



Filtro MP  
Serie LMP 124



 HYDRAULIC  
COMPONENTS  
& FLUID CONTAMINATION  
CONTROL

# LMP 124 series

MULTI-PORT

Maximum working pressure up to 8 MPa (80 bar) - Flow rate up to 120 l/min



## Description

## Technical data

Return / Suction filter

In-line

**Maximum working pressure up to 8 MPa (80 bar)**  
**Flow rate up to 120 l/min**

LMP124 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: 12 MPa (120 bar)
- Min. Burst pressure: 24 MPa (240 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 8 MPa (80 bar)

### Bypass valve

- Opening pressure 0.25 MPa (2.5 bar) ±10%
- Other opening pressures on request.

### Filter element features

Filter <b>LMP 124</b>		Filter element <b>CU</b>	
<b>Δp Element type</b>			
Element media	Construction	Δp Series	Δp
A - Microfiber	Standard	N	20 bar
M - Wire mesh	Standard	N	20 bar
P - Paper	Standard	N	20 bar
<i>Please see ordering code tables to check element Δp series availability based on filter features.</i>			
<b>Flow direction through the filter element:</b>			
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 [dm<sup>3</sup>]

Filter series	Weights [kg]					Volumes [dm <sup>3</sup> ]				
	Length	1	2	3	4	Length	1	2	3	4
<b>LMP 124</b>		1.70	1.90	2.20	2.70		0.75	0.81	1.11	1.53

Flow rates [l/min]

Filter series	Length	Filter element design - N series							
		A03	A06	A10	A16	A25	M25 M60 M90	P10	P25
<b>LMP 124</b>	<b>1</b>	39	41	58	60	69	99	84	85
	<b>2</b>	47	53	68	69	77	99	90	91
	<b>3</b>	59	61	73	77	86	99	92	93
	<b>4</b>	70	78	84	86	93	100	94	95

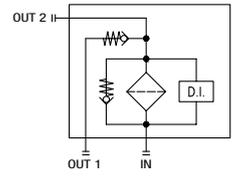
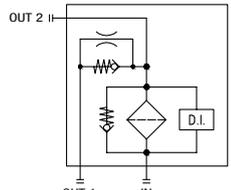
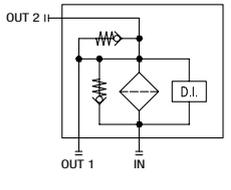
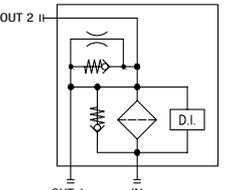
**Maximum flow rate for a complete return/suction filter with a pressure drop  $\Delta p = 1.2$  bar.**

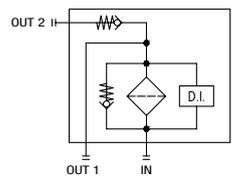
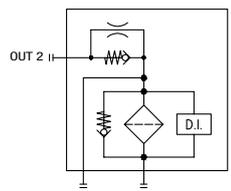
The reference fluid has a kinematic viscosity of 30 mm<sup>2</sup>/s (cSt) and a density of 0.86 kg/dm<sup>3</sup>.

For different pressure drop or fluid viscosity we recommend to use our selection software available on [www.mpfiltri.com](http://www.mpfiltri.com).

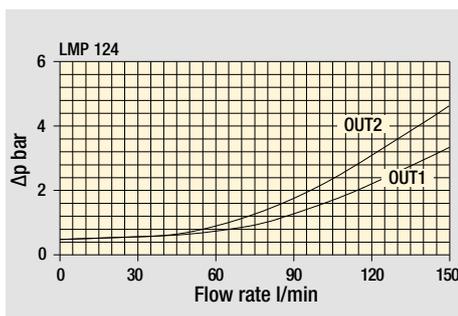
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Hydraulic symbols - Valves option

Multiport	Valves C option	Valves D option	Valves E option	Valves F option
 <p><b>IN</b> - Return <b>OUT 1</b> - Tank <b>OUT 2</b> - Pump</p>				

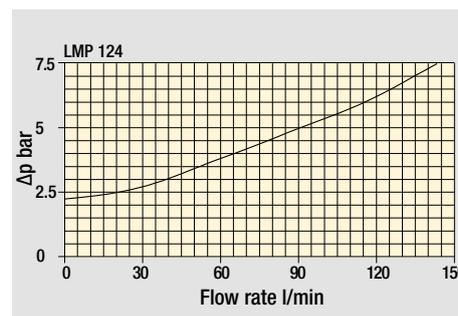
Multiport	Valves G option	Valves H option
 <p><b>IN</b> - Return <b>OUT 1</b> - Pump <b>OUT 2</b> - Tank</p>		

