Filter regulators LFR/LFRS, D series
## Filter regulators LFR/LFRS, D series, metal design

Product range overview D series service units, metal design

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# Filter regulators LFR/LFRS, D series, metal design

Product range overview D series service units, metal design

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Internet: www.festo.com/catalog/...
Filter regulators LFR/LFRS, D series, metal design
Product range overview D series service units, metal design

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Product range overview D series service units, metal design

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<td>Pressure regulator combinations LRB-K</td>
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<td>Distributor block FRZ</td>
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</tr>
</tbody>
</table>
Filter regulators LFR/LFRS, D series, metal design

Peripherals overview

**Micro**
Individual unit with connection plates, connection size G½, QS-4 or QS-6

Individually unit without connection plates, for service unit combination
connection thread M5 or M7 in housing

---

**Mounting attachments and accessories**

<table>
<thead>
<tr>
<th></th>
<th>Individual unit with connection plates</th>
<th>Individual unit without connection plates</th>
<th>Combination with connection plates</th>
<th>Combination without connection plates</th>
<th>Page/Internet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mounting bracket HFOE</td>
<td></td>
<td></td>
<td></td>
<td>hfoe-d</td>
</tr>
<tr>
<td>2</td>
<td>Connecting plate kit PBL</td>
<td></td>
<td></td>
<td></td>
<td>pbl</td>
</tr>
<tr>
<td>3</td>
<td>Mounting bracket HRS</td>
<td></td>
<td></td>
<td></td>
<td>hrs-d</td>
</tr>
<tr>
<td>4</td>
<td>Pressure gauge MA-27</td>
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<td></td>
<td></td>
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</table>
Filter regulators LFR/LFRS, D series, metal design

Peripherals overview

<table>
<thead>
<tr>
<th>Mini/Midi/Maxi</th>
<th>Filter regulator LFR</th>
<th>Filter regulator LFRS, lockable</th>
</tr>
</thead>
</table>

![Filter regulators LFR/LFRS, D series, metal design](image)

### Mounting attachments and accessories

<table>
<thead>
<tr>
<th>Mounting bracket</th>
<th>Rotary knob with detent</th>
<th>Rotary knob, lockable</th>
<th>Page/Internet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Mounting bracket HFOE</td>
<td>■</td>
<td>■</td>
<td>hfoe-d</td>
</tr>
<tr>
<td>2 Regulator lock LRV5</td>
<td>■</td>
<td>-</td>
<td>lrvs-d</td>
</tr>
<tr>
<td>3 Padlock LRV5-D</td>
<td>■</td>
<td>-</td>
<td>lrvs-d</td>
</tr>
<tr>
<td>4 Mounting bracket HR-D</td>
<td>■</td>
<td>■</td>
<td>hr-d</td>
</tr>
<tr>
<td>5 Pressure gauge MA</td>
<td>■</td>
<td>■</td>
<td>32</td>
</tr>
<tr>
<td>6 Knurled nut (included in scope of delivery) HMR</td>
<td>■</td>
<td>■</td>
<td>-</td>
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</table>
### Filter regulators LFR/LFRS, D series, metal design

#### Type codes

<table>
<thead>
<tr>
<th>Basic function</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFR Filter regulator</td>
</tr>
<tr>
<td>LFRS Filter regulator, lockable</td>
</tr>
</tbody>
</table>

#### Pneumatic connection

**MICRO (LFR only):**
- **M5** Connecting thread M5 in housing
- **M7** Connecting thread M7 in housing
- **¼** Connecting plates with connecting thread G ¼
- **QS4** Connecting plates with push-in connector QS-4
- **QS6** Connecting plates with push-in connector QS-6

**MINI:**
- **¼** Connecting plates with connecting thread G ¼
- **¼** Connecting plates with connecting thread G ¼
- **½** Connecting plates with connecting thread G ½

**MIDI:**
- **¼** Connecting plates with connecting thread G ¼
- **¾** Connecting plates with connecting thread G ¾
- **½** Connecting plates with connecting thread G ½

**MAXI:**
- **¼** Connecting plates with connecting thread G ¼
- **¾** Connecting plates with connecting thread G ¾
- **1** Connecting plates with connecting thread G 1

#### Series

**D** Series

#### Pressure regulation range

- **7** 0.5 … 7 bar
- **0.5** … 12 bar

#### Grade of filtration

- **40 μm**
- **5 M** 5 μm

#### Pressure gauge

- **O** Without pressure gauge
- **With pressure gauge**

#### Function (optional)

- **DI** Directly actuated pressure regulator with integrated return flow function (MAXI only)

#### Size

- **MICRO** Grid dimension 25 mm (without connecting plates)
- **MINI** Grid dimension 40 mm (without connecting plates)
- **MIDI** Grid dimension 55 mm (without connecting plates)
- **MAXI** Grid dimension 66 mm (without connecting plates)

#### Condensate drain

- **H** Semi-automatic
- **A** Fully automatic
Filter regulators LFR/LFRS, D series, metal design

Technical data

LFR/LFRS
Manual rotary condensate drain, with pressure gauge

LFR/LFRS-…-DI-MAXI
Manual rotary condensate drain, with pressure gauge

Semi or fully automatic condensate drain, with pressure gauge

Fully automatic condensate drain, with pressure gauge

- Flow rate
  110 … 11,000 l/min
- Temperature range
  –10 … +60 °C
- Operating pressure
  1 … 16 bar

