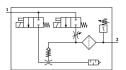
Vacuum generator OVEM-20-H-B-QO-CE-N-1P Part number: 8023699

FESTO





Data sheet

General operating condition

Feature	Value
Nominal width of Laval nozzle	2 mm
Width dimension	20 mm
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
DC operating voltage range	20.4 V 27.6 V

Inductive protective circuit Insulation voltage Insulation voltage Insulation voltage Insulation voltage Insulation voltage Idea current Issue make Issue	Feature	Value
Insulation voltage 50 V Idid current 80 mA Max. output current 100 mA Residual current 100 mA Residual current 0.1 mA Switching output PNP Voltage drop 41,5 V Coll characteristics 24 V DC: low-current phase 0,3 W, high-current phase 2,55 W Surge resistance 0.8 kV Overload protection Avoilable Contramination level 3 Certification RCM compliance mark CUL us - Usted Q(0) KC Characters KC EMC CE marking See declaration of conformity) As per EU EMC directive ULKCA marking See declaration of conformity) To UK instructions for EMC Operating medium Compressed air as per I50 8873-1:2010 [7:4-e] Information on operating and pilot media Operation with all Ubrication not possible Corresion resistance class (CRC) 2- Moderate corresion stress LABS (PWIS) conformity VDMA24364 zone III Temperature of medium 0 °C 50 °C Realtaive air humidity 5 - 8.8 % Noise level at nominal operating pressure 74 dB(A) Regree of protection PP5 Protection class III Rambient temperature 0 °C 50 °C Realtaive air humidity 3 5 °C Realtaive air humidity 3 °C Represe of protection 3 °C Represe of protection 3 °C Represe of protection 3 °C Representation 4 °C Repre	Duty cycle	100%
Idle current 480 mA Max. output current 500 mA 100 mA 100 mA 100 mA 100 mA 101 markeristics 102 markeristics 103 markeristics 104 markeristics 104 markeristics 104 markeristics 105 markeristics 106 markeristics 106 markeristics 107 markeristics 108 markeristics 108 markeristics 108 markeristics 109 markeristics 100 markeristic	Inductive protective circuit	Adapted to MZ, MY and ME coils
Max. output current	Insulation voltage	50 V
Residual current 0.1 mA Switching output PNP Voltage drop s1.5 V Coll characteristics 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance 0.8 kV Overload protection Available Contrainmation level 3 Certification RCM compliance mank cultural slied (01) KC characters KC EMC Certification RCM compliance mank cultural slied (01) KC characters KC EMC UL us - Usined (01) KC characters KC EMC UL us - Usined (01) KC peraiting (see declaration of conformity) To UK instructions for EMC 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 LABS (PWIS) conformity VDMA24364 zone III Temperature of medium 0 °C 50 °C Relative air humidity 5 - 85 % Noise level at nominal operating pressure 74 d8(A) Pergere of protection P65 Protection class III Ambient temperature 0 °C 50 °C Max. tightening torque 2.8 Nm with internal thread 2.5 Nm with internal thread 2.5 Nm with through-hole With accuracy in z % PS 0.0 % PP Pressure measuring range 1 - 1 bar o bar Accuracy in z % PS 0.0 % PP Propositive switching File plug Fil	Idle current	<80 mA
Switching output Voltage drop 2.1.5 V Coli characteristics 24 V OC-low-current phase 0.3 W, high-current phase 2.55 W Overload protection Available Control Contamination level 3 RCM compliance mark c. UL us - Listed (ol.) KC characters KC EMC CE marking (see declaration of conformity) As per EU EMC directive UUCAC marking (see declaration of conformity) To UK instructions for EMC 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 Carosion resistance class (CRC) 1 - Abdrate corrosion stress Carosion resistance class (CRC) 1 - Abdrate corrosion stress Carosion resistance production Volta/24364 zone III Compressed air numinal operating pressure 74 dB(A) Degree of protection PoS Pos Protection lass III Ambient temperature 0 °C 50 °C Max. lightening torque 2.5 Nm with internal thread 2.5 Nm with internal thread 3.8 Nm with internal thread 3.8 Nm with internal thread Accuracy in a % FS 0.5 %FS 0.5 %FS 1.5 Nm with internal thread Accuracy in a % FS 0.5 %FS 1.5 Nm with internal thread Accuracy in a % FS 0.2	Max. output current	100 mA
Voltage drop Coli characteristics 24 V DC: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance Overload protection Contamination level 3 RCM compliance mark	Residual current	0.1 mA
