Hydraulic Filtration
Product Range
Positioned on the return line to the tank, return filters perform the task of filtering fluid and preventing particles entering the system — unusually through an external source and loss of componen ts. These filters are normally located near the reservoir and on the pos itional filter or semi-immersion. For convenience it is possible to extract the filter element without disassembling the filter from the rest of the system.

Key features include:

- Easy filter element removal
- Semi-immersed filter with shut-off valve for side tank mounting, for convenience it is possible to extract the filter element without disassembling the filter from the rest of the system.
- Tank top semi-immersed filter, standard filter element removal

As working pressures are relatively low, these filter ranges are normally light yet still robust.

For convenience it is possible to extract the filter element without disassembling the filter from the rest of the system.

Easy/medium pressure filters deliver maximum protection from contamination. These filters are normally located near the reservoir and on the positional filter or semi-immersion.

Find your solution using our selection software:

mpfiltr.com

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>PSI</th>
<th>BAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPF 200, 300</td>
<td>Tank top semi-immersed filter, standard filter element removal</td>
<td>50</td>
<td>3.4</td>
</tr>
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<tr>
<td>MFBX 020, 030, 100, 180, 190</td>
<td>Element and bowl assembly with optional cover and/or shut-off valve, for different in-bowl applications</td>
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<tr>
<td>MFBX 020, 030, 100, 104, 200, 300, 660</td>
<td>Element and bowl assembly with optional cover and/or shut-off valve, for different in-bowl applications</td>
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<td>52</td>
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<tr>
<td>MPTX 025, 027, 110, 114, 116, 120, 400, 410, 450, 451, 750</td>
<td>Element and bowl assembly with optional cover and/or shut-off valve, for different in-bowl applications</td>
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<tr>
<td>MPTX 250, 660</td>
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</table>

Connections:

- UNI 2223 DN 100 PN 10/16
- hose barb ø12
- hose barb ø12 + hose barb ø12
- UNI 1149 DN 100 PN 63/100
- UNI 2223 DN 125 PN 10/16
- UNI 2223 DN 150 PN 10/16
- UNI 2223 DN 100 PN 10/16
- UNI 2223 DN 125 PN 10/16
- UNI 2223 DN 150 PN 10/16
- hose barb ø12 + hose barb ø12
- hose barb ø12 + hose barb ø12
- hose barb ø12 + hose barb ø12 + hose barb ø12
- hose barb ø12 + hose barb ø12 + hose barb ø12 + hose barb ø12
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- hose barb ø12 + hose barb ø12 + hose barb ø12 + hose barb ø12 + hose barb ø12 + hose barb ø12 + hose barb ø12
- UNI 1149 DN 125 PN 10/16
- hose barb ø12 + hose barb ø12 + hose barb ø12 + hose barb ø12 + hose barb ø12 + hose barb ø12 + hose barb ø12 + hose barb ø12

For convenience it is possible to extract the filter element without disassembling the filter from the rest of the system.

Key features include:

- Semi-immersed filter with shut-off valve for side tank mounting, easy filter element removal

Posioned on the return line to the tank, return filters perform the task of filtering fluid and preventing particles entering the system — unusually through an external source and loss of components. These filters are normally located near the reservoir and on the positional filter or semi-immersion. For convenience it is possible to extract the filter element without disassembling the filter from the rest of the system.

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For convenience it is possible to extract the filter element without disassembling the filter from the rest of the system.

Key features include:

- Semi-immersed filter with shut-off valve for side tank mounting, easy filter element removal

POS 200, 300, 400, 500, 600, 700, 800, 900, 1000

Connections:

- UNI 2223 DN 100 PN 10/16
- hose barb ø12
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POS 200, 300, 400, 500, 600, 700, 800, 900, 1000
Low & Medium Pressure Filters


### Type Description

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<tr>
<th>Type</th>
<th>Description</th>
<th>Note</th>
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<tbody>
<tr>
<td>LMP</td>
<td>Resin impregnated paper from 10 µm to 25 µm</td>
<td></td>
</tr>
<tr>
<td>LMD</td>
<td>Wire mesh from 25 µm to 90 µm</td>
<td></td>
</tr>
<tr>
<td>LMP</td>
<td>Inorganic micro/fibre from 3 µm to 25 µm</td>
<td></td>
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**Key Features:**
- Easy filter element removal
- Semi-immersed filter with shut-off valve for side tank mounting
- Tank top semi-immersed filter, standard filter element removal
- Element and bowl assembly with optional cover and hold-down

