

LMP 124



In-Line Suction and Return Filter



Maximum pressure 80 bar
Flow rates to 160 l/min

Filter housing (Materials)

- Head: Aluminium
- Housing: Cathaphoresis Painting
- Bypass valve: Brass - Aluminium

Pressure

LMP 124 length: 1 - 2 - 3 - 4

- Working pressure: 80 bar (8 MPa)
- Test pressure: 120 bar (12 MPa)
- Burst pressure: 380 bar (38 MPa)
- Pulse pressure fatigue test: 1.000.000 cycles with pressure from 0 to 80 bar (8 MPa)

Temperature

- From -25 °C to +110 °C

Bypass valve

- Opening pressure 2.5 bar $\pm 10\%$
- Other opening pressures on request.

Δp Elements type

- Series N and W elements: 20 bar
- Oil flow from exterior to interior.

Seals

- Standard NBR series A
- Optional FPM series V

Weights (kg)

length

- LMP124 - 1 1,7
- LMP124 - 2 1,9
- LMP124 - 3 2,2
- LMP124 - 4 2,7

Volumes (dm³)

length

- LMP124 - 1 0,75
- LMP124 - 2 0,81
- LMP124 - 3 1,11
- LMP124 - 4 1,53

Compatibility (to ISO 2943)

- Housings compatible with:
Mineral oils, synthetic fluids.
Aqueous emulsions, water and glycol (series W required).
- The filter elements are compatible with:
Mineral oils, synthetic fluids.
Aqueous emulsions, water and glycol (series W required).
- NBR seals series A, compatible with:
Mineral oils, synthetic fluids, aqueous emulsions and water and glycol.
- FPM seals series V, compatible with:
Synthetic fluids type HS-HFDR-HFDS-HFUDU

Filter Element Area

Filter element in stainless steel mesh

Type	Length			
	1	2	3	4
CU 110	1302	1764	2464	3864

Values expressed in cm²

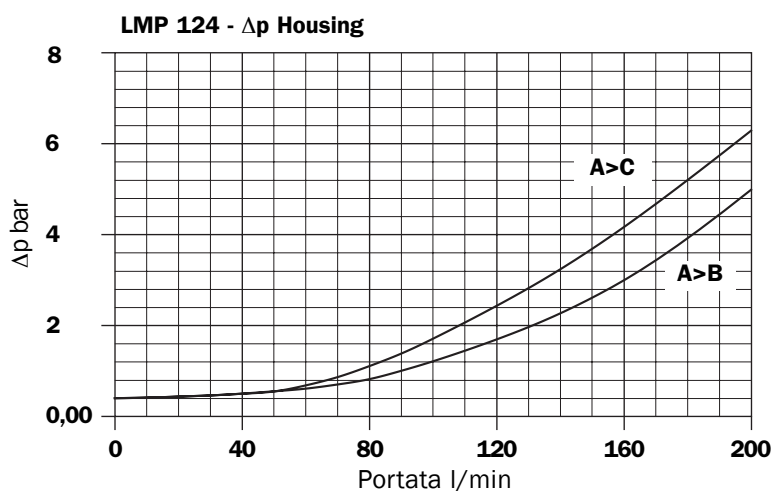
LMP 124



Filter housings Δp pressure drop

The curves are plotted utilising mineral oil with density of 0.86 kg/dm³ to ISO 3968.

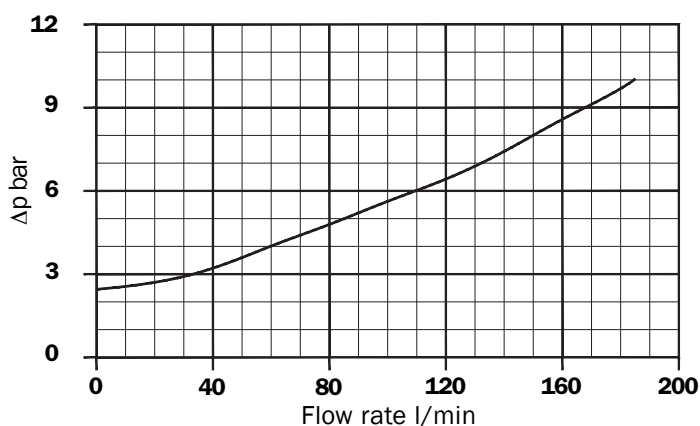
Δp varies proportionally with density.



