LMP 124 series
MULTI-PORT

Maximum working pressure up to 8 MPa (80 bar) - Flow rate up to 120 l/min
LMP 124 is a range of return/suction filters for hydraulic systems with two or more circuits (both open and closed loops). They are able to provide pressurized oil cleaned by fine filtration to the feed pump of the hydrostatic systems. They are directly connected to the lines of the system through the hydraulic fittings.

**Available features:**
- Female threaded connections up to 1", for a maximum return flow rate of 120 l/min
- Fine filtration rating, to get a good cleanliness level into the reservoir
- Bypass valve to the tank, to relieve excessive pressure drop across the filter media when the return flow is enough higher than the suction flow
- Bypass valve to the suction line with additional suction filter element, to relieve excessive pressure drop across the filter media when the return flow is not enough higher than the suction flow
- De-pressurization valve, to reduce the pressure inside the filter during the maintenance operations
- Visual, electrical and electronic differential clogging indicators

**Common applications:**
Mobile machines with hydrostatic systems on board.
(i.e. skid steer loaders, telehandlers, dumpers, road sweepers)

**Filter housing materials**
- Head: Aluminium
- Housing: Cataphoresis - Painted steel
- Bypass valve: Brass - Aluminium

**Pressure**
- Test pressure: 12MPa (120 bar)
- Burst pressure: 38 MPa (380 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 80 bar (8 MPa)

**Bypass valve**
- Opening pressure 250 kPa (2.5 bar) ±10%
- Other opening pressures on request.

**Δp element type**
- Microfibre filter elements - series N - W: 20 bar
- Fluid flow through the filter element from OUT to IN.

**Seals**
- Standard NBR series A
- Optional FPM series V

**Temperature**
From -25 °C to +110 °C

**Note**
LMP124 filters are provided for vertical mounting

**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 1</td>
<td>2</td>
</tr>
<tr>
<td>LMP 124</td>
<td>1.70</td>
<td>1.90</td>
</tr>
</tbody>
</table>
Maximum flow rate for a complete return/suction filter with a pressure drop $\Delta p = 1.2$ bar.
The reference fluid has a kinematic viscosity of 30 mm$^2$/s (cSt) and a density of 0.86 kg/dm$^3$.
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.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.
Filter housings Δp pressure drop

Bypass valve pressure drop

Valves

Filter length: 1 - 2 - 3 - 4

STYLE C - D - E - F

STYLE G - H

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

<table>
<thead>
<tr>
<th>Filter length</th>
<th>H [mm]</th>
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<tbody>
<tr>
<td>1</td>
<td>182</td>
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<tr>
<td>2</td>
<td>215</td>
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<tr>
<td>3</td>
<td>265</td>
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<td>4</td>
<td>365</td>
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<table>
<thead>
<tr>
<th>Connections</th>
<th>R</th>
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<tbody>
<tr>
<td></td>
<td>B</td>
</tr>
<tr>
<td></td>
<td>F</td>
</tr>
<tr>
<td>B</td>
<td>M10</td>
</tr>
<tr>
<td>F</td>
<td>3/8” UNC</td>
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</tbody>
</table>

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**Connection for differential indicator**

**Connection for clogging indicator**

**Recommended clearance space for maintenance**

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**O80**

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**Connections**

- **R**
  - M10

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**Recommended clearance space for maintenance**

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**Front OUT**

**Side OUT**

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**Connection for differential indicator**

- T2 plug not included

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**Connection for clogging indicator**

- G - depth 12 mm
  - Nr. 3 holes
Order number for spare parts

**LMP 124 MULTIPORT**

### Item: Filter series
- **Filter element**
- **Seal Kit code number**
- **Indicator connection plug**

<table>
<thead>
<tr>
<th>Item</th>
<th>Filter series</th>
<th>Q.ty: 1 pc.</th>
<th>Q.ty: 1 pc.</th>
<th>Q.ty: 1 pc.</th>
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<td>See order table</td>
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