Voltage drop coli characteristics 24 V D C: low-current phase 0.3 W, high-current phase 2.55 W Surge resistance Overload protection Available Contamination level 3 RCM compliance mark cut us - Listed (OL) KC characters KC EMC CE marking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) Operating medium Compressed air as per ISO 8573-1:2010 [74:44] Information on operating and pilot media Operation with oil lubrication not possible Corrosion resistance class (CRC) 7 - Moderate corrosion stress ASS (PWIS) Conformity VDMA24364 core III Temperature of medium 0 °C 50 °C Relative air humidity 5 - 55 % Notice level at nomial operating pressure 7 a dB(A) Degree of protection 1P65 Protection class III Max. lightening torque 2.5 Nm with through-hole Product weight 390 g Pressure measuring range 1 - bar o bar Accuracy in ≈ WFS 0.5 WFS 1.5 pin mjust switching value FS 0.0 S WFS 1.5 pin mjust switching logic Prop frounting Type of mounting Type of mounting With increasity logic Pressure measuring logic Pressure material Pressure material Nore Pressure in a per and increased with residual pressure Pressure material Product weight Reproduction of the per increased with residual pressure 1 bar o bar Accuracy in ≈ WFS 0.5 WFS 1.5 pin Mil 1.7 plug Type of mounting With increasity logic Pressure measuring logic Pressure measur	Switching output	PNP
Surge resistance Overload protection Available Contamination level 3 Certification RCM compliance mark cULus - Listed (OU) RC characters RC Emarking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) To LIK instructions for EMC Operating medium Compressed air as per 150 8873-1:2010 [74:44] Information on operating and pilot media Operation resistance class (CRC) 2 - Moderate corrusion stress LABS (PMS) conformity VDMA2:364-2 anne III Temperature of medium 0 °C 50 °C Relative air humidity 5 - 88 % Noise level at nominal operating pressure 74 d8(V) Degree of protection Protection class III Ambient temperature 0 °C 50 °C Max. rightening torque 0.8 Nm with internal thread 2.5 Nm with through-hole Product weight 39 0 g Pressure measuring range 1-1 bar 0 bar Accuracy in ±% F5 0.5 %FS Reproducibility, switching value FS 0.6 % Reproducibility, switching value FS 0.0 % by Series Reproducibility, switching value FS 0.6 % Reproducibility, switching value FS 0.7 % PP Pueumatic connection With internal thread 1 by Series Reproducibility, switching value FS 0.5 %FS 1 by Series Reproducibility, switching value FS 0.6 % Reproducibility, switching value FS 0.6 % Reproducibility switching logic PPP Pueumatic connection With internal thread Reproducibility switching PP-Pueumatic connection Reproducibility switching Reproducibility switching PP-Pueumatic connection Reproducibility switching Reproducib	·	≤1.5 V
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Certification RCM compliance mark cull us Listed (OL) KC characters KC EMC CE marking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC 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 LABS (PWIS) conformity VDMA24364 zone III Temperature of medium 0.0*C50.0*C Relative air humidity 585.% Noise level at nominal operating pressure 74. dB(A) Degree of protection Posere of protection Protection class III Ambient temperature 0.0*C50.0*C Max. tightening torque 0.8. Nn with internal thread 2.5. Nn with internal thread 2.5. Nn with through-hole Product weight 3300 8 Pressure measuring range 1. bar 0 bar Accuracy in 2. %FS 0.02 bar Reproductivibility, switching value FS 0.0. 6% Hysteresis 0.02 bar Reproductivibility, switching value FS 0.0. 6% Input switching logic Electrical connection S-pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 QS-8 Pneumatic connection 1 Pneumatic connection 3 Pneumatic connection 1 Pneumatic connection 2 Pneumatic connection 3 Pneumatic connection	Overload protection	Available
C U Us - Listed (QL) KC characters KC Emarking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC Operating medium Compressed air as per ISO 8873-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication not possible Corrosion resistance class (CRC) 2 - Moderate corrosion stress LABS (PWIS) conformity VDMA24364 zone III Temperature of medium 0 °C 50 °C Relative air humidity 5 - 85 % Noise level at nominal operating pressure 7 d. db(A) Degree of protection P665 Protection class III Ambient temperature 0 °C 50 °C Ax. tightening torque 0.8 Nm with internal thread 2.5 Nm with through-hole Product weight Pressure measuring range -1 bar 0 bar Accuracy in ±% TS 0,02 bar Reproductibility, switching value FS 0,6 % Input switching logic PPIC positive switching) Electrical connection Preumatic connection 1 QS -8 Preumatic connection 1 QS -8 Preumatic connection 3 Preumatic connection 1 QS -8 Preumatic connection 3 Preumatic connection 3 Preumatic connection 4 QS -8 Note on materials RoMS-compliant Female nozzle material POM Compressed air filter material Material of filter housing Housing material Die-cast aluminum	Contamination level	3
KC characters	Certification	RCM compliance mark