Filter housings  $\Delta p$  pressure drop



OUT 1: Valves option G/H  
OUT 2: Valves option C/D/E/F

Bypass valve pressure drop



Pressure drop

## Designation & Ordering code

### COMPLETE FILTER

<b>Series and size</b>	Configuration example: <b>LMP124</b>   <b>4</b>   <b>C</b>   <b>A</b>   <b>F</b>   <b>1</b>   <b>A10</b>   <b>N</b>   <b>P01</b>																			
<b>LMP124</b>																				
<b>Filter length</b>	1   2   3   4																			
<b>Hydraulic diagram configuration</b> - see page 289	C   D   E   F   G   H																			
<b>Seals and treatments</b>	A NBR V FPM																			
<b>Connections</b>	B G 1" F SAE 16 - 1 5/16" - 12 UN																			
<b>Connection for indicator</b>	1 Without 2 With connection G 1/8" for clogging indicator 3 With connection G 1/4" for clogging indicator 4 With connection for differential pressure indicator																			
<b>Filtration rating (filter media)</b>	<table border="0"> <tr> <td><b>A03</b> Inorganic microfiber 3 µm</td> <td><b>M25</b> Wire mesh 25 µm</td> </tr> <tr> <td><b>A06</b> Inorganic microfiber 6 µm</td> <td><b>M60</b> Wire mesh 60 µm</td> </tr> <tr> <td><b>A10</b> Inorganic microfiber 10 µm</td> <td><b>M90</b> Wire mesh 90 µm</td> </tr> <tr> <td><b>A16</b> Inorganic microfiber 16 µm</td> <td><b>P10</b> Resin impregnated paper 10 µm</td> </tr> <tr> <td><b>A25</b> Inorganic microfiber 25 µm</td> <td><b>P25</b> Resin impregnated paper 25 µm</td> </tr> </table>										<b>A03</b> Inorganic microfiber 3 µm	<b>M25</b> Wire mesh 25 µm	<b>A06</b> Inorganic microfiber 6 µm	<b>M60</b> Wire mesh 60 µm	<b>A10</b> Inorganic microfiber 10 µm	<b>M90</b> Wire mesh 90 µm	<b>A16</b> Inorganic microfiber 16 µm	<b>P10</b> Resin impregnated paper 10 µm	<b>A25</b> Inorganic microfiber 25 µm	<b>P25</b> Resin impregnated paper 25 µm
<b>A03</b> Inorganic microfiber 3 µm	<b>M25</b> Wire mesh 25 µm																			
<b>A06</b> Inorganic microfiber 6 µm	<b>M60</b> Wire mesh 60 µm																			
<b>A10</b> Inorganic microfiber 10 µm	<b>M90</b> Wire mesh 90 µm																			
<b>A16</b> Inorganic microfiber 16 µm	<b>P10</b> Resin impregnated paper 10 µm																			
<b>A25</b> Inorganic microfiber 25 µm	<b>P25</b> Resin impregnated paper 25 µm																			
	<b>Element Δp</b>					<b>Execution</b>														
	N 20 bar					P01 MP Filtri standard Pxx Customized														

### FILTER ELEMENT

<b>Element series and size</b>	Configuration example: <b>CU110</b>   <b>4</b>   <b>A10</b>   <b>A</b>   <b>N</b>   <b>P01</b>															
<b>CU110</b>																
<b>Element length</b>	1   2   3   4															
<b>Filtration rating (filter media)</b>	<table border="0"> <tr> <td><b>A03</b> Inorganic microfiber 3 µm</td> <td><b>M25</b> Wire mesh 25 µm</td> </tr> <tr> <td><b>A06</b> Inorganic microfiber 6 µm</td> <td><b>M60</b> Wire mesh 60 µm</td> </tr> <tr> <td><b>A10</b> Inorganic microfiber 10 µm</td> <td><b>M90</b> Wire mesh 90 µm</td> </tr> <tr> <td><b>A16</b> Inorganic microfiber 16 µm</td> <td><b>P10</b> Resin impregnated paper 10 µm</td> </tr> <tr> <td><b>A25</b> Inorganic microfiber 25 µm</td> <td><b>P25</b> Resin impregnated paper 25 µm</td> </tr> </table>						<b>A03</b> Inorganic microfiber 3 µm	<b>M25</b> Wire mesh 25 µm	<b>A06</b> Inorganic microfiber 6 µm	<b>M60</b> Wire mesh 60 µm	<b>A10</b> Inorganic microfiber 10 µm	<b>M90</b> Wire mesh 90 µm	<b>A16</b> Inorganic microfiber 16 µm	<b>P10</b> Resin impregnated paper 10 µm	<b>A25</b> Inorganic microfiber 25 µm	<b>P25</b> Resin impregnated paper 25 µm
<b>A03</b> Inorganic microfiber 3 µm	<b>M25</b> Wire mesh 25 µm															
<b>A06</b> Inorganic microfiber 6 µm	<b>M60</b> Wire mesh 60 µm															
<b>A10</b> Inorganic microfiber 10 µm	<b>M90</b> Wire mesh 90 µm															
<b>A16</b> Inorganic microfiber 16 µm	<b>P10</b> Resin impregnated paper 10 µm															
<b>A25</b> Inorganic microfiber 25 µm	<b>P25</b> Resin impregnated paper 25 µm															
	<b>Seals</b>		<b>Element Δp</b>		<b>Execution</b>											
	A NBR V FPM		N 20 bar		P01 MP Filtri standard Pxx Customized											