**Connections:**
- From SAE 6 - 9/16" - 18 UNF to SAE 32 - 2 1/4" - 12 UN
- From 3/4" NPT to 2" NPT
- Hose barb ø12
- UNI 2223 DN 100 PN 10/16
- from 1 1/4" SAE 3000 psi/UNC to 2" SAE 3000 psi/UNC
- from SAE 12 - 1 1/16" - 12 UN to SAE 24 - 1 7/8" - 12 UN
- from G3/4" to G2"

**Specifications:**
- **Pmax:**
  - Resin impregnated paper: 10 µm - 25 µm
  - Wire mesh: 25 µm - 90 µm
  - Inorganic micro/fibre: 3 µm - 25 µm
- **Qmax:**
  - Resin impregnated paper: 10 µm - 25 µm
  - Wire mesh: 25 µm - 90 µm
  - Inorganic micro/fibre: 3 µm - 25 µm
- **Particle**:
  - Resin impregnated paper: 10 µm - 25 µm
  - Wire mesh: 25 µm - 90 µm
  - Inorganic micro/fibre: 3 µm - 25 µm

**Design:**
- In-line filters specifically designed for multiple returns and bifurcated roles.
- In-line & return pressure filters: High flow rate.
- Low pressure filters: High flow rate.
- In-line filters, available with different filter types.
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**Applications:**
- Suitable for medium pressure applications, the LMP series has been designed to be mounted in series, in-line or in situ. They are also available in a duplex configuration to allow the contaminated section to be maintained without disruption even when the system is fully operational.
- They can be used either ‘off’ or ‘on’ in circulation lines.
- They are also available in various sizes, in exchanges, tests, mobiles, and maritime applications.
- In-line & return pressure filters are available with threaded or flanged connectors directly integrated into circuit control blocks / manifolds.
- In-line and duplex medium pressure filters are available with threaded or flanged connections directly integrated into circuit control blocks / manifolds.
- They are also available in duplex configurations to allow the contaminated section to be maintained without disruption while the system is fully operational.
- To choose from a selection of different filter elements.
- In-line low & medium pressure filters deliver maximum protection from contamination.
- Boasting a robust design, in-line housing and a wide choice of filter elements designed according to DIN 24550.

**Find Your Solution:**
- Visit mpfitri.com to find your solution using our selection software.
- ON WEB sites.
- Find your solution using our selection software on mpfitri.com.

**Key Information:**
- Energy losses: from 2 psi to 25 psi
- Flow rate: from 25 to 90 gpm
- Hose-reinforced paper: from 1.1 gpm to 25 gpm
- Particle removal ratio: according to ISO 12215.
High Pressure Filters

- Inorganic micro/fibre from 3 µm to 25 µm

Key features include:

- Spin-on filters are used on suction lines, and return lines.
- In-line low and medium pressure filters available with single elements for in-line or flange mounting
- Low pressure filter, available with single or dual CSG, CSGW, CS filters

- from 1 1/2" SAE 3000 psi/UNC to 4" SAE 3000 psi/UNC
- from 1 1/2" SAE 3000 psi/Metric to 4" SAE 3000 psi/Metric
- from SAE 16 - 1 5/16" - 12 UN to SAE 24 - 1 7/8" - 12 UN
- from 3/8" (G/NPT) to 3" (G/NPT)

Connections:
- Direct mounting bowl & element into manifold block
- Manifold side "A"
- Manifold side "B"
- M22x1.5 - ISO 6149
- from SAE 5 - 1/2" - 20 UNF to SAE 20 - 1 5/8" - 12 UN
- from 3/4" NPT to 1" NPT
- from G3/4" to G1"

A wide variety of applications, including elements sensitive, high barriers and the marine and industrial sections.

Key Features Include:
- Inorganic micro/fibre from 3 µm to 25 µm
- Key features include:
- Direct mounting bowl & element into manifold block
- Connections:
- from SAE 5 - 1/2" - 20 UNF to SAE 20 - 1 5/8" - 12 UN
- The internal pressure of the filter and the absolute filtration offer outstanding protection from pump cavitation.
- They are equipped with a valve which maintains 0.5 bar (7.25 PSI) within the filter.
- In-line or manifold mounting filters designed to assemble the plant or system is in operation without any interruption to the working cycle.
- A wide range of models is available to satisfy all needs - direct mounting bowl & element into manifold block
- A wide range of models is available to satisfy all needs - manifold, with connection for differential indicator on mpfilter.com.
- Semi-submerged positive head suction filter, high flow rate, tank side or bottom
- Semi-submerged positive head suction filter, low flow rate, tank side or bottom
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- A wide range of models is available to satisfy all needs - manifold, with connection for differential indicator on mpfilter.com.
Stainless steel construction ensures peak protection when operating in corrosive environments or when dealing with aggressive fluids. Key features include:

