

LMP 124 series

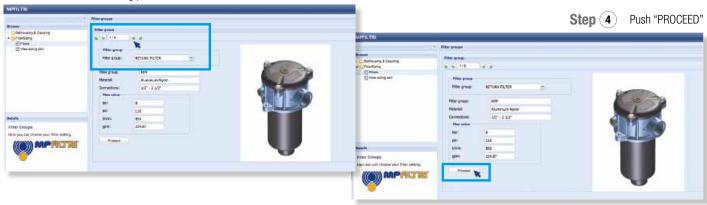
Maximum working pressure up to 8 MPa (80 bar) - Flow rate up to 200 l/min

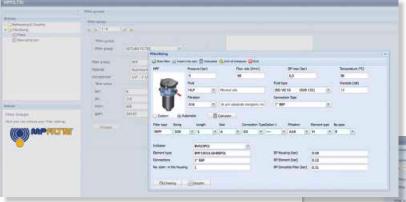






Step 3 Choose filter type (MPF, MPT, etc.) in function of the max working pressure and the max flow rate





Step (5)

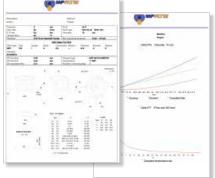
Insert all application data to calculate the filter size following the sequence:

- working pressure
- working flow rate
- working pressure drop
- working temperature
- fluid material and fluid type
- filtration media
- connection type



Push "CALCULATE" to have result; in case of any mistake, the system will advice which parameter is out of range to allow to modify/adjust the selection





Step 7 PDF Download PDF

Datasheet "Report.aspx" pushing the button "Drawing"

Description

Return / Suction filter

In-line

Maximum working pressure up to 8 MPa (80 bar) Flow rate up to 200 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 200 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)

Technical data

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) $\pm 10\%$
- 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]

Filter series	Weights [kg]				Volumes [dm³]					
	Length					Length				4
LMP 124		1.70	1.90	2.20	2.70		0.75	0.81	1.11	1.53



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FILTER ASSEMBLY SIZING Flow rates [I/min]

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

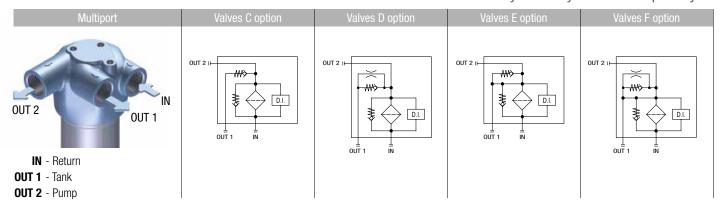
Maximum flow rate for a complete return/suction filter with a pressure drop $\Delta p = 1.2$ bar.

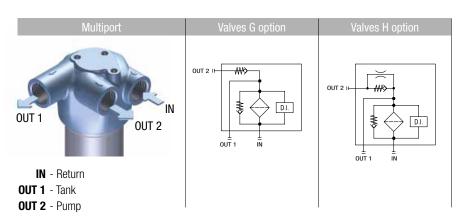
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

For different pressure drop or fluid viscosity we recommend to use our selection software available on www.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 - Multiport styles

