Low & Medium Pressure Filters

LMP 902, 903
LMP 900, 901
LDP - LDD 016, 025, 040
LMD 951
LMD 211
LMP 952, 953, 954
LMP 950, 951
LMP 400, 401, 430, 431
LMP 210, 211
118, 119, 120, 122, 123

TYPE DESCRIPTION psi bar

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

Key features include:
- Easy filter element removal
- Fully-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; spring for dirtbox or molded tank applications
- Element and bowl assembly with optional cover and hold-down
- Recessed bowl assembly for use in cavitation or cavitation environments
- Tank top semi-immersed filter, standard filter element removal
- Filter element with optional cover and hold-down
- Filter element with optional cover and hold-down
- Filter element with optional cover and hold-down
- Filter element with optional cover and hold-down
- Filter element with optional cover and hold-down

Connections:
- Hose barb ø12
- From 1 1/4" SAE 3000 psi/UNC to 4" SAE 3000 psi/UNC
- From 1 1/4" SAE 3000 psi/Metric to 4" SAE 3000 psi/Metric
- From SAE 6 - 9/16" - 18 UNF to SAE 32 - 2 1/4" - 12 UN
- From 3/4" NPT to 2" NPT

Pmax

Qmax
**Low & Medium Pressure Filters**

<table>
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<th>Description</th>
<th>Comparison</th>
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<tr>
<td>LMP 900, 901</td>
<td>LDP - LDD 016, 025, 040</td>
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<tr>
<td>LMD 951</td>
<td>LMP 952, 953, 954</td>
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<tr>
<td>LMD 211</td>
<td>LMP 210, 211</td>
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<tr>
<td>118, 119, 120, 122, 123</td>
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</tr>
</tbody>
</table>

**Types and Descriptions**

- **Wire mesh from 25 µm to 90 µm**
- **Inorganic micro/fibre from 3 µm to 25 µm**

They can also be used 'off-line' for recirculation or lubrication to allow the contaminated section to be maintained without manifolds. They are also available in a duplex configuration connections directly integrated into circuit control blocks / LMP filters are available with threaded or flanged steelworks, test bench, mobile and maritime applications.

Designed for a wide range of industrial sectors, like or medium pressure applications, the LMP series has been mounted in-line along the hydraulic circuit in a variety of low and choose from a selection of different filter elements.

Sure, customers can also specify small to large flow rates models to suit all needs. Available in low and medium pres- of accessories, the LMP series offers a diverse range of filters deliver maximum protection from contamination.

**Key features:**
-Portable microfiltration from 3 µm to 25 µm
- Wide range from 25 µm to 90 µm
- Ease filter element removal

Connections:
- from 1 1/4" SAE 3000 psi/UNC to 4" SAE 3000 psi/UNC
- from SAE 12 - 1 1/16" - 12 UN to SAE 24 - 1 7/8" - 12 UN
- from 3/4" NPT to 2" NPT
- from G3/4" to G4"

### Table: Filter Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Pmax</th>
<th>Qmax</th>
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<tbody>
<tr>
<td>MPTX</td>
<td>Tank top semi-immersed filter, standard filter element removal</td>
<td>290</td>
<td>300</td>
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<tr>
<td>MPFX</td>
<td>Tank top semi-immersed filter, standard filter element removal</td>
<td>792</td>
<td>870</td>
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<tr>
<td>MBX</td>
<td>Tank top semi-immersed filter, standard filter element removal</td>
<td>101</td>
<td>110</td>
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<td>MFTX</td>
<td>In-line duplex pressure filter, standard filter element removal</td>
<td>3000</td>
<td>3300</td>
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<tr>
<td>MBFX</td>
<td>In-line duplex pressure filter, standard filter element removal</td>
<td>87</td>
<td>105</td>
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<tr>
<td>MFX</td>
<td>In-line duplex pressure filter, standard filter element removal</td>
<td>180</td>
<td>200</td>
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<tr>
<td>MF1</td>
<td>In-line low pressure filter, standard filter element removal</td>
<td>350</td>
<td>385</td>
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<tr>
<td>MF2</td>
<td>In-line low pressure filter, standard filter element removal</td>
<td>793</td>
<td>870</td>
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<tr>
<td>MF3</td>
<td>In-line low pressure filter, standard filter element removal</td>
<td>396</td>
<td>435</td>
</tr>
</tbody>
</table>
Low & Medium Pressure Filters

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

Key features include:
- They can also be used ‘off-line’ for recirculation or lubrication disruption even when the system is fully operational.
- To allow the contaminated section to be maintained without manifolds. They are also available in a duplex configuration connections directly integrated into circuit control blocks / manifold.

