

# MPLX series

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







# NEW FILTER ELEMENT WITH EXCLUSIVE INTERFACE CONNECTION

- 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.





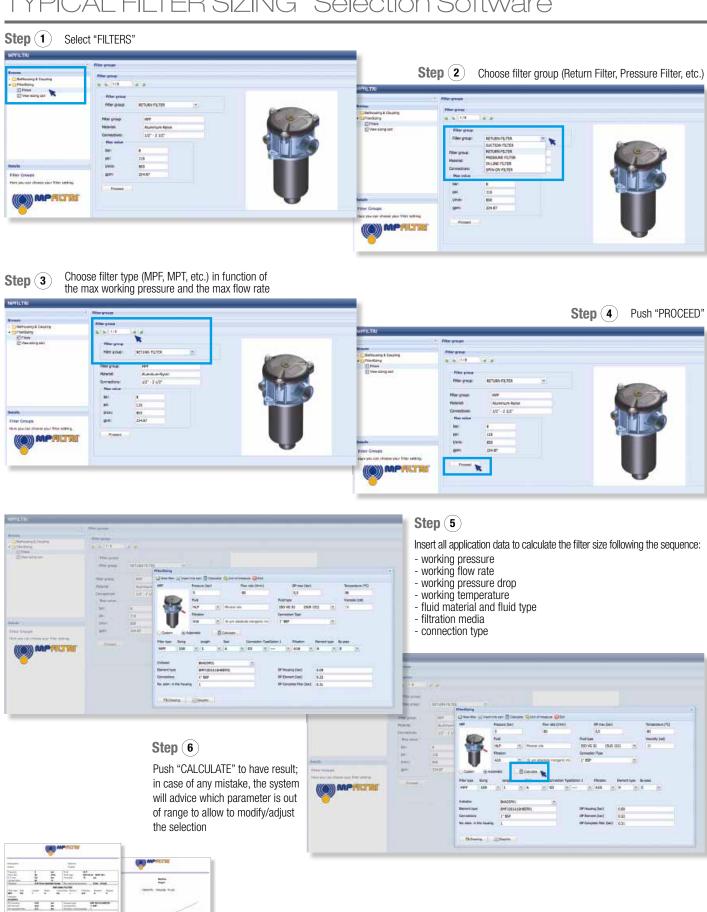


The products identified as MPFX, MPLX, MPTX, MFBX and MFX are protected by:
Italian Patent n° 102014902261205
Canadian Patent n° 2,937,258

and by the following patent applications: European Patent n° 16181725.9 US Patent Pending n° 15/224,337



# YPICAL FILTER SIZING Selection Software



Step (7) PDF Download PDF

Datasheet "Report.aspx" pushing the button "Drawing"

Description Technical data

## Return filter

# 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

#### **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



MPLX filters are provided for vertical mounting



# Weights [kg] and volumes [dm³]

Filter series	Weights [kg]	Volumes [dm³]		
	Length 2	Length 2		
MPLX 250	8.95	2.90		
MPLX 660	20.20	11.00		





# FILTER ASSEMBLY SIZING Flow rates [I/min]

		Filter element design - N Series							
Filter series	Length	A03	A06	A10	A16	A25	M25 M60 M90	P10 P25	
MPLX 250	2	157	155	281	312	325	583	392	
MPLX 660	2	376	384	820	925	1018	1732	1332	

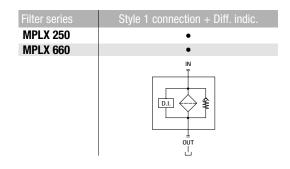
Maximum flow rate for a complete return filter with a pressure drop  $\Delta p = 0.5$  bar.

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.

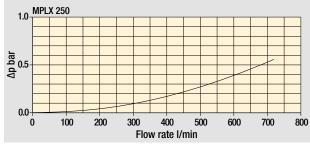
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

