

# Pressure regulator MS12-LR-G-D7-LD-AS

Part number: 537148

**FESTO**



 General operating condition

## Data sheet

| Feature                                               | Value                                                                                                                |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Size                                                  | 12                                                                                                                   |
| Series                                                | MS                                                                                                                   |
| Actuator lock                                         | Rotary knob with detent<br>can be closed with accessories                                                            |
| Mounting position                                     | optional                                                                                                             |
| Design                                                | Piloted diaphragm regulator                                                                                          |
| Controller function                                   | Output pressure constant<br>Via primary pressure compensation<br>With secondary venting<br>With return flow function |
| Symbol                                                | 00991558                                                                                                             |
| Pressure gauge (ANALOG) or Pressure display (DIGITAL) | With pressure gauge                                                                                                  |
| Operating pressure                                    | 0.08 MPa ... 2.1 MPa                                                                                                 |
| Operating pressure                                    | 0.8 bar ... 21 bar                                                                                                   |
| Pressure regulation range                             | 0.5 bar ... 12 bar                                                                                                   |
| Max. pressure hysteresis                              | 0.04 MPa                                                                                                             |
| Max. pressure hysteresis                              | 0.4 bar                                                                                                              |
| Max. pressure hysteresis                              | 5.8 psi                                                                                                              |
| Flow rate of secondary exhaust                        | ≤600 l/min                                                                                                           |
| Standard nominal flow rate (standardised to DIN 1343) | 13000 l/min ... 22000 l/min                                                                                          |
| Operating medium                                      | Compressed air to ISO 8573-1:2010 [7:4:4]<br>Inert gases                                                             |
| Corrosion resistance class CRC                        | 2 - Moderate corrosion stress                                                                                        |
| LABS (PWIS) conformity                                | VDMA24364-B1/B2-L                                                                                                    |
| Storage temperature                                   | -10 °C ... 60 °C                                                                                                     |
| Media temperature                                     | -10 °C ... 60 °C                                                                                                     |
| Ambient temperature                                   | -10 °C ... 60 °C                                                                                                     |
| Product weight                                        | 4000 g                                                                                                               |
| Type of mounting                                      | Either:<br>In-line installation<br>Via mounting bracket                                                              |
| Pneumatic connection, port 1                          | Sub-base                                                                                                             |
| Pneumatic connection, port 2                          | Sub-base                                                                                                             |
| Material covering                                     | PA                                                                                                                   |
| Note on materials                                     | RoHS-compliant                                                                                                       |

| Feature                   | Value                                                        |
|---------------------------|--------------------------------------------------------------|
| Material control panel    | PA-reinforced<br>POM                                         |
| Material underneath cover | Wrought aluminium alloy                                      |
| Material seals            | NBR                                                          |
| Material spring           | Spring steel                                                 |
| Material housing          | Die-cast aluminium                                           |
| Material membrane         | NBR                                                          |
| Material valve stem       | Wrought aluminium alloy<br>NBR<br>High-alloy stainless steel |