- Space-saving design with filter and regulator in a single unit
- Good particle separation and high flow rate
- Good regulating characteristics with minimal hysteresis
- Two pressure regulation ranges: 0.5 … 7 bar and 0.5 … 12 bar
- Two pressure gauge connections for flexible installation
- Setting values are secured by locking the rotary knob
- With manual, semi-automatic or fully automatic condensate drain
- Choice of filter cartridges: 5 μm or 40 μm
- New filter cartridges ➔ 31
- Pressure sensor (optional) ➔ 32

#### General technical data

<table>
<thead>
<tr>
<th>Size</th>
<th>Micro</th>
<th>Mini</th>
<th>Midi</th>
<th>Maxi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>Filter regulator with/without pressure gauge</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of mounting</td>
<td>Via accessories</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assembly position</td>
<td>Vertical ±5°</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade of filtration (μm)</td>
<td>5</td>
<td>5</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Air purity class at the output</td>
<td>Compressed air according to ISO 8573-1:2010 [6:8:4] (grade of filtration 5 μm)</td>
<td>Compressed air according to ISO 8573-1:2010 [7:8:4] (grade of filtration 40 μm)</td>
<td></td>
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<tr>
<td>Bowl guard</td>
<td>–</td>
<td>Metal bowl guard</td>
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<tr>
<td>Condensate drain</td>
<td>Manual rotary</td>
<td>Semi-automatic</td>
<td>Fully automatic</td>
<td></td>
</tr>
<tr>
<td>Regulator lock</td>
<td>Rotary knob with detent</td>
<td>Rotary knob with integrated lock</td>
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<tr>
<td>Pressure regulation range (bar)</td>
<td>0.5 … 7</td>
<td>0.5 … 7</td>
<td>0.5 … 12</td>
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<tr>
<td>Max. hysteresis (bar)</td>
<td>0.2</td>
<td>0.2</td>
<td>0.4</td>
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<tr>
<td>Pressure indication</td>
<td>Via pressure gauge</td>
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<tr>
<td>Max. condensate volume (cm³)</td>
<td>M5 prepared</td>
<td>G5/8 prepared</td>
<td>G1/4 prepared</td>
<td>G1/4 prepared</td>
</tr>
</tbody>
</table>

1) Connecting plates with connecting thread
2) Without connecting plates, connecting thread in housing
3) Connecting plates with push-in connector
4) The max. condensate volume for the LFR/LFRS-…-DI-MAXI is 43 cm³.

Note: This product conforms to ISO 1179-1 and to ISO 228-1
Filter regulators LFR/LFRS, D series, metal design

Technical data

### Standard nominal flow rate \( q_{\text{nom}} \) [l/min]

<table>
<thead>
<tr>
<th>Size</th>
<th>Micro</th>
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<th>Midi</th>
<th>Maxi</th>
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<tr>
<td>Pneumatic connection 1, 2</td>
<td>M5</td>
<td>G1/2</td>
<td>G1/2</td>
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<td>0.5 - 7 bar</td>
<td>0.5 - 7 bar</td>
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<td></td>
<td>110</td>
<td>280</td>
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</table>

1) Measured at \( p_1 = 10 \text{ bar}, p_2 = 6 \text{ bar} \) and \( \Delta p = 1 \text{ bar} \).

### Standard nominal flow rate \( q_{\text{nom}} \) [l/min]

<table>
<thead>
<tr>
<th>Size</th>
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<th>Maxi</th>
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<tr>
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<td>G1/4</td>
<td>G1/4</td>
<td>G1/4</td>
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<td>Pressure regulation range, grade of filtration</td>
<td>0.5 - 7 bar, 40 μm</td>
<td>0.5 - 7 bar, 40 μm</td>
<td>0.5 - 7 bar, 40 μm</td>
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<td>4,000</td>
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<td>2,600</td>
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<td>750</td>
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</table>

1) Measured at \( p_1 = 10 \text{ bar}, p_2 = 6 \text{ bar} \) and \( \Delta p = 1 \text{ bar} \).

2) For the LR/LRS-…-DI.

### Operating and environmental conditions

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<tr>
<th>Condensate drain</th>
<th>Manual rotary</th>
<th>Semi-automatic</th>
<th>Fully automatic</th>
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</thead>
<tbody>
<tr>
<td>Size</td>
<td>Micro</td>
<td>Mini/Midi/Maxi</td>
<td>Micro/Mini/Midi/Maxi</td>
</tr>
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<td>Operating pressure [bar]</td>
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<td>1 - 10</td>
<td>1 - 10</td>
</tr>
<tr>
<td>Operating medium</td>
<td>Compressed air in accordance with ISO 8573-1:2010 [7-9:]</td>
<td>Compressed air in accordance with ISO 8573-1:2010 [7-9:]</td>
<td>Compressed air in accordance with ISO 8573-1:2010 [7-9:]</td>
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<tr>
<td>Ambient temperature [°C]</td>
<td>-10 - +60</td>
<td>+5 - +60</td>
<td>+5 - +60</td>
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<tr>
<td>Temperature of medium [°C]</td>
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<td>+5 - +60</td>
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<tr>
<td>Storage temperature [°C]</td>
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<td>+5 - +60</td>
<td>+5 - +60</td>
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<td>Corrosion resistance class CRC1)</td>
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<tr>
<td>Maritime classification</td>
<td>See certificate (only LFR)2)</td>
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</table>

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

2) Additional information www.festo.com/sp>Certificates.

