

# LMP 124 series

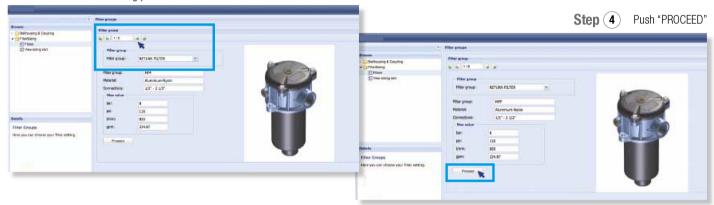
Maximum working pressure up to 8 MPa (80 bar) - Flow rate up to 200 I/min



#### Step (1) Select "FILTERS"



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





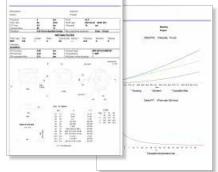
# Step (5)

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



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

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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

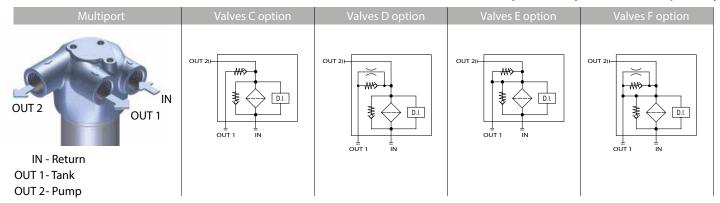
# FILTER ASSEMBLY SIZING Flow rates [l/min

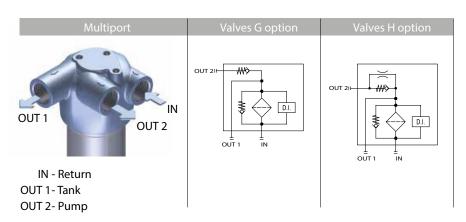
		Filter element design - N series								
Filter series	Length	A03	A06	A10	A16	A25	M25 M60 M90	P10	P25	
LMP 124	1	39	41	58	60	69	99	84	85	
	2	47	53	68	69	77	99	90	91	
	3	59	61	73	77	86	99	92	93	
	4	70	78	84	86	93	100	94	95	

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 mm<sup>2</sup>/s (cSt) and a density of 0.86 kg<sup>3</sup>/dm

Please, contact our Sales Department for further additional information.

# Hydraulic symbols - Multiport styles

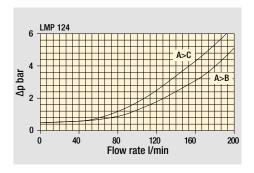




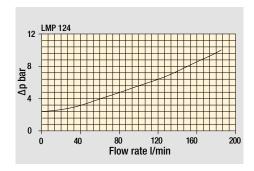


## Pressure drop

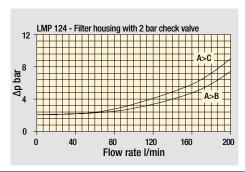
Filter housings  $\Delta p$  pressure drop

