



THE X CONCEPT FOR OUR FILTERS

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.

MPTX series

with MYCLEAN MFX 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 MPTX 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

TOGETHER WITH MYCLEAN, AS OPTION, MPTX SERIES CAN BE PROVIDED WITH

zerospark®  
THE ANTI-STATIC FILTERS

THE Z CONCEPT FOR OUR FILTERS



Zerospark® is a specialist solution designed to solve the problem of electrostatic discharge inside hydraulic filters. Caused by the electrical charge build-up due to the passage of oil through the filters, this can result in damage to filter elements, oils and circuit components. It can even cause fire hazards in environments where flammable materials are present.

# MPTX series

Maximum working pressure up to 800 kPa (8 bar) - Flow rate up to 300 l/min



## Description

## Technical data

### Return filter

**Maximum working pressure up to 800 kPa (8 bar)**

**Flow rate up to 300 l/min**

MPTX is a range of return filters with integrated breather filter, for protection of the reservoir against the system contamination.

They are directly fixed to the reservoir, in immersed or semi-immersed position.

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

### Available features:

- Female threaded connections up to 1 1/4", for a maximum flow rate of 300 l/min
- Multiple connections, to connect several return lines or drains
- Fine filtration rating, to get a good cleanliness level into the reservoir
- Bypass valve integrated into the filter element, to relieve excessive pressure drop across the filter media
- 2, 3 or 6 fixing holes for installation, to suit a variety of reservoir surfaces
- O-ring or Flat Seal to suit a variety of reservoir surfaces
- Screw-in cover with a special shape, to allow the filter element replacement without the use of specific tools
- Oil dipstick, to easily check the level of the fluid into the reservoir (sold as separate item)
- Extension tube, to be used in deep reservoirs (sold as separate item)
- Diffuser, to reduce the risk of aeration, foaming and noise (sold as separate item)
- Integrated breather filter, to clean the air that moves into the reservoir as result of the oil level fluctuation
- Integrated breather filter with pressurization valve, to clean the air that moves into the reservoir as result of the oil level fluctuation and to guarantee the pressurization into the reservoir
- Visual, electrical and electronic clogging indicators
- MYclean interface connection, to protect the product against non-original spare parts
- External protective wrap, to optimize the flow through the element and to save the element efficiency against non-proper handling

### Common applications:

- Light industrial equipment
- Mobile application

### Filter housing materials

- Head: Aluminium
- Cover: Polyamide
- Bowl: Polyamide

### Bypass valve

- Opening pressure 175 kPa (1.75 bar)  $\pm 10\%$
- Opening pressure 300 kPa (3 bar)  $\pm 10\%$

### $\Delta p$ element type

- Microfiber filter elements - series H: 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

### Note

MPTX filters are provided for vertical mounting

## Weights [kg] and volumes [dm<sup>3</sup>]

Filter series	Weights [kg]					Volumes [dm <sup>3</sup> ]				
	Length	1	2	3	4	Length	1	2	3	4
<b>MPTX 025</b>		0.41	0.45	0.50	-		0.24	0.35	0.42	-
<b>MPTX 027</b>		0.44	0.48	0.55	-		0.24	0.35	0.42	-
<b>MPTX 110</b>		1.00	1.05	1.15	1.40		0.72	0.93	1.28	1.74
<b>MPTX 114</b>		1.10	1.15	1.25	1.50		0.72	0.93	1.28	1.74
<b>MPTX 116</b>		1.10	1.15	1.25	1.50		0.72	0.93	1.28	1.74
<b>MPTX 120</b>		1.00	1.05	1.15	1.40		0.72	0.93	1.28	1.74

Flow rates [l/min]

Filter series	Length	Filter element design - H series					Filter element design - N series		
		A03	A06	A10	A16	A25	M25 M60 M90	P10	P25
<b>MPTX 025-027</b>	<b>1</b>	7	10	23	28	42	59	51	54
	<b>2</b>	17	20	45	48	56	72	64	67
	<b>3</b>	21	24	50	55	59	76	74	75
<b>MPTX 110-120 114-116</b>	<b>1</b>	18	20	53	56	65	153	87	96
	<b>2</b>	28	38	65	75	95	158	111	123
	<b>3</b>	48	55	125	135	169	289	224	251
	<b>4</b>	79	89	180	185	198	306	264	289

**Maximum flow rate for a complete return filter with a pressure drop  $\Delta p = 0.5$  bar.**

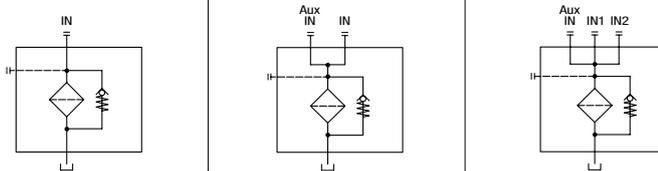
The reference fluid has a kinematic viscosity of 30 mm<sup>2</sup>/s (cSt) and a density of 0.86 kg/dm<sup>3</sup>.

For different pressure drop or fluid viscosity we recommend to use our selection software available on [www.mpfiltri.com](http://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

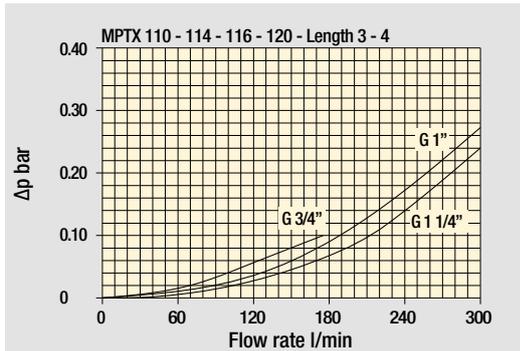
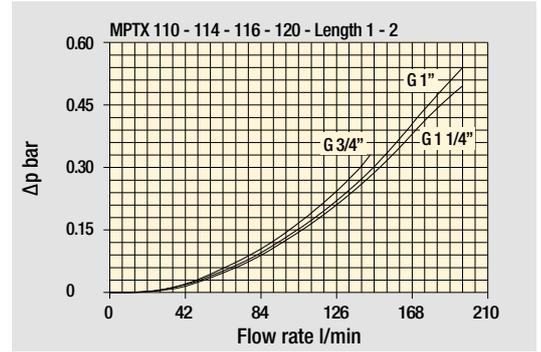
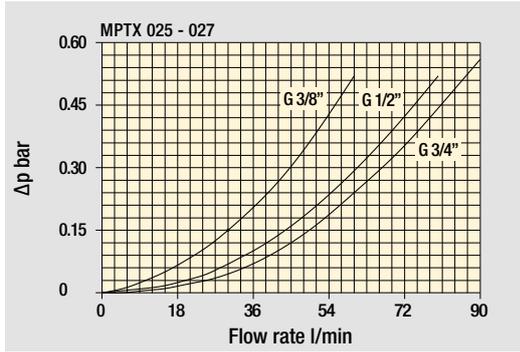
Filter series	Style 1 connection	Style 2 connections	Style 3 connections
<b>MPTX 025</b>	•	-	-
<b>MPTX 027</b>	•	-	-
<b>MPTX 110</b>	-	•	-
<b>MPTX 114</b>	•	-	-
<b>MPTX 116</b>	•	-	-
<b>MPTX 120</b>	-	-	•



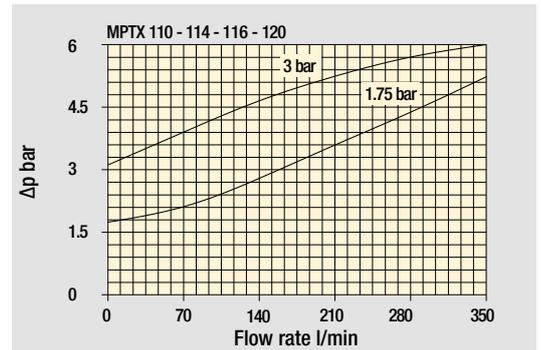
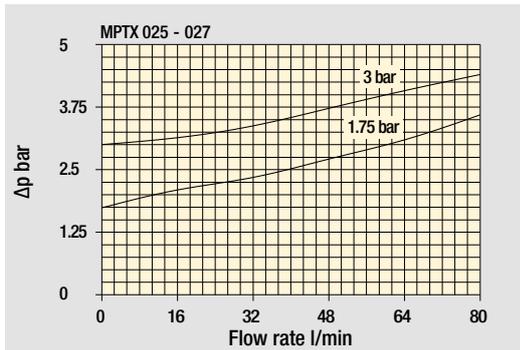
# MPTX GENERAL INFORMATION

