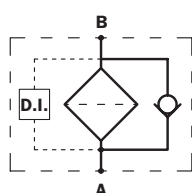
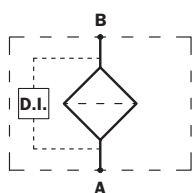


LMP 210



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 - Steel

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.

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

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

Volumes (dm³)

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, 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-HFDU

Filter Element Area

Filter element in stainless steel mesh

Length

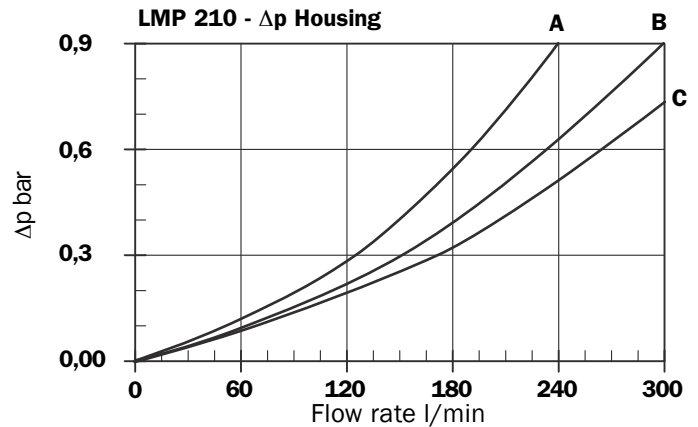
| Type | 1 | 2 | 3 |
|---------------|------|------|------|
| CU 210 | 3100 | 4950 | 7520 |

Values expressed in **cm²**

Filter housing Δp pressure drop

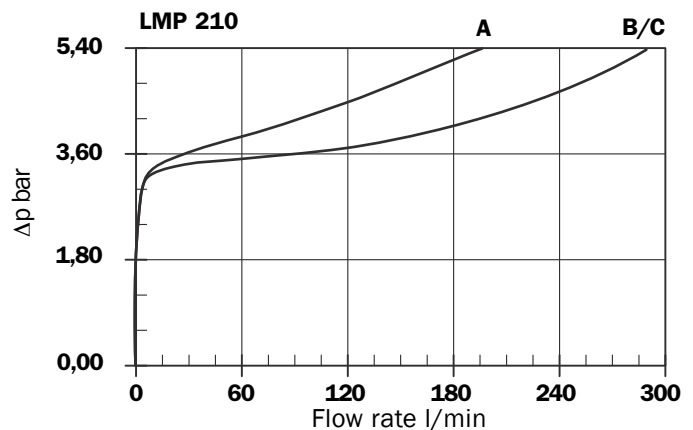
The curves are plotted utilising mineral oil with density of 0.86 kg/dm³ to ISO 3968.

Δp varies proportionally with density.



Valves

Bypass valve pressure drop



Connection referring to graphic pressure drop

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

Recommended maximum flow rate

- Pressure drop of filter assembly equal to Δp 0.6 bar.
- Oil kinematic viscosity 30 mm²/s (cSt).
- Density 0.86 kg/dm³.
- Connections of filter under test G 3".

