Return filters

FRI series

Maximum working pressure up to 2 MPa (20 bar) - Flow rate up to 2500 l/min
FRI is a range of return filters for protection of the reservoir against the system contamination. They could be directly fixed to the reservoir in immersed or semi-immersed position or connected to the lines of the system through the hydraulic fittings. The filter output must always be immersed into the fluid to avoid aeration or foam generation into the reservoir.

Available features:
- Female threaded connections up to 2 1/2” and flanged connections up to 3 1/2”, for a maximum flow rate of 2500 l/min
- Double input connections, to connect several return lines or drains
- Fine filtration rating, to get a good cleanliness level into the reservoir
- Bypass valve, to relieve excessive pressure drop across the filter media
- Visual, electrical and electronic differential clogging indicators

Common applications:
Heavy duty industrial equipment

Weights [kg] and volumes [dm³]

<table>
<thead>
<tr>
<th>Filter series</th>
<th>Weights [kg]</th>
<th>Volumes [dm³]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Length</td>
<td>T</td>
</tr>
<tr>
<td>FRI 025</td>
<td>1.0</td>
<td>1.0</td>
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<tr>
<td>FRI 040</td>
<td>2.0</td>
<td>1.0</td>
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<tr>
<td>FRI 100</td>
<td>3.8</td>
<td>1.0</td>
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<tr>
<td>FRI 250</td>
<td>6.3</td>
<td>1.0</td>
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<tr>
<td>FRI 255</td>
<td>4.2</td>
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<tr>
<td>FRI 630</td>
<td>13.8</td>
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</tr>
<tr>
<td>FRI 850</td>
<td>48.0</td>
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</table>
### Filter Assembly Sizing

#### Flow rates [l/min]

<table>
<thead>
<tr>
<th>Filter series</th>
<th>Length</th>
<th>A03</th>
<th>A06</th>
<th>A10</th>
<th>A16</th>
<th>A25</th>
<th>M25</th>
<th>M60</th>
<th>M90</th>
<th>P10</th>
<th>P25</th>
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<td>1</td>
<td>6</td>
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<tr>
<td>FRI 255</td>
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<td>144</td>
<td>179</td>
<td>271</td>
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<td>645</td>
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<td>FRI 630</td>
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<td>577</td>
<td>834</td>
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<td>834</td>
<td>911</td>
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<td>FRI 850</td>
<td>1</td>
<td>440</td>
<td>541</td>
<td>971</td>
<td>1143</td>
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<td>2528</td>
<td>1705</td>
<td>1880</td>
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<td></td>
</tr>
</tbody>
</table>

Maximum flow rate for a complete return filter with a pressure drop $\Delta p = 0.5$ bar. The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltr.com. You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

#### Hydraulic symbols

- Style 1 connection + Diff. indic.
- Style 2 connections + Diff. indic.
Return filters

Filter housings Δp pressure drop

Bypass valve pressure drop

The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.
### Designation & Ordering code

#### COMPLETE FILTER

<table>
<thead>
<tr>
<th>Series and size</th>
<th>Configuration example 1:</th>
<th>Configuration example 2:</th>
</tr>
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<tbody>
<tr>
<td>FRI025</td>
<td>FRI025</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G1</td>
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<td>N</td>
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<td></td>
<td></td>
<td>P01</td>
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<tr>
<td>FRI040</td>
<td>FRI040</td>
<td>S</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>M25</td>
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<td></td>
<td>N</td>
</tr>
<tr>
<td></td>
<td></td>
<td>P01</td>
</tr>
</tbody>
</table>

**Bypass valve**
- B: With bypass 2.4 bar
- S: Without bypass

**Seals and treatments**
- A: NBR
- V: FPM

**Connections for FRI025**
- G1: 1/2” NPT
- G2: 3/4” NPT
- G3: SAE 8 - 3/4” - 16 UNF

**Filtration rating (filter media)**
- A03: Inorganic microfiber 3 µm
- A06: Inorganic microfiber 6 µm
- A10: Inorganic microfiber 10 µm
- A16: Inorganic microfiber 16 µm
- A25: Inorganic microfiber 25 µm