## Pressure drop

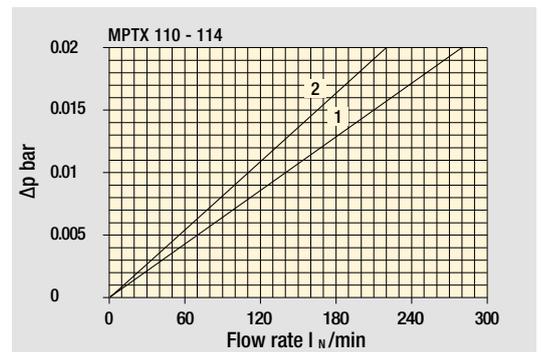
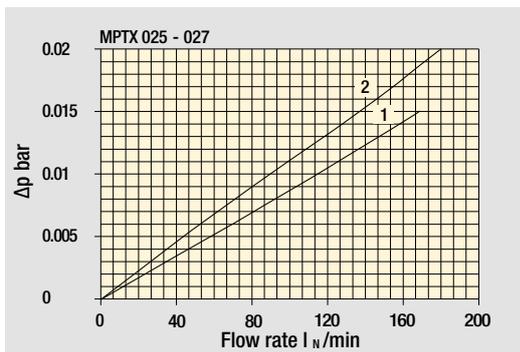
### Filter housings $\Delta p$ pressure drop



### Bypass valve pressure drop



### Air breather pressure drop



- 1  C With air breather 10  $\mu\text{m}$
- 2  D With anti-splash and SAP50 10  $\mu\text{m}$

The curves are plotted using mineral oil with density of 0.86 kg/dm<sup>3</sup> in compliance with ISO 3968.  $\Delta p$  varies proportionally with density.

MPTX 025 -027		
Air breather port plugged Indicator port	Air breather standard Indicator port	Anti-splash air breather & pressurized Double indicator port
		

Multiport - Multifunction

MPTX 110	
Standard - Single IN Port	Double IN Port - Double indicator port
	
Double IN Port Option: double drain port	Double IN Port - Indicator port Option: drain port
	

**MPTX 120**  
Triple IN port

Option: double drain port



# MPTX MPTX025 - MPTX027

## Designation & Ordering code

### COMPLETE FILTER

<b>Series and size</b>	Configuration example 1: <b>MPTX025</b>	<b>1</b>	<b>S</b>	<b>A</b>	<b>G3</b>	<b>A10</b>	<b>E</b>	<b>P01</b>																								
<b>MPTX025   MPTX027</b> Filter featuring <b>MYCLEAN</b> Filter Element	Configuration example 2: <b>MPTX027</b>	<b>3</b>	<b>C</b>	<b>W</b>	<b>G6</b>	<b>A03</b>	<b>B</b>	<b>P01</b>																								
<b>Length</b>	<b>1   2   3</b>																															
<b>Air breather</b>	<b>S</b> Without air breather <b>C</b> With air breather 10 µm <b>D</b> With anti-splash and air breather SAP050 10 µm <b>P</b> With anti-splash and air breather SAP050 10 µm, pressurization 0.5 bar																															
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\* Not for Mxx filter media

### FILTER ELEMENT

<b>Element series and size</b>	Configuration example 2: <b>MFX020</b>	<b>1</b>	<b>A10</b>	<b>H</b>	<b>B</b>	<b>E</b>	<b>P01</b>																
<b>MFX020</b> Filter Element with <b>MYCLEAN</b> feature	Configuration example 1: <b>MFX020</b>	<b>3</b>	<b>A03</b>	<b>N</b>	<b>B</b>		<b>P01</b>																
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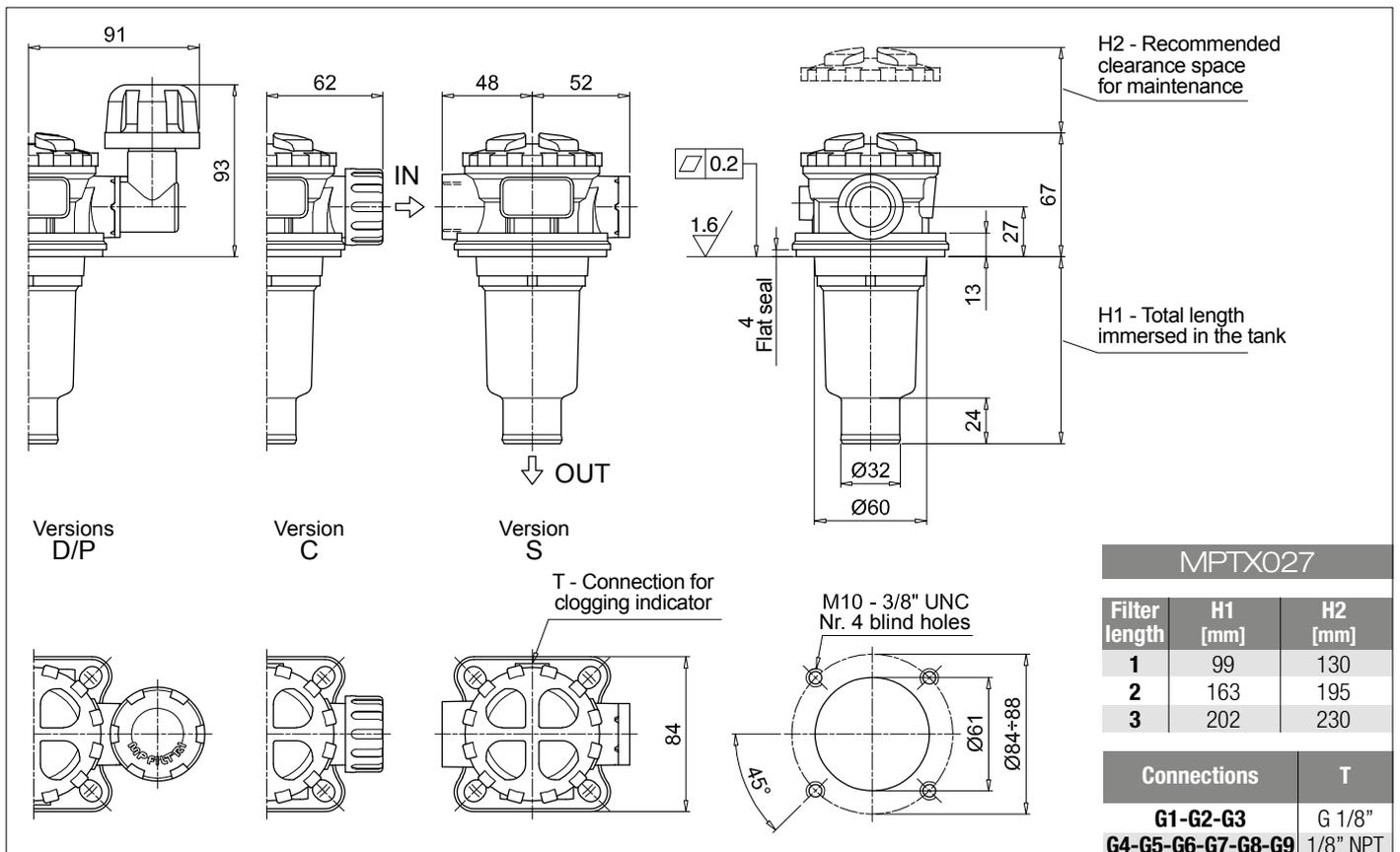
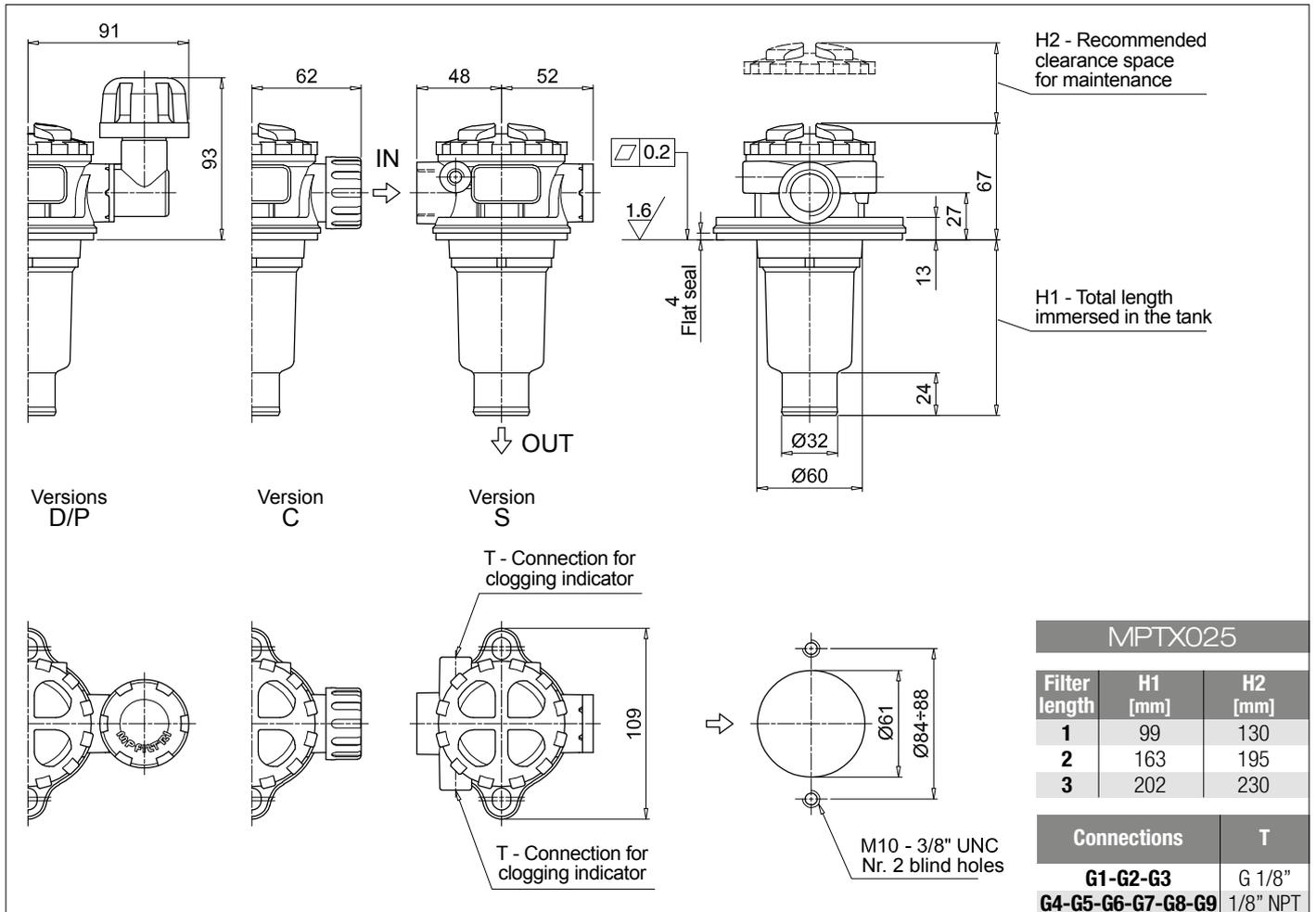
\* Not for Mxx filter media

