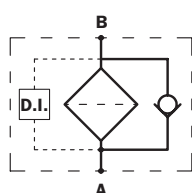
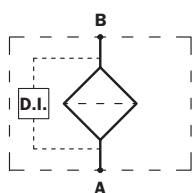


# LMP 210



Style **S**

Style **B**



**Maximum pressure 60 bar**  
**Flow rates to 270 l/min**

## Filter housing (Materials)

- Head: Aluminium
- Housing: Anodised Aluminium
- Bypass valve: Nylon

## Pressure

- Working pressure: 60 bar (6 MPa)
- Test pressure: 90 bar (9 MPa)
- Burst pressure: 180 bar (18 MPa)
- Pulsed pressure fatigue test: 1.000.000 cycles with pressure from 0 to 60 bar (6 MPa)

## Temperature

- From -25 °C to +110 °C

## Bypass valve

- Opening pressure 3.5 bar  $\pm$ 10%
- Other opening pressures on request.

## $\Delta p$ 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

- LMP210 -1 3.5
- LMP210 -2 4.4
- LMP210 -3 5.4

## Volumes (dm<sup>3</sup>)

### Length

- LMP210 -1 1.5
- LMP210 -2 2
- LMP210 -3 2.7

## Connections

In-Line Inlet-Outlet LMP 210

## Compatibility (to ISO 2943)

- Housings compatible with:  
Mineral oils - aqueous emulsions  
synthetic fluids, water and glycol.
- 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 - aqueous emulsions  
synthetic fluids, water and glycol.
- V series FPM seals, compatible with:  
Synthetic fluids type HS-HFDR-HFDS-HFDU

## Filter Element Area

Filter element in stainless steel mesh

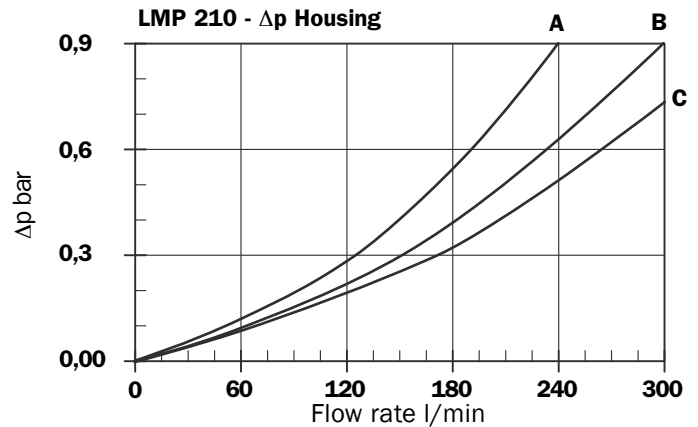
### Length

Type	1	2	3
<b>CU 210</b>	3100	4950	7520
Values expressed in <b>cm<sup>2</sup></b>			

## Filter housing $\Delta p$ pressure drop

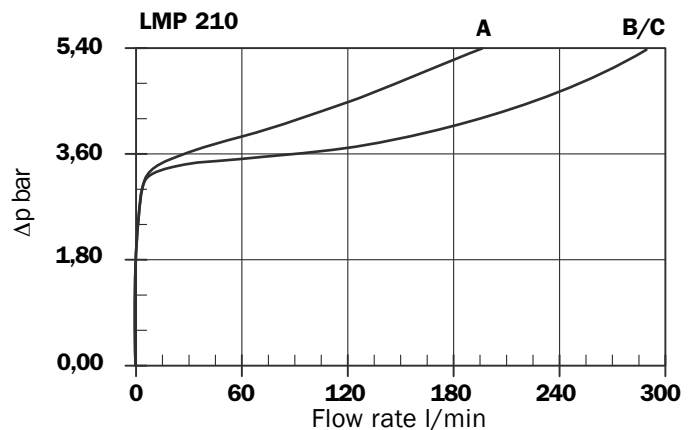
The curves are plotted utilising mineral oil with density of 0.86 kg/dm<sup>3</sup> to ISO 3968.

$\Delta p$  varies proportionally with density.