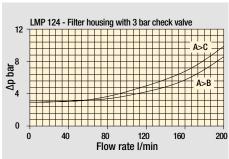


Bypass valve pressure drop



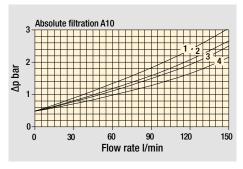
**Valves** 

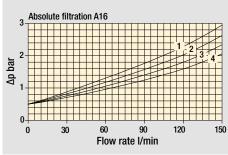


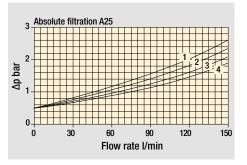


Filter length: 1 - 2 - 3 - 4

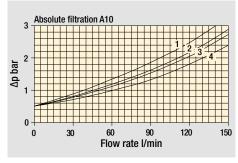
STYLE C - D - E - F

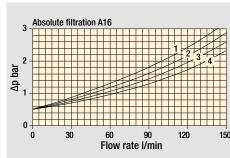


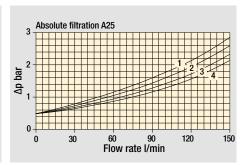




STYLE G-H



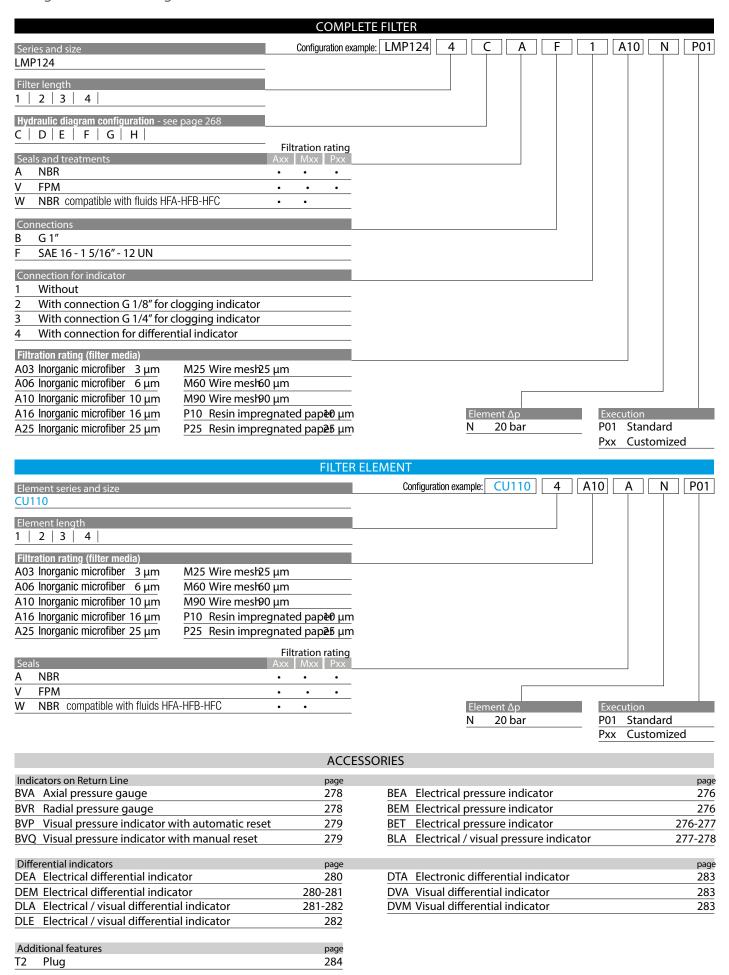




The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968.  $\Delta p$  varies proportionally with density.

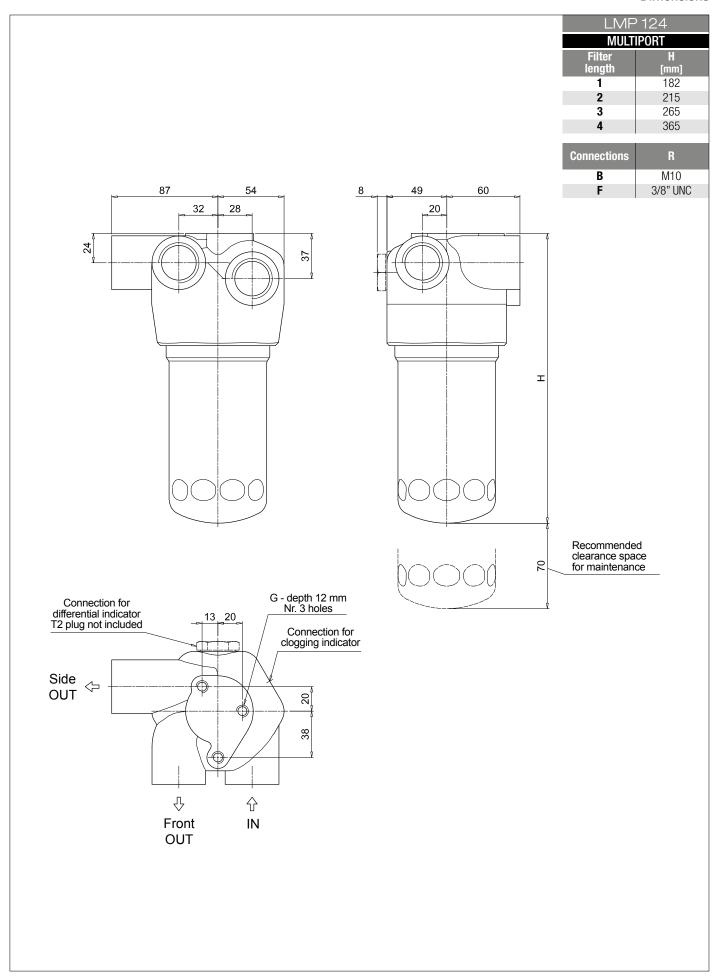


#### Designation & Ordering code



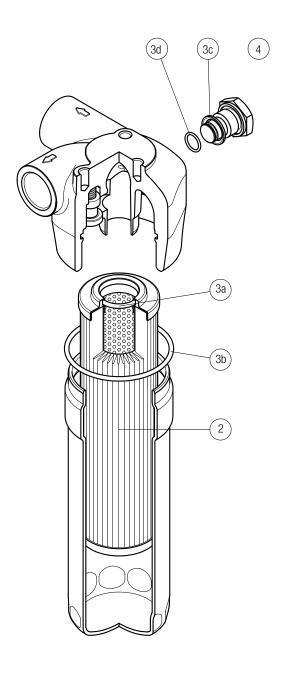


# **Dimensions**



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	