### CLOGGING INDICATORS

<b>BVA</b> Axial pressure gauge	<b>BEA</b> Electrical pressure indicator	See page 720-721
<b>BVR</b> Radial pressure gauge	<b>BEM</b> Electrical pressure indicator	
<b>BVP</b> Visual pressure indicator with automatic reset	<b>BLA</b> Electrical / visual pressure indicator	
<b>BVQ</b> Visual pressure indicator with manual reset		

### ADDITIONAL FEATURES

<b>TE</b> Extension tube	See page 268
<b>DPT</b> Dipstick	



## Designation & Ordering code

### COMPLETE FILTER

**Series and size** Configuration example 1: **MPTX110** | 1 | S | A | G1 | 0 | A06 | E | P01

**MPTX110** Filter featuring **MYCLEAN** Filter Element Configuration example 2: **MPTX110** | 3 | P | V | G4 | 1 | M25 | B | P01

**Length**  
1 | 2 | 3 | 4

**Air breather**  
**S** Without air breather  
**C** With air breather 10 µm  
**D** With anti-splash and air breather SAP050 10 µm  
**P** With anti-splash and air breather SAP050 10 µm, pressurization 0.5 bar

Seals and treatments	Filtration rating		
	Axx	Mxx	Pxx
<b>A</b> NBR	•	•	•
<b>V</b> FPM	•	•	•
<b>W</b> NBR head anodized	•	•	-
<b>Z</b> FPM head anodized	•	•	-

Main Connections	Aux size 1	Aux size 2	Main Connections	Aux size 1	Aux size 2
<b>G1</b> G 3/4"	G 3/8"	G 1/2"	<b>G6</b> 1 1/4" NPT	3/8" NPT	1/2" NPT
<b>G2</b> G 1"			<b>G7</b> SAE 12 - 1 1/16" - 12 UN	SAE 6 - 9/16" - 18 UNF	SAE 8 - 3/4" - 16 UNF
<b>G3</b> G 1 1/4"	<b>G8</b> SAE 16 - 1 5/16" - 12 UN				
<b>G4</b> 3/4" NPT	<b>G9</b> SAE 20 - 1 5/8" - 12 UN				
<b>G5</b> 1" NPT	3/8" NPT	1/2" NPT			

**Aux connection** - see previous table  
**0** Not machined | **1** Aux size 1 | **2** Aux size 2

Filtration rating (filter media)	
<b>A03</b> Inorganic microfiber 3 µm	<b>M25</b> Wire mesh 25 µm
<b>A06</b> Inorganic microfiber 6 µm	<b>M60</b> Wire mesh 60 µm
<b>A10</b> Inorganic microfiber 10 µm	<b>M90</b> Wire mesh 90 µm
<b>A16</b> Inorganic microfiber 16 µm	<b>P10</b> Resin impregnated paper 10 µm
<b>A25</b> Inorganic microfiber 25 µm	<b>P25</b> Resin impregnated paper 25 µm

Executions		
<b>Base</b>	<b>zérospark*</b>	
<b>P01</b>	<b>Z01*</b>	MP Filtri standard
<b>Pxx</b>	<b>Zxx*</b>	Customized

\* Not for Mxx filter media

### FILTER ELEMENT

**Element series and size** Configuration example 1: **MFX100** | 1 | A06 | H | B | E | P01

**MFX100** Filter Element with **MYCLEAN** feature Configuration example 2: **MFX100** | 3 | M25 | N | V | P01

**Element length**  
1 | 2 | 3 | 4

Filtration rating (filter media)	
<b>A03</b> Inorganic microfiber 3 µm	<b>M25</b> Wire mesh 25 µm
<b>A06</b> Inorganic microfiber 6 µm	<b>M60</b> Wire mesh 60 µm
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<b>A25</b> Inorganic microfiber 25 µm	<b>P25</b> Resin impregnated paper 25 µm

Element Δp	Filter media		
	Axx	Mxx	Pxx
<b>N</b> 10 bar	-	•	•
<b>H</b> 10 bar	•	-	-

Executions		
<b>Base</b>	<b>zérospark*</b>	
<b>P01</b>	<b>Z01*</b>	MP Filtri standard
<b>Pxx</b>	<b>Zxx*</b>	Customized

Seals	Bypass valve
<b>B</b> NBR	<b>E</b> 3 bar
<b>V</b> FPM	- 1.75 bar

\* Not for Mxx filter media

### CLOGGING INDICATORS

<b>BVA</b> Axial pressure gauge	<b>BEA</b> Electrical pressure indicator
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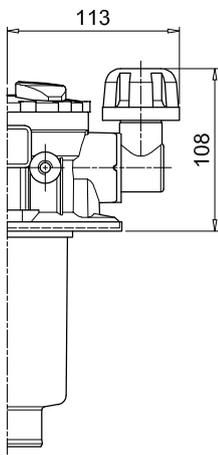
### ADDITIONAL FEATURES

<b>TE</b> Extension tube	<b>DPT</b> Dipstick
<b>DFS</b> Diffuser with fast lock connection	

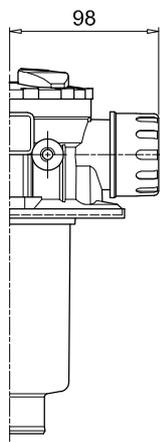
MPTX110		
Filter length	H1 [mm]	H2 [mm]
1	99	120
2	144	170
3	222	250
4	324	350

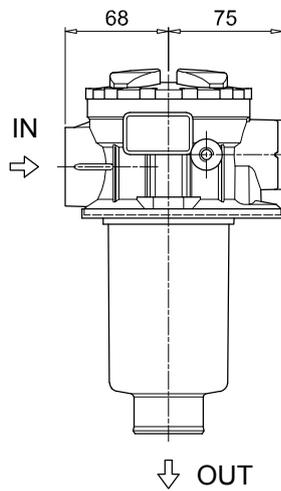
Connections	T
G1-G2-G3	G 1/8"
G4-G5-G6-G7-G8-G9	1/8" NPT