## Valves

### Bypass valve pressure drop



Connection referring to graphic pressure drop

Type	Connection (dimension page 38)
<b>A</b>	G1 - G4 - G7 - F1 - F4
<b>B</b>	G2 - G5 - G8 - F2 - F5
<b>C</b>	G3 - G6 - G9 - F3 - F6

## Recommended maximum flow rate

- Pressure drop of filter assembly equal to  $\Delta p$  0.6 bar.
- Oil kinematic viscosity 30 mm<sup>2</sup>/s (cSt).
- Density 0.86 kg/dm<sup>3</sup>.
- Connections of filter under test G 3".

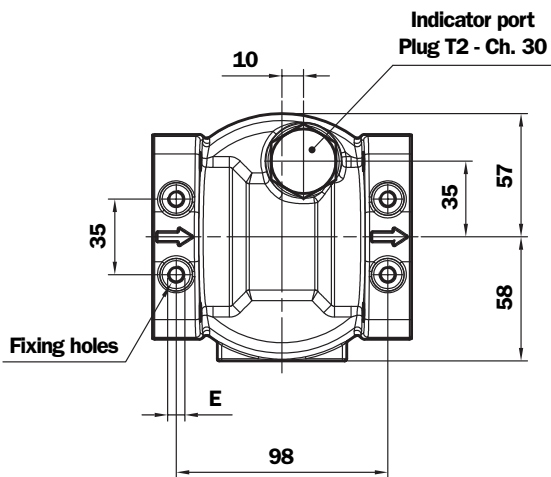
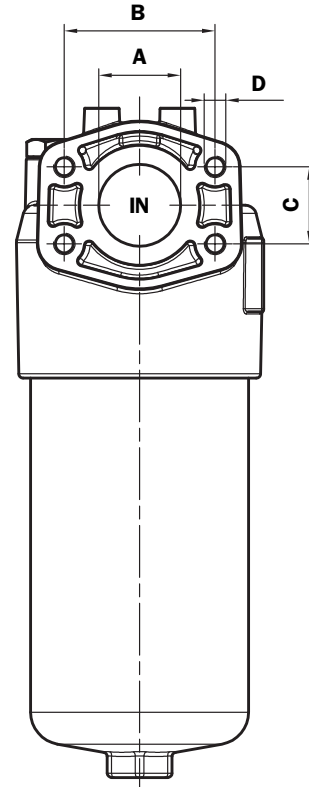
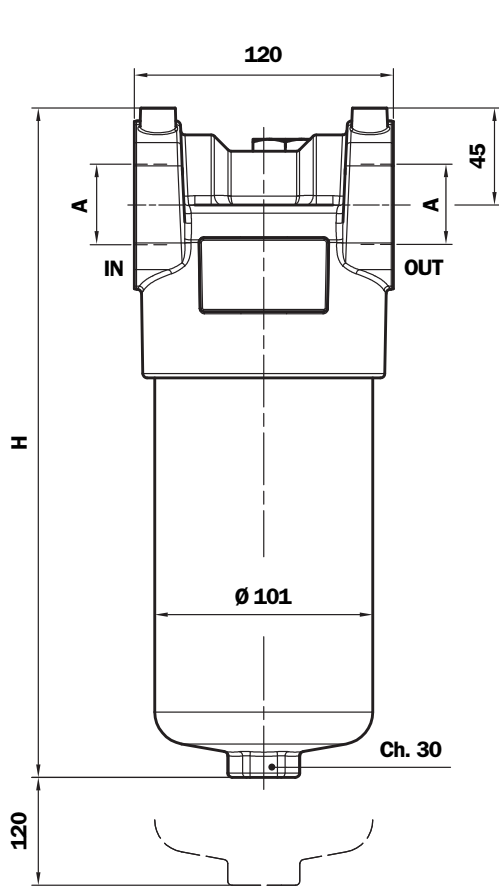
## Filtration

Leng.	A03	A06	A10	A16	A25	P10	P25	M25	
<b>LMP 210</b>	1	98	120	175	185	208	245	250	265
	2	140	162	205	225	235	250	255	270
	3	190	200	235	245	250	260	268	270