LMP filters are available with threaded or flanged steelworks, test bench, mobile and maritime applications.

The correct filter size will depend on the presence of accumulators, accumulators or cylinders which can increase the return flow considerably.

For convenience it is possible to extract the filter element without disconnecting the filter from the rest of the system - externally or from internal wear and tear of components.

The position of the filters ensures returning fluid takes place in mentioned fully or semi-immersed.

These filters are normally fixed to the reservoir and are positioned on the return line to the tank, return filters perform the task of filtering fluid and preventing particles entering the system.

Positioned on the return line to the tank, return filters perform the task of filtering fluid and preventing particles entering the system.

The creation of foams and vortexes in the tank that can cause malfunctions or cavitation in the pumps.

As working pressures are relatively low, these filter ranges are particularly suitable for such applications.

Since 1964

Canada

United Kingdom

China

India

Germany

Russia

France

HQ

Pmax

Qmax

Connections:

- UNI 2223 DN 100 PN 10/16
- hose barb ø12
- from 3/4" SAE 3000 psi/UNC to 2" SAE 3000 psi/UNC
- from UNI 2223 to G3/4"
- from inch to metric
- from 1 1/4" SAE 3000 psi/UNC to 4" SAE 3000 psi/UNC
- from 3/4" NPT to 2" NPT
- from G3/4" to G2"

- from 3/4" SAE 3000 psi/Metric to 2" SAE 3000 psi/Metric
- from 1 1/4" SAE 2000 psi to 4" SAE 3200 psi
- from SAE 6 - 9/16" - 18 UNF to SAE 32 - 2 1/4" - 12 UN
- from 1 1/4" SAE 1200 psi to 4" SAE 3600 psi
- from UNI 2223 to G3/4"
- from inch to metric
- from 1 1/4" SAE 3000 psi/UNC to 4" SAE 3000 psi/UNC
- from 3/4" NPT to 2" NPT
- from G3/4" to G2"
These filters have been created for high pressure circuits to the working cycle. The plant or system is in operation without any interruptions to enable the contaminated section to be maintained even when operating in corrosive environments or when from small to large flow rates - with a choice of filtration from 3 µm to 90 µm. 

They are also available in duplex configuration to enable the contaminated section to be maintained even when the plant or system is in operation. They 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. Spin-on filters are used on suction lines, and return lines.

Connections:
- 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"

Key features include:
- Resin impregnated paper from 10 µm to 25 µm
- Wire mesh from 25 µm to 90 µm
- Inorganic microfibre from 3 µm to 25 µm
- Tank wall-mounted suction filters - which are easier to maintain when the transmission pump.

They are equipped with a magnetic column for retaining ferrous particles. The alarm indicator is set to activate before the element is fully clogged. This can be achieved by using filter housing equipped with clogging indicators. The element is then attached to the filter head by a cartridge includes a filter element contained within a durable metal cannister. The filtration function - serving both the return line and the suction line of the hydraulic transmission pump.

Return/Suction Filters

MST 050, 070, 100, 150

MRSX 116, 165, and 166

LMP124 key features include:
- Inorganic microfibre from 10 µm to 25 µm
- Resin impregnated paper from 10 µm to 25 µm
- Wire mesh from 25 µm to 90 µm
- Inorganic microfibre from 3 µm to 25 µm

THE NEW FILTER CONCEPT

Duplex pressure filter for continuous operation

Manifold top mounting

Unique IN-LINE filter for mobile machinery, with combined transmissions in closed circuit

Filter optimized for use in high pressure systems

High pressure filter with 100-µm stainless steel screen

High pressure filter with 100-µm stainless steel screen

High pressure for side-mounted mounting

Filter for side-mounted mounting

At or near satisfied maximum pressure in the application

LMP 026, 030, 035

LMP 026, 030, 035

LMP 026, 030, 035
Inorganic micro/fibre from 3 µm to 25 µm into circuit control blocks / manifolds. High Pressure Filters are available with threaded, flanged elements to ensure maximum circuit protection. A wide range of models is available to satisfy all needs - from small to large flow rates - with a choice of filter elements located directly downstream of the filters, such as servovalves. These filters have been created for high pressure circuits, in systems with applications including transmissions in closed circuit transmissions in hydrostatic transmission machines or mobile machinery, where a filter change often needs to be done in the field. Spin-on filters are used on suction lines and return lines.

