

LMP 124 series

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



Description

Return / Suction filte

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)

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





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	
	1	39	41	58	60	69	99	84	85	
LMP 124	2	47	53	68	69	77	99	90	91	
LIVIF 124	3	59	61	73	77	86	99	92	93	
	4	70	78	84	86	93	100	94	95	

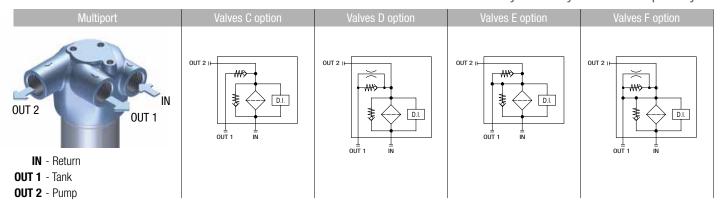
Maximum flow rate for a complete return/suction filter with a pressure drop $\Delta p = 1.2$ bar.

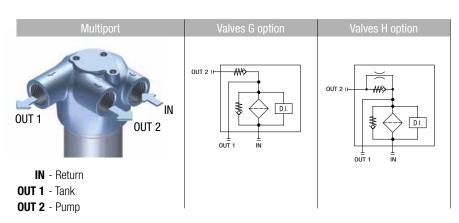
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

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

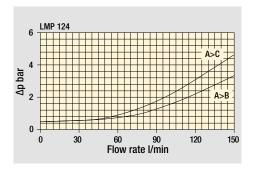




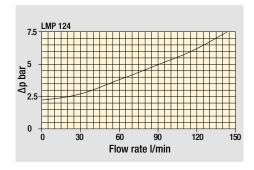


Pressure drop

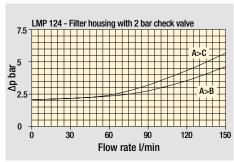
Filter housings Δp pressure drop

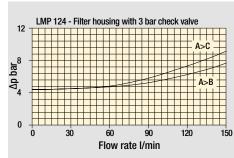


Bypass valve pressure drop



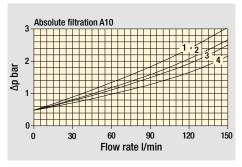
Valves

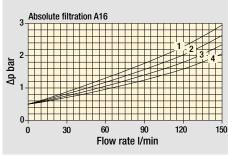


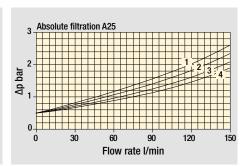


Filter length: 1 - 2 - 3 - 4

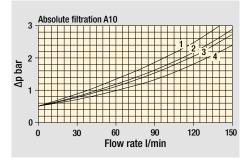
STYLE C - D - E - F

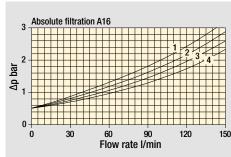


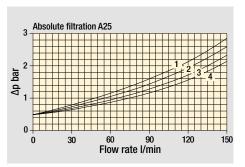




STYLE G-H



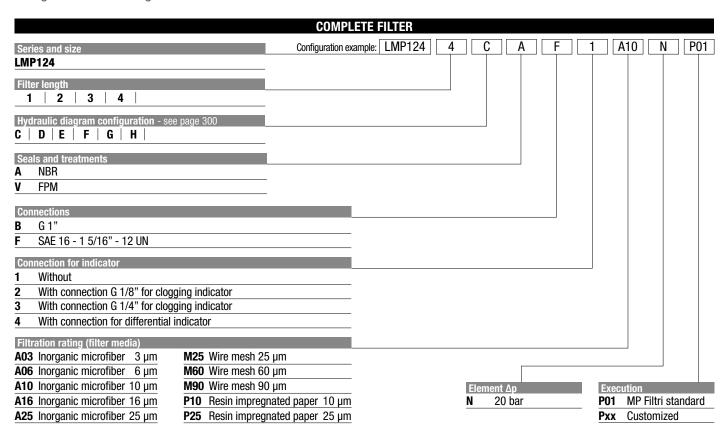


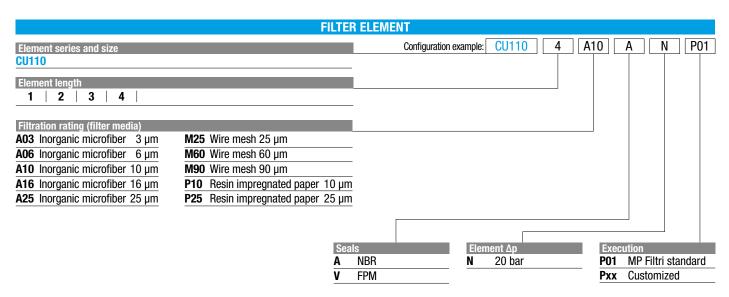


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.



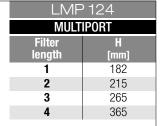
Designation & Ordering code



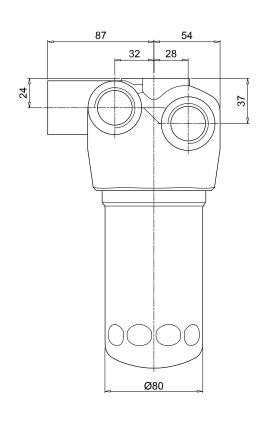


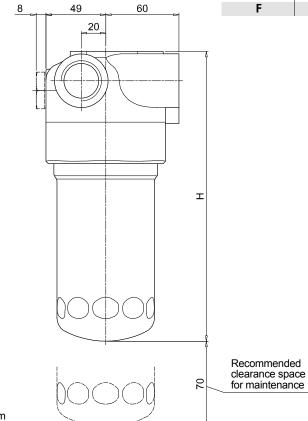
	See pag	ge 682-683				
Indic	ators on Return Line					
BVA	Axial pressure gauge		BEA	Electrical pressure indicator		
BVR	Radial pressure gauge		BEM	Electrical pressure indicator		
BVP	Visual pressure indicator with automatic reset		BET	Electrical pressure indicator		
BVQ	Visual pressure indicator with manual reset		BLA	Electrical / visual pressure indicator		
Diffe	rential indicators					
DEA	Electrical differential indicator		DTA	Electronic differential indicator		
DEM	Electrical differential indicator		DVA	Visual differential indicator		
DLA	Electrical / visual differential indicator		DVM	Visual differential indicator		
DLE	Electrical / visual differential indicator					
		PLUGS			Se	e page 706
T2	Differential indicator plug (not included)					

Dimensions

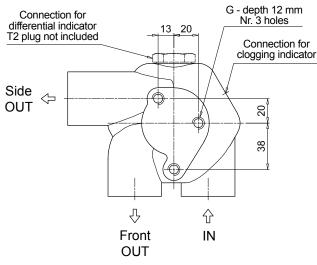


Connections	R
В	M10
F	3/8" UNC



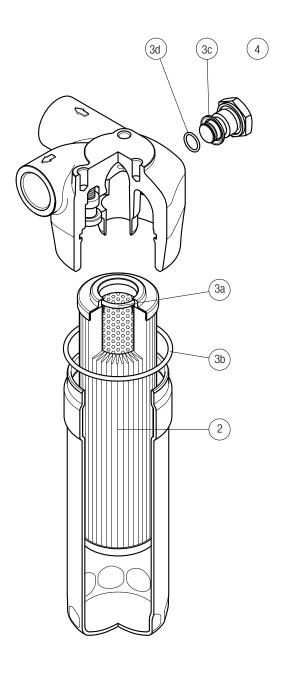






Order number for spare parts

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	