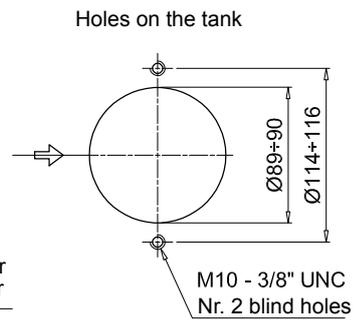
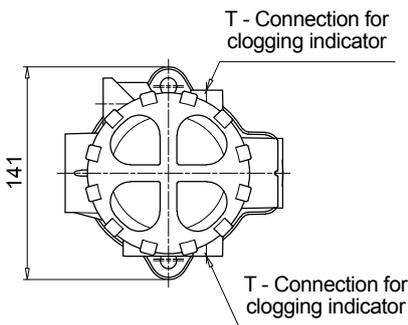
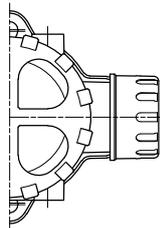
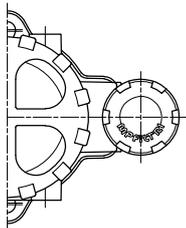
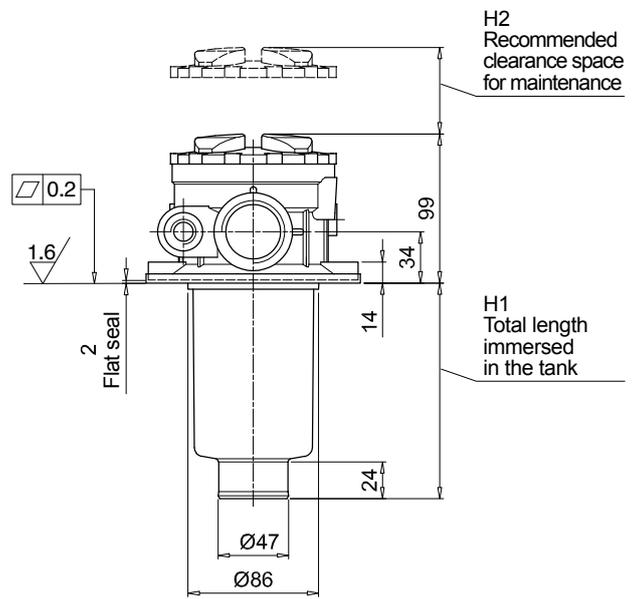
Versions D/P



Version C



Version S



## Designation & Ordering code

### COMPLETE FILTER

<b>Series and size</b>	Configuration example 1: <b>MPTX114</b>   <b>4</b>   <b>S</b>   <b>A</b>   <b>G3</b>   <b>A10</b>   <b>E</b>   <b>P01</b>																							
<b>MPTX114</b> Filter featuring <b>MYCLEAN</b> Filter Element	Configuration example 2: <b>MPTX114</b>   <b>3</b>   <b>C</b>   <b>W</b>   <b>G6</b>   <b>A03</b>   <b>B</b>   <b>P01</b>																							
<b>Length</b>	<b>1</b>   <b>2</b>   <b>3</b>   <b>4</b>																							
<b>Air breather</b>	<b>S</b> Without air breather <b>C</b> With air breather 10 µm <b>D</b> With anti-splash and air breather SAP050 10 µm <b>P</b> With anti-splash and air breather SAP050 10 µm pressurization 0.5 bar																							
<b>Seals and treatments</b>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="3">Filtration rating</th> </tr> <tr> <th>Axx</th> <th>Mxx</th> <th>Pxx</th> </tr> </thead> <tbody> <tr> <td><b>A</b> NBR</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td><b>V</b> FPM</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td><b>W</b> NBR head anodized</td> <td>•</td> <td>•</td> <td>-</td> </tr> <tr> <td><b>Z</b> FPM head anodized</td> <td>•</td> <td>•</td> <td>-</td> </tr> </tbody> </table>		Filtration rating			Axx	Mxx	Pxx	<b>A</b> NBR	•	•	•	<b>V</b> FPM	•	•	•	<b>W</b> NBR head anodized	•	•	-	<b>Z</b> FPM head anodized	•	•	-
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\* Not for Mxx filter media

### FILTER ELEMENT

<b>Element series and size</b>	Configuration example 2: <b>MFX100</b>   <b>4</b>   <b>A10</b>   <b>H</b>   <b>B</b>   <b>E</b>   <b>P01</b>															
<b>MFX100</b> Filter Element with <b>MYCLEAN</b> feature	Configuration example 1: <b>MFX100</b>   <b>3</b>   <b>A03</b>   <b>N</b>   <b>B</b>   <b>P01</b>															
<b>Element length</b>	<b>1</b>   <b>2</b>   <b>3</b>   <b>4</b>															
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<b>Pxx</b>	<b>Zxx*</b>	Customized														

\* Not for Mxx filter media

### CLOGGING INDICATORS

<b>BVA</b> Axial pressure gauge	<b>BEA</b> Electrical pressure indicator	See page 720-721
<b>BVR</b> Radial pressure gauge	<b>BEM</b> Electrical pressure indicator	
<b>BVP</b> Visual pressure indicator with automatic reset	<b>BLA</b> Electrical / visual pressure indicator	
<b>BVQ</b> Visual pressure indicator with manual reset		

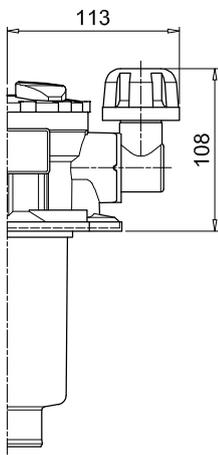
### ADDITIONAL FEATURES

<b>TE</b> Extension tube	<b>DPT</b> Dipstick	See page 268
<b>DFS</b> Diffuser with fast lock connection		

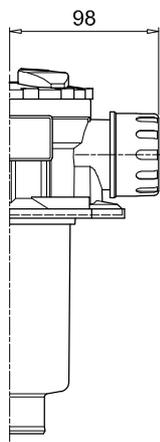
MPTX114		
Filter length	H1 [mm]	H2 [mm]
1	99	120
2	144	170
3	222	250
4	324	350

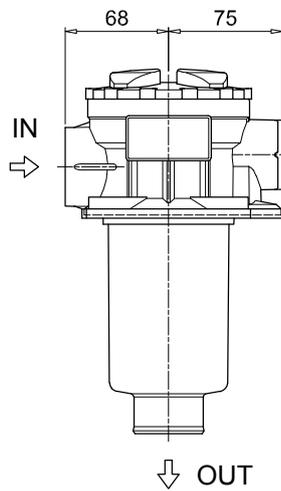
Connections	T
G1-G2-G3	G 1/8"
G4-G5-G6-G7-G8-G9	1/8" NPT



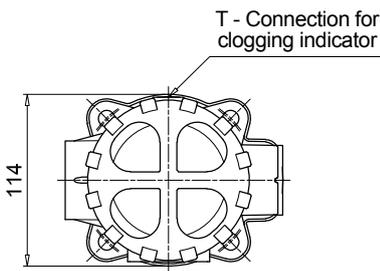
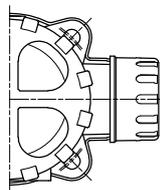
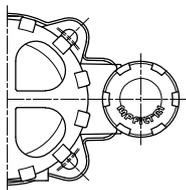
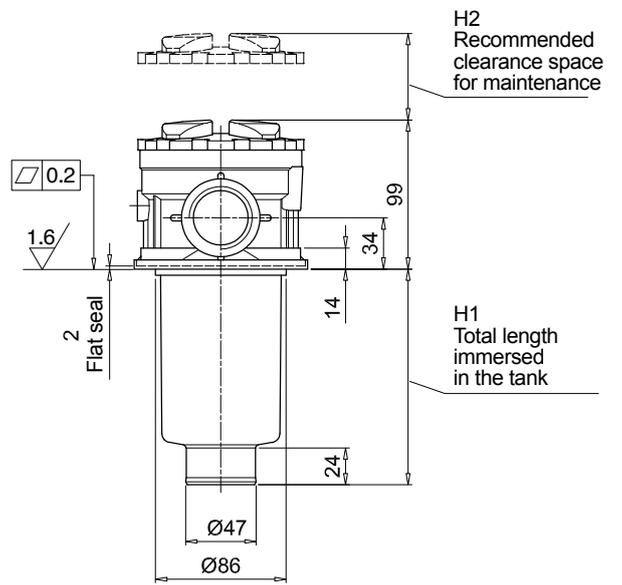
Versions D/P



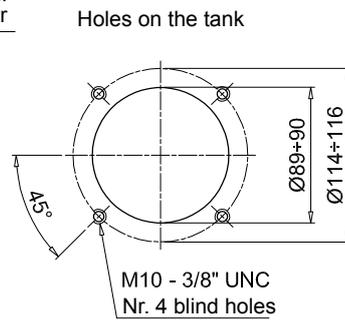
Version C



Version S



T - Connection for clogging indicator



Holes on the tank

M10 - 3/8" UNC  
Nr. 4 blind holes

# MPTX MPTX116

## Designation & Ordering code

### COMPLETE FILTER

<b>Series and size</b>	Configuration example 1: <b>MPTX116</b>   1   S   A   G1   M90   E   P01																				
<b>MPTX116</b> Filter featuring <b>MY CLEAN</b> Filter Element	Configuration example 2: <b>MPTX116</b>   2   S   Z   G9   A03   B   P01																				
<b>Length</b>	1   2   3   4																				
<b>Air breather</b>	S Without air breather																				
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<b>Pxx</b>	<b>Zxx*</b>	Customized																			