### Weight [g]

<table>
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<tbody>
<tr>
<td>Connecting thread</td>
<td>Connecting plate</td>
<td>Connecting G1/2, G1/4</td>
<td>Connecting G1</td>
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<tr>
<td>With pressure gauge</td>
<td>104</td>
<td>124</td>
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<td>920</td>
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<tr>
<td>LFR-…</td>
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<td>LFR-…-DI</td>
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<td>LFRS-…</td>
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<tr>
<td>Without pressure gauge</td>
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<tr>
<td>LFRS-…</td>
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<tr>
<td>LFRS-…-DI</td>
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<td>1,880</td>
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</tr>
</tbody>
</table>

1) Measured at \( p_1 = 10 \text{ bar}, p_2 = 6 \text{ bar} \) and \( \Delta p = 1 \text{ bar} \).

2) Measured at \( p_1 = 10 \text{ bar}, p_2 = 6 \text{ bar} \) and \( \Delta p = 1 \text{ bar} \).

-H- 125 l/min must be available for the semi automatic condensate drain to close correctly.

-H- 125 l/min must be available for the fully automatic condensate drain to close correctly.
Filter regulators LFR/LFRS, D series, metal design

Technical data

### Materials

<table>
<thead>
<tr>
<th>Sectional view</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Sectional view" /></td>
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</tbody>
</table>

**Size**

<table>
<thead>
<tr>
<th>Micro</th>
<th>Mini/Midi/Maxi</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>Micro</th>
<th>Mini/Midi/Maxi</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Housing</td>
<td>Wrought aluminium alloy</td>
</tr>
<tr>
<td>2.</td>
<td>Connecting plates</td>
<td>Wrought aluminium alloy</td>
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<tr>
<td>3.</td>
<td>Regulating knob</td>
<td>POM</td>
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<tr>
<td>4.</td>
<td>Knurled nut</td>
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<tr>
<td>5.</td>
<td>Bowl</td>
<td>PC</td>
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<td>6.</td>
<td>Metal bowl guard</td>
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</tr>
<tr>
<td></td>
<td>Seals</td>
<td>NBR</td>
</tr>
</tbody>
</table>

Note on materials:

- RoHS-compliant
- Free of copper and PTFE (LFR only)

### Standard flow rate \( q_n \) as a function of the output pressure \( p_2 \)

**LFR-M5-...-MICRO**

<table>
<thead>
<tr>
<th>( p_2 ) [bar]</th>
<th>( q_n ) [l/min]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

**LFR-M7-...-MICRO-B**

<table>
<thead>
<tr>
<th>( p_2 ) [bar]</th>
<th>( q_n ) [l/min]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

**LFR-QS4-...-MICRO**

<table>
<thead>
<tr>
<th>( p_2 ) [bar]</th>
<th>( q_n ) [l/min]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

**LFR-QS6-...-MICRO** and **LFR-1/6-...-MICRO**

<table>
<thead>
<tr>
<th>( p_2 ) [bar]</th>
<th>( q_n ) [l/min]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
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</tr>
<tr>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

Primary pressure \( p_1 = 10 \) bar

Internet: www.festo.com/catalog/...
Filter regulators LFR/LFRS, D series, metal design

Technical data

Standard flow rate $q_n$ as a function of the output pressure $p_2$

<table>
<thead>
<tr>
<th>LFR/LFRS-1/4-D-MINI</th>
<th>LFR/LFRS-1/2-D-MIDI</th>
</tr>
</thead>
<tbody>
<tr>
<td>$p_2$ [bar]</td>
<td>$q_n$ [l/min]</td>
</tr>
<tr>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>4</td>
<td>10</td>
</tr>
</tbody>
</table>

Primary pressure $p_1 = 10$ bar

Note

In order to improve control behaviour, primary-pressure dependent internal air consumption is provided on the LFR/LFRS-…-MAXI.

Internal air consumption $q_n$ as a function of input pressure $p_1$

<table>
<thead>
<tr>
<th>LFR/LFRS-…-MAXI</th>
</tr>
</thead>
<tbody>
<tr>
<td>$p_1$ [bar]</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>14</td>
</tr>
<tr>
<td>16</td>
</tr>
<tr>
<td>18</td>
</tr>
</tbody>
</table>

- $p_2 = 2$ bar
- $p_2 = 4$ bar
- $p_2 = 6$ bar
- $p_2 = 8$ bar
- $p_2 = 10$ bar
- $p_2 = 12$ bar
Filter regulators LFR/LFRS, D series, metal design

Technical data

Dimensions

Micro

<table>
<thead>
<tr>
<th>Type</th>
<th>B1</th>
<th>B2</th>
<th>B3</th>
<th>B5</th>
<th>B3</th>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>D4</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFR-M5-...-MICRO (H)</td>
<td>25</td>
<td></td>
<td></td>
<td>50</td>
<td>25</td>
<td>M5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LFR-M7-...-MICRO (H) B</td>
<td>45</td>
<td>12.5</td>
<td>50</td>
<td></td>
<td>25</td>
<td>G5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LFR-QS4-...-MICRO (H)</td>
<td></td>
<td></td>
<td></td>
<td>2.5</td>
<td></td>
<td>QS-4</td>
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<tr>
<td>LFR-QS6-...-MICRO (H)</td>
<td></td>
<td></td>
<td></td>
<td>5.6</td>
<td></td>
<td>QS-6</td>
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</tbody>
</table>

