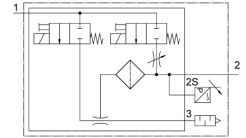
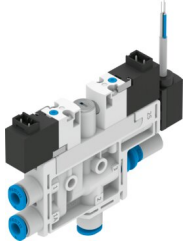


# Vacuum generator OVEL-5-H-10-PQ-VQ4-UA-C-A-V1V-H3

Part number: 8049049

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                                          | Value                                                                                                              |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Nominal size, Laval nozzle                                       | 0.45 mm                                                                                                            |
| Grid dimension                                                   | 10 mm                                                                                                              |
| Silencer design                                                  | Open                                                                                                               |
| Mounting position                                                | optional                                                                                                           |
| Ejector characteristic                                           | High vacuum<br>Standard                                                                                            |
| Grade of filtration                                              | 40 µm                                                                                                              |
| Manual override                                                  | Non-detenting                                                                                                      |
| Integrated function                                              | Electric ejector pulse<br>Flow control<br>Pressure transmitter<br>Electric on-off valve<br>Filter<br>Open silencer |
| Design                                                           | T-shape                                                                                                            |
| Symbol                                                           | 00995804                                                                                                           |
| Valve function                                                   | Closed                                                                                                             |
| Measurement method                                               | Piezoresistive pressure sensor                                                                                     |
| Operating pressure for max. suction flow rate                    | 0.3 MPa                                                                                                            |
| Operating pressure for max. suction flow rate                    | 3 bar                                                                                                              |
| Operating pressure for max. suction flow rate                    | 43.5 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                               | 0.42 MPa                                                                                                           |
| Operating pressure for max. vacuum                               | 4.2 bar                                                                                                            |
| Operating pressure for max. vacuum                               | 60.9 psi                                                                                                           |
| Max. vacuum                                                      | 89 %                                                                                                               |
| Nominal operating pressure                                       | 0.4 MPa                                                                                                            |
| Nominal operating pressure                                       | 4 bar                                                                                                              |
| Nominal operating pressure                                       | 58 psi                                                                                                             |
| Max. suction flow rate against atmosphere                        | 4 l/min                                                                                                            |
| Air supply time at nominal operating pressure with ejector pulse | 2 s                                                                                                                |
| Analogue output                                                  | 0 - 10 V                                                                                                           |
| Operational voltage range DC                                     | 21.6 V ... 26.4 V                                                                                                  |
| Duty cycle                                                       | 100%                                                                                                               |
| Characteristic coil data                                         | 24 V DC: 1.0 W                                                                                                     |

| Feature                                                   | Value                                     |
|-----------------------------------------------------------|-------------------------------------------|
| Approval                                                  | c UL us listed (OL)                       |
| KC mark                                                   | KC-EMV                                    |
| 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         |
| Corrosion resistance class CRC                            | 2 - Moderate corrosion stress             |
| LABS (PWIS) conformity                                    | VDMA24364-B1/B2-L                         |
| Media temperature                                         | 0 °C ... 50 °C                            |
| Sound pressure level at nominal operating pressure        | 64 dB(A)                                  |
| Degree of protection                                      | IP40                                      |
| Ambient temperature                                       | 0 °C ... 50 °C                            |
| Product weight                                            | 74 g                                      |
| Operating voltage range, DC sensor                        | 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 generation        |
| Electrical connection input, connection type              | 2x plug connector                         |
| Electrical connection input, connector system             | Connection pattern H                      |
| Electrical connection input, number of connections/cores  | 2                                         |
| Electrical connection input, connection pattern           | 00995626                                  |
| Input electrical connection, mounting type                | Snap-locking                              |
| Electrical connection output, function                    | Sensor                                    |
| Electrical connection output, connection type             | Cable                                     |
| Electrical connection output, connector system            | Open end                                  |
| Electrical connection output, number of connections/cores | 3                                         |
| Cable characteristic                                      | Suitable for energy chains                |
| Cable diameter                                            | 2.9 mm                                    |
| Cable diameter tolerance                                  | ± 0.1 mm                                  |
| Cable length                                              | 2.5 m                                     |
| Nominal cross section conductor                           | 0.14 mm <sup>2</sup>                      |
| Type of mounting                                          | With through-hole                         |
| Pneumatic connection, port 1                              | For tubing outer diameter of 4 mm         |
| Pneumatic connection, port 3                              | Open silencer                             |
| Vacuum connection                                         | For tubing outside diameter of 4 mm       |
| Cable sheath colour                                       | Grey                                      |
| Material connecting thread                                | POM                                       |
| Note on materials                                         | RoHS-compliant                            |
| Material seals                                            | NBR                                       |
| Material receiver nozzle                                  | POM                                       |
| Material filter                                           | POM                                       |
| Material housing                                          | PA-reinforced                             |
| Material cable sheath                                     | PVC                                       |
| Material adjusting screw                                  | Steel                                     |
| Material silencer                                         | PA-reinforced<br>PE                       |
| Material screws                                           | Steel                                     |
| Material transmitter nozzle                               | Wrought aluminium alloy                   |