

# LMP 124 series

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



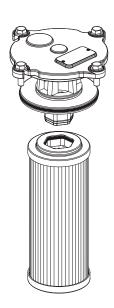


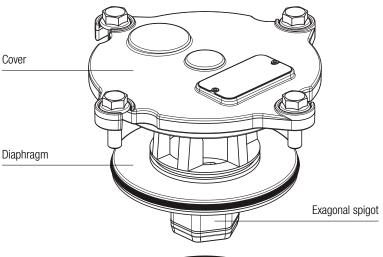
# MRSX RSX series

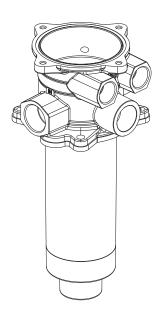
# NEW FILTER ELEMENT WITH EXCLUSIVE INTERFACE CONNECTION

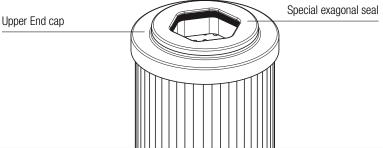
- Protects the machine from improper use of non-original products.
- ▲ Safety of constant quality protection & reliability

With exclusive filter element you are sure that only MP Filtri filter elements can be used, ensuring the best cleaning level of the oil due to the use of originals filter elements.









The products identified as MRSX and RSX are protected by:

- ♦ Italian Patent n° 102014902261205
- Oanadian Patent n° 2,937,258
- European Patent nº 16181725.9
- ♦ US Patent n° 15/224,337



# 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 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 [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	

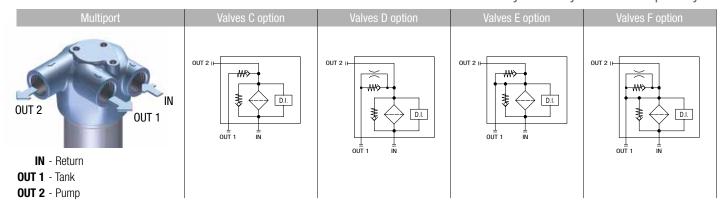
Maximum flow rate for a complete return/suction filter with a pressure drop  $\Delta p = 1.2$  bar.

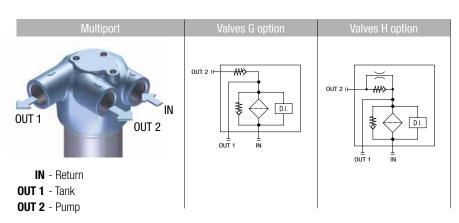
The reference fluid has a kinematic viscosity of 30 mm<sup>2</sup>/s (cSt) and a density of 0.86 kg/dm<sup>3</sup>.

For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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

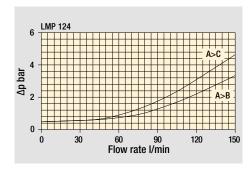




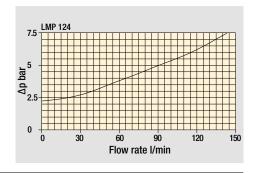


# Pressure drop

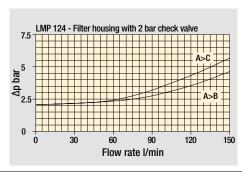
Filter housings  $\Delta p$  pressure drop