Note: This product conforms to ISO 1179-1 and to ISO 228-1

Barbed fitting for plastic tubing
PUN(H)-8x1.25

Flow direction

Download CAD data ➔ www.festo.com
Filter regulators LFR/LFRS, D series, metal design

Technical data

Dimensions

Mini/Midi/Maxi

<table>
<thead>
<tr>
<th>Type</th>
<th>B1</th>
<th>B2</th>
<th>B3</th>
<th>B4</th>
<th>B6</th>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>D4</th>
<th>D5</th>
<th>D6</th>
<th>D9</th>
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</thead>
<tbody>
<tr>
<td>Mini</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LFR/LFRS-1/4-D-MINI (A)</td>
<td>64</td>
<td>20</td>
<td>76</td>
<td>-52</td>
<td>40</td>
<td>G1/4</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>LFR/LFRS-1/4-D-MINI (A)</td>
<td>70</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>G1/4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Midi</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>LFR/LFRS-1/4-D-MIDI (A)</td>
<td>-85</td>
<td>27.5</td>
<td>-94.5</td>
<td>-70</td>
<td>55</td>
<td>G1/4</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>LFR/LFRS-1/2-D-MIDI (A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>G1/2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maxi</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LFR/LFRS-1/2-D-MAXI (A)</td>
<td>96</td>
<td>33</td>
<td>106</td>
<td>80</td>
<td>66</td>
<td>G3/4</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LFR/LFRS-1/2-D-DI-MAXI (A)</td>
<td>105</td>
<td>105</td>
<td>105</td>
<td>105</td>
<td>105</td>
<td>M52x1.5</td>
<td>M5</td>
<td>49</td>
<td>5.6</td>
<td>65</td>
<td></td>
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</tr>
<tr>
<td>LFR/LFRS-1/2-D-MAXI (A)</td>
<td>116</td>
<td>106</td>
<td>91</td>
<td>61</td>
<td></td>
<td>31</td>
<td>M36x1.5</td>
<td>M5</td>
<td>49</td>
<td>5.6</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>LFR/LFRS-1/2-D-DI-MAXI (A)</td>
<td>105</td>
<td>105</td>
<td>105</td>
<td>105</td>
<td>105</td>
<td>M52x1.5</td>
<td>M5</td>
<td>49</td>
<td>5.6</td>
<td>65</td>
<td></td>
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</tr>
</tbody>
</table>

Note: This product conforms to ISO 1179-1 and to ISO 228-1

Internet: www.festo.com/catalog/...
Filter regulators LFR/LFRS, D series, metal design

Technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>L5</th>
<th>L6</th>
<th>L8</th>
<th>L9</th>
<th>L10</th>
<th>L11 ±0.2</th>
<th>L15 max.</th>
<th>T1 min.</th>
<th>T2</th>
<th>T3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini</td>
<td>192.9</td>
<td>40</td>
<td>15 (19)</td>
<td>60</td>
<td>~69</td>
<td>20</td>
<td>98</td>
<td>60</td>
<td>3</td>
<td>11</td>
<td>3</td>
<td>7</td>
<td>14</td>
<td>22</td>
</tr>
<tr>
<td>Midi</td>
<td>250</td>
<td>55 ±0.1</td>
<td>15 (19)</td>
<td>80</td>
<td>99</td>
<td>32 ±0.3</td>
<td>130</td>
<td>60</td>
<td>3</td>
<td>22</td>
<td>5</td>
<td>8</td>
<td>14</td>
<td>24</td>
</tr>
<tr>
<td>Maxi</td>
<td>252</td>
<td>66</td>
<td>15 (19)</td>
<td>90</td>
<td>~105</td>
<td>32</td>
<td>111</td>
<td>60</td>
<td>3</td>
<td>22</td>
<td>4</td>
<td>8</td>
<td>14</td>
<td>24</td>
</tr>
</tbody>
</table>

1) Value in brackets applies to the fully automatic condensate drain.
## Filter regulators LFR/LFRS, D series, metal design