- Inorganic micro/fibre from 3 µm to 25 µm
- Duplex pressure filters for continuous operation
- High pressure filters with intermediate manifold construction
- High pressure filters for mobile applications
- High pressure filters for industrial applications, low flow rate

CETOP design - manifold side "B"

Typical high pressure filters for mobile applications
- from 3/4" SAE 3000 psi/UNC to 2" SAE 3000 psi/UNC
- from SAE 6 - 9/16" - 18 UNF to SAE 24 - 1 7/8" - 12 UN


Connections:
- Wire mesh from 25 µm to 90 µm
- Resin impregnated paper from 10 µm to 25 µm
- Inorganic micro/fibre from 3 µm to 25 µm

Key features include:
- Magnetic, micron from 3 µm to 25 µm
- Hose barb from 2" Metric to 4" Metric
- from 3/8" (G/NPT) to 3" (G/NPT)

See Catalog MSH 050, 070, 100, 150
MRSX 116, 165, 166
LMP124
MPA - MPM 012, 015, 025, 030, 040, 140, 150
STR 045, 050, 065, 070, 086, 100, 115, 125, 140, 150, 175, 200
STRB-STM 005, 010, 015, 025, 030, 040, 050, 065, 070, 080, 090, 100, 115, 125, 140, 150, 160, 175, 200

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- Pressure switches and gauges
- Vacuum switches and gauges
- Clogging indicators which trip when the clogging causes an increase in pressure drop across the element.

This can be achieved by using filter housing equipped with clogging indicators. A percentage of the fluid that returns to tank is filtered by the return line filter, this is commonly used in hydrostatic transmission machines where they have a dual charge pump.
Inorganic micro-fibre from 3 µm to 25 µm

Key features include:
- mobile, test benches and the maritime and industrial sectors.
- from small to large flow rates - with a choice of filter.
- direct mounting bowl & element into manifold block.
- from 1 1/2" SAE 6000 psi/M to 2" SAE 6000 psi/M
- from 3/4" SAE 3000 psi/UNC to 2" SAE 3000 psi/UNC
- from 3/4" SAE 3000 psi/M to 4" SAE 3000 psi/M

Connections:
- 1/4" SAE 6000 psi/M
gpml/min
- 1/2" SAE 6000 psi/M
gpml/min
- 3/8" SAE 6000 psi/M
gpml/min
- 1/4" SAE 3000 psi/M
- 1/2" SAE 3000 psi/M
- 3/8" SAE 3000 psi/M
- 1/4" SAE 1500 psi/M
- 1/2" SAE 1500 psi/M
- 3/8" SAE 1500 psi/M
- 1/4" SAE 900 psi/M
- 1/2" SAE 900 psi/M
- 3/8" SAE 900 psi/M
- 1/4" SAE 500 psi/M
- 1/2" SAE 500 psi/M
- 3/8" SAE 500 psi/M

Stainless Steel High Pressure Filters

Created especially for mobile applications, MP Filtri's type filters are designed to withstand high pressure, flow rates, and temperatures, while in-service maintenance is also taken into consideration for effective and easy serviceability. They are equipped with a bypass valve and/or clogging indicators. The filter element is either a sintered metallic filter or a sintered metallic filter with a sintered metallic filter element. The element is made up of various sintered metallic filter elements sandwiched in the intermediate layer of a filter. This Element is then supported by the filter body located at the flange end of the filter. These pressure filters are available in various flow rates.

The advantage of this type of filtration is that it needs no maintenance, which means that the filter can be changed reducing downtime and labour costs. This is especially advantageous in mobile machinery where a filter change often needs to be done in the field.

Filter elements are only efficient if their dirt-holding capacity is not exceeded. Therefore, a percentage of the fluid that returns to tank is filtered by the return line filter, this is called the return line filter.
**In-line Duplex High Pressure Filters**

- **Description:** High pressure filters with intermediate manifold construction, designed for industrial applications with low flow rates.
- **Key Features:**
  - Robust build quality.
  - Sized according to specific flow rate requirements.
  - Suitable for steelworks and maritime applications.

**In-Line Low and Medium Pressure Filters**

- **Description:** Unique in-line filter for mobile machinery, featuring a combined tank and control block design.
- **Applications:** Ideal for transmissions in closed circuits.
- **Key Features:**
  - Combined tank and control block.
  - Designed for mobile machinery.

**Tank Top Filters**

- **Description:** Unique tank top filter for mobile machinery, combining tank and control block functions.
- **Applications:** Suitable for transmissions in closed circuits.
- **Key Features:**
  - Combined tank and control block.

