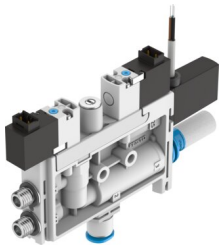
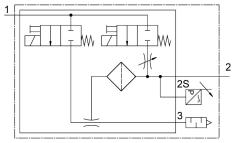
Vacuum generator
OVEL-7-H-15-P-VQ4-UC-C-A-V1PNLK-H3

Part number: 8141087





Data sheet

Feature	Value
Nominal width of Laval nozzle	0.7 mm
Width dimension	15 mm
Muffler construction type	Closed
Mounting position	Any
Ejector characteristics	High vacuum Standard
Grade of filtration	40 µm
Manual override	Non-detenting
Integrated function	Ejector pulse, electric Flow control valve Pressure sensor Electric on-off valve Filter Muffler, closed
Structural design	T-shape
Switching element function	N/C contact/N/O contact, switchable
Switching function	Freely programmable
Valve function	Closed
Method of measurement	Piezoresistive pressure sensor with display
Display type	LED indicator 2-digit
Setting options	IO-Link® Teach-in Via display and keys
Operating pressure for max. suction rate	0.4 MPa 4 bar 58 psi
Operating pressure	0.2 MPa...0.7 MPa 2 bar...7 bar 29 psi...101.5 psi
Operating pressure for max. vacuum	0.48 MPa 4.8 bar 69.6 psi
Max. vacuum	92 %
Nominal operating pressure	0.4 MPa 4 bar

Feature	Value
	58 psi
Max. suction rate with respect to atmosphere	17 l/min
Air supply time at nominal operating pressure with ejector pulse	1.2 s
DC operating voltage range	21.6 V...26.4 V
Duty cycle	100%
Switching output	PNP/NPN switchable
Coil characteristics	24 V DC: 1.0 W
Certification	c UL us - Listed (OL)
KC characters	KC-EMV
CE 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-B1/B2-L
Temperature of medium	0 °C...50 °C
Noise level at nominal operating pressure	56 dB(A)
Degree of protection	IP40
Ambient temperature	0 °C...50 °C
Product weight	93 g
DC sensor operating voltage range	18 V...30 V
Pressure measuring range	-0.1 MPa...0 MPa -1 bar...0 bar -14.5 psi...0 psi
Electrical connection input, function	Ejector pulse Vacuum generation
Electrical connection input, connection type	2x plug
Electrical input connection, connection technology	Connection pattern H
Electrical connection, input, number of pins/wires	2
Electrical input connection, mounting type	Snap-locking
Electrical connection output, function	Sensor
Electrical connection output, connection type	Cable
Electrical connection output, connection technology	Open end
Electrical output connection, number of pins/wires	3
Cable characteristic	Suitable for energy chains
Cable diameter	2.9 mm
Cable diameter tolerance	± 0.1 mm
Cable length	2.5 m
Nominal conductor cross section	0.14 mm²
Type of mounting	On terminal strip
Pneumatic connection 1	Common connection
Pneumatic connection 3	Muffler, closed
Vacuum connection	For pneumatic tubing outside diameter 4 mm
Color cable sheath	Gray
Material of connecting thread	POM
Note on materials	RoHS compliant
Seals material	NBR
Female nozzle material	POM
Compressed air filter material	POM
Housing material	PA-reinforced
Hollow bolt material	Wrought aluminum alloy
Material of cable sheath	PVC
Material of adjusting screw	Steel
Muffler material	PA-reinforced

Feature	Value
	Protective grounding
Material of screws	Steel
Material of jet nozzle	Wrought aluminum alloy