### Technical data

#### Ordering data

**Pressure regulation range 0.5 ... 7 bar**

<table>
<thead>
<tr>
<th>Condensate drain</th>
<th>Size</th>
<th>Connection</th>
<th>Grade of filtration 5 μm</th>
<th>Part No.</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>With pressure gauge, outer scale in bar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turned manually</td>
<td>Micro</td>
<td>Without connecting plates, connecting thread in housing</td>
<td></td>
<td>526273</td>
<td>LFR-M5-D-7-5M-MICRO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connecting plates with connecting thread</td>
<td></td>
<td>534184</td>
<td>LFR-M7-D-7-5M-MICRO-B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connecting plates with push-in connector</td>
<td></td>
<td>526277</td>
<td>LFR-1/8-D-7-5M-MICRO</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>526289</td>
<td>LFR-QS4-D-7-5M-MICRO</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>526293</td>
<td>LFR-QS6-D-7-5M-MICRO</td>
</tr>
<tr>
<td>Semi-automatic</td>
<td>Micro</td>
<td>Without connecting plates, connecting thread in housing</td>
<td></td>
<td>526274</td>
<td>LFR-M5-D-7-5M-MICRO-H</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connecting plates with connecting thread</td>
<td></td>
<td>534185</td>
<td>LFR-M7-D-7-5M-MICRO-H-B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connecting plates with push-in connector</td>
<td></td>
<td>526278</td>
<td>LFR-1/8-D-7-5M-MICRO-H</td>
</tr>
<tr>
<td></td>
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<td>526290</td>
<td>LFR-QS4-D-7-5M-MICRO-H</td>
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<tr>
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<td></td>
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<td>526294</td>
<td>LFR-QS6-D-7-5M-MICRO-H</td>
</tr>
<tr>
<td>Without pressure gauge</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Turned manually</td>
<td>Micro</td>
<td>Without connecting plates, connecting thread in housing</td>
<td></td>
<td>526275</td>
<td>LFR-M5-D-7-0-5M-MICRO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connecting plates with connecting thread</td>
<td></td>
<td>534186</td>
<td>LFR-M7-D-7-0-5M-MICRO-B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connecting plates with push-in connector</td>
<td></td>
<td>526279</td>
<td>LFR-1/8-D-7-0-5M-MICRO</td>
</tr>
<tr>
<td></td>
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<td>526291</td>
<td>LFR-QS4-D-7-0-5M-MICRO</td>
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<td></td>
<td>526295</td>
<td>LFR-QS6-D-7-0-5M-MICRO</td>
</tr>
<tr>
<td>Semi-automatic</td>
<td>Micro</td>
<td>Without connecting plates, connecting thread in housing</td>
<td></td>
<td>526276</td>
<td>LFR-M5-D-7-0-5M-MICRO-H</td>
</tr>
<tr>
<td></td>
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<td>Connecting plates with connecting thread</td>
<td></td>
<td>534187</td>
<td>LFR-M7-D-7-0-5M-MICRO-H-B</td>
</tr>
<tr>
<td></td>
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<td>Connecting plates with push-in connector</td>
<td></td>
<td>526280</td>
<td>LFR-1/8-D-7-0-5M-MICRO-H</td>
</tr>
<tr>
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</tr>
</tbody>
</table>
## Ordering data

Pressure regulation range 0.5 ... 12 bar, rotary knob with detent, connecting plates with connecting thread

### Condensate drain

<table>
<thead>
<tr>
<th>Condensate drain</th>
<th>Size</th>
<th>Connection</th>
<th>Grade of filtration 5 μm</th>
<th>Grade of filtration 60 μm</th>
</tr>
</thead>
<tbody>
<tr>
<td>With pressure gauge, outer scale in bar, inner scale in psi</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>G3/4</td>
<td>162719 LFR-1/4-D-SM-MINI</td>
<td>159631 LFR-1/4-D-MINI</td>
</tr>
<tr>
<td></td>
<td>Midi</td>
<td>G3/4</td>
<td>186483 LFR-1/4-D-SM-MIDI</td>
<td>186481 LFR-1/4-D-MIDI</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G4/8</td>
<td>162722 LFR-1/2-D-SM-MIDI</td>
<td>159584 LFR-1/2-D-MIDI</td>
</tr>
<tr>
<td></td>
<td>Maxi</td>
<td>G3/4</td>
<td>186491 LFR-1/2-D-SM-MAXI</td>
<td>186489 LFR-1/2-D-MAXI</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>162725 LFR-1/2-D-SM-MAXI</td>
<td>159633 LFR-1/2-D-MAXI</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G3/4</td>
<td>162727 LFR-1/4-D-SM-MINI-A</td>
<td>159635 LFR-1/4-D-MINI-A</td>
</tr>
<tr>
<td></td>
<td>Midi</td>
<td>G4/4</td>
<td>186486 LFR-1/4-D-SM-MIDI-A</td>
<td>186484 LFR-1/4-D-MIDI-A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G4/2</td>
<td>162730 LFR-1/2-D-SM-MIDI-A</td>
<td>159585 LFR-1/2-D-MIDI-A</td>
</tr>
<tr>
<td></td>
<td>Maxi</td>
<td>G4/4</td>
<td>186494 LFR-1/2-D-SM-MAXI-A</td>
<td>186492 LFR-1/2-D-MAXI-A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G4/2</td>
<td>162732 LFR-3/4-D-SM-MAXI-A</td>
<td>159636 LFR-3/4-D-MAXI-A</td>
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<tr>
<td></td>
<td></td>
<td>G1</td>
<td>162733 LFR-1-D-SM-MAXI-A</td>
<td>159637 LFR-1-D-MAXI-A</td>
</tr>
</tbody>
</table>

### Without pressure gauge

<table>
<thead>
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<th>Condensate drain</th>
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<th>Connection</th>
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1) Free of copper and PTFE
## Filter regulators LFR/LFRS, D series, metal design

### Technical data

**Ordering data**

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**Maxi**

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**Fully automatic**

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¹) Free of copper and PTFE
Filter regulators LFR/LFRS, D series, metal design

### Technical data

**Ordering data**

Pressure regulation range 0.5 … 12 bar, directly actuated diaphragm regulator with integrated return flow function, rotary knob with detent, connecting plates with connecting thread

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<th>Size</th>
<th>Connection</th>
<th>Grade of filtration 5 μm</th>
<th>Grade of filtration 40 μm</th>
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<td>G ¾</td>
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<td>Maxi</td>
<td>G ½</td>
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**Ordering data**

Pressure regulation range 0.5 … 7 bar, directly actuated diaphragm regulator with integrated return flow function, rotary knob with detent, connecting plates with connecting thread

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<td>Maxi</td>
<td>G ½</td>
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<td></td>
<td>G ¾</td>
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<td>G ¾</td>
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**Filter regulators LFR/LFRS, D series, metal design**

**Technical data**

**Ordering data**

Pressure regulation range 0.5 ... 12 bar, rotary knob with integrated lock, connecting plates with connecting thread

### Condensate drain

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<th>Grade of filtration 40 μm</th>
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Filter regulators LFR/LFRS, D series, metal design

### Technical data

#### Ordering data

Pressure regulation range 0.5 … 7 bar, rotary knob with integrated lock, connecting plates with connecting thread

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Filter regulators LFR/LFRS, D series, metal design

Technical data

Ordering data
Pressure regulation range 0.5 ... 12 bar, directly actuated diaphragm regulator with integrated return flow function, rotary knob with integrated lock, connecting plates with connecting thread.