**Connections for FRI040**
- G1: 1/2” NPT
- G2: 3/4” NPT
- G3: SAE 12 - 1 1/16” - 12 UN

**Filtration rating (filter media)**
- M25: Wire mesh 25 µm
- M60: Wire mesh 60 µm
- M90: Wire mesh 90 µm
- P10: Resin impregnated paper 10 µm
- P25: Resin impregnated paper 25 µm

**Element ΔP**
- N: 10 bar

**Execution**
- P01: MP Filtri standard
- Pxx: Customized

#### FILTER ELEMENT

<table>
<thead>
<tr>
<th>Element series and size</th>
<th>Configuration example 1:</th>
<th>Configuration example 2:</th>
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<td>V</td>
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<td>P01</td>
</tr>
</tbody>
</table>

**Filtration rating (filter media)**
- M25: Wire mesh 25 µm
- M60: Wire mesh 60 µm
- M90: Wire mesh 90 µm
- P10: Resin impregnated paper 10 µm
- P25: Resin impregnated paper 25 µm

**Seals and treatments**
- N: NBR
- V: FPM

**Execution**
- P01: MP Filtri standard
- Pxx: Customized

#### CLOGGING INDICATORS

- DEA: Electrical differential indicator
- DEM: Electrical differential indicator
- DLA: Electrical / visual differential indicator
- DLE: Electrical / visual differential indicator
- DTA: Electrical differential indicator
- DVA: Visual differential indicator
- DVM: Visual differential indicator

**PLUGS**

See page 706

See page 680-681
**Dimensions**

**FRI025**

- **IN → OUT**
- **Plug**
- **Total length immersed in the tank**
- **Flat seal**
- **Holes on the tank**
- **Connection for differential indicator T2 plug not included**
- **M5 - #10-24 UNC**
- **Nr. 4 holes**
- **Recommended clearance space for maintenance**

**FRI040**

- **IN → OUT**
- **Plug**
- **Total length immersed in the tank**
- **Flat seal**
- **Holes on the tank**
- **Connection for differential indicator T2 plug not included**
- **M6 - 1/4-20 UNC**
- **Nr. 4 holes**
- **Recommended clearance space for maintenance**
### FRI FRI100 - FRI250 - FRI630

**Designation & Ordering code**

<table>
<thead>
<tr>
<th>Series and size</th>
<th><strong>COMPLETE FILTER</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>FRI100</td>
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</tr>
<tr>
<td>FRI250</td>
<td></td>
</tr>
<tr>
<td>FRI630</td>
<td></td>
</tr>
</tbody>
</table>

**Bypass valve**
- B With bypass 2.4 bar
- S Without bypass

**Seals and treatments**
- A NBR
- V FPM

**Connections for FRI100**
- G1 1”
- G2 1” NPT
- G3 SAE 16 - 1 5/16” - 12 UN
- F1 1” SAE 3000 psi/M
- F2 1” SAE 3000 psi/UNC

**Connections for FRI250**
- G1 1 1/2”
- G2 1 1/2” NPT
- G3 SAE 24 - 1 7/8” - 12 UN
- F1 1 1/2” SAE 3000 psi/M
- F2 1 1/2” SAE 3000 psi/UNC

**Connections for FRI630**
- G1 2 1/2”
- G2 2 1/2” NPT
- G3 SAE 32 - 2 1/2” - 12 UN
- F1 2 1/2” SAE 3000 psi/M
- F2 2 1/2” SAE 3000 psi/UNC

**Filtration rating (filter media)**
- A03 Inorganic microfiber 3 µm
- A06 Inorganic microfiber 6 µm
- A10 Inorganic microfiber 10 µm
- A16 Inorganic microfiber 16 µm
- A25 Inorganic microfiber 25 µm
- M25 Wire mesh 25 µm
- M60 Wire mesh 60 µm
- M90 Wire mesh 90 µm
- P10 Resin impregnated paper 10 µm
- P25 Resin impregnated paper 25 µm

