

# Filter regulator MS4-LFR-1/4-D6-E-P-M-A8-F1A-B

Part number: 8175800

FESTO



[PDF General operating condition](#)

## Data sheet

| Feature                                                   | Value                                                                              |
|-----------------------------------------------------------|------------------------------------------------------------------------------------|
| Size                                                      | 4                                                                                  |
| Series                                                    | MS                                                                                 |
| Actuator lock                                             | Rotary knob with detent                                                            |
| Mounting position                                         | Vertical +/- 5°                                                                    |
| Grade of filtration                                       | 40 µm                                                                              |
| Condensate drain                                          | Manually rotating                                                                  |
| Structural design                                         | Directly controlled piston regulator                                               |
| Max. condensate volume                                    | 16.5 ml                                                                            |
| Controller function                                       | Outlet pressure constant<br>With secondary exhausting<br>With return flow function |
| Degree of condensate separation                           | >75 %                                                                              |
| Symbol                                                    | 00991590                                                                           |
| Pressure gauge                                            | G1/8 prepared                                                                      |
| Operating pressure                                        | 0.1 MPa ... 1 MPa                                                                  |
| Operating pressure                                        | 1 bar ... 10 bar                                                                   |
| Pressure regulation range                                 | 0.3 bar ... 7 bar                                                                  |
| Max. pressure hysteresis                                  | 0.05 MPa                                                                           |
| Max. pressure hysteresis                                  | 0.5 bar                                                                            |
| Max. pressure hysteresis                                  | 7.25 psi                                                                           |
| Normal nominal flow rate (normalized to DIN 1343)         | 1700 l/min                                                                         |
| Operating medium                                          | Compressed air as per 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        | Suitable for battery production with reduced Cu/Zn/Ni values (F1a)                 |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 7 according to ISO 14644-1                                                   |
| Storage temperature                                       | -5 °C ... 50 °C                                                                    |
| Air quality class at the output                           | Compressed air as per ISO 8573-1:2010 [7:4:4]                                      |
| Temperature of medium                                     | -5 °C ... 50 °C                                                                    |
| Ambient temperature                                       | -5 °C ... 50 °C                                                                    |
| Pore size                                                 | <40 µm                                                                             |
| Product weight                                            | 204 g                                                                              |
| Type of mounting                                          | With accessories                                                                   |
| Pneumatic connection 1                                    | G1/4                                                                               |

| <b>Feature</b>                 | <b>Value</b>               |
|--------------------------------|----------------------------|
| Pneumatic connection 2         | G $\frac{1}{4}$            |
| Note on materials              | RoHS-compliant             |
| Seals material                 | NBR                        |
| Rotary knob material           | POM                        |
| Material of spring             | High-alloy stainless steel |
| Compressed air filter material | PE                         |
| Housing material               | PA-reinforced              |
| Material of bowl               | PC                         |
| Valve tappet material          | POM                        |