Flow rate l/min

# Dimensions

## LMP 210



### LMP 210

Length Filter	H mm
1	360
2	492
3	630

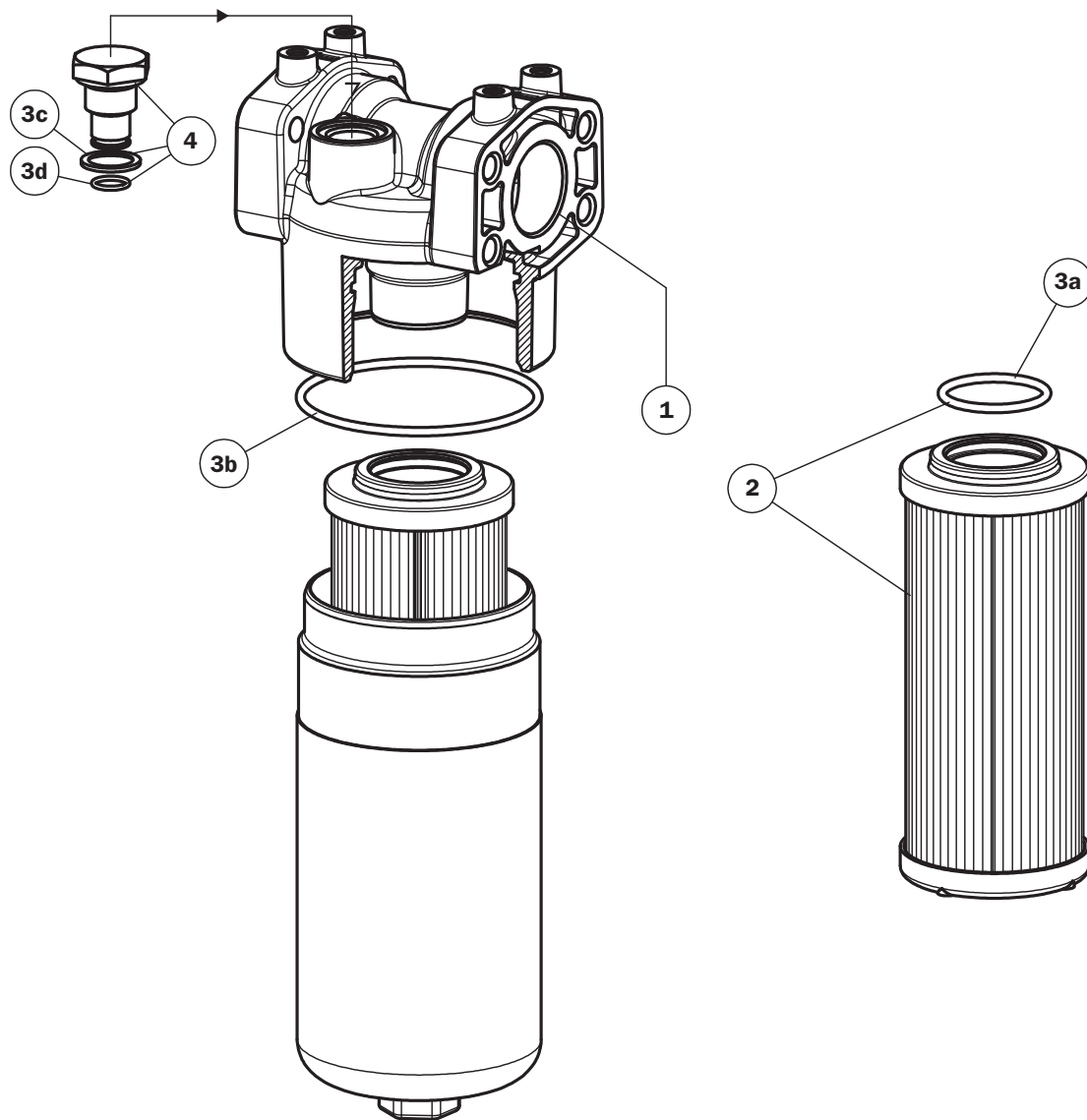
### Flanged connections

St.	A	B	C	D	E Depth 12 mm
F1	1" SAE - 3000 psi/M	52,4	26,2	M10	M8
F2	1 1/4" SAE - 3000 psi/M	58,7	30,2	M10	M8
F3	1 1/2" SAE - 3000 psi/M	70	35,7	M12	M8
F4	1" SAE - 3000 psi/UNC	52,4	26,2	3/8" UNC	5/16" UNC
F5	1 1/4" SAE - 3000 psi/UNC	58,7	30,2	7/16" UNC	5/16" UNC
F6	1 1/2" SAE - 3000 psi/UNC	70	35,7	1/2" UNC	5/16" UNC

