

# Pressure regulator MS2-LR-QS6-D6-AR-BAR-F1A-B

Part number: 8167261

**FESTO**



 General operating condition

## Data sheet

| Feature                                               | Value                                                                                                                                                                                                                 |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size                                                  | 2                                                                                                                                                                                                                     |
| Series                                                | MS                                                                                                                                                                                                                    |
| Actuator lock                                         | Rotary knob with detent                                                                                                                                                                                               |
| Mounting position                                     | optional                                                                                                                                                                                                              |
| Design                                                | Directly actuated diaphragm regulator                                                                                                                                                                                 |
| Controller function                                   | Output pressure constant<br>With secondary venting<br>With return flow function                                                                                                                                       |
| Symbol                                                | 00991558                                                                                                                                                                                                              |
| Displayable units                                     | bar<br>psi                                                                                                                                                                                                            |
| Pressure gauge (ANALOG) or Pressure display (DIGITAL) | With pressure gauge                                                                                                                                                                                                   |
| Operating pressure                                    | 0.1 MPa ... 0.8 MPa                                                                                                                                                                                                   |
| Operating pressure                                    | 1 bar ... 8 bar                                                                                                                                                                                                       |
| Pressure regulation range                             | 0.5 bar ... 7 bar                                                                                                                                                                                                     |
| Max. pressure hysteresis                              | 0.025 MPa                                                                                                                                                                                                             |
| Max. pressure hysteresis                              | 0.25 bar                                                                                                                                                                                                              |
| Max. pressure hysteresis                              | 3.625 psi                                                                                                                                                                                                             |
| Standard nominal flow rate (standardised to DIN 1343) | 350 l/min                                                                                                                                                                                                             |
| Operating medium                                      | Compressed air to ISO 8573-1:2010 [7:4:4]<br>Inert gases                                                                                                                                                              |
| Corrosion resistance class CRC                        | 1 - Low corrosion stress                                                                                                                                                                                              |
| LABS (PWIS) conformity                                | VDMA24364-B1/B2-L                                                                                                                                                                                                     |
| Suitability for the production of Li-ion batteries    | Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class                                       | Class 4 according to ISO 14644-1                                                                                                                                                                                      |
| Storage temperature                                   | -5 °C ... 50 °C                                                                                                                                                                                                       |
| Media temperature                                     | -5 °C ... 50 °C                                                                                                                                                                                                       |
| Ambient temperature                                   | -5 °C ... 50 °C                                                                                                                                                                                                       |
| Product weight                                        | 36.1 g                                                                                                                                                                                                                |
| Type of mounting                                      | Either:<br>Front panel mounting<br>In-line installation<br>With accessories                                                                                                                                           |
| Pneumatic connection, port 1                          | QS-6                                                                                                                                                                                                                  |
| Pneumatic connection, port 2                          | QS-6                                                                                                                                                                                                                  |

| Feature                   | Value                          |
|---------------------------|--------------------------------|
| Note on materials         | RoHS-compliant                 |
| Material underneath cover | PA                             |
| Material seals            | NBR                            |
| Material rotary knob      | POM                            |
| Material spring           | High-alloy steel               |
| Material housing          | PA-reinforced                  |
| Material membrane         | NBR                            |
| Material valve stem       | Wrought aluminium alloy<br>NBR |