

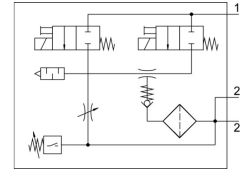
# Vacuum generator VADMI-45-LS-P

Part number: 171053

**FESTO**



## Data sheet



| Feature                                       | Value                                                                                                                                                                      |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal width of Laval nozzle                 | 0.45 mm                                                                                                                                                                    |
| Width dimension                               | 10 mm                                                                                                                                                                      |
| Type code                                     | VADMI                                                                                                                                                                      |
| Muffler construction type                     | Closed                                                                                                                                                                     |
| Mounting position                             | Any                                                                                                                                                                        |
| Ejector characteristics                       | High vacuum                                                                                                                                                                |
| Grade of filtration                           | ≤40 µm                                                                                                                                                                     |
| Manual override                               | Non-detenting                                                                                                                                                              |
| Integrated function                           | Ejector pulse valve, electric<br>Flow control<br>Shut off valve, electric<br>Compressed air filter<br>Air saving function, electrical<br>Non-return 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                                                                                                                                                                        |
| Setting range threshold value                 | -0.9 bar ... -0.2 bar                                                                                                                                                      |
| Setting range hysteresis                      | -0.6 bar ... -0.1 bar                                                                                                                                                      |
| Setting options                               | Potentiometer                                                                                                                                                              |
| Switching status indication                   | Optical                                                                                                                                                                    |
| Operating pressure                            | 1.5 bar ... 8 bar                                                                                                                                                          |
| Max. vacuum                                   | 85 %                                                                                                                                                                       |
| Nominal operating pressure                    | 6 bar                                                                                                                                                                      |
| Max. overload pressure                        | 5 bar                                                                                                                                                                      |
| Air supply time at nominal operating pressure | 1.9 s                                                                                                                                                                      |
| DC operating voltage range                    | 21.6 V ... 26.4 V                                                                                                                                                          |
| Duty cycle                                    | 100%                                                                                                                                                                       |
| Switching output                              | PNP                                                                                                                                                                        |
| 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                                                                                                                                |

| Feature                                    | Value                                                    |
|--------------------------------------------|----------------------------------------------------------|
| CE marking (see declaration of conformity) | As per EU EMC directive                                  |
| Corrosion resistance class (CRC)           | 2 - Moderate corrosion stress                            |
| Temperature of medium                      | 0 °C ... 60 °C                                           |
| Degree of protection                       | IP65                                                     |
| Ambient temperature                        | 0 °C ... 50 °C                                           |
| Certification                              | RCM compliance mark<br>c UL us - Recognized (OL)         |
| Product weight                             | 90 g                                                     |
| Pressure measuring range                   | 0 bar ... 1 bar                                          |
| Electrical connection                      | 4-pin<br>M8x1<br>Plug                                    |
| Type of mounting                           | Optionally:<br>With through-hole<br>With internal thread |
| Pneumatic connection 1                     | M5                                                       |
| Pneumatic connection 3                     | Pneumatic muffler integrated                             |
| Vacuum connection                          | M5                                                       |
| Note on materials                          | Free of copper and PTFE<br>RoHS-compliant                |
| Seals material                             | NBR                                                      |
| Female nozzle material                     | Brass, nickel-plated                                     |
| Compressed air filter material             | PA                                                       |
| Material of filter housing                 | PC                                                       |
| Housing material                           | Wrought aluminum alloy                                   |
| Muffler material                           | PE<br>POM                                                |
| Material of piston                         | POM                                                      |
| Material of jet nozzle                     | Brass, nickel-plated                                     |