

LMP MULTIPORT 110 - 120 - 123

Maximum pressure 80 bar Flow rates to 200 l/min

Technical data

Filter housing (Materials)

- Head: Aluminium
- Housing: Cataphoresis-Painted Steel
- Bypass valve: Brass Aluminium

Pressure

- Working pressure: 80 bar (8 MPa)
- Test pressure: 120 bar (12 MPa)
- LMP 110 Burst pressure: 290 bar (29 MPa)
- LMP 120/123 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 3,5 bar ±10%
- Other opening pressures on request.

Δp Elements type

Microfibre filter elements series N - W: 20 bar
 Wire mesh filter elements series N: 20 bar

• Fluid flow through the filter element from OUT to IN.

Seals

Standard NBR series AOptional FPM series V

LMP MULTIPORT FILTERS ARE PROVIDED FOR VERTICAL MOUNTING

Weights (kg)

Length	1	2	3	4
• LMP110	1,60	1,80	2,10	2,60
• LMP120	1,90	2,10	2.40	2,90
• LMP123	1,70	1,90	2.20	2,70

Volumes (dm³)

Length	1	2	3	4
• LMP110	0,75	0,81	1,11	1,53
• LMP120	0,75	0,81	1,11	1,53
• LMP123	0,75	0,81	1,11	1,53

Connections

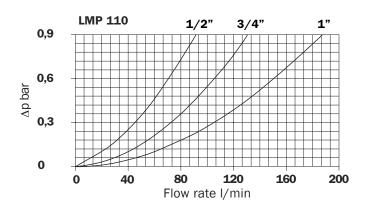
- LMP 110: Inlet/Outlet In-Line
- LMP 112: Inlet/Outlet In-Line + second inlet port 90°
- LMP 116: Inlet/Outlet In-Line + second outlet port 90°
- LMP 118: Inlet/Outlet In-Line + outlet bypass port 90°
- LMP 119: Inlet/Outlet In-Line + outlet safety valve 90°
- LMP 120: Same side
- LMP 123: Same side + 90°

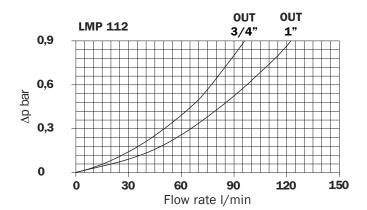


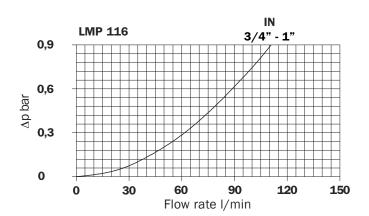
Filter housings Δp pressure drop

The curves are plotted utilising mineral oil with density of 0,86 kg/dm³ to ISO 3968.

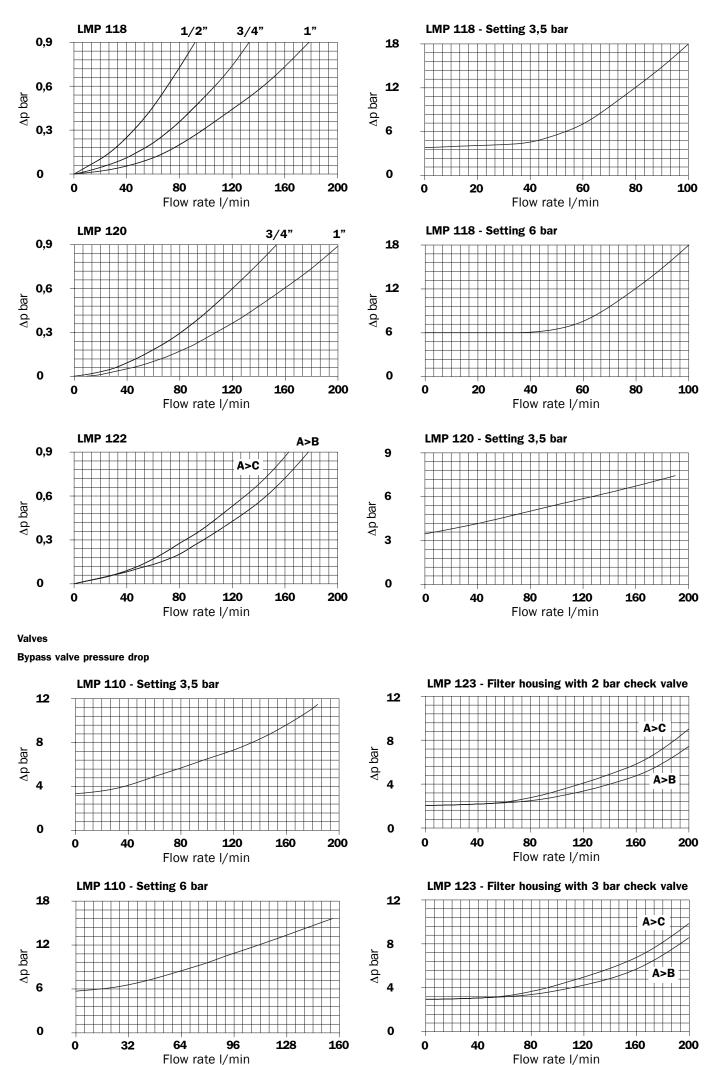
 $\Delta \textbf{p}$ varies proportionally with density.