### CLOGGING INDICATORS

See pages 714-716

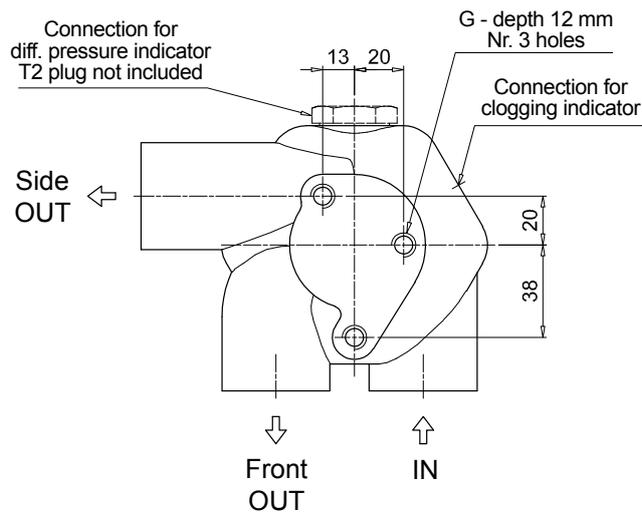
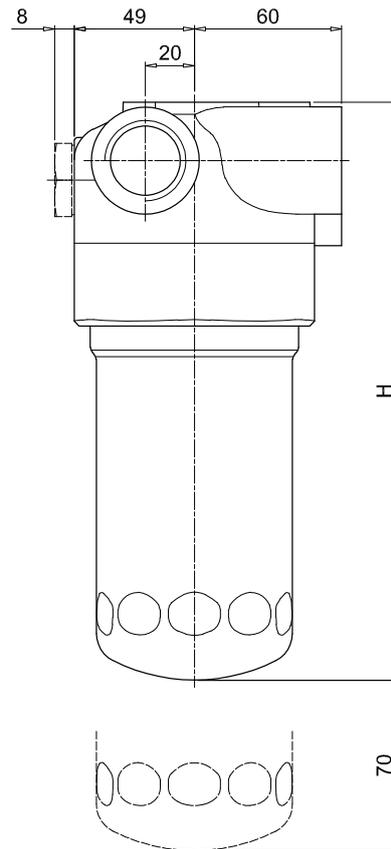
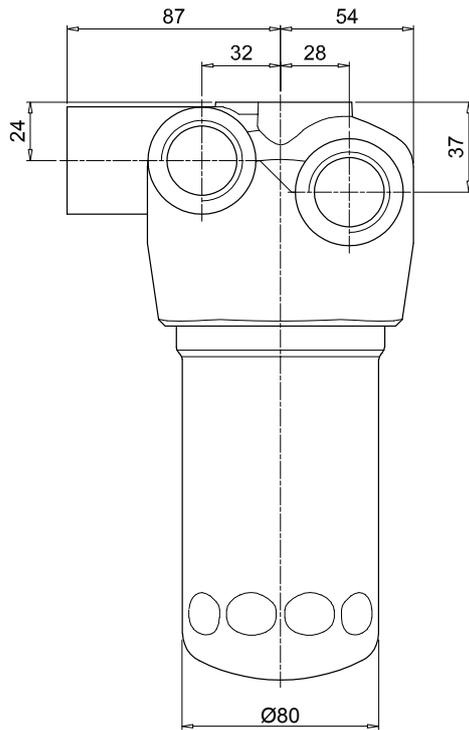
<b>Indicators on Return Line</b>	
<b>BVA</b> Axial pressure gauge	<b>BEA</b> Electrical pressure indicator
<b>BVR</b> Radial pressure gauge	<b>BEM</b> Electrical pressure indicator
<b>BVP</b> Visual pressure indicator with automatic reset	<b>BET</b> Electrical pressure indicator
<b>BVQ</b> Visual pressure indicator with manual reset	<b>BLA</b> Electrical / visual pressure indicator
<b>Differential pressure indicators</b>	
<b>DEA</b> Electrical differential pressure indicator	<b>DLE</b> Electrical / visual differential pressure indicator
<b>DEM</b> Electrical differential pressure indicator	<b>DTA</b> Electronic differential pressure indicator
<b>DEU</b> Electrical differential pressure indicator	<b>DVA</b> Visual differential pressure indicator
<b>DLA</b> Electrical / visual differential pressure indicator	<b>DVM</b> Visual differential pressure indicator