Connections:
- with autoclave 20k psi: 9/16" - 18 UNF and 3/4" - 14 NPS
- manifold, with connection for differential indicator
- from 3/4" NPT to 1" NPT
- from G3/4" to G1"

The internal pressure of the filter and the absolute filtration offer outstanding protection against contamination. They are equipped with a valve which maintains 0.5 bar (7.25 PSI) within the filter. The pressure difference or the piezometric thrust of the fluid and to reduce the risk of cavitation.

Stainless steel construction ensures peak protection when operating in corrosive environments or items dealing with aggressive fluids. Featuring robust built quality, these filters have been specifically designed to filter under high working pressures. Filters are equipped with a bypass valve and/or clogging indicators. The filtration offers outstanding protection and are normally placed under the fluid head to take advantage of the piezometric thrust of the fluid.

Typical high pressure filters for mobile applications, wide flow range - direct mounting bowl & element into manifold block - M22x1.5 - ISO 6149 - with connections 26 un 9/16" - 18 UNF and 5/8" - 12 UN. Stainless Steel High Pressure Filters

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>PRE</th>
<th>Qmax</th>
<th>Qmax</th>
</tr>
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<tbody>
<tr>
<td>FPD 028, 030</td>
<td>In-line filter with screwed-mount</td>
<td>125</td>
<td>1600</td>
<td>508</td>
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<tr>
<td>FPD S41B, S41C</td>
<td>In-line filter with screwed-mount for high pressure</td>
<td>750</td>
<td>11250</td>
<td>508</td>
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<tr>
<td>FPD 017</td>
<td>In-line filter with screwed-mount with 1500 bar</td>
<td>1300</td>
<td>15250</td>
<td>508</td>
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<tr>
<td>TFX</td>
<td>Manifold side mounting</td>
<td>390</td>
<td>6307</td>
<td>508</td>
</tr>
<tr>
<td>TFXL</td>
<td>Mounting lip</td>
<td>390</td>
<td>6307</td>
<td>508</td>
</tr>
<tr>
<td>FPD 028, 030, 031</td>
<td>High pressure filter for continuous operation</td>
<td>125</td>
<td>1600</td>
<td>508</td>
</tr>
</tbody>
</table>

Find your solution using our selection software on mpftri.com or our selection software on mpftri.com.
Inorganic micro-fibre from 3 µm to 25 µm into circuit control blocks / manifolds.

- From small to large flow rates - with a choice of filter

A wide range of models is available to satisfy all needs - servovalves.

- Especially designed to thrive under high working pressure where they are positioned.

Located downstream of the pump, High Pressure Filters are specifically designed to withstand high pressure lines where they are positioned.

### Type Description psi bar

#### In-line or manifold mounting conforms to HF4 specification

Typical high pressure filter for mobile applications, wide flow range

- M22x1.5 - ISO 6149

- 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

Connections:

- 350
- 320
- 700
- 5076
- 450
- 320
- 80
- 535
- 80
- 80

- 1595
- 6091
- 4641

#### Manifold top mounting

In-line pressure filter with threaded mount up to 1000 bar

Key features include:

- High pressure, low flow rate applications

- Stainless steel construction ensures peak protection and offers exceptional protection to sensitive components

Stainless Steel High Pressure Filters

- Resin impregnated paper from 10 µm to 25 µm

- Inorganic micro-fibre from 10 µm to 25 µm

LMP124 key features include:

- Inorganic micro-fibre from 3 µm to 25 µm

- Tank wall-mounted suction filters - which are easier to maintain when the system is fully exploited.

- Designed especially for mobile applications, MP Filtri's spin-on filters are designed to withstand high flow rates, high flow rates and ensuring a safe and efficient operation of the equipment.

#### Return/Suction Filters

- Suction strainer, with or without bypass or magnetic column

- Suction strainer with or without bypass, external tank mounting

- Tank wall-mounted suction filters

- Field. Spin-on filters are used on suction lines and return lines.

- Created especially for mobile applications, MP Filtri's spin-on filters are designed to withstand high flow rates, high flow rates and ensuring a safe and efficient operation of the equipment.

#### Pressure switches and gauges

- Vacuum switches and gauges

#### Return/Line Filters

- High pressure tank mounted filter (CT) with anti-drain element

- Low pressure tank mounted filter (CH)

- Unique IN-LINE filters for mobile machinery, with combined filtration function - serving both the return line and the suction line of the hydraulic transmission system.

