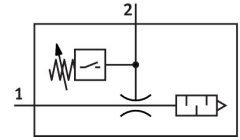


# Vacuum generator VN-07-H-T4-PQ2-VQ2-02-P

FESTO

Part number: 536801



General operating condition

## Data sheet

| Feature                                  | Value  |
|--|--|
| Nominal width of Laval nozzle            | 0.7 mm   |
| Width dimension                          | 16 mm  |
| Muffler construction type                | Open   |
| Mounting position                        | Any  |
| Ejector characteristics                  | High vacuum<br>Standard  |
| Integrated function                      | Pressure sensor<br>Pneumatic muffler open                              |
| Structural design                        | T-shape  |
| Short-circuit protection                 | Pulsed   |
| Measured variable                        | Relative pressure  |
| Measuring principle                      | Piezoresistive   |
| Method of measurement                    | 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   |
| Threshold value setting range            | -14.5 psi ... 0 psi  |
| Operating pressure for max. suction rate | 0.3 MPa  |
| Operating pressure for max. suction rate | 3 bar  |
| Operating pressure for max. suction 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 rate with respect to atmosphere | 16.2 l/min                                     |
| Switch-off time                              | ≤4 ms  |
| On time                                      | ≤4 ms  |
| DC operating voltage range                   | 15 V ... 30 V                                  |
| Inductive protective circuit                 | Adapted to MZ, MY and ME coils                 |
| Max. output current                          | 100 mA   |
| Residual current                             | ≤0.3 mA  |
| Residual ripple                              | 10 %   |
| Switching output                             | PNP  |
| Voltage drop                                 | ≤1.5 V   |
| Overload protection                          | Available                                      |
| Certification                                | RCM compliance mark                            |
| 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)             | 1 - Low corrosion stress                       |
| LABS (PWIS) conformity                       | VDMA24364-B1/B2-L                              |
| Temperature of medium                        | 0 °C ... 60 °C                                 |
| Cleaning advice                              | Soap suds                                      |
| Noise 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                        | M8   |
| Type of mounting                             | With through-hole                              |
| Pneumatic connection 1                       | QS-6   |
| Pneumatic connection 3                       | Pneumatic muffler open                         |
| Vacuum connection                            | QS-6   |
| Seals material                               | NBR  |
| Female nozzle material                       | POM  |
| Housing material                             | POM-reinforced                                 |
| Fiber-optic cable                            | PC   |
| Muffler material                             | PE   |
| Material of plug housing                     | Brass<br>PA<br>Chrome-plated and nickel-plated |
| Material of jet nozzle                       | Wrought aluminum alloy                         |
| Material of keypad                           | POM  |
| Material of pneumatic fitting                | Brass<br>Nickel-plated                         |