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<th>Condensate drain</th>
<th>Size</th>
<th>Connection</th>
<th>Grade of filtration 5 μm</th>
<th>Grade of filtration 40 μm</th>
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<td>Part No.</td>
<td>Type</td>
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Ordering data
Pressure regulation range 0.5 ... 7 bar, directly actuated diaphragm regulator with integrated return flow function, rotary knob with integrated lock, connecting plates with connecting thread.

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<th>Condensate drain</th>
<th>Size</th>
<th>Connection</th>
<th>Grade of filtration 5 μm</th>
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Filter regulators LFR/LFRS, D series, metal design

Technical data
Filter regulators LFR, D series, polymer

Product range overview D series service units, polymer

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<td>On-off valves HE</td>
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</table>
### Filter regulators LFR, D series, polymer

**Product range overview D series service units, polymer**

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Condensate drain</th>
<th>Pressure display</th>
<th>Actuator lock</th>
<th>Regulating functions</th>
<th>Page/Internet</th>
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<tbody>
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<td>Semi-automatic</td>
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<tr>
<td>On-off valves</td>
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<td>HE</td>
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</table>

**Contact Information**

Internet: www.festo.com/catalog/...
Filter regulators LFR, D series, polymer

Peripherals overview

Mounting attachments and accessories

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Page/Internet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Connecting plate kit</td>
<td>pbl</td>
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<tr>
<td></td>
<td>PBL</td>
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<tr>
<td>2</td>
<td>Mounting bracket</td>
<td>hfoe-d</td>
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<tr>
<td></td>
<td>HFOE</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Mounting bracket</td>
<td>hr-d</td>
</tr>
<tr>
<td></td>
<td>HR-D</td>
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<tr>
<td>4</td>
<td>Hex nut</td>
<td>hmr-d</td>
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<tr>
<td></td>
<td>HMR</td>
<td></td>
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<tr>
<td>5</td>
<td>Pressure gauge</td>
<td>32</td>
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<tr>
<td></td>
<td>MA</td>
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</table>
### Filter regulators LFR, D series, polymer

**Type codes**

<table>
<thead>
<tr>
<th>Basic function</th>
<th>LFR Filter regulator</th>
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<tbody>
<tr>
<td>Pneumatic connection</td>
<td>¼ Thread G¼</td>
</tr>
<tr>
<td>Series</td>
<td>DB Series</td>
</tr>
<tr>
<td>Pressure regulation range</td>
<td>7 0.5 – 7 bar</td>
</tr>
<tr>
<td>Grade of filtration</td>
<td>40 μm 5 μm</td>
</tr>
<tr>
<td>Pressure gauge</td>
<td>With pressure gauge 0 Without pressure gauge</td>
</tr>
<tr>
<td>Size</td>
<td>MINI</td>
</tr>
<tr>
<td>Condensate drain</td>
<td>Manual rotary H Semi-automatic</td>
</tr>
</tbody>
</table>

- LFR — ¼ — DB — 7 — 5M — O — MINI — H
- **Internet:** [www.festo.com/catalog/...](http://www.festo.com/catalog/...)
Filter regulators LFR, D series, polymer

Technical data

- Flow rate
  500 ... 1,200 l/min
- Temperature range
  –5 ... +50 °C
- Operating pressure
  1.5 ... 10 bar

- Space-saving design with filter and regulator in a single unit
- Good particle separation and high flow rate
- Good regulating characteristics with minimal hysteresis
- With manual or semi-automatic condensate drain
- Setting values are secured by locking the rotary knob
- Choice of filter cartridges: 5 μm or 40 μm
- New filter cartridges ➔ 31

General technical data

<table>
<thead>
<tr>
<th>Size</th>
<th>Mini with pressure gauge</th>
<th>Mini without pressure gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumatic connection 1, 2</td>
<td>G1/4</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Filter regulator with pressure gauge</td>
<td>Filter regulator without pressure gauge</td>
</tr>
<tr>
<td>Regulating function</td>
<td>With return flow function, with secondary venting</td>
<td></td>
</tr>
<tr>
<td>type of mounting</td>
<td>Inline installation</td>
<td>Via through-holes</td>
</tr>
<tr>
<td></td>
<td>Via mounting bracket</td>
<td></td>
</tr>
<tr>
<td>Assembly position</td>
<td>Vertical ±5°</td>
<td></td>
</tr>
<tr>
<td>Grade of filtration [μm]</td>
<td>5</td>
<td>40</td>
</tr>
<tr>
<td>Air purity class at the output</td>
<td>Compressed air according to ISO 8573-1:2010 [6:8:4] (grade of filtration 5 μm)</td>
<td>Compressed air according to ISO 8573-1:2010 [7:8:4] (grade of filtration 40 μm)</td>
</tr>
<tr>
<td>Condensate drain</td>
<td>Manual rotary</td>
<td>Semi-automatic</td>
</tr>
<tr>
<td>Regulator lock</td>
<td>Rotary knob with detent</td>
<td></td>
</tr>
<tr>
<td>Pressure regulation range [bar]</td>
<td>0.5 ... 7</td>
<td>G5</td>
</tr>
<tr>
<td>Max. hysteresis [bar]</td>
<td>G5</td>
<td></td>
</tr>
<tr>
<td>Pressure indication</td>
<td>Via pressure gauge G1/4 prepared</td>
<td>G1/4</td>
</tr>
<tr>
<td>Pressure gauge connection</td>
<td>G1/4</td>
<td></td>
</tr>
</tbody>
</table>