LMP 112

(plug not included)

LMP 116

(plug not included)

LMP 118

202

LMP 110

LMP 112

Recommended maximum flow rate

- Pressure drop of filter assembly equal to Δp 0,7 bar.
- Oil kinematic viscosity 30 mm 2 /s (cSt).
- Density 0,86 kg/dm³.

					Filtra	ation			
	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 I/min

		Filtration							
	Length	A03	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 I/min

		Filtration							
	Length	A03	A06	A10	A16	A25	P10	P25	M25
	_					0.4			
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 I/min

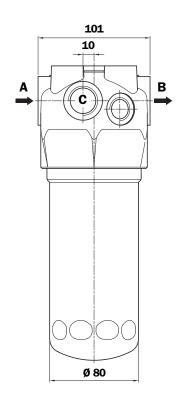
		Filtration							
	Length	A03	A06	A10	A16	A25	P10	P25	M25
LMP 120	1	39	42	66	69	87	129	187	126
	2	48	57	86	88	108	153	187	150
	3	67	72	97	110	136	161	188	158
	4	88	108	128	135	162	170	190	168

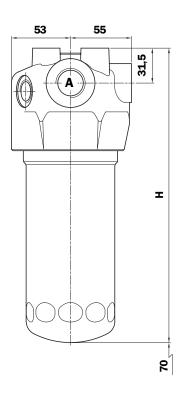
Flow rate I/min

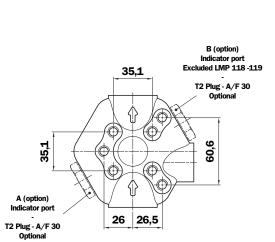
		Filtration							
	Length	A03	A06	A10	A16	A25	P10	P25	M25
LMP 120	1	42	44	70	74	92	137	205	132
	2	52	61	90	91	115	163	205	159
	3	72	77	100	113	141	173	208	169
	4	93	113	133	143	172	180	215	178
LMP 120	1 2 3 4	52 72	61 77	90 100	91 113	115 141	163 173	205 208	159 169

Flow rate I/min

LMP 110 - 112 - 116 - 118 - 119



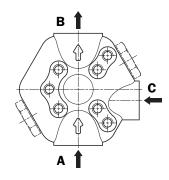




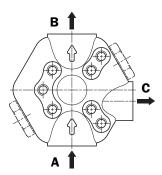
B 1

LMP 110

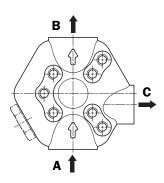
LMP 112



LMP 116



LMP 118 - 119



LMP 110 - 112 - 116 - 118 - 119

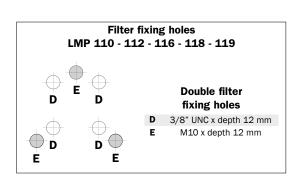
Length	Н
Filter	mm
1	182
2	215
3	265
4	365

