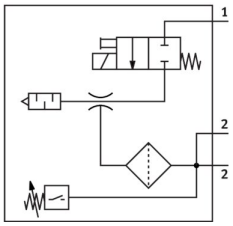
Vacuum generator
VADM-45-P

Part number: 162512



General operating condition

Data sheet

Feature	Value
Nominal size, Laval nozzle	0.45 mm
Grid dimension	10 mm
Silencer design	Closed
Mounting position	optional
Ejector characteristic	High vacuum
Grade of filtration	≤40 µm
Manual override	Non-detenting
Integrated function	Electric on-off valve Filter Vacuum switch
Measured variable	Relative pressure
Measuring principle	Piezoresistive
Switching element function	N/O contact
Switching function	Threshold value comparator
Symbol	00991304
Valve function	Closed
Reverse polarity protection	For all electrical connections
Display type	LED
Hysteresis setting range	-0.05 MPa ... -0.005 MPa
Setting range hysteresis	-0.5 bar ... -0.05 bar
Setting range hysteresis	-7.25 psi ... -0.725 psi
Setting options	Potentiometer
Switching status indication	Optical
Setting range threshold value	-0.09 MPa ... 0 MPa
Setting range threshold value	-0.9 bar ... 0 bar
Setting range threshold value	-13.05 psi ... 0 psi
Operating pressure	0.15 MPa ... 0.8 MPa
Operating pressure	1.5 bar ... 8 bar
Operating pressure	21.75 psi ... 116 psi
Max. vacuum	85 %
Nominal operating pressure	0.6 MPa
Nominal operating pressure	6 bar
Nominal operating pressure	87 psi

Feature	Value
Air supply time at nominal operating pressure	5.9 s
Operational voltage range DC	21.6 V ... 26.4 V
Duty cycle	100%
Switching output	PNP
Approval	RCM trademark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	To EU EMC Directive
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Media temperature	0 °C ... 60 °C
Degree of protection	IP65
Ambient temperature	0 °C ... 50 °C
Product weight	65 g
Pressure measuring range	0 MPa ... 0.1 MPa
Pressure measuring range	0 bar ... 1 bar
Pressure measuring range	0 psi ... 14.5 psi
Electrical connection	M8x1 Plugs
Type of mounting	With through-hole Via female thread
Pneumatic connection, port 1	M5
Pneumatic connection, port 3	Integrated silencer
Vacuum connection	M5
Note on materials	RoHS-compliant
Material seals	NBR
Material receiver nozzle	Brass, nickel-plated
Material filter	PA
Material filter housing	PC
Material housing	Wrought aluminium alloy
Material silencer	PE POM
Material piston	POM
Material transmitter nozzle	Nickel-plated brass