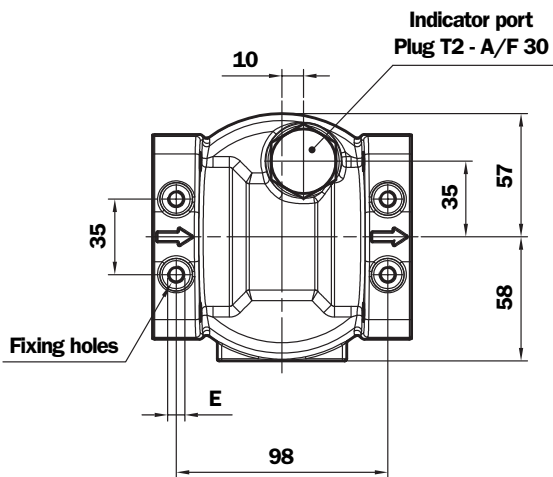
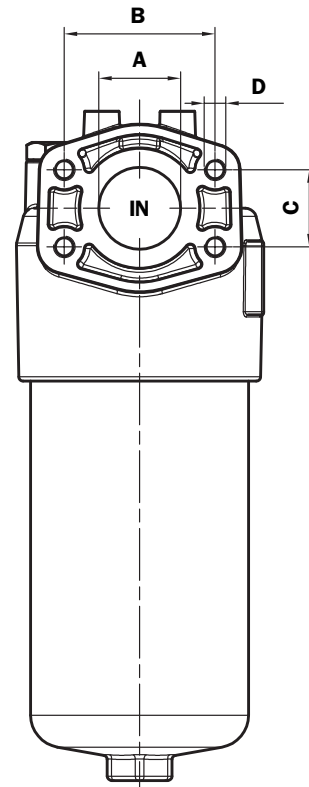
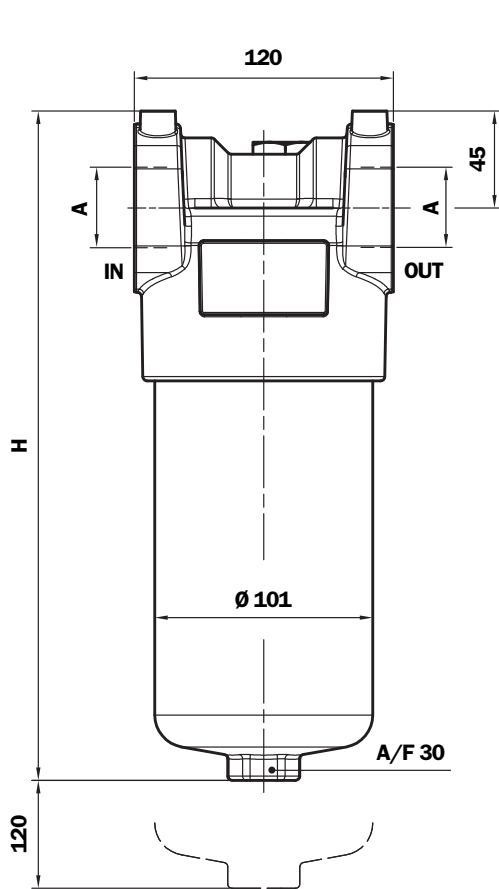
Filtration

| Leng. | A03 | A06 | A10 | A16 | A25 | P10 | P25 | M25 | |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| LMP 210 | 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 |