Valves

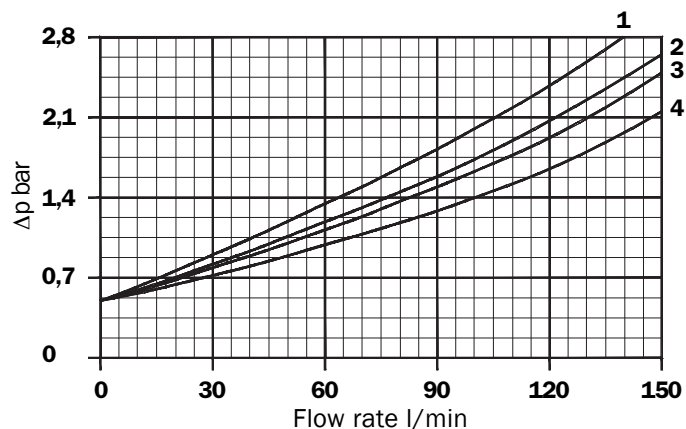
Bypass valve pressure drop

LMP 124

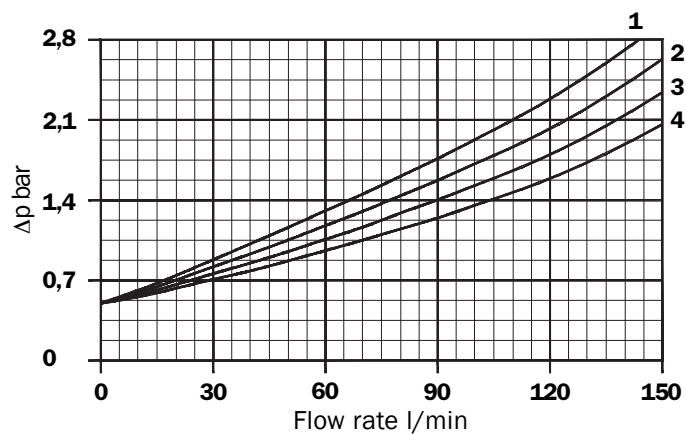


Style C - D - E - F

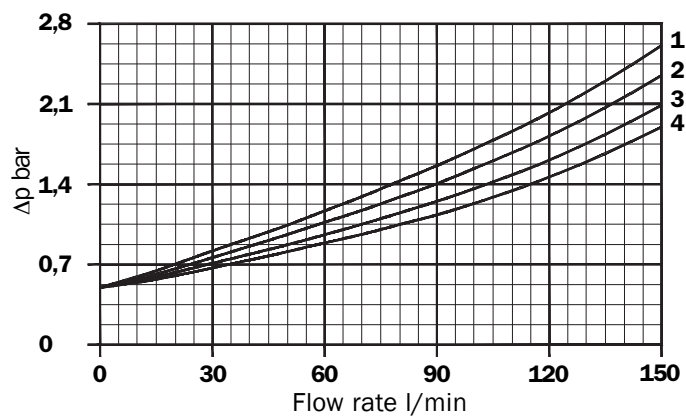
Absolute filtration A10



Absolute filtration A16

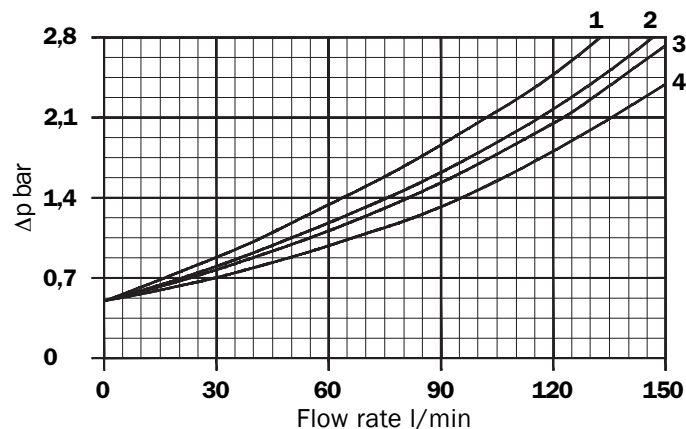


Absolute filtration A25

