer Vacuum connection, port 3 Vacuum connection QS-5/16 Materials note Confams PWIS substances Conforms to RoHS Material information, collector nozzle POM Materials information for seals NBR Material information, filter Mesh Alterial information, filter housing PA-reinforced Material information, housing Aluminum die cast PA-reinforced Material information, plus housing Material information, plus Muserial information, plus		
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Authorization  RCM Mark c UL us - Listed (OL)  Max. tightening torque  0.8 Nm with female thread 2.5 Nm with clearance hole  Product weight 322 g Pressure measuring range 1 0 bar Accuracy, FS 3 %FS  Switching point reproducibility, FS 0.6 % Input circuit logic PNP (positive-switching) Electrical connection Plug with through hole with internal (female) thread with accessories  Pneumatic connection, port 1 QS-5/16 Pneumatic connection, port 3 Integrated silencer Vacuum connection, port 3 Materials information for seals Material information, collector nozzle Materials information, filter housing Materials information, silencer Wought Aluminum alloy PA-reinforced Material linformation, pins on the connectors Sreas Material information, plug housing Material information, plug h		0 50 °C
Max. tightening torque  0.8 Nm with female thread 2.5 Nm with clearance hole  Product weight  22 g  Pressure measuring range  1 0 bar  Accuracy, FS  3 %FS  Switching point reproducibility, FS  0.6 %  Input circuit logic  Electrical connection  Mu12x1  5-pin  Mounting type  with through hole with internal (female) thread with accessories  Presumatic connection, port 1  QS-5/16  Preumatic connection, port 3  Integrated silencer  Vacuum connection  Materials information for seals  Materials information for filter  Materials information, collector nozzie  Materials information, filter housing  Materials information, silencer  Wrought Aluminum alloy  PA  Materials information, pilencer  Wrought Aluminum alloy  Brass Nickel plated  Materials information, pils  Materials information, pils housing  Brass Material information, pils  Materials information, pils nozzie  Material information, pils nozzie  Material information, pils nozzie  Material information, pils nozzie  Material information, silencer  Wrought Aluminum alloy  Plated  Material information, pils plousing  Material information, pils nozzie  Material information, pils nozzie  Material information, pils nozzie  Material information, pils nozzie  Material information, pils oxed  Material information, pils	·	
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Pressure measuring range Accuracy, FS 3 %FS 3 %FS Switching point reproducibility, FS 0.6 % Input circuit logic PNP (positive-switching) Electrical connection Plug M12x1 5-pin Mounting type with through hole with accessories Pneumatic connection, port 1 QS-5/16 Pneumatic connection, port 3 Integrated silencer Vacuum connection QS-5/16 Materials note Contains PWIS substances Conforms to RoHS Materials information for seals Material information for filter Materials information, filter housing Materials information, housing Aluminum die cast PA-reinforced Materials information, silencer Wrought Aluminum alloy PU foam Material information, pug housing Raterial information, pug housing Material information, pug housing Raterial information, pins Raterial information, pins Steel Material information, pins Steel Material information, pins Steel Material information, pins Steel Material information, pins Raterial information, pins Raterial information, per housed Rateria		2.5 Nm with clearance hole
Pressure measuring range Accuracy, FS 3 %FS 3 %FS Switching point reproducibility, FS 0.6 % Input circuit logic PNP (positive-switching) Electrical connection Plug M12x1 5-pin Mounting type with through hole with accessories Pneumatic connection, port 1 QS-5/16 Pneumatic connection, port 3 Integrated silencer Vacuum connection QS-5/16 Materials note Contains PWIS substances Conforms to RoHS Materials information for seals Material information for filter Materials information, filter housing Materials information, housing Aluminum die cast PA-reinforced Materials information, silencer Wrought Aluminum alloy PU foam Material information, pug housing Raterial information, pug housing Material information, pug housing Raterial information, pins Raterial information, pins Steel Material information, pins Steel Material information, pins Steel Material information, pins Steel Material information, pins Raterial information, pins Raterial information, per housed Rateria	Product weight	322 g
Accuracy, FS Switching point reproducibility, FS O. 6.% Switching point reproducibility, FS O. 6.% Input circuit logic Electrical connection Plug M12x1 5-pin Mounting type with through hole with internal (female) thread with accessories Pneumatic connection, port 1 Q5-5/16 Pneumatic connection, port 3 Integrated silencer Vacuum connection Q5-5/16 Materials note Contains PWIS substances Conforms to RoHS Materials information for seals Materials information for filter Materials information for filter Materials information, collector nozzle Materials information, filter housing Materials information, silencer Wrought Aluminum die cast PA-reinforced Material information, silencer Wrought Aluminum alloy PU foam Material information, plug housing Material information, plug housing Material information, plug housing Material information, pins Steel Material information, pins occasions with a material information, pins Material information, pins Material information, pins occasions with a material information, pins		-1 0 bar
