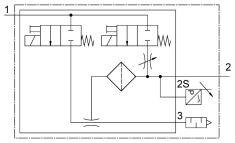
Vacuum generator
OVEH-7-H-Q6-G18-UA-C-PNLK-R12-HRC

Part number: 8205191





Data sheet

Feature	Value
Nominal size, Laval nozzle	0.7 mm
Silencer design	Open
Mounting position	Any
Ejector characteristic	High vacuum Standard
Grade of filtration	40 µm
Manual override	None
Integrated function	Ejector pulse, electrical Pressure sensor On/off valve, electric Filter Silencer, closed
Design	Human-robot collaboration (HRC)
Short circuit current rating	Yes
Valve function	Closed
Reverse polarity protection	Yes
Display type	LED indicator 2 digits
Operating pressure for max. suction flow 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	0.45 MPa 4.5 bar 65.25 psi
Max. vacuum	92 %
Nominal operating pressure	0.4 MPa 4 bar 58 psi
Max. suction flow rate against atmosphere	15 l/min
Air supply time at nominal operating pressure with ejector pulse	1.2 s
Operational voltage range DC	21.6 V...26.4 V
Duty cycle	100%

Feature	Value
Characteristic coil data	24 V DC: 1.0 W
CE mark (see declaration of conformity)	To EU EMC Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Media temperature	0 °C...50 °C
Relative air humidity	Max. 93% at 40 °C
Sound pressure level at nominal operating pressure	48 dB(A)
Sound level at nominal operating pressure	60 dB(A)
Degree of protection	IP40
Ambient temperature	0 °C...50 °C
Product weight	415 g
Pressure measuring range	-0.1 MPa...0 MPa -1 bar...0 bar -14.5 psi...0 psi
Protocol	IO-Link®
IO-Link, Protocol version	Device V 1.1
IO-Link, Profile	Smart sensor profile
IO-Link, Function classes	Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel
IO-Link, communication mode	COM2 (38.4 kBaud)
IO-Link, SIO-Mode support	Yes
IO-Link, Port class	A
IO-Link, Process data length OUT	0 bytes
IO-Link, Process data length IN	2 bytes
IO-Link, Process data content IN	14 bit PDV (pressure measurement value) 2 bit BDC (pressure monitoring)
IO-Link, Min. cycle time	3 ms
IO-Link, Data storage required	0.5 Byte
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, cable outlet	Angled
Electrical connection 1, design	Round
Electrical connection input, function	Ejector pulse Power supply Vacuum generation
Electrical connection output, function	Digital output
Cable characteristic	Suitable for robot applications
Cable diameter tolerance	± 1 mm
Cable length	0.3 m
Type of mounting	With mounting kit To ISO 9409
Pneumatic connection, port 1	For tubing outside diameter of 6 mm
Pneumatic connection, port 3	Open silencer
Vacuum connection	G1/8
Note on vacuum connection	Additional accessories possible
Material connecting thread	Anodised wrought aluminium alloy
Note on materials	RoHS compliant
Material seals	NBR

Feature	Value
Material receiver nozzle	POM
Material filter	POM
Material housing	Reinforced PA
Material hollow bolt	Wrought aluminium alloy
Material adjusting screw	Steel
Material silencer	Reinforced PA Packaging unit
Material screws	Steel
Material transmitter nozzle	Wrought aluminium alloy