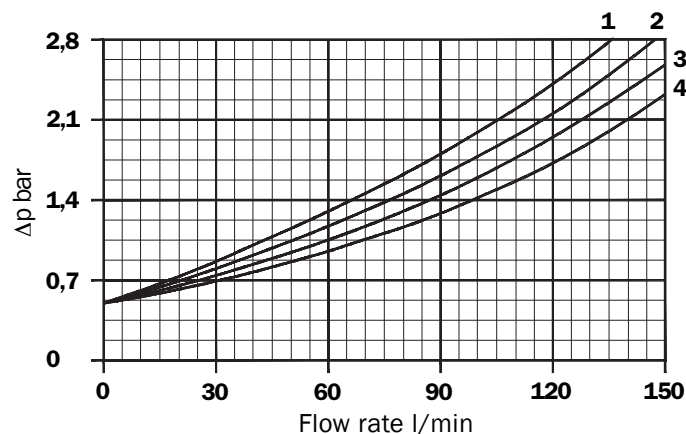


Style G - H

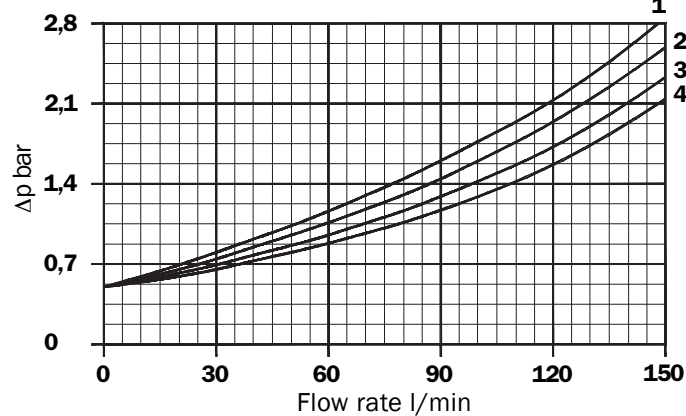
Absolute filtration A10



Absolute filtration A16



Absolute filtration A25

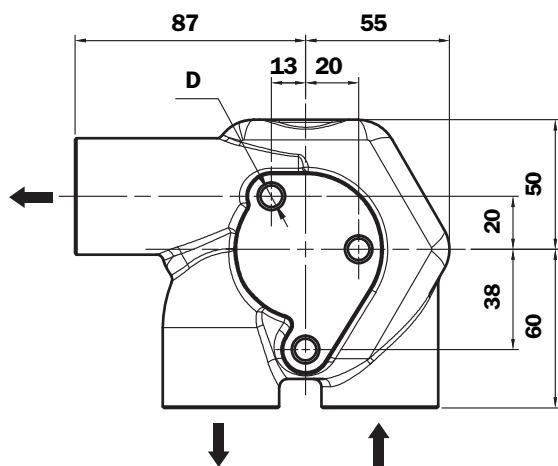
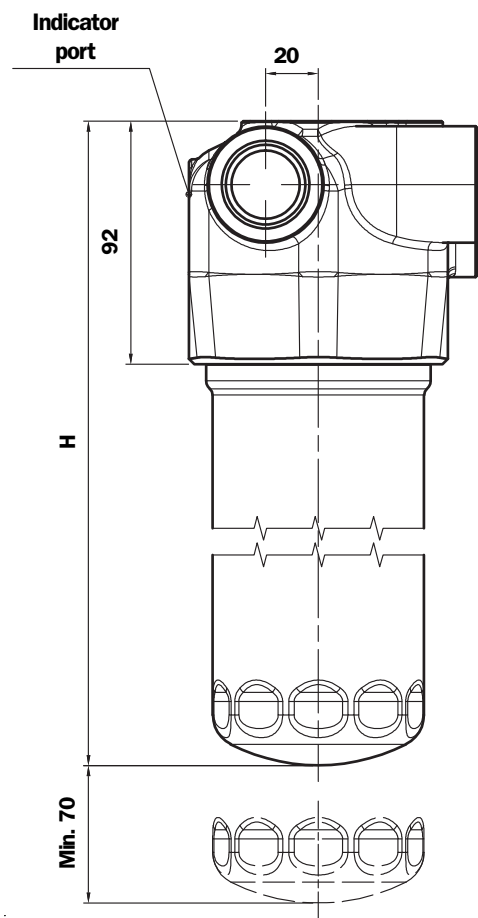
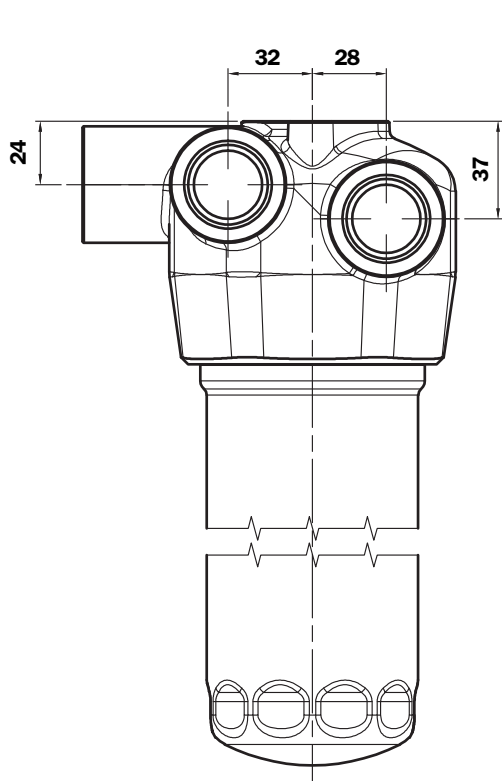