### FILTER ELEMENT

<b>Element series and size</b>	Configuration example 2: <b>MFx100</b>   1   M90   N   B   E   P01												
<b>MFx100</b> Filter Element with <b>MY CLEAN</b> feature	Configuration example 1: <b>MFx100</b>   2   A03   H   V   P01												
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<b>A03</b> Inorganic microfiber 3 µm	<b>M25</b> Wire mesh 25 µm												
<b>A06</b> Inorganic microfiber 6 µm	<b>M60</b> Wire mesh 60 µm												
<b>A10</b> Inorganic microfiber 10 µm	<b>M90</b> Wire mesh 90 µm												
<b>A16</b> Inorganic microfiber 16 µm	<b>P10</b> Resin impregnated paper 10 µm												
<b>A25</b> Inorganic microfiber 25 µm	<b>P25</b> Resin impregnated paper 25 µm												
<b>Element Δp</b>	<table border="1"> <thead> <tr> <th></th> <th>Axx</th> <th>Mxx</th> <th>Pxx</th> </tr> </thead> <tbody> <tr> <td><b>N</b> 10 bar</td> <td>-</td> <td>•</td> <td>•</td> </tr> <tr> <td><b>H</b> 10 bar</td> <td>•</td> <td>-</td> <td>-</td> </tr> </tbody> </table>		Axx	Mxx	Pxx	<b>N</b> 10 bar	-	•	•	<b>H</b> 10 bar	•	-	-
	Axx	Mxx	Pxx										
<b>N</b> 10 bar	-	•	•										
<b>H</b> 10 bar	•	-	-										
<b>Seals</b>	<table border="1"> <tr> <td><b>B</b> NBR</td> <td><b>V</b> FPM</td> </tr> </table>	<b>B</b> NBR	<b>V</b> FPM										
<b>B</b> NBR	<b>V</b> FPM												
<b>Bypass valve</b>	<table border="1"> <tr> <td><b>E</b> 3 bar</td> <td>- 1.75 bar</td> </tr> </table>	<b>E</b> 3 bar	- 1.75 bar										
<b>E</b> 3 bar	- 1.75 bar												
<b>Executions</b>	<table border="1"> <tr> <td><b>Base</b></td> <td><b>zerospark*</b></td> <td></td> </tr> <tr> <td><b>P01</b></td> <td><b>Z01*</b></td> <td>MP Filtri standard</td> </tr> <tr> <td><b>Pxx</b></td> <td><b>Zxx*</b></td> <td>Customized</td> </tr> </table> <p>* Not for Mxx filter media</p>	<b>Base</b>	<b>zerospark*</b>		<b>P01</b>	<b>Z01*</b>	MP Filtri standard	<b>Pxx</b>	<b>Zxx*</b>	Customized			
<b>Base</b>	<b>zerospark*</b>												
<b>P01</b>	<b>Z01*</b>	MP Filtri standard											
<b>Pxx</b>	<b>Zxx*</b>	Customized											

### CLOGGING INDICATORS

See page 720-721

<b>BVA</b> Axial pressure gauge	<b>BEA</b> Electrical pressure indicator
<b>BVR</b> Radial pressure gauge	<b>BEM</b> Electrical pressure indicator
<b>BVP</b> Visual pressure indicator with automatic reset	<b>BLA</b> Electrical / visual pressure indicator
<b>BVQ</b> Visual pressure indicator with manual reset	

### ADDITIONAL FEATURES

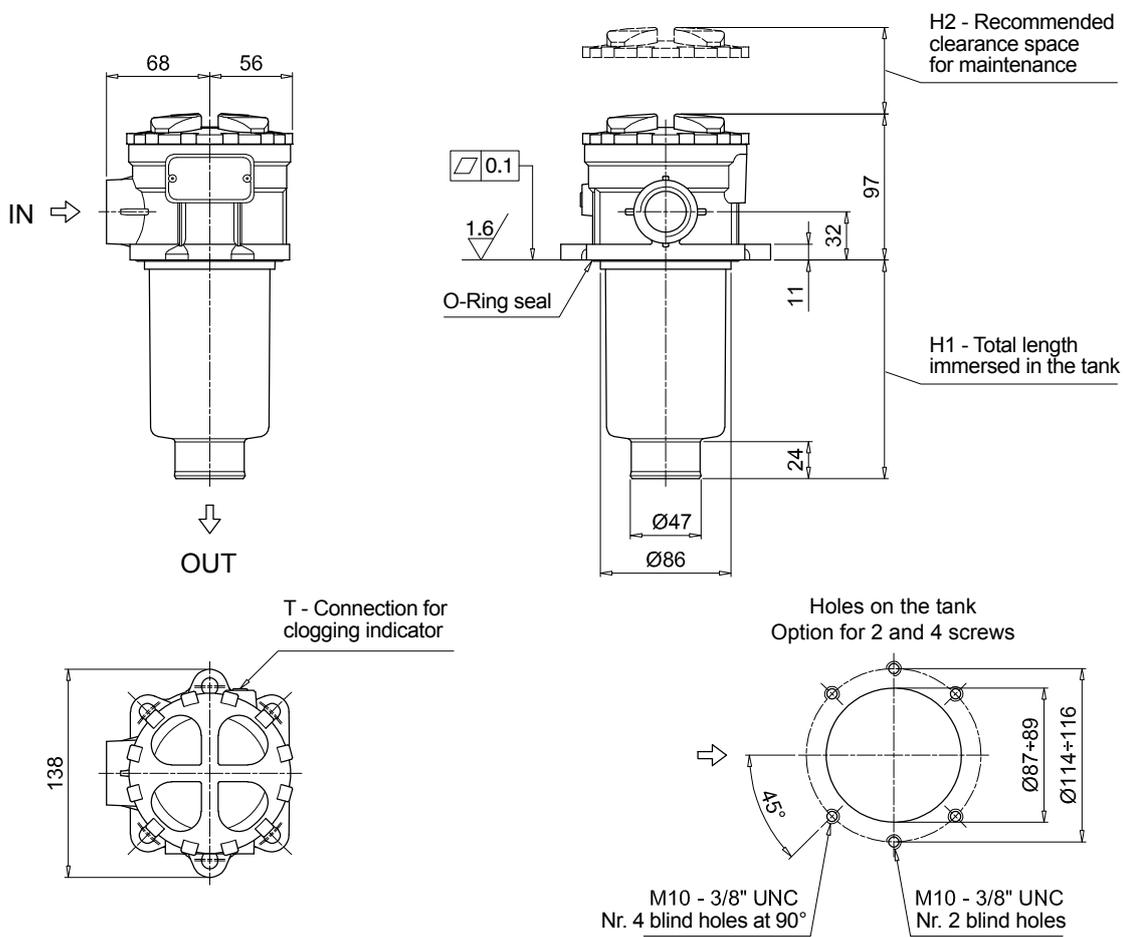
See page 268

<b>TE</b> Extension tube	<b>DPT</b> Dipstick
<b>DFS</b> Diffuser with fast lock connection	

MPTX116		
Filter length	H1 [mm]	H2 [mm]
<b>1</b>	99	120
<b>2</b>	146	170
<b>3</b>	224	250
<b>4</b>	326	350

Connections	T
<b>G1-G2-G3</b>	G 1/8"
<b>G4-G5-G6-G7-G8-G9</b>	1/8" NPT



## Designation & Ordering code

### COMPLETE FILTER

**Series and size**  
**MPTX120** Filter featuring **MY CLEAN** Filter Element

Configuration example 1: **MPTX120** | 1 | A | G1 | 0 | A06 | E | P01  
 Configuration example 2: **MPTX120** | 3 | V | G4 | 1 | M25 | B | P01

**Length**  
 1 | 2 | 3 | 4

**Seals and treatments**

	Axx	Mxx	Pxx
<b>A</b> NBR	•	•	•
<b>V</b> FPM	•	•	•
<b>W</b> NBR head anodized	•	•	-
<b>Z</b> FPM head anodized	•	•	-

