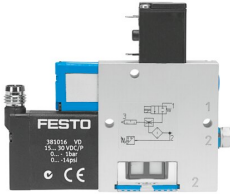


# Vacuum generator VADM-70-P

Part number: 162514

FESTO



[General operating condition](#)

## Data sheet

| Feature                       | Value  |
|-------------------------------|--|
| Nominal size, Laval nozzle    | 0.7 mm   |
| Grid dimension                | 15 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  |
| Hysteresis setting range      | -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            | 0.15 MPa ... 0.8 MPa                             |
| Operating pressure            | 1.5 bar ... 8 bar                                |
| Operating pressure            | 21.75 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 | 2.2 s                                      |
| Operational voltage range DC                  | 21.6 V ... 26.4 V                          |
| Duty cycle                                    | 100%                                       |
| Switching output                              | PNP  |
| 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                                | 145 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                         | M8x1<br>Plugs                              |
| Type of mounting                              | With through-hole<br>Via female thread     |
| Pneumatic connection, port 1                  | M5   |
| Pneumatic connection, port 3                  | Integrated silencer                        |
| Vacuum connection                             | G1/8                                       |
| 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                        |