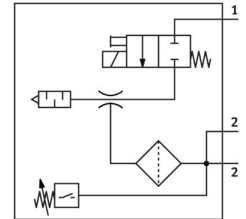


# Vacuum generator VADM-300-N

Part number: 162523

**FESTO**



[PDF](#) General operating condition

## Data sheet

| Feature                       | Value                                            |
|-------------------------------|--------------------------------------------------|
| Nominal size, Laval nozzle    | 3 mm                                             |
| Grid dimension                | 22 mm                                            |
| Silencer design               | Closed                                           |
| Mounting position             | optional                                         |
| Ejector characteristic        | High vacuum                                      |
| Grade of filtration           | ≤40 µm                                           |
| Manual override               | Non-detenting                                    |
| Integrated function           | Electric on-off valve<br>Filter<br>Vacuum switch |
| Measured variable             | Relative pressure                                |
| Measuring principle           | Piezoresistive                                   |
| Switching element function    | N/O contact                                      |
| Switching function            | Threshold value comparator                       |
| Symbol                        | 00991304                                         |
| Valve function                | Closed                                           |
| Reverse polarity protection   | For all electrical connections                   |
| Display type                  | LED                                              |
| Setting range hysteresis      | -0.05 MPa ... -0.005 MPa                         |
| Setting range hysteresis      | -0.5 bar ... -0.05 bar                           |
| Setting range hysteresis      | -7.25 psi ... -0.725 psi                         |
| Setting options               | Potentiometer                                    |
| Switching status indication   | Optical                                          |
| Setting range threshold value | -0.09 MPa ... 0 MPa                              |
| Setting range threshold value | -0.9 bar ... 0 bar                               |
| Setting range threshold value | -13.05 psi ... 0 psi                             |
| Operating pressure            | 0.2 MPa ... 0.8 MPa                              |
| Operating pressure            | 2 bar ... 8 bar                                  |
| Operating pressure            | 29 psi ... 116 psi                               |
| Max. vacuum                   | 85 %                                             |
| Nominal operating pressure    | 0.6 MPa                                          |
| Nominal operating pressure    | 6 bar                                            |
| Nominal operating pressure    | 87 psi                                           |

| Feature                                       | Value                                             |
|-----------------------------------------------|---------------------------------------------------|
| Air supply time at nominal operating pressure | 0.26 s                                            |
| Operational voltage range DC                  | 21.6 V ... 26.4 V                                 |
| Duty cycle                                    | 100%                                              |
| Switching output                              | NPN                                               |
| Approval                                      | RCM trademark<br>c UL us - Recognized (OL)        |
| CE mark (see declaration of conformity)       | To EU EMC Directive                               |
| 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 ... 60 °C                                    |
| Degree of protection                          | IP65                                              |
| Ambient temperature                           | 0 °C ... 50 °C                                    |
| Product weight                                | 350 g                                             |
| Pressure measuring range                      | 0 MPa ... 0.1 MPa                                 |
| Pressure measuring range                      | 0 bar ... 1 bar                                   |
| Pressure measuring range                      | 0 psi ... 14.5 psi                                |
| Electrical connection                         | 4-pin<br>M8x1<br>Plugs                            |
| Type of mounting                              | Either:<br>With through-hole<br>Via female thread |
| Pneumatic connection, port 1                  | G1/4                                              |
| Pneumatic connection, port 3                  | Integrated silencer                               |
| Vacuum connection                             | G3/8                                              |
| Note on materials                             | RoHS-compliant                                    |
| Material seals                                | NBR                                               |
| Material receiver nozzle                      | Brass, nickel-plated                              |
| Material filter                               | PA                                                |
| Material filter housing                       | PC                                                |
| Material housing                              | Wrought aluminium alloy                           |
| Material silencer                             | PE<br>POM                                         |
| Material piston                               | POM                                               |
| Material transmitter nozzle                   | Nickel-plated brass                               |