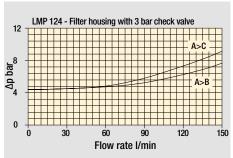


Bypass valve pressure drop



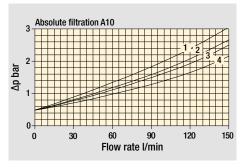
**Valves** 

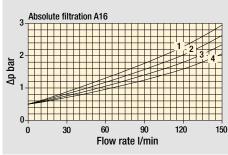


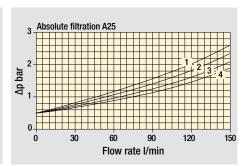


Filter length: 1 - 2 - 3 - 4

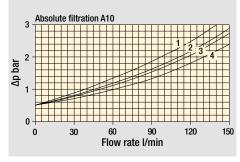
STYLE C - D - E - F

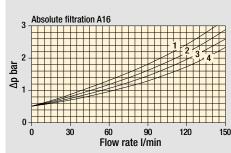


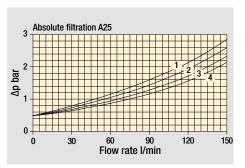




STYLE G-H



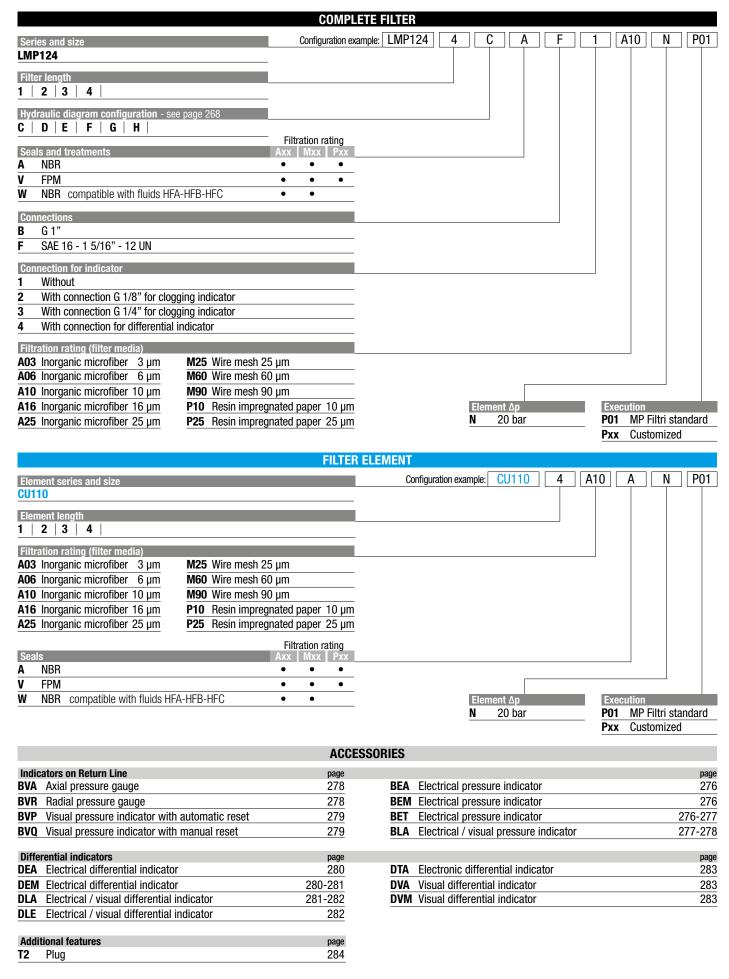




The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968.  $\Delta p$  varies proportionally with density.

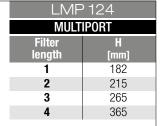


## Designation & Ordering code

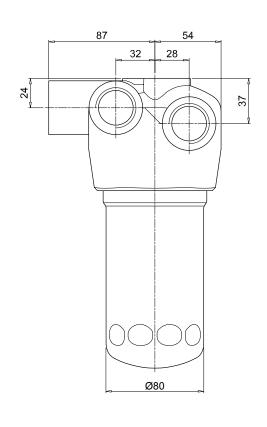


270

# **Dimensions**



Connections	R
В	M10
F	3/8" UNC



 $\hat{\Gamma}$ 

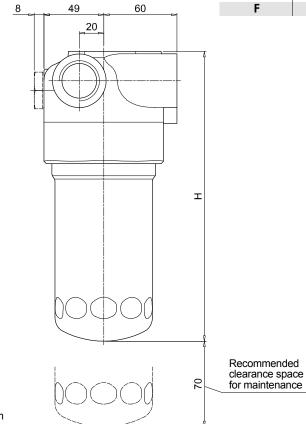
Front

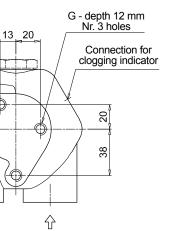
OUT

IN

Connection for differential indicator T2 plug not included

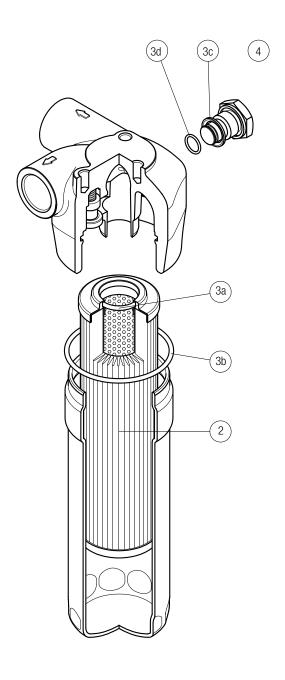
Side OUT





# 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	