LMP 110 Thread connections

Туре	Size
Α	G 3/4"
В	G 1"
С	3/4"NPT
D	1" NPT
E	SAE 12 - 1 1/16" - 12 UN
F	SAE 16 - 1 5/16" - 12 UN

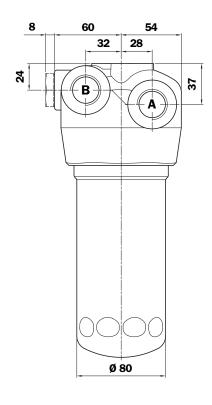
LMP 112 - 116 - 118 - 119 Thread connections

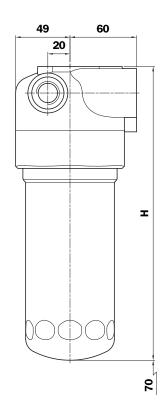
Туре	Size	C Lateral connections
Α	G 3/4"	G 3/4"
В	G 1"	G 3/4"
С	3/4"NPT	3/4"NPT
D	1" NPT	3/4" NPT
E	SAE 12 - 1 1/16" - 12 UN	SAE 12 - 1 1/16" - 12 UN
F	SAE 16 - 1 5/16" - 12 UN	SAE 12 - 1 1/16" - 12 UN

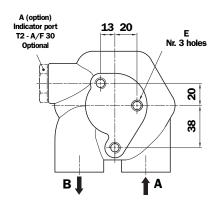


IN-LINE FILTER

LMP 120



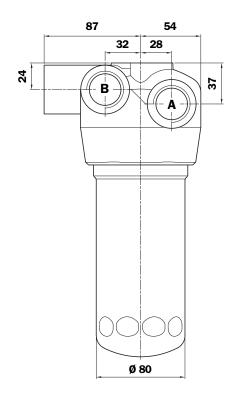


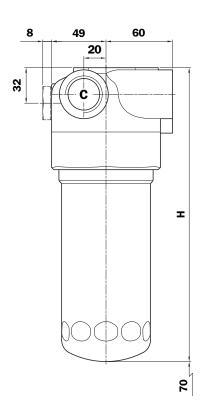


LMP 120 Thread connections

Туре	Size	E Depth 12 mm
Α	G 3/4"	M10
В	G 1"	M10
С	3/4"NPT	3/8" UNC
D	1" NPT	3/8" UNC
E	SAE 12 - 1 1/16" - 12 UN	3/8" UNC
F	SAE 16 - 1 5/16" - 12 UN	3/8" UNC

LMP 122 - 123

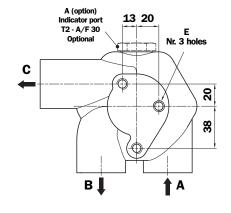




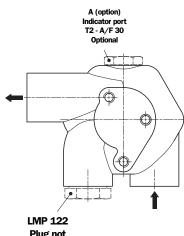
LMP 122 - 123 Thread connections

LMP 120 - 122 - 123			Thread connections					
	Length Filter	H mm		Туре	Size	E Depth 12 mm		
	1	182		В	G 1"	M10		
	2	215		D	1" NPT	3/8" UNC		
	3	265		F	SAE 16 - 1 5/16" - 12 UN	3/8" UNC		
	4	365						