**Filtration rating**

Main Connections	Rear connections	Aux size 1	Aux size 2
<b>G1</b> G 3/4"	G 3/4"	G 3/8"	G 1/2"
<b>G2</b> G 1"	G 1"		
<b>G3</b> G 1 1/4"	G 3/4"	3/8" NPT	1/2" NPT
<b>G4</b> 3/4" NPT	3/4" NPT		
<b>G5</b> 1" NPT	1" NPT	SAE 6 - 9/16" - 18 UNF	SAE 8 - 3/4" - 16 UNF
<b>G6</b> 1 1/4" NPT	3/4" NPT		
<b>G7</b> SAE 12 - 1 1/16" - 12 UN	SAE 12 - 1 1/16" - 12 UN		
<b>G8</b> SAE 16 - 1 5/16" - 12 UN	SAE 16 - 1 5/16" - 12 UN		
<b>G9</b> SAE 20 - 1 5/8" - 12 UN	SAE 12 - 1 1/16" - 12 UN		

**Aux connection** - see previous table  
 0 Not machined | 1 Aux size 1 | 2 Aux size 2

**Filtration rating (filter media)**

<b>A03</b> Inorganic microfiber 3 µm	<b>M25</b> Wire mesh 25 µm
<b>A06</b> Inorganic microfiber 6 µm	<b>M60</b> Wire mesh 60 µm
<b>A10</b> Inorganic microfiber 10 µm	<b>M90</b> Wire mesh 90 µm
<b>A16</b> Inorganic microfiber 16 µm	<b>P10</b> Resin impregnated paper 10 µm
<b>A25</b> Inorganic microfiber 25 µm	<b>P25</b> Resin impregnated paper 25 µm

**Bypass valve**  
**E** 3 bar  
**B** 1.75 bar

**Executions**

Base	zérospark*
<b>P01</b>	<b>Z01*</b> MP Filtri standard
<b>Pxx</b>	<b>Zxx*</b> Customized

\* Not for Mxx filter media

### FILTER ELEMENT

**Element series and size**  
**MFX100** Filter Element with **MY CLEAN** feature

Configuration example 1: **MFX100** | 1 | A06 | H | B | E | P01  
 Configuration example 2: **MFX100** | 3 | M25 | N | V | P01

**Element length**  
 1 | 2 | 3 | 4

**Filtration rating (filter media)**

<b>A03</b> Inorganic microfiber 3 µm	<b>M25</b> Wire mesh 25 µm
<b>A06</b> Inorganic microfiber 6 µm	<b>M60</b> Wire mesh 60 µm
<b>A10</b> Inorganic microfiber 10 µm	<b>M90</b> Wire mesh 90 µm
<b>A16</b> Inorganic microfiber 16 µm	<b>P10</b> Resin impregnated paper 10 µm
<b>A25</b> Inorganic microfiber 25 µm	<b>P25</b> Resin impregnated paper 25 µm

**Filter media**

Element Δp	Axx	Mxx	Pxx
<b>N</b> 10 bar	-	•	•
<b>H</b> 10 bar	•	-	-

**Seals**  
**B** NBR  
**V** FPM

**Bypass valve**  
**E** 3 bar  
 - 1.75 bar

**Executions**

Base	zérospark*
<b>P01</b>	<b>Z01*</b> MP Filtri standard
<b>Pxx</b>	<b>Zxx*</b> Customized

\* Not for Mxx filter media

### CLOGGING INDICATORS

See page 720-721

<b>BVA</b> Axial pressure gauge	<b>BEA</b> Electrical pressure indicator
<b>BVR</b> Radial pressure gauge	<b>BEM</b> Electrical pressure indicator
<b>BVP</b> Visual pressure indicator with automatic reset	<b>BLA</b> Electrical / visual pressure indicator
<b>BVQ</b> Visual pressure indicator with manual reset	

### ADDITIONAL FEATURES

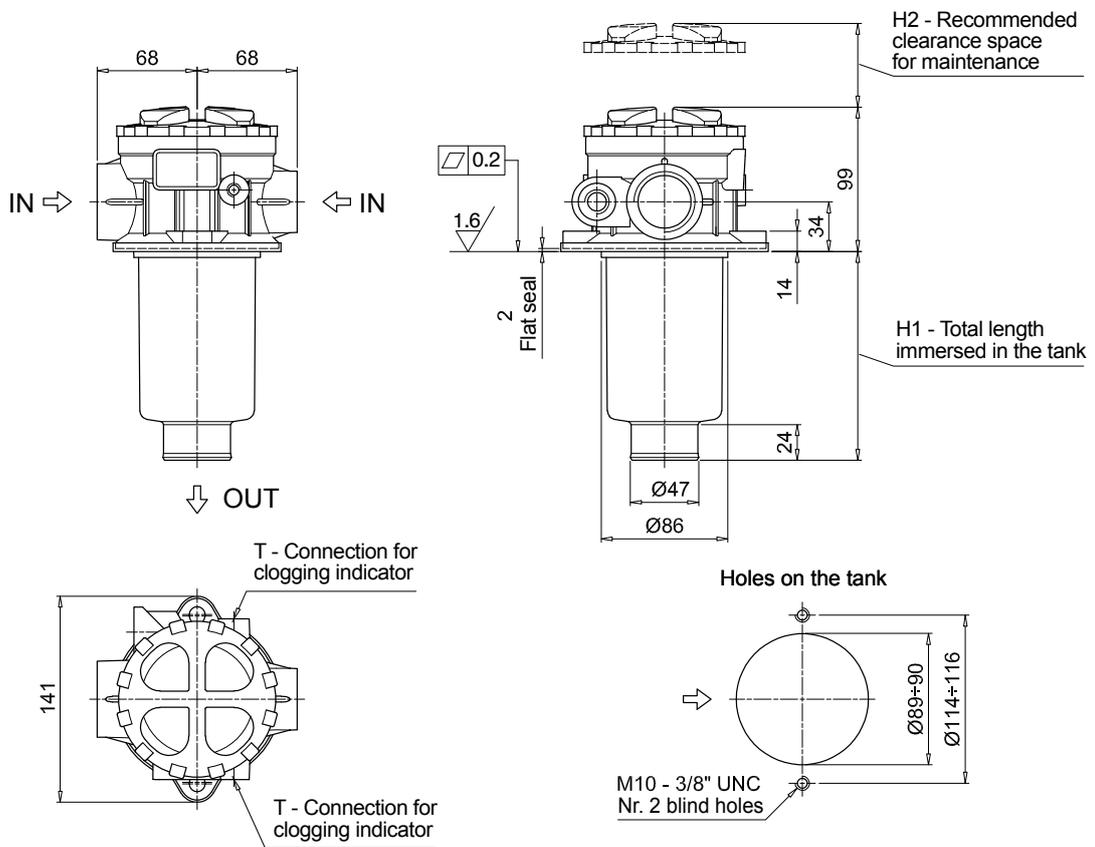
See page 268

<b>TE</b> Extension tube	<b>DPT</b> Dipstick
<b>DFS</b> Diffuser with fast lock connection	

MPTX120		
Filter length	H1 [mm]	H2 [mm]
<b>1</b>	99	120
<b>2</b>	144	170
<b>3</b>	222	250
<b>4</b>	324	350

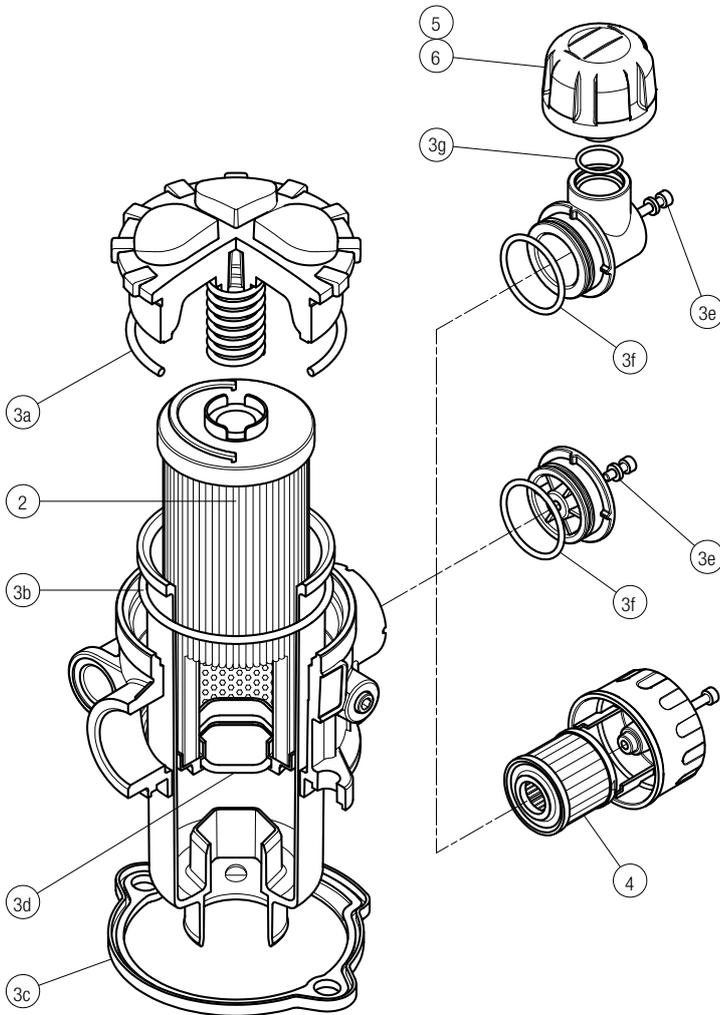
Connections	T
<b>G1-G2-G3</b>	G 1/8"
<b>G4-G5-G6-G7-G8-G9</b>	1/8" NPT



