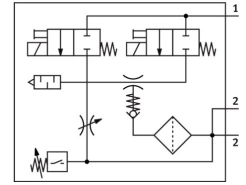


# Vacuum generator VADMI-140-P

Part number: 162530

FESTO



General operating condition

## Data sheet

| Feature                       | Value   |
|-------------------------------|---|
| Nominal size, Laval nozzle    | 1.4 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 ejector pulse valve<br>Flow control<br>Electric on-off valve<br>Filter<br>Check valve<br>Vacuum switch |
| Measured variable             | Relative pressure   |
| Measuring principle           | Piezoresistive  |
| Switching element function    | N/O contact   |
| Switching function            | Threshold value comparator  |
| Symbol                        | 00991306  |
| 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            | 0.2 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   |

| Feature  | Value                                      |
|--|--|
| Nominal operating pressure                                       | 87 psi                                     |
| Max. overload pressure   | 5 bar                                      |
| Air supply time at nominal operating pressure with ejector pulse | 0.19 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                        |
| UKCA marking (see declaration of conformity)                     | To UK instructions for EMC                 |
| 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   | 330 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                                     | G1/8                                       |
| Pneumatic connection, port 3                                     | Integrated silencer                        |
| Vacuum connection  | G1/4                                       |
| 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                        |