Standard nominal flow rate\(^1\) \(q_{\text{N}}\) [l/min]

<table>
<thead>
<tr>
<th>Size</th>
<th>Mini</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade of filtration</td>
<td>5 μm</td>
</tr>
<tr>
<td></td>
<td>40 μm</td>
</tr>
</tbody>
</table>

1) Measured at \(p_1 = 10\) bar, \(p_2 = 6\) bar and \(\Delta p = 1\) bar.

\(125\) l/min must be available for the semi-automatic condensate drain to close correctly.
Filter regulators LFR, D series, polymer

Technical data

### Operating and environmental conditions

<table>
<thead>
<tr>
<th>Size</th>
<th>Mini</th>
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</thead>
<tbody>
<tr>
<td>Operating pressure [bar]</td>
<td>1.5 ... 10</td>
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<tr>
<td>Operating medium</td>
<td>Compressed air in accordance with ISO 8573-1:2010 [–:9:–] inert gases</td>
</tr>
<tr>
<td>Ambient temperature [°C]</td>
<td>–5 ... +50</td>
</tr>
<tr>
<td>Temperature of medium [°C]</td>
<td>–5 ... +50</td>
</tr>
<tr>
<td>Corrosion resistance class CRC</td>
<td>1</td>
</tr>
</tbody>
</table>

1) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

### Weight [g]

<table>
<thead>
<tr>
<th>Size</th>
<th>Mini</th>
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<tbody>
<tr>
<td>Filter regulator</td>
<td>200</td>
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### Materials

#### Sectional view

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<tr>
<th>1</th>
<th>Housing</th>
<th>PA-reinforced</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>Bowl</td>
<td>PC</td>
</tr>
<tr>
<td>3</td>
<td>Filter</td>
<td>PE</td>
</tr>
<tr>
<td>4</td>
<td>Rotary knob</td>
<td>POM</td>
</tr>
<tr>
<td></td>
<td>Seals</td>
<td>NBR</td>
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</table>

Note on materials: RoHS-compliant

### Standard flow rate qn as a function of output pressure p2

<table>
<thead>
<tr>
<th></th>
<th>Grade of filtration 5 μm</th>
<th>Grade of filtration 40 μm</th>
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<tbody>
<tr>
<td>Operating pressure p1 = 10 bar</td>
<td><img src="image1.png" alt="Graph" /></td>
<td><img src="image2.png" alt="Graph" /></td>
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</tbody>
</table>

- **Note**
  - Slight leakage at the output has been taken into account in the design. It improves the control behaviour of the non pre-pressure compensated controller.
  - In a few cases leakage may amount to 500 l/h.
Filter regulators LFR, D series, polymer

Technical data

Dimensions

Download CAD data ➔ www.festo.com

Mini

Barbed connector for plastic tubing PUN(H)-8x1,25
Installation dimensions

Socket head screw for wall mounting (2 included in scope of delivery)

Flow direction

<table>
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<tr>
<th>Type</th>
<th>B1</th>
<th>B2</th>
<th>B4</th>
<th>B6</th>
<th>B7 max.</th>
<th>B8</th>
<th>D1</th>
<th>D2 (\phi)</th>
<th>D3</th>
<th>D5 (\phi)</th>
<th>D6 (\phi)</th>
<th>D8</th>
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<tbody>
<tr>
<td>LFR-1/4-DB</td>
<td>44</td>
<td>20.5</td>
<td>34</td>
<td>41</td>
<td>37</td>
<td>9</td>
<td>G3/4</td>
<td>32</td>
<td>M36x1.5</td>
<td>39</td>
<td>5.6</td>
<td>M4</td>
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<table>
<thead>
<tr>
<th>Type</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4 min.</th>
<th>L5</th>
<th>L10</th>
<th>L12</th>
<th>L13</th>
<th>L14</th>
<th>(\beta) 1</th>
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<td>LFR-1/4-DB</td>
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Ordering data

Pressure regulation range 0.5 ... 7 bar

Condensate drain | Size | Connection | Grade of filtration 5 \(\mu\)m | Grade of filtration 40 \(\mu\)m |
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Manual rotary</td>
<td>Mini</td>
<td>G3/4</td>
<td>LFR-1/4-DB-7-5M-MINI</td>
<td>LFR-1/4-DB-7-5M-MINI-H</td>
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<tr>
<td>Semi-automatic</td>
<td>Mini</td>
<td>G3/4</td>
<td>LFR-1/4-DB-7-5M-O-MINI</td>
<td>LFR-1/4-DB-7-5M-O-MINI-H</td>
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</tbody>
</table>

