

Vacuum Generator OVEM-14-H-B-QO-CE-N-1P - Festo 540024

Item no. FES-540024

Manufacturer Festo

EAN 4052568178260

Festo vacuum component for safe gripping, holding and handling in automation.

TECHNICAL DATA

Betriebsdruck max [bar]	8.000000
Corrosion resistance class CRC	2 - moderate corrosion stress
Design	Modular
Dichtmaterial	NBR
Filterfeinheit [µm]	40
Funktion	closed
HS-Code	84141089
Material	Aluminium
Medium	Compressed air
Mounting position	arbitrary
Norm	IEC 61131-2
Operating conditions	ISO 8573-1
Pneumatic connection	QS-8
Protection rating	IP65
Series	OVEM
Temperature (max.)	50
Weight	0.47 kg



STANDARDS & COMPLIANCE

ISO 8573-1:2010

DESCRIPTION

Festo vacuum component for safe gripping, holding and handling in automation. The key technical data of this genuine Festo article are listed below.

Nominal width laval nozzle [mm]	1,40
Pitch dimension [mm]	20
Construction type silencer type	open
installation position	arbitrary
Ejector characteristic	High vacuum Standard
Filter porosity [µm]	40
Hand assist actuation	tentative

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Integrated function	check valves Silencer open vacuum switch Electrical switch on valve Ejection impulse electrical flow control valve (both directions) filter
Construction set up	Modular
Short circuit resistance	yes
Measured parameter	Relative pressure
Measurement principle	Piezoresistive
Switching element function	NO contact
Switch function	Threshold comparator Threshold value with fixed hysteresis
Valve function	closed
Reverse polarity protection	for all electrical connections
Control input to standard	IEC 61131-2
Display type	LED
Setting options	Teach-in
Switching position display	LED
Switching status indicator	Visual
Settings range threshold value [bar]	-1
Operating pressure [bar]	2 to 8
Operating pressure for max. vacuum [bar]	3,6
max. vacuum [%]	93
Nominal operating pressure [bar]	6
Max. suction volume current against atmosphere [l/min]	50,5
Venting time for nominal operating pressure [s]	0,2
Operating voltage range DC [V]	20.4 to 27.6
Power-on time	100 %
Inductive protection circuit	adjusted to MZ, MY, ME coils
Insulation voltage [V]	50
Empty run current [mA]	< 80 mA
Max. output current [mA]	100
Residual current [mA]	0,1
Control output	PNP
Voltage drop [V]	<= 1,5 V
Coil characteristic value	24 V DC: Low current phase 0.3 W, high current phase 2,55 W
Surge voltage strength [kV]	0,8

Overload resistant	Available
Degree of contamination	3
Permission	c UL us - Listed (OL) RCM Mark
KC-mark	KC-EMV
CE certificate (see declaration of conformity)	to EU EMC directive
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Information about operating and control medium	Oiled operation not possible
Corrosion resistant class KBK	2 - moderate corrosion stress
Medium temperature [°C]	0 to 50
Relative humidity	5 - 85 %
Noise level for nominal operating pressure [dB(A)]	77
Protection category	IP65
Protection class	III
ambient temperature [°C]	0 to 50
Max. tightening torque	0.8 Nm with female thread 2.5 Nm with throughway bore
Product weight [g]	371
Pressure measurement range [bar]	-1
Accuracy FS [%FS]	0,5
Reproducibility shifting time FS [%]	0,6
Switching logic inputs	PNP (Positive switching)
Electrical connection	M12x1 5 pin Plug
Fastening type	With throughway bores With female thread With Accessories
Pneumatic connection 1	QS-8
Pneumatic connection 3	Silencer integrated
vacuum connection	QS-8
Material information	LABS containing materials included RoHs compliant
Seals material	NBR
Capture nozzle material	POM
Filter material	PA Web Sintered steel
Filter housing material	PA reinforced
Housing material	Aluminium die casting PA reinforced
Regulation screw material	Steel
Silencer material	Aluminium wrought alloy PU foam

Screws material	Steel
Plug housing material	brass, nickel-plated
Plug contacts material	brass, Gold plated
Pins material	Steel
Jet nozzle material	Aluminium wrought alloy
Button field material	PA reinforced
Screw connection material	brass, nickel-plated
Hysteresis [bar]	0,02