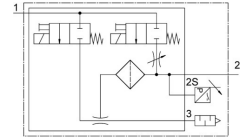
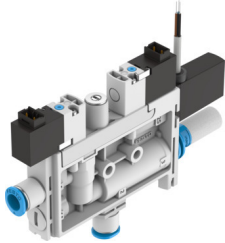


# Vacuum generator OVEL-7-H-15-PQ-VQ4-UC-C-A-V1PNLK-H3

Part number: 8141092

**FESTO**



## Data sheet

[General operating condition](#)

| Feature                                       | Value                                                                                                           |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Nominal size, Laval nozzle                    | 0.7 mm                                                                                                          |
| Grid dimension                                | 15 mm                                                                                                           |
| Silencer design                               | Closed                                                                                                          |
| 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 sensor<br>Electric on-off valve<br>Filter<br>Silencer closed |
| Design                                        | T-shape                                                                                                         |
| Switching element function                    | N/C or N/O contact, switchable                                                                                  |
| Switching function                            | Freely programmable                                                                                             |
| Symbol                                        | 00995804                                                                                                        |
| Valve function                                | Closed                                                                                                          |
| Measurement method                            | Piezoresistive pressure sensor with display                                                                     |
| Display type                                  | LED indicator<br>2-digit                                                                                        |
| Setting options                               | IO-Link®<br>Teach-in<br>Via display and keys                                                                    |
| Operating pressure for max. suction flow rate | 0.4 MPa                                                                                                         |
| Operating pressure for max. suction flow rate | 4 bar                                                                                                           |
| Operating pressure for max. suction flow 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            | 0.48 MPa                                                                                                        |
| Operating pressure for max. vacuum            | 4.8 bar                                                                                                         |
| Operating pressure for max. vacuum            | 69.6 psi                                                                                                        |
| Max. vacuum                                   | 92 %                                                                                                            |
| Nominal operating pressure                    | 0.4 MPa                                                                                                         |
| Nominal operating pressure                    | 4 bar                                                                                                           |
| Nominal operating pressure                    | 58 psi                                                                                                          |

| Feature                                                          | Value                                     |
|------------------------------------------------------------------|-------------------------------------------|
| Max. suction flow rate against atmosphere                        | 17 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%                                      |
| Switching output                                                 | PNP/NPN, switchable                       |
| Characteristic coil data                                         | 24 V DC: 1.0 W                            |
| 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               | 56 dB(A)                                  |
| Degree of protection                                             | IP40                                      |
| Ambient temperature                                              | 0 °C ... 50 °C                            |
| Product weight                                                   | 91 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                                     | Silencer closed                           |
| 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                                     |

| Feature                     | Value                   |
|-----------------------------|-------------------------|
| Material silencer           | PA-reinforced<br>PE     |
| Material screws             | Steel                   |
| Material transmitter nozzle | Wrought aluminium alloy |