Protect the performance of your system with MYclean.
Quality and efficiency are fundamental for MP Filtri: this exclusive new filter element possesses polygon shape geometry and specific seal that ensures only original spare parts can be used - ensuring correct operation and higher system reliability.

**MPLX series**

*with MY\text{CLEAN} MLX Filter Element*

- **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 MPLX are protected by:
- Italian Patent n° 102014902261205
- Canadian Patent n° 2,937,258
- European Patent n° 3 124 092 B1
- US Patent n° 20170030384 A1
MPLX series

Maximum working pressure up to 1 MPa (10 bar) - Flow rate up to 1800 l/min
MPLX filters are provided for vertical mounting.

Return filters

Maximum working pressure up to 1 MPa (10 bar)
Flow rate up to 1800 l/min

MPLX is a range of return filters for protection of the reservoir against the system contamination. Completely interchangeable with Pall 8420 & 8520, they are directly fixed to the reservoir, in immersed or semi-immersed position.

The use of the diffuser is recommended, to place the filter output always immersed into the fluid to avoid aeration or foam generation into the reservoir.

The filter output must be always immersed into the fluid to avoid aeration or foam generation into the reservoir.

Available features:
- Flanged connections up to 3", for a maximum flow rate of 1800 l/min
- Fine filtration rating, to get a good cleanliness level into the reservoir
- Bypass valve, to relieve excessive pressure drop across the filter media
- 6 fixing holes for installation, to suit a variety of reservoir surfaces
- Diffuser, to reduce the risk of aeration, foaming and noise
- Filler plug, to fill cleaned fluid into the tank without an additional connection
- Visual, electrical and electronic differential clogging indicators
- MYclean interface connection for the filter element, to protect the product against non-original spare parts

Common applications:
- Heavy duty industrial equipment
- Heavy duty mobile equipment

Filter housing materials
- Head: Anodized aluminium
- Cover: Anodized aluminium
- Bowl: Phosphatized steel
- Bypass valve: Steel

Bypass valve
- Opening pressure 450 kPa (4.5 bar) ±10%

Δp element type
- Microfiber filter elements: 10 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

Weights [kg] and volumes [dm³]

<table>
<thead>
<tr>
<th>Filter series</th>
<th>Weights [kg]</th>
<th>Volumes [dm³]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Length 2</td>
<td>Length 2</td>
</tr>
<tr>
<td>MPLX 250</td>
<td>8.95</td>
<td>2.90</td>
</tr>
<tr>
<td>MPLX 660</td>
<td>20.20</td>
<td>11.00</td>
</tr>
</tbody>
</table>
The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.

### Filter element design - N Series

<table>
<thead>
<tr>
<th>Filter series</th>
<th>Length</th>
<th>A03</th>
<th>A06</th>
<th>A10</th>
<th>A16</th>
<th>A25</th>
<th>M25</th>
<th>M60</th>
<th>M90</th>
<th>P10</th>
<th>P25</th>
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<tr>
<td>MPLX 250</td>
<td>2</td>
<td>157</td>
<td>155</td>
<td>281</td>
<td>312</td>
<td>325</td>
<td>583</td>
<td>392</td>
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</tr>
<tr>
<td>MPLX 660</td>
<td>2</td>
<td>376</td>
<td>384</td>
<td>820</td>
<td>925</td>
<td>1018</td>
<td>1732</td>
<td>1332</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Maximum flow rate for a complete return filter with a pressure drop Δp = 0.5 bar.

The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

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

- **Filter series**
  - MPLX 250
  - MPLX 660

- **Style 1 connection + Diff. indic.**

### Pressure drop

#### Filter housings

**Δp pressure drop**

#### Bypass valve

**Pressure drop**

The curves plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.
### COMPLETE FILTER