Filter length

- 1
- 2
- 3
- 4

Dimensions

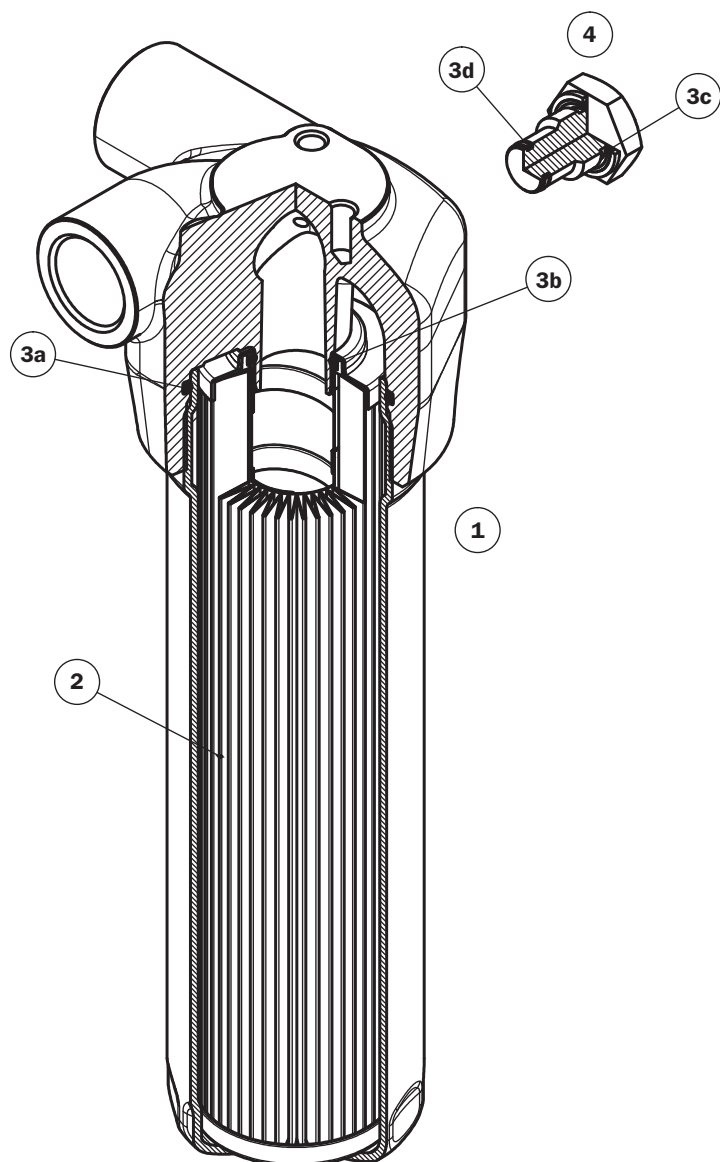
LMP 124



LMP 124

Length Filter	H mm
1	182
2	215
3	265
4	365

St.	Connection A - B - C	Fixing holes D
B	G 1"	M10 x depth 12 mm
F	SAE 16	3/8" UNC x depth 12 mm



Item	Description	Q.ty	FILTER Series LMP 124	
1	Filter assembly	1	See order table	
2	Filter element	1	See order table	
3	Seals Kit	1	NBR 02050478	FPM 02050479
3a	O-Ring for housing	1	O-R 4312 Ø 78,97 x 3,53	
3b	O-Ring for filter element	1	O-R 4125 Ø 31,34 x 3,53	
3c	Seal for indicator	1	NBR 01030058	FPM 01030046
3d	O-Ring for indicator	1	O-R 2050 Ø 12,42 x 1,78	
4	Indicator connection plug	1	T2H	T2V
-	Indicators	1	See order table	