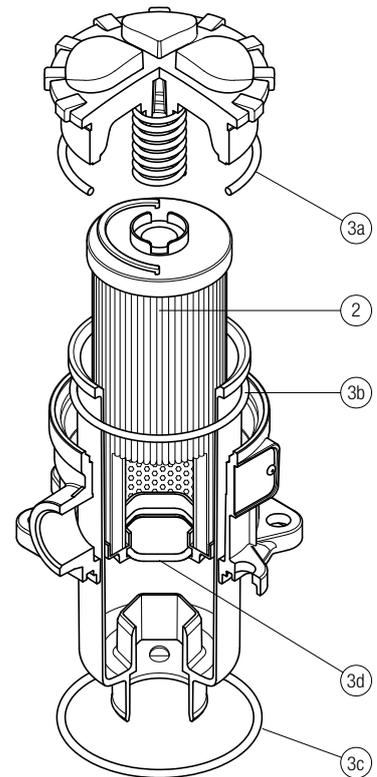
# MPTX SPARE PARTS

Order number for spare parts

**MPTX 025 - 027 - 110**



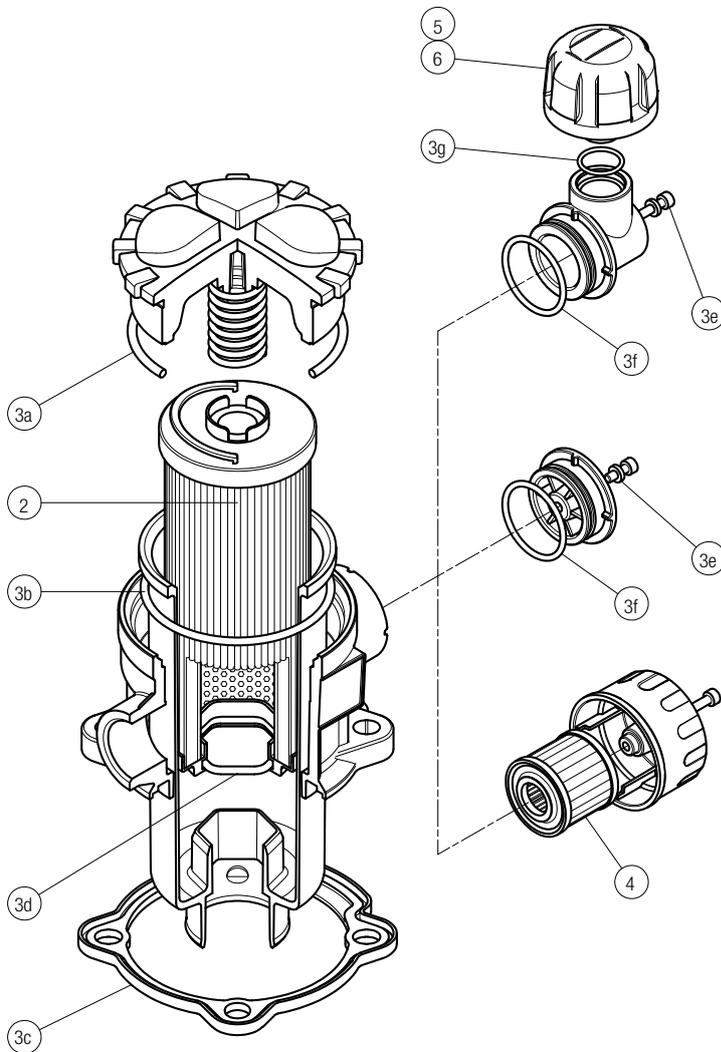
**MPTX 116**



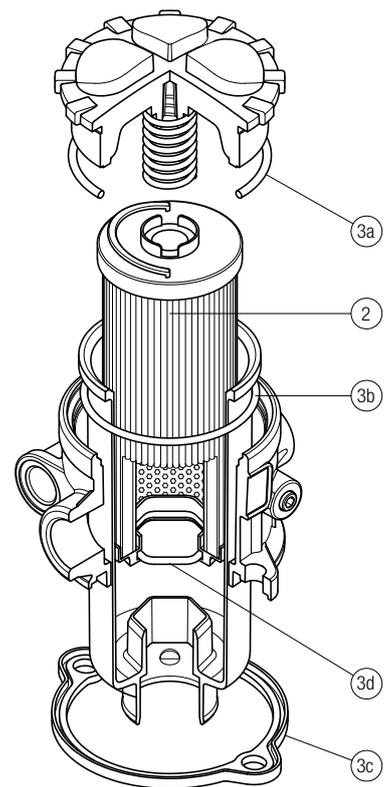
Item:	Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.	
Filter series	Filter element	Seal Kit code number NBR	FPM	Air breather filter element - version:		
				C	D	P
<b>MPTX 025</b>	See order table	02050701	02050702	10 µm A3L03	10 µm SAP50G3L03A0P01	10 µm SAP50G3L03A1P01
<b>MPTX 027</b>		02050703	02050704	10 µm A3L03	10 µm SAP50G3L03A0P01	10 µm SAP50G3L03A1P01
<b>MPTX 110</b>		02050709	02050710	10 µm A5L03	10 µm SAP50G3L03A0P01	10 µm SAP50G3L03A1P01

Item:	Q.ty: 1 pc.	Q.ty: 1 pc.	
Filter series	Filter element	Seal Kit code number NBR	FPM
<b>MPTX 116</b>	See order table	02050737	02050738

**MPTX 114**



**MPTX 120**



Item:	Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.	
Filter series	Filter element	Seal Kit code number		Air breather filter element - version:		
		NBR	FPM	C	D	P
<b>MPTX 114</b>	See order table	02050707	02050708	10 µm A5L03	10 µm SAP50G3L03A0P01	10 µm SAP50G3L03A1P01

Item:	Q.ty: 1 pc.	Q.ty: 1 pc.	
Filter series	Filter element	Seal Kit code number	
		NBR	FPM
<b>MPTX 120</b>	See order table	02050711	02050712

# Accessories

## DIFFUSER WITH FAST LOCK CONNECTION

Configuration example: **DFS 32 A 075**

Series	Size $\varnothing D$ [mm]		Version	Length
<b>DFS</b>	<b>32</b>	32	<b>A</b> Standard	<b>075</b> Standard
	<b>40</b>	40		

COMPATIBILITY TABLE							
Filter series	Filter size			Filter Length	DFS32	DFS40	
MPF	100	104	110	1	•	-	
				2			
				3			
				4	-	•	
MPFX	100	104	110	1			
				2			
				3	-	•	
				4			
MPT	110	114	116	120	1	•	-
					2		
					3		
					4	-	•
MPTX	110	114	116	120	1		
					2		
					3	-	•
					4		

## DIPSTICK

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

Series	Length	H [mm]	Seals	Execution
<b>DPT</b>	<b>15</b>	134	<b>A</b> NBR	<b>P01</b> MP Filtri standard
	<b>20</b>	184	<b>V</b> FPM	<b>Pxx</b> Customized
	<b>25</b>	234		
	<b>30</b>	284		
	<b>35</b>	334		

**Materials**

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

**Technical data**

Working temperature: from -25 °C to +110 °C

**Fastening**

- M8** Fastening with screws  $\varnothing D = M8$
- M10** Fastening with screws  $\varnothing D = M10$

## FILLER PLUG

**Materials**

- Body: Polyamide
- Seal: NBR

**Technical data**

Tightening torque: 15 N·m

O-Ring 3106

M30x1.5

A/F

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

## POLYAMIDE EXTENSION TUBE

H1 - Total length immersed in the tank

Conf. example: **TE** **40** **A** **250**

Series	Length	H [mm]	25-32-40	51-62
<b>TE</b>	<b>200</b>	200	•	•
<b>250</b>	<b>250</b>	250	•	-
<b>300</b>	<b>300</b>	300	•	•
<b>350</b>	<b>350</b>	350	•	-
<b>400</b>	<b>400</b>	400	•	•
<b>450</b>	<b>450</b>	450	•	-
<b>500</b>	<b>500</b>	500	•	•
<b>600</b>	<b>600</b>	600	-	•