**Suction Strainers**

- **Description:** Suction strainers, with or without magnetic columns, providing protection from pump cavitation.
- **Applications:** Suitable for transmissions in closed circuits.
- **Key Features:**
  - Protection against pump cavitation.
  - Magnetic columns for ferrous particles.

**Suction Filters**

- **Description:** Suction filters, with or without magnetic columns, offering protection from pump cavitation.
- **Applications:** Suitable for transmissions in closed circuits.
- **Key Features:**
  - Protection against pump cavitation.
  - Magnetic columns for ferrous particles.

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<th>psi/bar</th>
<th>Qmax (gpm)</th>
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<tbody>
<tr>
<td>SF1</td>
<td>Suction filter with or without magnetic column, internal tank mounting</td>
<td>100</td>
<td>30</td>
</tr>
<tr>
<td>SF2</td>
<td>Suction filter with or without magnetic column, external tank mounting</td>
<td>200</td>
<td>50</td>
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<tr>
<td>SF3</td>
<td>Suction filter, with or without magnetic column</td>
<td>300</td>
<td>90</td>
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<tr>
<td>SF4</td>
<td>Suction filter, with or without magnetic column</td>
<td>400</td>
<td>120</td>
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<tr>
<td>SF5</td>
<td>Suction filter, with or without magnetic column</td>
<td>500</td>
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<td>SF22</td>
<td>Suction filter, with or without magnetic column</td>
<td>2200</td>
<td>1710</td>
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<tr>
<td>SF23</td>
<td>Suction filter, with or without magnetic column</td>
<td>2300</td>
<td>1800</td>
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**Connection Options:**

- SAE 16 - 1 5/16" - 12 UN to SAE 24 - 1 7/8" - 12 UN
- SAE 30 - 1" - 16 UN to SAE 30 - 1 1/4" - 16 UN
- SAE 30 - 1 1/4" - 16 UN to SAE 30 - 1 1/2" - 16 UN
- SAE 30 - 1 1/2" - 16 UN to SAE 30 - 2" - 16 UN

**Spool Ports:**

- 1/2" NPT

**Differential Pressure Indicators and Transmitter:**

- Available with differential pressure indicators and transmitter options.

**Pump Protection:**

- The alarm indicator is set to activate before the filter reaches its maximum pressure drop.

**Flow Rate:**

- Maximum flow rate is limited to around 365 l/min, 96 gpm, to keep pressure no more than 50 psi.

**Quality Assurance:**

- MP Filtri's spin-on filters are designed for mobile applications, ensuring high durability and protection against aggressive fluids.

**Selection Software:**

- Find your solution using our selection software on mpfiltri.com.
Low & Medium Pressure Filters

LDP - LDD 016, 025, 040
LMD 951
LMD 400, 401, 431
LMP 952, 953, 954
LMP 950, 951
LMP 400, 401, 430, 431
LMP 210, 211
118, 119, 120, 122, 123

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<tr>
<td>Resin impregnated paper from 10 µm to 25 µm</td>
<td>from 1 1/4&quot; SAE 3000 psi/Metric to 4&quot; SAE 3000 psi/Metric</td>
</tr>
<tr>
<td>Wire mesh from 25 µm to 90 µm</td>
<td>from SAE 12 - 1 1/16&quot; - 12 UN to SAE 24 - 1 7/8&quot; - 12 UN</td>
</tr>
<tr>
<td>Inorganic microfibre from 3 µm to 25 µm</td>
<td>from 3/4&quot; NPT to 2&quot; NPT</td>
</tr>
</tbody>
</table>

Key features include:

- In-line filter specifically designed to be mounted in series, according to DIN 24550
- In-line low pressure filter, filter elements designed according to DIN 24550
- In-line low & medium pressure filter, high flow rate connections
- Return Filters
- In-line duplex low pressure filter
- In-line duplex medium pressure filter
- Semi-immersed filter with shut-off valve for side tank mounting, can also be used as an in-line filter
- Tank top semi-immersed filter, standard filter element removal
- Element and bowl assembly with optional cover and hold-down spring for dirtbox or molded tank applications
- The position of the filters ensures returning fluid takes place in an immersed condition in all operating conditions - preventing malfunctions or cavitation in the pumps.

As working pressures are relatively low, these filter ranges are normally fixed to the reservoir and are posited for the task of filtering fluid and preventing particles entering the steelworks, test bench, mobile and maritime applications.

The filters deliver maximum protection from contamination.

Customers can also choose from a selection of different filter elements designed according to DIN 24550.