LMP 124
Style C - D - E - F

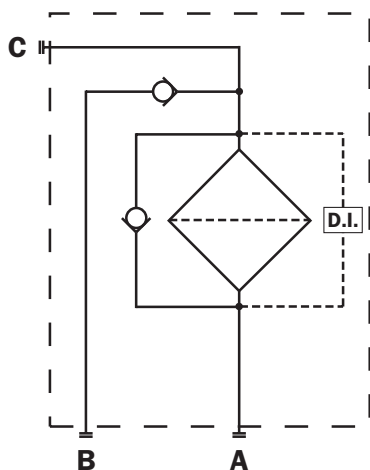


LMP 124
Style G - H

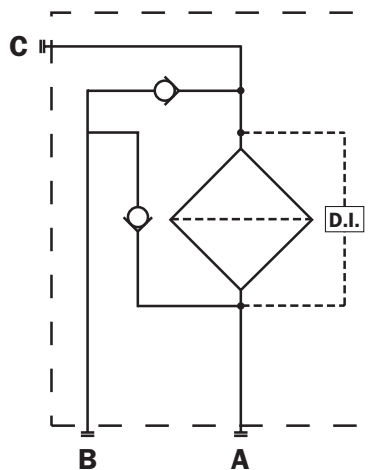


Symbols

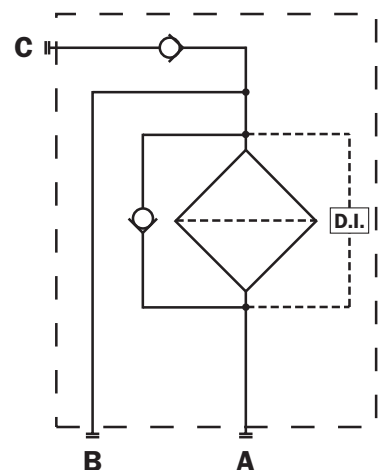
Style C
LMP 124



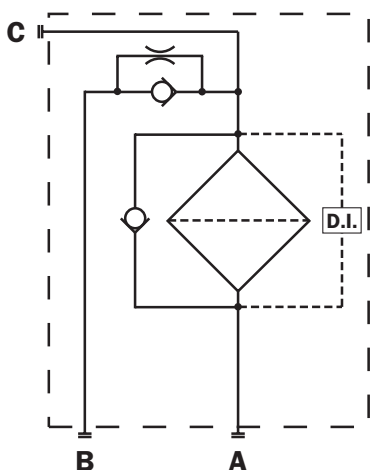
Style E
LMP 124



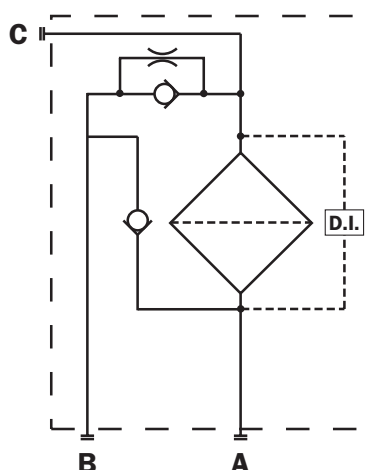
Style G
LMP 124



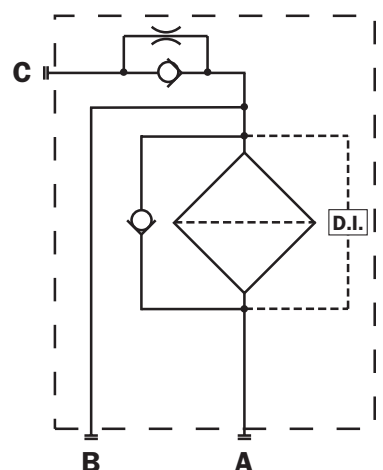
Style D
LMP 124



Style F
LMP 124



Style H
LMP 124



Ordering information LMP 124

Filter assembly LMP

Example: LMP

1	2	3	4	5	6	7	8	9
124	2	C	A	B	2	A10	N	P01

Filter element CU110

Example: CU110

2	7	4	8	9
2	A10	A	N	P01

1 - Style

Filter

124

Filter element

110

2 - Filter length

1
2
3
4

3 - Valves

C
D
E
F
G
H

see "SYMBOLS" (ref. to page 32)

4 - Filter seals

A	NBR
V	FPM
W	NBR (Compatible with fluid HFA, HFB, HFC)
	On request

5 - Connection

Type	MULTIPOINT
B	G 1"
F	SAE 16

6 - Indicator port

1	No
2	Port G 1/8" switch For pressure switch
3	Port G 1/4" switch For pressure switch
4	Differential indicator port

7 - Filter element

A10	Inorganic microfibre 10 µ	Absolute filtration βx (c) ≥ 1000
A16	Inorganic microfibre 16 µ	
A25	Inorganic microfibre 25 µ	

8 - Max filter element differential pressure

N	Δp 20 bar
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9 - Option

P01	MP Filtri standard
Pxx	Customer request

DIFFERENTIAL INDICATORS (see page 120)