Size	Ø D [mm]
<b>25</b>	25
<b>32</b>	32
<b>40</b>	40
<b>51</b>	51
<b>62</b>	62

Material  
**A** Polyamide

COMPATIBILITY TABLE																					
Filter series	Filter size			Filter length	Tube length																
					TE25	TE32	TE40	TE51	TE62	200	250	300	350	400	450	500	600				
MPF	30			1	•	-	-	-	-	-	266	316	366	416	466	516	566	-			
MPF	100	104	110	1	-	•	-	-	-	-	275	325	375	425	475	525	575	-			
				2	-	•	-	-	-	-	-	322	372	422	472	522	572	622	-		
				3	-	-	•	-	-	-	-	-	400	450	500	550	600	650	700	-	
				4	-	-	-	-	-	-	-	-	502	552	602	652	702	752	802	-	
MPFX	100	104	110	1	-	-	•	-	-	-	277	327	377	427	477	527	577	-			
				2	-	-	•	-	-	-	-	322	372	422	472	522	572	622	-		
				3	-	-	-	-	-	-	-	-	400	450	500	550	600	650	700	-	
				4	-	-	-	-	-	-	-	-	502	552	602	652	702	752	802	-	
MPF	181	182	184	1	-	-	•	-	-	-	410	460	510	560	610	660	710	-			
				2	-	-	•	-	-	-	-	623	673	723	773	823	873	923	-		
MPFX	400	410	450	451	1	-	-	-	•	-	620	-	720	-	820	-	920	1020			
					2	-	-	-	-	•	-	-	352	-	452	-	552	-	652	752	
					3	-	-	-	-	-	•	-	-	411	-	511	-	611	-	711	811
MPT	110	114	116	120	1	-	-	-	-	•	597	-	697	-	797	-	897	997			
					2	-	-	-	-	-	-	-	278	328	378	428	478	528	578	-	
					3	-	-	-	-	-	-	-	-	342	392	442	492	542	592	642	-
					4	-	-	-	-	-	-	-	-	380	430	480	530	580	630	680	-
MPTX	110	114	116	120	1	-	•	-	-	-	273	323	373	423	473	523	573	-			
					2	-	-	•	-	-	-	-	320	370	420	470	520	570	620	-	
					3	-	-	-	•	-	-	-	396	446	496	546	596	646	696	-	
					4	-	-	-	-	•	-	-	498	548	598	648	698	748	798	-	
MPTX	110	114	116	120	1	-	-	•	-	-	273	323	373	423	473	523	573	-			
					2	-	-	-	•	-	-	-	318	368	418	468	518	568	618	-	
					3	-	-	-	-	•	-	-	396	446	496	546	596	646	696	-	
					4	-	-	-	-	-	•	-	498	548	598	648	698	748	798	-	

## STEEL EXTENSION TUBE

H1 - Total length immersed in the tank

Configuration example: **MPF191** **2** **A** **F1** **A10** **H** **B** **S60**

Length	H1 [mm]
<b>S30</b>	300
<b>S35</b>	350
<b>S40</b>	400
<b>S45</b>	450
<b>S50</b>	500
<b>S60</b>	600
<b>S70</b>	700
<b>S80</b>	800
<b>S90</b>	900

COMPATIBILITY TABLE							
Filter series	Filter size			Filter length	Ø D [mm]		
					52	65	
MPF	191	192	194	2	•	-	
				1	•	-	
	400	410	450	451	2	-	•
					3	-	•
	750				1	-	•

## Designation & Ordering code

### BAROMETRIC (PRESSURE) INDICATORS

Series	Configuration example 1: BE A 15 H A 41 P01 EX									
<b>BE</b> Electrical pressure indicator	Configuration example 2: BL A 20 H A 71 P01									
<b>BL</b> Electrical/Visual pressure indicator	Configuration example 3: BV R 14 P01									
<b>BV</b> Visual pressure indicator	Configuration example 4: BV P 20 H P01									
Type	BE	BL	BV							
<b>A</b> Standard type	•	•	<b>A</b> Axial connection pressure gauge							
<b>M</b> With wired electrical connection	•	-	<b>R</b> Radial connection pressure gauge							
<b>T</b> With thermal switch	•	-	<b>P</b> Visual indicator with automatic reset							
			<b>Q</b> Visual indicator with manual reset							
Pressure setting	BEA-BEM	BET	BLA	BVA-BVR	BVP-BVQ					
<b>14</b> 1.4 bar	-	-	-	•	-					
<b>15</b> 1.5 bar	•	-	•	-	•					
<b>20</b> 2.0 bar	•	•	•	-	•					
<b>25</b> 2.5 bar	-	•	-	•	-					
Seals	BE	BLA	BVA-BVR	BVP-BVQ						
<b>H</b> HNBR	•	•	-	•						
Thermostat	BEA-BEM	BET	BLA							
<b>A</b> Without thermostat	•	-	•							
<b>F</b> With thermostat	-	•	-							
Electrical connections	BEA	BEM	BET	BL						
<b>10</b> Connection AMP Superseal series 1,5	-	-	•	-						
<b>30</b> Connection Deutsch DT-04-2-P	-	-	•	-						
<b>41</b> Connection via four-core cable	-	•	-	-						
<b>50</b> Connection EN 175301-803	•	-	-	-						
<b>51</b> Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	•						
<b>52</b> Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	•						
<b>53</b> Connection EN 175301-803, transparent base with lamps 230 Vac	-	-	-	•						
<b>71</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	•						
Option										
<b>P01</b> MP Filtri standard										
<b>Pxx</b> Customized										
Certifications	BEA	BEM-BET	BL	BV						
Without	•	•	•	•						
<b>EX</b> ATEX certification	•	-	-	-						
<b>UL</b> UL certification	•	-	-	-						

**DIFFERENTIAL PRESSURE INDICATORS**

Series
<b>DE</b> Electrical differential pressure indicator
<b>DL</b> Electrical/Visual differential pressure indicator
<b>DT</b> Electrical differential pressure indicator
<b>DV</b> Visual differential pressure indicator

Configuration example 1:	DE	M	20	H	F	50	P01	
Configuration example 2:	DE	U	50	V	A	50	P01	UL
Configuration example 3:	DL	E	20	V	A	71	P01	
Configuration example 4:	DT	A	20	H	F	70	P01	
Configuration example 5:	DV	M	20	V			P01	

Type	DE	DL	DT
<b>A</b> Standard type	•	•	•
<b>M</b> With wired electrical connection	•	-	-
<b>U</b> Standard type 210 bar, UL certified	•	-	-
<b>E</b> For high power supply	-	•	-
<b>S</b> Compact version	•	-	-

DV
<b>A</b> With automatic reset
<b>M</b> With manual reset
<b>S</b> With automatic reset

Pressure setting	DEA	DEM	DEU	DES	DL	DT	DVA	DVM	DVS
<b>12</b> 1.2 bar	-	-	-	•	-	-	-	-	•
<b>20</b> 2.0 bar	•	•	•	-	•	•	•	•	-
<b>25</b> 2.5 bar	-	-	-	•	-	-	-	-	•

Seals	DEA	DEM	DEU	DES	DL	DT	DVA	DVM	DVS
<b>H</b> HNBR	•	•	-	•	•	•	•	•	•
<b>V</b> FPM	•	•	•	-	•	•	•	•	-

Thermostat	DEA	DEM	DEU	DES	DLA	DLE	DT
<b>A</b> Without thermostat	•	•	•	•	•	•	-
<b>F</b> With thermostat	-	•	-	-	-	•	•

Electrical connections	DEA	DEM	DEU	DES	DLA	DLE	DT
<b>10</b> Connection AMP Superseal series 1.5	-	•	-	•	-	-	-
<b>20</b> Connection AMP Timer Junior	-	•	-	-	-	-	-
<b>30</b> Connection Deutsch DT-04-2-P	-	•	-	•	-	-	-
<b>35</b> Connection Deutsch DT-04-3-P	-	•	-	-	-	-	-
<b>50</b> Connection EN 175301-803	•	-	•	-	-	•	-
<b>51</b> Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	-	•	-	-
<b>52</b> Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	-	•	-	-
<b>70</b> Connection IEC 61076-2-101 D (M12)	-	-	-	-	-	-	•
<b>71</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	-	•	-	-
<b>80</b> Connection Stud #10-32 UNF	-	-	-	•	-	-	-

Option
<b>P01</b> MP Filtri standard
<b>Pxx</b> Customized

Certifications	DEU	OTHERS
Without	-	•
<b>UL</b> UL certification	•	-

**PLUGS**

Series
<b>T2</b> Plug
<b>T4</b> Plug

Configuration example	T2	H
-----------------------	----	---

Seals	T2	T4
<b>A</b> NBR	-	•
<b>H</b> HNBR	•	-
<b>V</b> FPM	•	-