### Thread connections

St.	A	E Depth 12 mm
G1	G 1"	M8
G2	G 1 1/4"	M8
G3	G 1 1/2"	M8
G4	1" NPT	5/16" UNC
G5	1 1/4" NPT	5/16" UNC
G6	1 1/2" NPT	5/16" UNC
G7	SAE 16 - 1 1/16" - 12 UN	5/16" UNC
G8	SAE 20 - 1 5/8" - 12 UN	5/16" UNC
G9	SAE 24 - 1 7/8" - 12 UN	5/16" UNC

# Spare parts



Item	Description	Q.ty	FILTER Series LMP 210	
1	Filter assembly	1	See order table	
2	Filter element	1	See order table	
3	Seals kit	1	NBR 02050435	FPM 02050436
3a	O-Ring filter element	1	O-R 144 Ø 39,69 x 3,53	
3b	O-Ring housing	1	O-R 4375 Ø 94,84 x 3,53	
3c	Seal for indicator	1	01030058	01030046
3d	O-Ring for indicator	2	O-R 2050 Ø 12,42 x 1,78	
4	Indicator connection plug	1	T2H	T2V
-	Indicators	1	See order table	



# Ordering information LMP 210

## Filter assembly LMP210

Example: LMP210

<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2</b>	<b>B</b>	<b>A</b>	<b>G3</b>	<b>A10</b>	<b>N</b>	<b>P01</b>

## Filter element CU210

Example: CU210

<b>2</b>	<b>6</b>	<b>4</b>	<b>7</b>	<b>8</b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2</b>	<b>A10</b>	<b>A</b>	<b>N</b>	<b>P01</b>

### 1 - Style

Filter	Filter element
<b>210</b>	<b>210</b>

### 2 - Filter length

<b>1</b>
<b>2</b>
<b>3</b>

### 3 - Valve

<b>S</b>	Without by-pass
<b>B</b>	With bypass
<input type="checkbox"/>	With by-pass Opening pressure: on request

### 4 - Filter seals

<b>A</b>	NBR
<b>V</b>	FPM
<b>W</b>	NBR (Compatible with fluid HFA, HFB, HFC)
<input type="checkbox"/>	On request

### 5 - Connections

#### Threaded

Type	LMP 210
<b>G1</b>	<b>G 1"</b>
<b>G2</b>	<b>G 1 1/4"</b>
<b>G3</b>	<b>G 1 1/2"</b>
<b>G4</b>	<b>1" NPT</b>
<b>G5</b>	<b>1 1/4" NPT</b>
<b>G6</b>	<b>1 1/2" NPT</b>
<b>G7</b>	<b>SAE 16 - 1 5/16" - 12 UN</b>
<b>G8</b>	<b>SAE 20 - 1 5/8" - 12 UN</b>
<b>G9</b>	<b>SAE 24 - 1 7/8" - 12 UN</b>

#### Flanged

Type	LMP 210
<b>F1</b>	<b>1" SAE 3000 psi/M</b>
<b>F2</b>	<b>1 1/4" SAE 3000 psi/M</b>
<b>F3</b>	<b>1 1/2" SAE 3000 psi/M</b>
<b>F4</b>	<b>1" SAE 3000 psi/UNC</b>
<b>F5</b>	<b>1 1/4" SAE 3000 psi/UNC</b>
<b>F6</b>	<b>1 1/4" SAE 3000 psi/UNC</b>

### 6 - Filter element

<b>A01</b>	Inorganic microfibre* 1 $\mu$	Absolute filtration Inorganic Microfibre $\beta_x(c) \geq 1000$
<b>A03</b>	Inorganic microfibre 3 $\mu$	
<b>A06</b>	Inorganic microfibre 6 $\mu$	
<b>A10</b>	Inorganic microfibre 10 $\mu$	
<b>A16</b>	Inorganic microfibre 16 $\mu$	
<b>A25</b>	Inorganic microfibre 25 $\mu$	

\* On request

<b>M25</b>	Wire mesh	Nominal Filtration Metal mesh
<b>M60</b>	Wire mesh	
<b>M90</b>	Wire mesh	
<b>P10</b>	Resin - Impregnated paper	Nominal Filtration Cellulose
<b>P25</b>	Resin - Impregnated paper	

### 7 - Max filter element differential pressure

<b>N</b>	$\Delta p$ 20 bar
<b>W</b>	$\Delta p$ 20 bar (Compatible with fluid HFA, HFB, HFC)

### 8 - Option

<b>P01</b>	MP Filtri standard
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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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