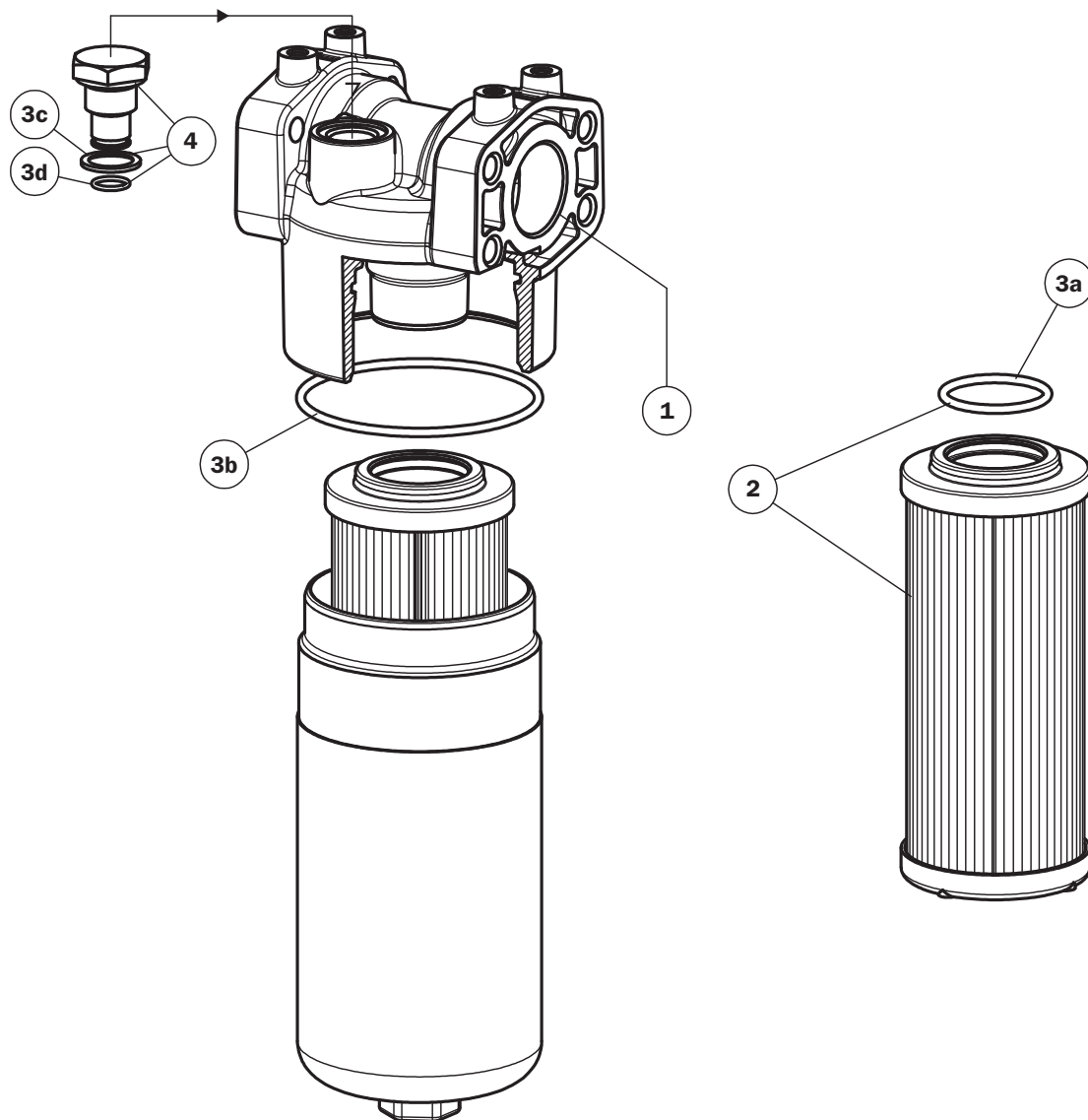
Flanged connections

| 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

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

Filter element CU210

Example: CU210

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

1 - Style

| | |
|---------------|-----------------------|
| Filter | Filter element |
| 210 | 210 |

2 - Filter length

| |
|----------|
| 1 |
| 2 |
| 3 |

3 - Valve

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

4 - Filter seals

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

5 - Connections

Threaded

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

Flanged

| Type | LMP 210 |
|-----------|--------------------------------|
| F1 | 1" SAE 3000 psi/M |
| F2 | 1 1/4" SAE 3000 psi/M |
| F3 | 1 1/2" SAE 3000 psi/M |
| F4 | 1" SAE 3000 psi/UNC |
| F5 | 1 1/4" SAE 3000 psi/UNC |
| F6 | 1 1/2" SAE 3000 psi/UNC |

6 - Filter element

| | | |
|------------|-------------------------------|---|
| A01 | Inorganic microfibre* 1 μ | } Absolute filtration $\beta_x(c) \geq 1000$ |
| A03 | Inorganic microfibre 3 μ | |
| A06 | Inorganic microfibre 6 μ | |
| A10 | Inorganic microfibre 10 μ | |
| A16 | Inorganic microfibre 16 μ | |
| A25 | Inorganic microfibre 25 μ | |

* On request

| | | |
|------------|-----------|----------------------|
| M25 | Wire mesh | } Nominal Filtration |
| M60 | Wire mesh | |
| M90 | Wire mesh | |

| | | |
|------------|-------------------------|----------------------|
| P10 | Resin impregnated paper | } Nominal Filtration |
| P25 | Resin impregnated paper | |

7 - Max filter element differential pressure

| | |
|----------|-------------------|
| N | Δp 20 bar |
|----------|-------------------|

8 - Option

| | |
|------------|--------------------|
| P01 | MP Filtri standard |
|------------|--------------------|

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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