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Mounting type  Mounting type  With through hole with internal (female) thread with accessories  Pneumatic connection, port 1 Pneumatic connection, port 3 Pneumatic connection, port 3 Pneumatic connection Pneumatic connection Pneumatic connection Pneumatic connection Pneumatic connection  Vacuum connection QS-5/16  Materials note Confains PWIS substances Conforms to ROHS  Materials information for seals NBR  Material information, collector nozzle POM Materials information for filter Mesh PA Sintered steel  Material information, filter housing PA-reinforced  Material information, housing Aluminum die cast PA-reinforced  Material information, silencer Wrought Aluminum alloy PI foam  Screw material data Steel  Material information, plug housing Brass Gold plated  Material information, pins Material information, pins Material information, pins Steel  Material information, pin nozzle  Mittal accessories  Material information  Material information  Material information  Material information  Material information  Mate	· ·	Plug
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with internal (female) thread with accessories  Pneumatic connection, port 1 QS-5/16  Pneumatic connection, port 3 Integrated silencer  Vacuum connection QS-5/16  Materials note Contains PWIS substances	Mounting type	with through hole
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Pneumatic connection, port 3     Integrated silencer       Vacuum connection     QS-5/16       Materials note     Contains PWIS substances       Conforms to RoHS     NBR       Materials information for seals     NBR       Material information, collector nozzle     POM       Materials information for filter     Mesh PA       Material information, filter housing     PA-reinforced       Material information, housing     Aluminum die cast PA-reinforced       Material information, silencer     Wrought Aluminum alloy PU foam       Screw material data     Steel       Material information, plug housing     Brass Nickel plated       Material information for crimp connectors     Brass Gold plated       Material information, pins     Steel       Material information, pet nozzle     Wrought Aluminum alloy       Material information, pet nozzle     Wrought Aluminum alloy       Material information, pet nozzle     Wrought Aluminum alloy       Material information, keypad     TPE-U		with accessories
Pneumatic connection, port 3     Integrated silencer       Vacuum connection     QS-5/16       Materials note     Contains PWIS substances Conforms to RoHS       Materials information for seals     NBR       Material information, collector nozzle     POM       Materials information for filter     Mesh PA Sintered steel       Material information, filter housing     PA-reinforced       Materials information, housing     Aluminum die cast PA-reinforced       Material information, silencer     Wrought Aluminum alloy PU foam       Screw material data     Steel       Material information, plug housing     Brass Nickel plated       Material information for crimp connectors     Brass Gold plated       Material information, pins     Steel       Material information, pies online to zzle     Wrought Aluminum alloy       Material information, pet nozzle     Wrought Aluminum alloy       Material information, pet nozzle     Wrought Aluminum alloy       Material information, keypad     TPE-U	Pneumatic connection, port 1	QS-5/16
Vacuum connection       QS-5/16         Materials note       Contains PWIS substances         Materials information for seals       NBR         Material information, collector nozzle       POM         Materials information for filter       Mesh PA Sintered steel         Material information, filter housing       PA-reinforced         Materials information, housing       Aluminum die cast PA-reinforced         Material information, silencer       Wrought Aluminum alloy PU foam         Screw material data       Steel         Materials info, viewing window       PA         Material information, plug housing       Brass Nickel plated         Material information for crimp connectors       Brass Gold plated         Material information, jet nozzle       Wrought Aluminum alloy         Material information, keypad       TPE-U		Integrated silencer
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PU foam  Screw material data Steel  Materials info, viewing window PA  Material information, plug housing Brass Nickel plated  Material information for crimp connectors Brass Gold plated  Material information, pins Steel  Material information, jet nozzle Wrought Aluminum alloy  Material information, keypad  TPE-U		PA-reinforced
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Material information, plug housing  Brass Nickel plated  Material information for crimp connectors  Brass Gold plated  Material information, pins  Steel  Material information, jet nozzle  Material information, keypad  TPE-U		PA
Material information for crimp connectorsBrass Gold platedMaterial information, pinsSteelMaterial information, jet nozzleWrought Aluminum alloyMaterial information, keypadTPE-U		
Material information for crimp connectorsBrass Gold platedMaterial information, pinsSteelMaterial information, jet nozzleWrought Aluminum alloyMaterial information, keypadTPE-U		Nickel plated
Material information, pinsSteelMaterial information, jet nozzleWrought Aluminum alloyMaterial information, keypadTPE-U	Material information for crimp connectors	
Material information, pins       Steel         Material information, jet nozzle       Wrought Aluminum alloy         Material information, keypad       TPE-U	·	Gold plated
Material information, jet nozzle     Wrought Aluminum alloy       Material information, keypad     TPE-U	Material information, pins	· · · · · · · · · · · · · · · · · · ·
Material information, keypad TPE-U		
	•	· · · · · · · · · · · · · · · · · · ·
materials information for fitting [Mickel-pidted Did55]	Materials information for fitting	Nickel-plated brass
	Material information, jet nozzle  Material information, keypad	Wrought Aluminum alloy TPE-U