- Unique TANK TOP filters for mobile machinery, with combined filtration function - serving both the return line and the suction line of the hydraulic transmission system.

#### Spin-On Filters

- Low pressure tank mounted filter (CT) with anti-drain element

- Low pressure tank mounted filter (CH)

- 1 1/2" SAE 3000 psi/UNC

- from SAE 16 - 1 5/16" - 12 UN to SAE 24 - 1 7/8" - 12 UN

- from 3/4" NPT to 1" NPT

#### Low pressure tank mounted filter (CH)

- 1"-2" NPT Thread

- 1/2"-1" NPT Thread

- from G3/4" to G1"
Positioned around the pump, Suction Filters and strainers protect it from contamination, ensuring smooth operation and filter life extend the pump suction line.

They are equipped with a magnetic element for removing ferrous particles and are normally closed under the fluid head to prevent accidental operation. The elements are located in the front and are easily removed for replacement.

There are two types of suction filters:

- Suction strainer - a ceramic filter element screwed in the suction line.
- Tank wall-mounted suction filter - which are easier to maintain when the tank wall is removed.

Key features include:

- Filter elements are pre-cleaned to ensure effective filtration.
- The filter body is designed for easy maintenance and cleaning.
- The filter is compatible with a wide range of fluids and applications.
- The filter can be easily changed, reducing downtime and labor costs.

**Filter Specifications**

- **Pmax** (Maximum Pressure):
  - Type SF: Up to 350 bar (5,076 psi)
  - Type SF: Up to 320 bar (4,641 psi)
- **Qmax** (Maximum Flow Rate):
  - Type SF: Up to 145 gpml/min (9,100 l/min)
  - Type SF: Up to 140 gpml/min (8,122 l/min)

**Connections**

- from 3/4" NPT to 1" NPT
- from 1 1/4" SAE 3000 psi/UNC to 1 1/2" SAE 3000 psi/UNC
- from 3/4" NPT to 1" NPT
- from G3/4" to G1"
- from 3/4" SAE 3000 psi/M to 4" SAE 3000 psi/M
- from SAE 6 - 9/16" - 18 UNF to SAE 24 - 1 7/8" - 12 UN
- from 3/4" NPT to 1" NPT
- from G3/4" to G1"
Low & Medium Pressure Filters

LMP 902, 903
LMP 900, 901
LDP - LDD 016, 025, 040
LMD 951
LMD 211
LMP 952, 953, 954
LMP 950, 951
LMP 400, 401, 430, 431
LMP MULTIPORT 110, 112, 116,

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

Key features include:

- Fully-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.
- Easy filter element removal.

Normal light yet still robust. As working pressures are relatively low, these filter ranges are normally fixed to the reservoir and are positioned on the return line to the tank. Return filters perform as immersed filters in all operating conditions, preventing malfunctions or cavitation in the pumps. They can also be used 'off-line' for recirculation or lubrication to allow the contaminated section to be maintained without disconnecting the filter from the rest of the system. For convenience it is possible to extract the filter element normally without removing the filter. For this reason, return filters are normally designed according to DIN 24550, while pressure filters are specifically designed to be mounted in parallel, according to DIN 24550.

In-line duplex pressure filter designed according to DIN 24550
In-line duplex low pressure filter
In-line duplex medium pressure filter
In-line low & medium pressure filter, high flow rate
In-line low & medium pressure filter, low flow rate
In-line filter with Multiport design for multiple choice connections directly integrated into circuit control blocks / LMP filters are available with threaded or flanged in-line housing along the hydraulic circuit in a variety of low and medium pressure models to suit all needs. Available in low and medium pressure elements such as servo and proportional valves, LMP series filters protect the most sensitive regulation and control components.

Connections:
- hose barb ø12
- UNI 2223 DN 100 PN 10/16
- hose barb ø16
- from 1 1/4" SAE 3000 psi/UNC to 4" SAE 3000 psi/UNC
- from SAE 6 - 9/16" - 18 UNF to SAE 32 - 2 1/4" - 12 UN
- from G3/4" to G2"
- from 1 1/4" SAE 3000 psi/M to 4" SAE 3000 psi/M
- from SAE 12 - 1 1/16" - 12 UN to SAE 24 - 1 7/8" - 12 UN

Pmax
Qmax

gpm/min

793 145 116 290
528 290 290 1500
132 145 290 2000
195 116 750 1200
87 116 330 870
53 116 330 870

1160 290 435 870
232 870 362 870
870 3000 2000 1200