**Element ∆p**
- N 10 bar
- P01 MP Filtri standard
- Pxx Customized

### FILTER ELEMENT

<table>
<thead>
<tr>
<th>Element series and size</th>
<th><strong>FILTER ELEMENT</strong></th>
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<tbody>
<tr>
<td>CU100</td>
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<tr>
<td>CU250</td>
<td></td>
</tr>
<tr>
<td>CU630</td>
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</tr>
</tbody>
</table>

**Filtration rating (filter media)**
- A03 Inorganic microfiber 3 µm
- A06 Inorganic microfiber 6 µm
- A10 Inorganic microfiber 10 µm
- A16 Inorganic microfiber 16 µm
- A25 Inorganic microfiber 25 µm
- M25 Wire mesh 25 µm
- M60 Wire mesh 60 µm
- M90 Wire mesh 90 µm
- P10 Resin impregnated paper 10 µm
- P25 Resin impregnated paper 25 µm

**Seals and treatments**
- A NBR
- V FPM

**Execution**
- N 10 bar
- P01 MP Filtri standard
- Pxx Customized

### CLOGGING INDICATORS

- DEA Electrical differential indicator
- DEM Electrical differential indicator
- DLA Electrical / visual differential indicator
- DLE Electrical / visual differential indicator

**See page 680-681**

### PLUGS

- T2 Differential indicator plug (not included)

**See page 706**
FRI100 - FRI250 - FRI630

Dimensions

**Threaded connections “G”**

- Recommended clearance space for maintenance
- Total length immersed in the tank
- Holes on the tank
- Connection for differential indicator
- T2 plug not included
- Total length immersed in the tank
- Recommended clearance space for maintenance
- Holes on the tank
- Connection for differential indicator
- T2 plug not included

**Flange connections “F”**

- Recommended clearance space for maintenance
- Total length immersed in the tank
- Holes on the tank
- Connection for differential indicator
- T2 plug not included

**Return filters**

- Flat seal
-盲塞
- M8 - 5/16” UNC
- Nr. 4 holes
Dimensions

**FRI630**

**Threaded connections "G"**

### IN
- 122
- Blind flange

### OUT
- 235
- 1.5 Flat seal

**Recommended clearance space for maintenance**

**T2 plug not included**

**Total length immersed in the tank**

**Holes on the tank**

**Nr. 4 holes**

**Connection for differential indicator**

---

**FRI630**

**Flange connections “F”**

### IN
- 143
- Blind flange

### OUT
- 235
- 1.5 Flat seal

**Recommended clearance space for maintenance**

**T2 plug not included**

**Total length immersed in the tank**

**Holes on the tank**

**M10-3/8" UNC**

**Nr. 4 holes**

**Connection for differential indicator**

---

**Recommended clearance space for maintenance**

**249**

Return filters
### DESIGNATION & ORDERING CODE

**COMPLETE FILTER**

<table>
<thead>
<tr>
<th>Series and size</th>
<th>Configuration example 1:</th>
<th>Configuration example 2:</th>
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<tbody>
<tr>
<td>FRI255</td>
<td>FRI255</td>
<td>S</td>
</tr>
<tr>
<td>FRI850</td>
<td>FRI850</td>
<td>B</td>
</tr>
</tbody>
</table>

**Bypass valve**

- **B** With bypass 2.4 bar
- **S** Without bypass

**Seals and treatments for FRI255**

<table>
<thead>
<tr>
<th>A</th>
<th>NBR</th>
<th>V</th>
<th>FPM</th>
</tr>
</thead>
</table>

**Seals and treatments for FRI850**

<table>
<thead>
<tr>
<th>A</th>
<th>NBR</th>
<th>V</th>
<th>FPM</th>
</tr>
</thead>
</table>