<table>
<thead>
<tr>
<th>Series and size</th>
<th>Configuration example 1: MPLX250</th>
<th>2</th>
<th>D</th>
<th>S</th>
<th>V</th>
<th>A</th>
<th>6</th>
<th>M25</th>
<th>P01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>2</td>
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<td></td>
<td></td>
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<tr>
<td>By-pass valve</td>
<td>D 4.5 bar</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diffuser</td>
<td>S Without diffuser</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D With standard diffuser</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Seals and treatments</td>
<td>A NBR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>V FPM</td>
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<td></td>
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<tr>
<td>Connections</td>
<td>MPLX250</td>
<td>2&quot; SAE 3000 psi/M</td>
<td>3&quot; SAE 3000 psi/UNC</td>
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<tr>
<td></td>
<td>MPLX660</td>
<td>2&quot; SAE 3000 psi/UNC</td>
<td>3&quot; SAE 3000 psi/UNC</td>
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</tr>
<tr>
<td>Connection for differential indicator</td>
<td>6 With plugged connection</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Filtration rating (filter media)</td>
<td>A03 Inorganic microfiber 3 µm</td>
<td>M25 Wire mesh 25 µm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A06 Inorganic microfiber 6 µm</td>
<td>M60 Wire mesh 60 µm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A10 Inorganic microfiber 10 µm</td>
<td>M90 Wire mesh 90 µm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>A16 Inorganic microfiber 16 µm</td>
<td>P10 Resin impregnated paper 10 µm</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A25 Inorganic microfiber 25 µm</td>
<td>P25 Resin impregnated paper 25 µm</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### FILTER ELEMENT

<table>
<thead>
<tr>
<th>Element series and size</th>
<th>Configuration example 1: MLX250</th>
<th>2</th>
<th>M25</th>
<th>V</th>
<th>P01</th>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
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<tr>
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<td></td>
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<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A25 Inorganic microfiber 25 µm</td>
<td>P25 Resin impregnated paper 25 µm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CLOGGING INDICATORS

- DEA Electrical differential indicator
- DEM Electrical differential indicator
- DLA Electrical / visual differential indicator
- DLE Electrical / visual differential indicator
- DTA Electronic differential indicator
- DVA Visual differential indicator
- DVM Visual differential indicator

### PLUGS

- T2 Differential indicator plug

---

Return filters 180
**MPLX250 Dimensions**

### MPLX250 with diffuser

**Filter length** | H1 [mm] | H3 [mm]  
--- | --- | ---  
2 | 422 | 350

**Dimensions**

- **H1** - Total length immersed in the tank
- **H3** - Recommended clearance space for maintenance

**Connections**

- Drain plug
- O-Ring seal (1.6 mm)
- A/F 55
- M10 - 3/8” UNC
- Nr. 6 blind holes
- Holes on the tank (Ø170)
- Connection for differential indicator T2 plug

**Holes on the tank**

- Ø120
- Ø170

**Connection for differential indicator**

- T2 plug

**A/F**

- A/F 55
- A/F 69

**Holes on the tank**

- Ø120
- Ø170

**MPLX250 without diffuser**

**Filter length** | H1 [mm] | H3 [mm]  
--- | --- | ---  
2 | 325 | 350

**Dimensions**

- **H1** - Total length immersed in the tank
- **H3** - Recommended clearance space for maintenance

**Connections**

- Drain plug
- O-Ring seal (1.6 mm)
- A/F 55
- M10 - 3/8” UNC
- Nr. 6 blind holes
- Holes on the tank (Ø170)
- Connection for differential indicator T2 plug

**Holes on the tank**

- Ø120
- Ø170

**Connection for differential indicator**

- T2 plug

**A/F**

- A/F 55
- G 1 1/2"

**Holes on the tank**

- Ø120
- Ø170

**M10 - 3/8” UNC**

- Nr. 6 blind holes
MPLX  MPLX660

Dimensions

**with diffuser**

<table>
<thead>
<tr>
<th>Filter length</th>
<th>H1 [mm]</th>
<th>H3 [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>563</td>
<td>445</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3 - Recommended clearance space for maintenance</td>
</tr>
</tbody>
</table>

**without diffuser**

<table>
<thead>
<tr>
<th>Filter length</th>
<th>H1 [mm]</th>
<th>H3 [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>429</td>
<td>445</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3 - Recommended clearance space for maintenance</td>
</tr>
</tbody>
</table>

IN → OUT

M10 - 3/8" UNC

Nr. 6 blind holes

Holes on the tank

O-Ring seal

Drain plug

A/F 95

A/F 100

A/F 95

G 3"