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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 ALBS (PWIS) conformity VDMA2/364 zone III Temperature of medium O °C 50 °C Relative air humidity 5 - 85 % Noise level at nominal operating pressure 74 d dB(A) Degree of protection IP65 Protection class III Ambient temperature O °C 50 °C Max. tightening torque O.8 Nm with internal thread 2.5 Nm with through-hole Product weight 390 g Pressure measuring range -1 bar 0 bar Accuracy in ± % FS O.5 % FS Hysteresis O.02 bar Reproducibility, switching value FS Input switching logic PNP (positive switching) Electrical connection M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 QS-8 Pneumatic connection 3 Pneumatic connection 3 Pneumatic connection 3 Pneumatic muffler integrated Vacuum connection QS-8 Sintered steel Material of filter housing PA-reinforced Housing material Die-cast aluminum		ļ
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Temperature of medium Relative air humidity S - 85 % Noise level at nominal operating pressure 74 dB(A) Degree of protection Protection class III Ambient temperature 0 °C 50 °C Max. tightening torque 2.5 Nm with internal thread 2.5 Nm with through-hole Product weight 390 g Pressure measuring range -1 bar 0 bar Accuracy in ± % F5 0.5 % F5 Hysteresis 0.02 bar Reproducibility, switching value F5 0.6 % Input switching logic PNP (positive switching) Electrical connection M12x1 Plug Type of mounting With through-hole With through-hole With accessories Pneumatic connection 1 QS-8 Pneumatic connection 3 Pneumatic connection 0 QS-8 Note on materials RoHS-compilant Seals material POM Compressed air filter material PA-reinforced Make in the middle in the middle in the part of the par	Corrosion resistance class (CRC)	2 - Moderate corrosion stress
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Noise level at nominal operating pressure 74 dB(A) Degree of protection 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 390 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 PMP (positive switching) Electrical connection 5-pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 Q5-8 Pneumatic connection 3 Pneumatic connection 3 Pneumatic connection QS-8 Note on materials RoBS-compliant Seals material POM Compressed air filter material PA-reinforced Housing material Die-cast aluminum		0 °C 50 °C
Degree of protection IP65 Protection class III Ambient temperature 0°C 50°C Max. tightening torque 2.5 Nm with internal thread 2.5 Nm with through-hole Product weight 390 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 PMP (positive switching) Electrical connection 5-pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 Q5-8 Pneumatic connection Q5-8 Note on materials RoH5-compliant Seals material NBR Female nozzle material POM Compressed air filter material Fabric PA S-intered steel Material of filter housing PA-reinforced Housing material Die-cast aluminum	Relative air humidity	5 - 85 %
Protection class Ambient temperature O °C 50 °C Max. tightening torque 0.8 Nm with internal thread 2.5 Nm with through-hole Product weight Pressure measuring range 1-1 bar 0 bar Accuracy in ± % FS 0.5 %FS Hysteresis 0.02 bar Reproducibility, switching value FS input switching logic PMP (positive switching) Electrical connection 5-pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 3 Pneumatic connection 3 Pneumatic connection QS-8 Pneumatic connection QS-8 Note on materials RoHS-compliant Seals material POM Compressed air filter material Fabric PA Sintered steel Material of filter housing Housing material Die-cast aluminum	Noise level at nominal operating pressure	74 dB(A)
Ambient temperature 0 °C 50 °C Max. tightening torque 2.5 Nm with internal thread 2.5 Nm with through-hole Product weight 390 g Pressure measuring range -1 bar 0 bar Accuracy in ± % FS 0.5 %F5 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 QS-8 Pneumatic connection QS-8 Note on materials RoHS-compliant Remale nozzle material POM Compressed air filter material Fabric PA Sintered steel Material of filter housing PA-reinforced Housing material Die-cast aluminum	Degree of protection	IP65
Max. tightening torque 0.8 Nm with internal thread 2.5 Nm with through-hole Product weight 390 g Pressure measuring range -1 bar 0 bar Accuracy in ± % FS 0.5 %FS No2 bar Reproducibility, switching value FS 0.6 % Input switching logic PPN (positive switching) Electrical connection 5-pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 QS-8 Pneumatic connection 3 Pneumatic connection QS-8 Note on materials RehS-compliant Seals material NBR Female nozzle material POM Compressed air filter material Material of filter housing Housing material Die-cast aluminum	Protection class	III
2.5 Nm with through-hole Product weight 390 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 S-pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 3 Pneumatic connection 3 Pneumatic connection QS-8 Pneumatic connection QS-8 Note on materials RoHS-compliant Seals material POM Compressed air filter material PA-reinforced Housing material Die-cast aluminum	Ambient temperature	0 °C 50 °C