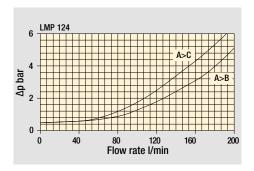




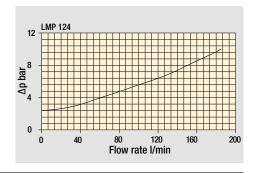


Pressure drop

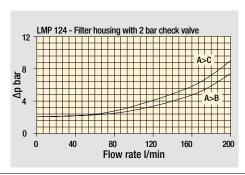
Filter housings Δp pressure drop

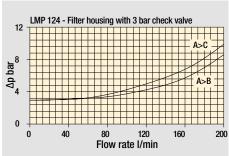


Bypass valve pressure drop



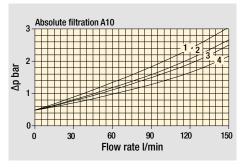
Valves

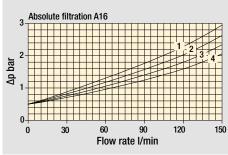


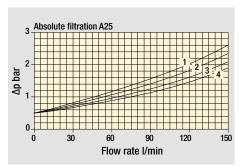


Filter length: 1 - 2 - 3 - 4

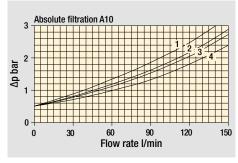
STYLE C - D - E - F

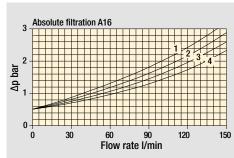


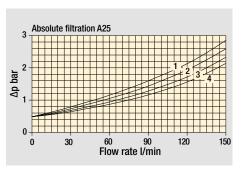




STYLE G-H



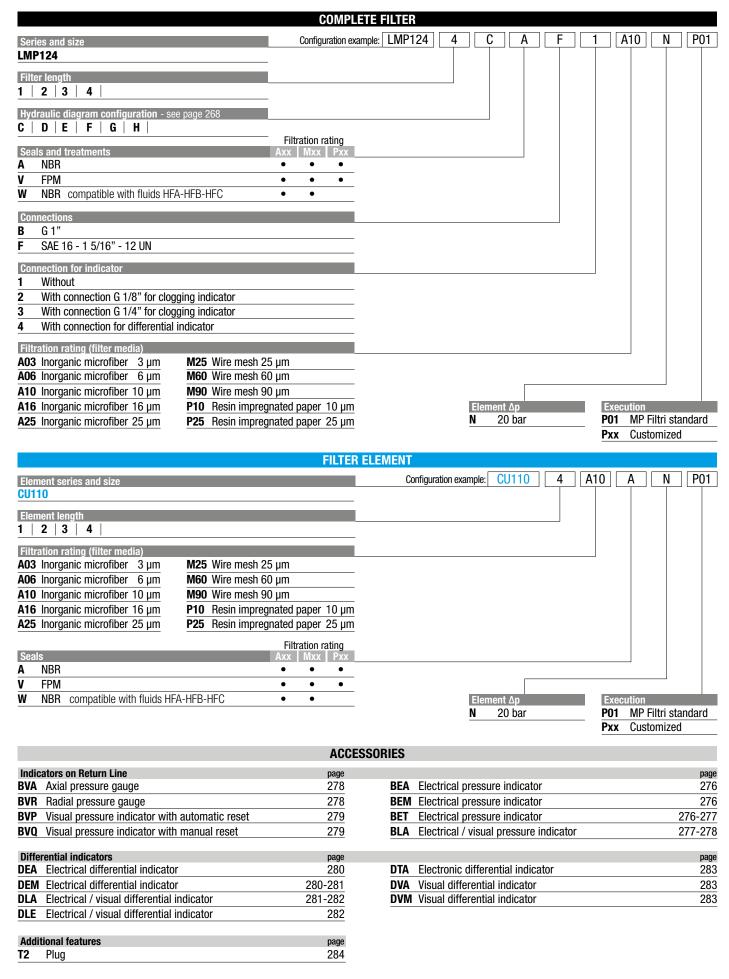




The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.

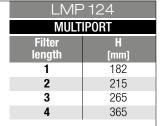


Designation & Ordering code

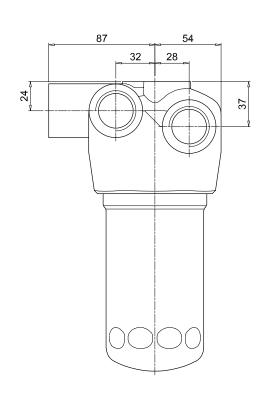


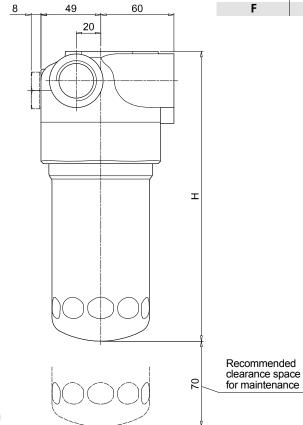
270

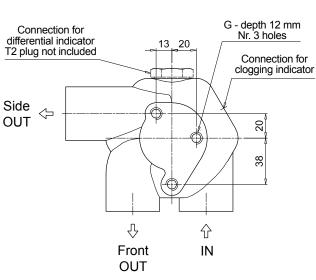
Dimensions



Connections	R
В	M10
F	3/8" UNC

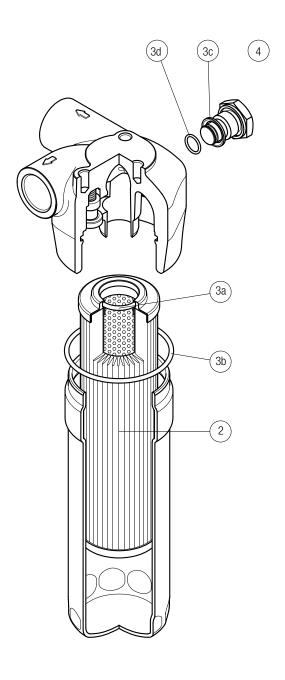






Order number for spare parts

LMP 124 MULTIPORT



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