LMP 122

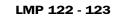


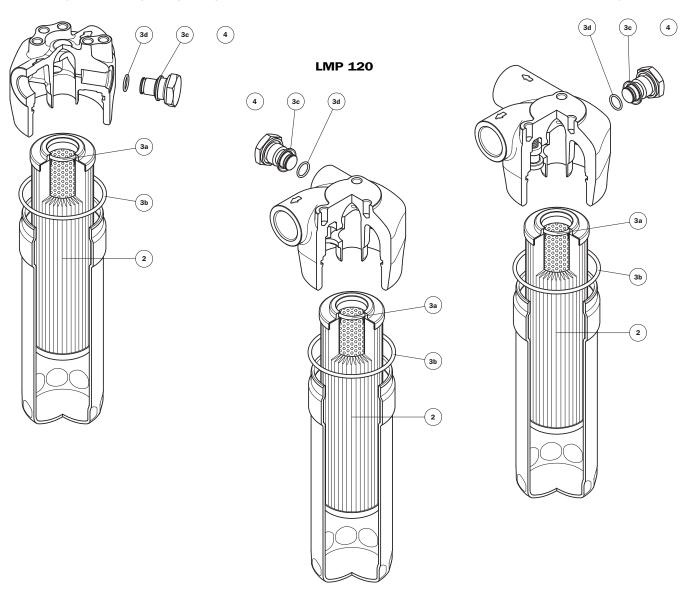
LMP 123



Plug not included

LMP 110 - 112 - 116 - 118 - 119



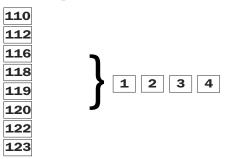


			FILTER	Series		
Item	Description	Q.ty	LMP MU	LTIPORT		
1	Filter assembly	1	See ord	er table		
2	Filter element	1	See ord	er table		
3	Seal Kit	1	NBR	FPM		
3	Seal Nit	_	02050478	O-R 4125 Ø 31,34 x 3,53 O-R 4312 Ø 78,97 x 3,53 NBR FPM		
3a	O-Ring for filter element	1	0-R 4	Ø 31,34 x 3,53		
Sa			Ø 31,34			
24	O Ding for housing	1	0-R 4312			
3b	Bb O-Ring for housing		Ø 78,97 x 3,53			
			NBR FPM			
Зс	Seal for indicator	1	01030058	01030046		
24	O Ding for indicator	4				
3d	O-Ring for indicator	1	Ø 12,42	FPM 02050479 1225 x 3,53 312 x 3,53 FPM 01030046 2050 x 1,78 T2V		
4	Indicator connection plug	1	T2H	T2V		
-	Indicator	1	See ord	er table		

1 - Style

Filter	Filter element
110	110
112	110
116	110
118	110
119	110
120	110
122	110
123	110

2 - Filter length



3 - Valves

S	Without bypass (excluded LMP 118 - 119)
В	With bypass

Check valve 3 bar

LMP 123

Туре	1 - Without bypass	Туре	1 - With bypass
С	Check valve 2 bar	M	Check valve 2 bar
D	Check valve 3 bar	N	Check valve 3 bar
Туре	2 - Without bypass	Туре	2 - With bypass
G	Check valve 2 bar	Q	Check valve 2 bar

R

Check valve 3 bar

5 - Connections

Threaded

Туре	Size	
Α	G 3/4"	
В	G 1"	N
С	3/4"NPT	. "
D	1" NPT	N
E	SAE 12 - 1 1/16" - 12 UN	. "
F	SAE 16 - 1 5/16" - 12 UN	

A - C - E: Not available for LMP 122 A - C - D - E: Not available for LMP 123

6 - Indicator port

1	Without
2	With style LMP 110 - pos. A
3	With style LMP 110 - pos. B (excluded LMP 118-119-120-122-123)
6	With style LMP 110 - pos. A + B (excluded LMP 118-119-120-122-123)

7 - Filter element

		1
A03	Inorganic microfibre 3 μm	
A06	Inorganic microfibre $6 \mu m$	Absolute filtration Inorganic
A10	Inorganic microfibre 10 μm	Microfibre
A16	Inorganic microfibre 16 μm	ßx (c) ≥ 1000
A25	Inorganic microfibre 25 μm _]
M25 M60	Wire mesh 25 μm Wire mesh 60 μm	Nominal Filtration
M90	Wire mesh 90 μm	J
P10 P25	Resin - Impregnated paper Resin - Impregnated paper	Nominal Filtration

8 - Max filter element differential pressure

N	∆p 20 bar

4 - Filter seals

Titol Souls		
Α	NBR	
V	FPM	
W	NBR (compatible with fluid HFA, HFB, HFC)	

9 - Option

P01	MP Filtri standard
Pxx	On request

For Clogging Indicator: See page 318