Pressure measuring range 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 QS-8 Pneumatic connection 3 Pneumatic muffler integrated Vacuum connection QS-8 Note on materials ROHS-compliant Seals material POM Compressed air filter material PA-reinforced Housing material Die-cast aluminum	Max. tightening torque	
Accuracy in ± % FS Hysteresis 0.02 bar Reproducibility, switching value FS 0.6 % Input switching logic PNP (positive switching) Electrical connection S-pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 QS-8 Pneumatic connection 3 Pneumatic connection 3 Pneumatic aconnection QS-8 Note on materials RoHS-compliant Seals material NBR Female nozzle material POM Compressed air filter material Fabric PA Sintered steel Material of filter housing Housing material Die-cast aluminum	Product weight	390 g
Hysteresis Reproducibility, switching value FS O.6 % Input switching logic Electrical connection Figure of mounting With through-hole With internal thread With accessories Pneumatic connection 1 QS-8 Pneumatic connection 3 Pneumatic connection QS-8 Note on materials Seals material NBR Female nozzle material Compressed air filter material Material of filter housing Housing material Die-cast aluminum O.6 % PNP (positive switching) PNP (positive switching) PNP (positive switching) Papro (positive switching) Housing material Sepin M12x1 Plug With through-hole With internal thread With accessories Pheumatic muffler integrated With accessories Pneumatic muffler integrated NBR PoM Sintered steel Housing material Die-cast aluminum	Pressure measuring range	-1 bar 0 bar
Reproducibility, switching value FS Input switching logic Electrical connection Filectrical connection S-pin M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 QS-8 Pneumatic connection 3 Pneumatic connection QS-8 Note on materials Seals material Pemale nozzle material POM Compressed air filter material Pom Compressed air filter material Material of filter housing PA-reinforced Housing material Die-cast aluminum	Accuracy in ± % FS	0.5 %FS
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M12x1 Plug Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 QS-8 Pneumatic connection 3 Pneumatic muffler integrated Vacuum connection QS-8 Note on materials RoHS-compliant Seals material NBR Female nozzle material POM Compressed air filter material Fabric PA Sintered steel Material of filter housing Housing material Die-cast aluminum	Input switching logic	PNP (positive switching)
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Type of mounting With through-hole With internal thread With accessories Pneumatic connection 1 Pneumatic connection 3 Pneumatic muffler integrated Vacuum connection QS-8 Note on materials RoHS-compliant Seals material NBR Female nozzle material POM Compressed air filter material Material of filter housing Housing material With through-hole With through-hole With internal thread With accessories QS-8 RoHS-compliant POM Fabric PA Sintered steel PA-reinforced Die-cast aluminum		
With internal thread With accessories Pneumatic connection 1 QS-8 Pneumatic connection 3 Pneumatic muffler integrated Vacuum connection QS-8 Note on materials RoHS-compliant Seals material NBR Female nozzle material POM Compressed air filter material Fabric PA Sintered steel Material of filter housing Housing material Die-cast aluminum	Type of mounting	
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Vacuum connection QS-8 Note on materials 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	Pneumatic connection 1	QS-8
Note on materials Seals material NBR Female nozzle material Compressed air filter material POM Compressed air filter material Fabric PA Sintered steel Material of filter housing Housing material Die-cast aluminum	Pneumatic connection 3	Pneumatic muffler integrated
Seals material Female nozzle material Compressed air filter material Fabric PA Sintered steel Material of filter housing Housing material PoM Fabric PA Sintered steel Die-cast aluminum	Vacuum connection	QS-8
Female nozzle material POM Compressed air filter material Fabric PA Sintered steel Material of filter housing PA-reinforced Housing material Die-cast aluminum	Note on materials	RoHS-compliant
Compressed air filter material Fabric PA Sintered steel Material of filter housing PA-reinforced Housing material Die-cast aluminum	Seals material	NBR
PA Sintered steel Material of filter housing PA-reinforced Housing material Die-cast aluminum	Female nozzle material	POM
Sintered steel Material of filter housing PA-reinforced Housing material Die-cast aluminum	Compressed air filter material	
Material of filter housing PA-reinforced Housing material Die-cast aluminum		
Housing material Die-cast aluminum	Material of filter housing	
		PA-reinforced
Hollow bolt material Wrought aluminum alloy	Hollow bolt material	Wrought aluminum alloy
Material of adjusting screw Steel	Material of adjusting screw	Steel

Feature	Value
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