**Connections for FRI255**

- G1 G 1 1/2"
- G2 1 1/2" NPT
- G3 SAE 24 - 1 7/8" - 12 UN
- G4 G 1 1/4"
- G5 1 1/4" NPT
- G6 SAE 20 - 1 5/8" - 12 UN
- F1 1 1/2" SAE 3000 psi/M
- F2 1 1/2" SAE 3000 psi/UNC

**Connections for FRI850**

- F1 3 1/2" SAE 3000 psi/M
- F2 3 1/2" SAE 3000 psi/UNC

**Filtration rating (filter media)**

- A03 Inorganic microfiber 3 µm
- A06 Inorganic microfiber 6 µm
- A10 Inorganic microfiber 10 µm
- A16 Inorganic microfiber 16 µm
- A25 Inorganic microfiber 25 µm

**Filtration rating (filter media) with bypass**

- M25 Wire mesh 25 µm
- M60 Wire mesh 60 µm
- M90 Wire mesh 90 µm
- P10 Resin impregnated paper 10 µm
- P25 Resin impregnated paper 25 µm

Only for FRI850: All filter media except M60, P10 and P25 are compatible with fluids HFA, HFB and HFC.

**FILTER ELEMENT**

<table>
<thead>
<tr>
<th>Element series and size</th>
<th>Configuration example 1:</th>
<th>Configuration example 2:</th>
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</thead>
<tbody>
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<tr>
<td>CU850</td>
<td>CU850</td>
<td>A25</td>
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</tbody>
</table>

**Filtration rating (filter media)**

- A03 Inorganic microfiber 3 µm
- A06 Inorganic microfiber 6 µm
- A10 Inorganic microfiber 10 µm
- A16 Inorganic microfiber 16 µm
- A25 Inorganic microfiber 25 µm

**Seals for FRI255**

<table>
<thead>
<tr>
<th>N</th>
<th>NBR</th>
<th>V</th>
<th>FPM</th>
</tr>
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</table>

**Seals for FRI850**

<table>
<thead>
<tr>
<th>N</th>
<th>NBR</th>
<th>V</th>
<th>FPM</th>
</tr>
</thead>
</table>

### FRI255 CLOGGING INDICATORS

- **BVA** Axial pressure gauge
- **BVR** Radial pressure gauge
- **BVP** Visual pressure indicator with automatic reset
- **BVO** Visual pressure indicator with manual reset
- **DEA** Electrical differential indicator
- **DEM** Electrical differential indicator
- **DLA** Electrical / visual differential indicator
- **DLE** Electrical / visual differential indicator

**FRI850 CLOGGING INDICATORS**

- **BVA** Axial pressure gauge
- **BVR** Radial pressure gauge
- **BVP** Visual pressure indicator with automatic reset
- **BVO** Visual pressure indicator with manual reset
- **DEA** Electrical differential indicator
- **DEM** Electrical differential indicator
- **DLA** Electrical / visual differential indicator
- **DLE** Electrical / visual differential indicator

### PLUGS

- **T2** Differential indicator plug (not included)

See page 680-681
Dimensions

**FRI255**

- Total length immersed in the tank
- Recommended clearance space for maintenance
- Holes on the tank
- Nr. 4 holes
- Ø162
- G 1/8" Connection for clogging indicator
- O-Ring seal
- IN
- OUT

**FRI850**

- Total length immersed in the tank
- Recommended clearance space for maintenance
- Holes on the tank
- Nr. 4 holes
- Ø237
- Connection for differential indicator
- T2 plug not included
- M14 - 1/2" UNC
- Drain plug
- OUT

**Recommended clearance space for maintenance**

**IN**

**OUT**
## FRI 025 - 040

<table>
<thead>
<tr>
<th>Item:</th>
<th>Q.ty: 1 pc.</th>
<th>Q.ty: 1 pc.</th>
<th>Seal Kit code number</th>
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</thead>
<tbody>
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<td>Filter element</td>
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<td>02050221</td>
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</table>

## FRI 100 - 250 - 630

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<tr>
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<td>FRI 630</td>
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<td>02050217</td>
<td>02050224</td>
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**FRISpare Parts**