### PLUGS

See page 741

<b>T2</b> Plug (not included)
-------------------------------

LMP 124	
MULTIPORT	
Filter length	H [mm]
1	182
2	215
3	265
4	365
Connections	G
B	M10
F	3/8" UNC

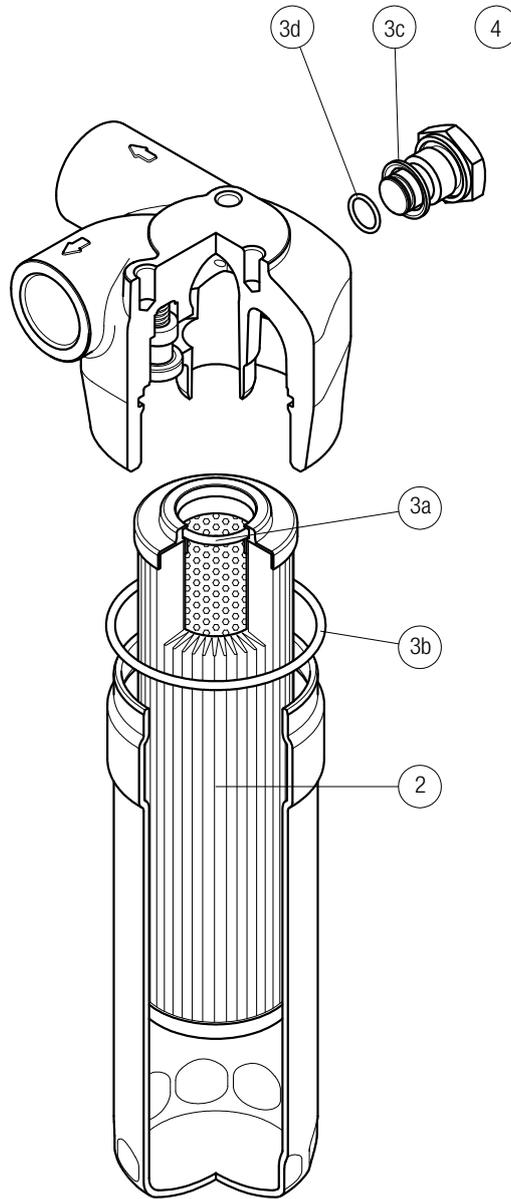


# LMP 124 MULTIPOINT

MULTIPOINT

Order number for spare parts

## LMP 124 MULTIPOINT



Item:	Q.ty: 1 pc.	Q.ty: 1 pc.		Q.ty: 1 pc.	
Filter series	Filter element	Seal Kit code number		Indicator connection plug	
LMP 124 MULTIPOINT	See order table	NBR	FPM	NBR	FPM
	<b>2</b>	<b>3</b> (3a ÷ 3d)		<b>4</b>	
		02050478	02050479	T2H	T2V



## LubeTeam Hydraulic S.r.l.

*Administration and Headquarter:*

Via Tufara Scautieri, 6  
83018 - San Martino Valle Caudina (AV)

*Office and Warehouse:*

S.S. 7 Appia, Km. 237,00  
82011 - Airola BN  
ITALY

Tel. +39 0823 950 994

Fax +39 0823 412 546

[www.lubeteam.it](http://www.lubeteam.it) [info@lubeteam.it](mailto:info@lubeteam.it)

Italian VAT / C.F. e P.IVA: 01251720627

Follow us



This document is the property of LubeTeam Hydraulic S.r.l. All data reported here are for the exclusive use of the Receiver. Reproduction is not authorized without writing permission, in all or in part of the content of this document, in accordance to Law 633 art. 171, dated April 22, 1941.

Il presente documento è di proprietà della LubeTeam Hydraulic S.r.l. I dati riportati sono per esclusivo del destinatario. La riproduzione, di tutto o in parte, non è autorizzata senza permesso scritto secondo l'art. 171 della L. 633 del 22 Aprile 1941.