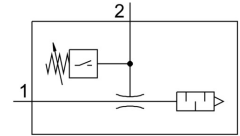
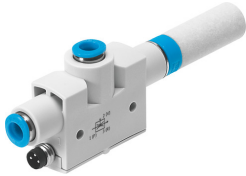


# Vacuum generator VN-05-H-T4-PQ2-VQ2-02-P

Part number: 536797

FESTO



## Data sheet

| Feature                                      | Value                                                                  |
|----------------------------------------------|------------------------------------------------------------------------|
| KC characters                                | KC EMC                                                                 |
| Nominal width of Laval nozzle                | 0.45 mm                                                                |
| Width dimension                              | 16 mm                                                                  |
| Type code                                    | VN                                                                     |
| Muffler construction type                    | Open                                                                   |
| Mounting position                            | Any                                                                    |
| Ejector characteristics                      | High vacuum<br>Standard                                                |
| Integrated function                          | Pneumatic muffler open<br>Vacuum switch                                |
| 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                | -1 bar ... 0 bar                                                       |
| Setting options                              | Teach-in                                                               |
| Switching status indication                  | LED                                                                    |
| Operating pressure for max. suction rate     | 3 bar                                                                  |
| Operating pressure                           | 1 bar ... 8 bar                                                        |
| Operating pressure for max. vacuum           | 4.9 bar                                                                |
| Max. vacuum                                  | 92 %                                                                   |
| Nominal operating pressure                   | 6 bar                                                                  |
| Max. suction rate with respect to atmosphere | 7.2 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                                                                |

| Feature                                    | Value                                          |
|--------------------------------------------|------------------------------------------------|
| Residual ripple                            | 10 %                                           |
| Switching output                           | PNP                                            |
| Voltage drop                               | ≤1.5 V                                         |
| Overload protection                        | Available                                      |
| 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    |
| CE marking (see declaration of conformity) | As per EU EMC directive                        |
| Corrosion resistance class (CRC)           | 1 - Low corrosion stress                       |
| Temperature of medium                      | 0 °C ... 60 °C                                 |
| Cleaning advice                            | Soap suds                                      |
| Noise level at nominal operating pressure  | 62 dB(A)                                       |
| Degree of protection                       | IP40                                           |
| Ambient temperature                        | 0 °C ... 50 °C                                 |
| Certification                              | RCM compliance mark                            |
| Max. tightening torque                     | 0.6 Nm                                         |
| Product weight                             | 33 g                                           |
| Pressure measuring range                   | -1 bar ... 0 bar                               |
| 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 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                         |