**FRI 255**

![FRI 255 Diagram]

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<th>Q.ty: 1 pc.</th>
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**FRI 850**

![FRI 850 Diagram]

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<tr>
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<th>Filter element</th>
<th>Seal Kit code number</th>
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<th>Q.ty: 1 pc.</th>
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</tr>
</tbody>
</table>
Accessories

**Polyamide Extension Tube**

<table>
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<tr>
<th>Series</th>
<th>Size</th>
<th>Ø D [mm]</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE</td>
<td>25</td>
<td>25</td>
<td>A Polyamide</td>
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<tr>
<td></td>
<td>40</td>
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</tr>
</tbody>
</table>

| Configuration example: |
|------------------------|----------------|
| Length                | H₁ [mm] |
| 200                   | 200     |
| 250                   | 250     |
| 300                   | 300     |
| 400                   | 400     |
| 450                   | 450     |
| 500                   | 500     |

**COMPATIBILITY TABLE**

<table>
<thead>
<tr>
<th>Filter series</th>
<th>Filter size</th>
<th>Filter length</th>
<th>Tube length</th>
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<tbody>
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<td>1 - -</td>
<td>266 316 366 416 466 516 566</td>
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<tr>
<td></td>
<td>181 182 184</td>
<td>1 - -</td>
<td>852 902 952 1002</td>
</tr>
</tbody>
</table>

**Steel Extension Tube**

| Configuration example: |
|------------------------|----------------|
| Length                | H₁ [mm] |
| S30                   | 300     |
| S35                   | 350     |
| S40                   | 400     |
| S45                   | 450     |
| S50                   | 500     |
| S60                   | 600     |
| S70                   | 700     |
| S80                   | 800     |
| S90                   | 900     |

**COMPATIBILITY TABLE**

<table>
<thead>
<tr>
<th>Filter series</th>
<th>Filter size</th>
<th>Filter length</th>
<th>Ø D [mm]</th>
</tr>
</thead>
<tbody>
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<td>191 192 194</td>
<td>2 - -</td>
<td>191 192 194</td>
</tr>
<tr>
<td></td>
<td>400 410 450</td>
<td>2 - -</td>
<td>400 410 450</td>
</tr>
<tr>
<td></td>
<td>451 750</td>
<td>3 - -</td>
<td>750</td>
</tr>
</tbody>
</table>
DIFFUSER WITH FAST LOCK CONNECTION

**Configuration example:** DFS [32] A [075]

**Materials**
- Screw: phosphatized steel
- Stick: phosphatized steel
- Handle: Polyamide

**Technical data**
- Working temperature: from -25 °C to +110 °C

<table>
<thead>
<tr>
<th>Series</th>
<th>Size</th>
<th>Ø D (mm)</th>
<th>Version</th>
<th>Length</th>
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<tbody>
<tr>
<td>DFS</td>
<td>32</td>
<td>32</td>
<td>A</td>
<td>075</td>
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<tr>
<td>DFS</td>
<td>40</td>
<td>40</td>
<td>A</td>
<td>075</td>
</tr>
</tbody>
</table>

**Tightening torque:** 15 N·m

DIPSTICK

**Configuration example:** DPT [20] M10 [A] P01

**Materials**
- Screw: phosphatized steel
- Stick: phosphatized steel
- Handle: Polyamide

**Technical data**
- Working temperature: from -25 °C to +110 °C

<table>
<thead>
<tr>
<th>Series</th>
<th>Length</th>
<th>H (mm)</th>
</tr>
</thead>
<tbody>
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<td>134</td>
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<td>184</td>
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<tr>
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<td>35</td>
<td>334</td>
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</tbody>
</table>

**Seals**
- A: NBR
- V: FPM

**Execution**
- P01: MP Filtri standard
- Pxx: Customized

FILLER PLUG

**Materials**
- Body: Polyamide
- Seal: NBR

**Technical data**
- Tightening torque: 15 N·m

For any further information, please, contact our commercial dept.