Without pressure gauge

Manual rotary   | Mini | G3/4       | LFR-1/4-DB-7-5M-O-MINI | LFR-1/4-DB-7-5M-O-MINI-H |
| Semi-automatic | Mini | G3/4       | LFR-1/4-DB-7-5M-O-MINI-H | LFR-1/4-DB-7-5M-O-MINI-H |

1 Barbed connector for plastic tubing PUN(H)-8x1,25
2 Installation dimensions
3 Socket head screw for wall mounting (2 included in scope of delivery)

Download CAD data ➔ www.festo.com

Subject to change - 2018/05
## Filter regulators LFR/LFRS, D series

### Accessories

Filter cartridges, D series, metal design

<table>
<thead>
<tr>
<th>Size</th>
<th>Grade of filtration</th>
<th>Part No.</th>
<th>Type</th>
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<tr>
<td>Micro</td>
<td>5</td>
<td>526818</td>
<td>LFP-D-MICRO-5M</td>
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<tr>
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<td>5 (colour: blue)</td>
<td>159640</td>
<td>LFP-D-MINI-5M</td>
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<tr>
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<td>40 (colour: white)</td>
<td>363665</td>
<td>LFP-D-MINI-40M</td>
</tr>
<tr>
<td>Midi</td>
<td>5 (colour: blue)</td>
<td>159594</td>
<td>LFP-D-MIDI-5M</td>
</tr>
<tr>
<td></td>
<td>40 (colour: white)</td>
<td>363667</td>
<td>LFP-D-MIDI-40M</td>
</tr>
<tr>
<td>Maxi</td>
<td>5 (colour: blue)</td>
<td>159641</td>
<td>LFP-D-MAXI-5M</td>
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<tr>
<td></td>
<td>40 (colour: white)</td>
<td>363664</td>
<td>LFP-D-MAXI-40M</td>
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</table>

Filter cartridges, D series, polymer

<table>
<thead>
<tr>
<th>Size</th>
<th>Grade of filtration</th>
<th>Part No.</th>
<th>Type</th>
</tr>
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<tr>
<td>Mini</td>
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Ordering data

Internet: www.festo.com/catalog/...
### Filter regulators LFR/LFRS, D series

### Accessories

#### Ordering data – Pressure gauge MA

<table>
<thead>
<tr>
<th>Nominal size</th>
<th>Pneumatic connection</th>
<th>Indicating range</th>
<th>Part No.</th>
<th>Type</th>
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<td>MA-27-10-M5</td>
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<tr>
<td>40</td>
<td>G3/8</td>
<td>0 ... 10</td>
<td>359874</td>
<td>MA-40-10-3/8</td>
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<td></td>
<td></td>
<td>0 ... 16</td>
<td>345395</td>
<td>MA-40-16-3/8</td>
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<tr>
<td>50</td>
<td>G1/4</td>
<td>0 ... 10</td>
<td>359873</td>
<td>MA-50-10-1/4</td>
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<td></td>
<td>0 ... 16</td>
<td>356759</td>
<td>MA-50-16-1/4</td>
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#### Pressure gauge MA, DIN EN 837-1

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<th>Pneumatic connection</th>
<th>Indicating range</th>
<th>Part No.</th>
<th>Type</th>
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<td>R1/4</td>
<td>0 ... 10</td>
<td>162835</td>
<td>MA-40-10-1/4-EN</td>
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<tr>
<td></td>
<td>G1/4</td>
<td>0 ... 10</td>
<td>183900</td>
<td>MA-40-10-G1/4-EN</td>
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<tr>
<td>50</td>
<td>G1/4</td>
<td>0 ... 10</td>
<td>159597</td>
<td>MA-50-10-1/4-EN</td>
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<td>0 ... 16</td>
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#### Flanged pressure gauge FMA, DIN EN 837-1

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<th>Nominal size</th>
<th>Pneumatic connection</th>
<th>Indicating range</th>
<th>Part No.</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>G1/4</td>
<td>0 ... 10</td>
<td>159596</td>
<td>FMA-40-10-1/4-EN</td>
</tr>
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<td>0 ... 16</td>
<td>159597</td>
<td>FMA-40-16-1/4-EN</td>
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<tr>
<td>50</td>
<td>G1/4</td>
<td>0 ... 10</td>
<td>159599</td>
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<td>0 ... 16</td>
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<td>FMA-50-16-1/4-EN</td>
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#### Ordering data – Pressure sensor SPAU

<table>
<thead>
<tr>
<th>Pneumatic connection</th>
<th>Switching output</th>
<th>Display type</th>
<th>Electrical connection</th>
<th>Part No.</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>Pressure sensor SPAU</td>
<td>Direct mounting</td>
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<tr>
<td></td>
<td>on the service</td>
<td></td>
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<tr>
<td></td>
<td>unit with pressure gauge connection (adapter for pneumatic connection included in scope of delivery),</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>pressure measuring range 0 ... 10 bar, relative pressure measurement</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male thread R1/8</td>
<td>2x PNP or 2x NPN</td>
<td>Illuminated</td>
<td>M8x1, 4-pin</td>
<td>8001203</td>
<td>SPAU-P10R-T-R18M-PNLK-M80</td>
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<tr>
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<td>NPN, switchable</td>
<td>LCD</td>
<td>M12x1, 4-pin</td>
<td>8001206</td>
<td>SPAU-P10R-T-R18M-PNLK-M120</td>
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<td>Male thread R1/4</td>
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<td>M8x1, 4-pin</td>
<td>8001209</td>
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<td>8001208</td>
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