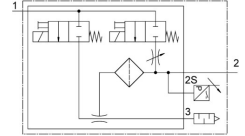
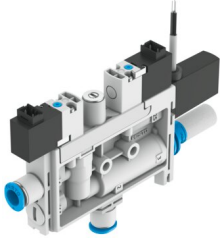


# Vacuum generator OVEL-10-H-15-PQ-VQ6-UA-C-A-V1PNLK-H3

FESTO

Part number: 8049054



[PDF](#) General operating condition

## Data sheet

| Feature                                  | Value   |
|--|---|
| Nominal width of Laval nozzle            | 0.95 mm   |
| Width dimension                          | 15 mm   |
| Muffler construction type                | Open  |
| Mounting position                        | Any   |
| Ejector characteristics                  | High vacuum<br>Standard   |
| Grade of filtration                      | 40 µm   |
| Manual override                          | Non-detenting   |
| Integrated function                      | Electric ejector pulse<br>Flow control<br>Pressure sensor<br>On/off valve, electric<br>Filter<br>Pneumatic muffler open |
| Structural design                        | T-shape   |
| Switching element function               | N/C contact/N/O contact switchable  |
| Switching function                       | Freely programmable   |
| Symbol                                   | 00995804  |
| Valve function                           | Closed  |
| Method of measurement                    | Piezoresistive pressure sensor with display   |
| Display type                             | LED display<br>2-digit  |
| Setting options                          | IO-Link®<br>Teach-in<br>Via display and pushbuttons   |
| Operating pressure for max. suction rate | 0.4 MPa   |
| Operating pressure for max. suction rate | 4 bar   |
| Operating pressure for max. suction rate | 58 psi  |
| Operating pressure                       | 0.2 MPa ... 0.7 MPa   |
| Operating pressure                       | 2 bar ... 7 bar   |
| Operating pressure                       | 29 psi ... 101.5 psi  |
| Operating pressure for max. vacuum       | 0.38 MPa  |
| Operating pressure for max. vacuum       | 3.8 bar   |
| Operating pressure for max. vacuum       | 55.1 psi  |
| Max. vacuum                              | 92 %  |
| Nominal operating pressure               | 0.4 MPa   |
| Nominal operating pressure               | 4 bar   |
| Nominal operating pressure               | 58 psi  |

| Feature  | Value   |
|--|---|
| Max. suction rate with respect to atmosphere                     | 21 l/min                                      |
| Air supply time at nominal operating pressure with ejector pulse | 1 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 EMC  |
| 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                        | 68 dB(A)                                      |
| Degree of protection   | IP40  |
| Ambient temperature  | 0 °C ... 50 °C                                |
| Product weight   | 92 g  |
| DC sensor operating voltage range                                | 18 V ... 30 V                                 |
| Pressure measuring range   | -0.1 MPa ... 0 MPa                            |
| Pressure measuring range   | -1 bar ... 0 bar                              |
| Pressure measuring range   | -14.5 psi ... 0 psi                           |
| Electrical connection input, function                            | Ejector pulse<br>Vacuum generator             |
| Electrical connection input, connection type                     | 2x plugs                                      |
| Electrical input connection, connection technology               | Connection diagram H                          |
| Electrical connection, input, number of pins/wires               | 2   |
| Electrical connection for input, connection pattern              | 00995626                                      |
| 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 mm <sup>2</sup>                          |
| Type of mounting   | With through-hole                             |
| Pneumatic connection 1   | For pneumatic tubing outside diameter 6 mm    |
| Pneumatic connection 3   | Pneumatic muffler open                        |
| Vacuum connection  | For pneumatic tubing outside diameter 6 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                                 |
| Material of cable sheath   | PVC   |
| Material of adjusting screw                                      | Steel   |

| <b>Feature</b>         | <b>Value</b>           |
|------------------------|------------------------|
| Muffler material       | PA-reinforced<br>PE    |
| Material of screws     | Steel                  |
| Material of jet nozzle | Wrought aluminum alloy |