MP Filtri - The filter functions as described in this bulletin are valid exclusively for original MP Filtri filter elements and replacement parts. All rights reserved

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Recommended maximum flow rate

"MULTIPORT"

Recommended maximum flow rate

- Pressure drop of filter assembly equal to Δp 0.7 bar.
- Oil kinematic viscosity 30 mm²/s (cSt).
- Density 0.86 kg/dm³.

Filtration

	Length	A03	A06	A10	A16	A25	P10	P25	M25
LMP 110 - 119	1	40	42	63	68	83	114	153	111
	2	49	57	80	82	97	130	155	128
	3	45	69	88	98	118	135	158	133
	4	66	98	112	117	136	140	160	140

Flow rate l/min

Filtration

	Length	A03	A06	A10	A16	A25	P10	P25	M25
LMP 112	1	36	37	55	57	65	85	112	83
	2	43	49	65	67	75	94	114	93
	3	54	58	70	76	87	96	115	95
	4	66	76	87	88	96	98	115	98

Flow rate l/min

Filtration

	Length	A03	A06	A10	A16	A25	P10	P25	M25
LMP 116	1	36	37	53	56	64	80	95	77
	2	43	47	64	65	72	87	96	86
	3	55	56	67	73	83	89	97	88
	4	63	72	79	83	87	92	98	90

Flow rate l/min

Filtration

	Length	A03	A06	A10	A16	A25	P10	P25	M25
LMP 120	1	39	42	66	69	87	129	187	126
	2	48	57	86	88	108	153	187	150
	3	67	72	97	110	136	161	188	158
	4	88	108	128	135	162	170	190	168

Flow rate l/min

Filtration

	Length	A03	A06	A10	A16	A25	P10	P25	M25
LMP 122	1	42	44	70	74	92	137	205	132
	2	52	61	90	91	115	163	205	159
	3	72	77	100	113	141	173	208	169
	4	93	113	133	143	172	180	215	178

Flow rate l/min