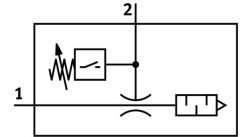
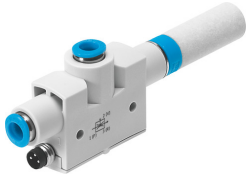


# Vacuum generator VN-07-H-T4-PQ2-VQ2-02-P

Part number: 536801

**FESTO**



 General operating condition

## Data sheet

| Feature                                       | Value                                                                  |
|-----------------------------------------------|------------------------------------------------------------------------|
| Nominal size, Laval nozzle                    | 0.7 mm                                                                 |
| Grid dimension                                | 16 mm                                                                  |
| Silencer design                               | Open                                                                   |
| Mounting position                             | optional                                                               |
| Ejector characteristic                        | High vacuum<br>Standard                                                |
| Integrated function                           | Pressure sensor<br>Open silencer                                       |
| Design                                        | T-shape                                                                |
| Short circuit current rating                  | Pulsed                                                                 |
| Measured variable                             | Relative pressure                                                      |
| Measuring principle                           | Piezoresistive                                                         |
| Measurement method                            | Relative                                                               |
| Switching element function                    | N/O contact                                                            |
| Switching function                            | Threshold value comparator<br>Threshold value with variable hysteresis |
| Symbol                                        | 00991917                                                               |
| Reverse polarity protection                   | For all electrical connections                                         |
| Display type                                  | LED                                                                    |
| Setting range threshold value                 | -0.1 MPa ... 0 MPa                                                     |
| Setting options                               | Teach-in                                                               |
| Switching status indication                   | LED                                                                    |
| Setting range threshold value                 | -1 bar ... 0 bar                                                       |
| Setting range threshold value                 | -14.5 psi ... 0 psi                                                    |
| 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                            | 0.1 MPa ... 0.8 MPa                                                    |
| Operating pressure                            | 1 bar ... 8 bar                                                        |
| Operating pressure                            | 14.5 psi ... 116 psi                                                   |
| Operating pressure for max. vacuum            | 0.44 MPa                                                               |
| Operating pressure for max. vacuum            | 4.4 bar                                                                |
| Operating pressure for max. vacuum            | 63.8 psi                                                               |
| Max. vacuum                                   | 92 %                                                                   |
| Nominal operating pressure                    | 0.6 MPa                                                                |
| Nominal operating pressure                    | 6 bar                                                                  |

| Feature                                            | Value                                          |
|----------------------------------------------------|------------------------------------------------|
| Nominal operating pressure                         | 87 psi                                         |
| Max. suction flow rate against atmosphere          | 16.2 l/min                                     |
| Switch-off time                                    | ≤4 ms                                          |
| Switch-on time                                     | ≤4 ms                                          |
| Operational voltage range DC                       | 15 V ... 30 V                                  |
| Inductive protective circuit                       | Adapted to MZ, MY, ME coils                    |
| Max. output current                                | 100 mA                                         |
| Off-state current                                  | ≤0.3 mA                                        |
| Residual ripple                                    | 10 %                                           |
| Switching output                                   | PNP                                            |
| Voltage drop                                       | ≤1.5 V                                         |
| Overload protection                                | Available                                      |
| Approval                                           | RCM trademark                                  |
| KC mark                                            | KC-EMV                                         |
| CE mark (see declaration of conformity)            | To EU EMC Directive                            |
| CE 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                     | 1 - Low corrosion stress                       |
| LABS (PWIS) conformity                             | VDMA24364-B1/B2-L                              |
| Media temperature                                  | 0 °C ... 60 °C                                 |
| Recommended cleaning/purification                  | Soapy water                                    |
| Sound pressure level at nominal operating pressure | 66 dB(A)                                       |
| Degree of protection                               | IP40                                           |
| Ambient temperature                                | 0 °C ... 50 °C                                 |
| Max. tightening torque                             | 0.6 Nm                                         |
| Pressure measuring range                           | -0.1 MPa ... 0 MPa                             |
| Pressure measuring range                           | -1 bar ... 0 bar                               |
| Pressure measuring range                           | -14.5 psi ... 0 psi                            |
| Product weight                                     | 36 g                                           |
| Accuracy in ± % FS                                 | 1.5 %FS                                        |
| Long-term drift                                    | ± 0.5% FS max.                                 |
| Temperature coefficient of switching point         | 0.05 %/K                                       |
| Electrical connection                              | 3-pin<br>M8                                    |
| Type of mounting                                   | With through-hole                              |
| Pneumatic connection, port 1                       | QS-6                                           |
| Pneumatic connection, port 3                       | Open silencer                                  |
| Vacuum connection                                  | QS-6                                           |
| Material seals                                     | NBR                                            |
| Material receiver nozzle                           | POM                                            |
| Material housing                                   | POM-reinforced                                 |
| Material fibre-optic                               | PC                                             |
| Material silencer                                  | PE                                             |
| Material connector housing                         | Brass<br>PA<br>Chrome-plated and nickel-plated |
| Material transmitter nozzle                        | Wrought aluminium alloy                        |
| Material keypad                                    | POM                                            |
| Material fitting                                   | Brass<br>Nickel-plated                         |