IN → IN

Return filters

112
### Item: Filter Element Table

<table>
<thead>
<tr>
<th>Filter series</th>
<th>Filter element</th>
<th>Seal Kit code number</th>
<th>Indicator connection plug</th>
<th>Diffuser</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPLX 250</td>
<td>See order table</td>
<td>02050745 02050746</td>
<td>T2H 02050748</td>
<td>STD 100 C 115 P01</td>
</tr>
<tr>
<td>MPLX 660</td>
<td></td>
<td>02050747 02050748</td>
<td>T2V</td>
<td>STD 150 E 155 P01</td>
</tr>
</tbody>
</table>

**Order number for spare parts**

- Item: Filter Series
  - **Series**: MPLX
    - **Model**: 250
    - **Model**: 660

<table>
<thead>
<tr>
<th>Item</th>
<th>Q.ty. 1 pc.</th>
<th>Q.ty. 1 pc.</th>
<th>Q.ty. 1 pc.</th>
<th>Q.ty. 1 pc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

- **Model**: MPLX 250
- **Model**: MPLX 660

- **Seal Kit code number**
  - **NBR**: 02050745 02050746
  - **FPM**: 02050747 02050748

- **Indicator connection plug**
  - **NBR**: T2H
  - **FPM**: T2V

- **Diffuser**
  - **STD 100 C 115 P01**
  - **STD 150 E 155 P01**
**Accessories**

**Polyamide Extension Tube**

<table>
<thead>
<tr>
<th>Series</th>
<th>Size</th>
<th>ø D [mm]</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE</td>
<td>25</td>
<td>25</td>
<td>A Polyamide</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>32</td>
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<td>40</td>
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</table>

**Configuration example:**

<table>
<thead>
<tr>
<th>Length</th>
<th>H1 [mm]</th>
</tr>
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<tbody>
<tr>
<td>200</td>
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<tr>
<td>250</td>
<td>250</td>
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<tr>
<td>300</td>
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<td>350</td>
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<td>400</td>
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<tr>
<td>450</td>
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<tr>
<td>500</td>
<td>500</td>
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</table>

**COMPATIBILITY TABLE**

<table>
<thead>
<tr>
<th>Filter series</th>
<th>Filter size</th>
<th>Filter length</th>
<th>ø D [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPF - MPFX</td>
<td>30</td>
<td></td>
<td></td>
</tr>
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<td>MPF</td>
<td>100</td>
<td>104</td>
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</tr>
<tr>
<td>MPFX</td>
<td>100</td>
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<td>MPF - MPFX</td>
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<td>MPT</td>
<td>110</td>
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<td>MPTX</td>
<td>110</td>
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</table>

**Steel Extension Tube**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>MPF191 2 A F1 A10 H B S60</td>
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</table>

**COMPATIBILITY TABLE**

<table>
<thead>
<tr>
<th>Filter series</th>
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<th>Filter length</th>
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<tbody>
<tr>
<td>MPF</td>
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<td>410</td>
<td>450</td>
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<tr>
<td></td>
<td>451</td>
<td>500</td>
<td></td>
</tr>
</tbody>
</table>
**DIFFUSER WITH FAST LOCK CONNECTION**

**Materials**
- Screw: phosphatized steel
- Stick: phosphatized steel
- Handle: Polyamide

**Technical data**
- Working temperature: from -25 °C to +110 °C

**Series**
- DFS

**Configuration example:**
- DFS 32 A 075

**Materials**
- Body: Polyamide
- Seal: NBR

**Technical data**
- Tightening torque: 15 N·m

**DSTICK**

**Materials**
- Screw: phosphatized steel
- Stick: phosphatized steel
- Handle: Polyamide

**Technical data**
- Working temperature: from -25 °C to +110 °C

**Series**
- DPT

**Configuration example:**
- DPT 20 M10 A P01

**Seals**
- A NBR
- V FPM

**Execution**
- P01 MP Filtri standard
- Pxx Customized

**FILLER PLUG**

**Materials**
- Body: Polyamide
- Seal: NBR

**Technical data**
- Tightening torque: 15 N·m

For any further information, please, contact our commercial dept.