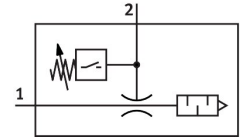


# Vacuum generator VN-05-L-T4-PQ2-VQ2-01-P

Part number: 536798

FESTO



## Data sheet

| Feature                                      | Value                                                               |
|----------------------------------------------|---------------------------------------------------------------------|
| Nominal width of Laval nozzle                | 0.45 mm                                                             |
| Width dimension                              | 16 mm                                                               |
| Muffler construction type                    | Open                                                                |
| Mounting position                            | Any                                                                 |
| Ejector characteristics                      | High suction flow<br>Standard                                       |
| Integrated function                          | Pressure sensor<br>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 fixed hysteresis |
| Reverse polarity protection                  | for all electrical connections                                      |
| Display type                                 | LED                                                                 |
| Setting range threshold value                | -100 kPa...0 kPa<br>-1 bar...0 bar                                  |
| Setting options                              | Teach-in                                                            |
| Switching status indication                  | LED                                                                 |
| Threshold value setting range                | -14.5 psi...0 psi                                                   |
| Operating pressure for max. suction rate     | 0.5 MPa<br>5 bar<br>72.5 psi                                        |
| Operating pressure                           | 0.1 MPa...0.8 MPa<br>1 bar...8 bar<br>14.5 psi...116 psi            |
| Nominal operating pressure                   | 0.6 MPa<br>6 bar<br>87 psi                                          |
| Max. suction rate with respect to atmosphere | 13.6 l/min                                                          |
| Switch-off time                              | 4 ms                                                                |

| Feature                                      | Value                                                   |
|----------------------------------------------|---------------------------------------------------------|
| 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-EMV                                                  |
| 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    | 54 dB(A)                                                |
| Degree of protection                         | IP40                                                    |
| Ambient temperature                          | 0 °C...50 °C                                            |
| Max. tightening torque                       | 0.6 Nm                                                  |
| Pressure measuring range                     | -100 kPa...0 kPa<br>-1 bar...0 bar<br>-14.5 psi...0 psi |
| Product weight                               | 33 g                                                    |
| Accuracy in ± % FS                           | 1.5 %FS                                                 |
| Hysteresis in ± %FS                          | 2 %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                       | Muffler open                                            |
| Vacuum connection                            | QS-6                                                    |
| Seals material                               | NBR                                                     |
| Female nozzle material                       | POM                                                     |
| Housing material                             | Reinforced POM                                          |
| Fiber-optic cable                            | PC                                                      |
| Muffler material                             | Protective grounding                                    |
| 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                                  |