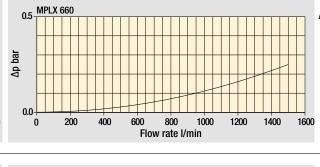
Hydraulic symbols

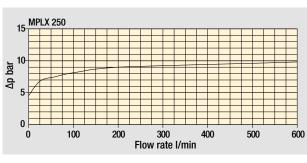


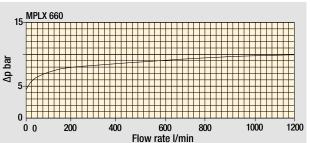
## Pressure drop

Filter housings  $\Delta p$  pressure drop





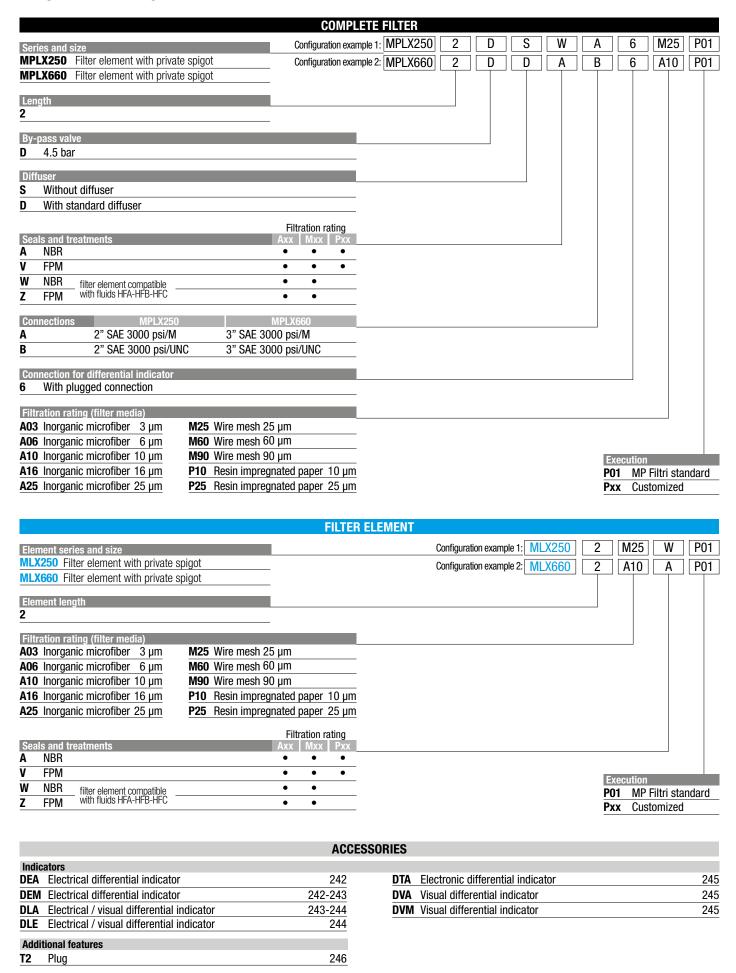




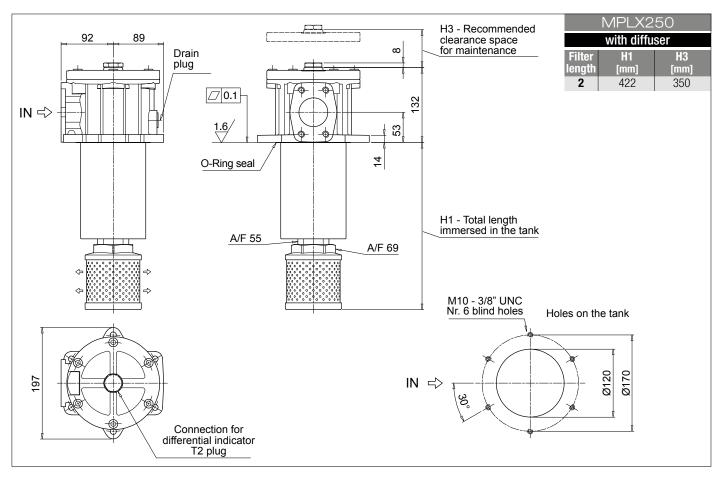
Bypass valve pressure drop

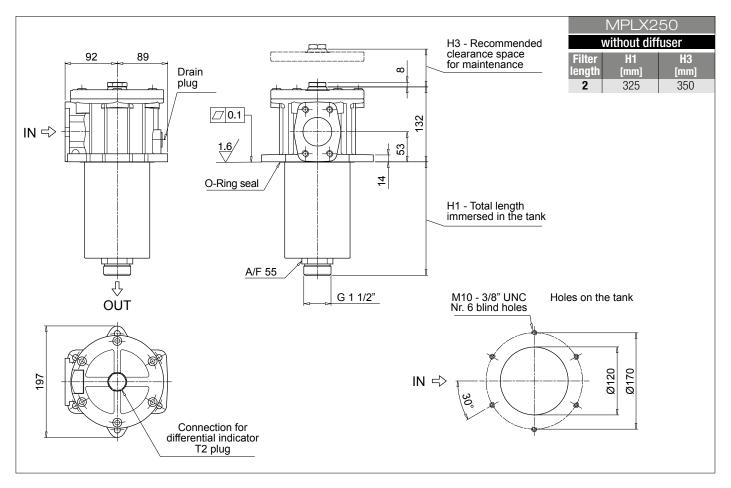
The curves are plotted using mineral oil with density of  $0.86 \text{ kg/dm}^3$  in compliance with ISO 3968.  $\Delta p$  varies proportionally with density.

### Designation & Ordering code

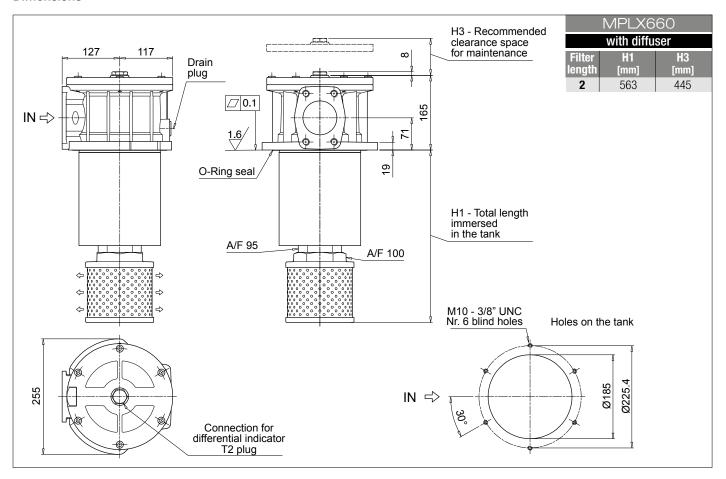


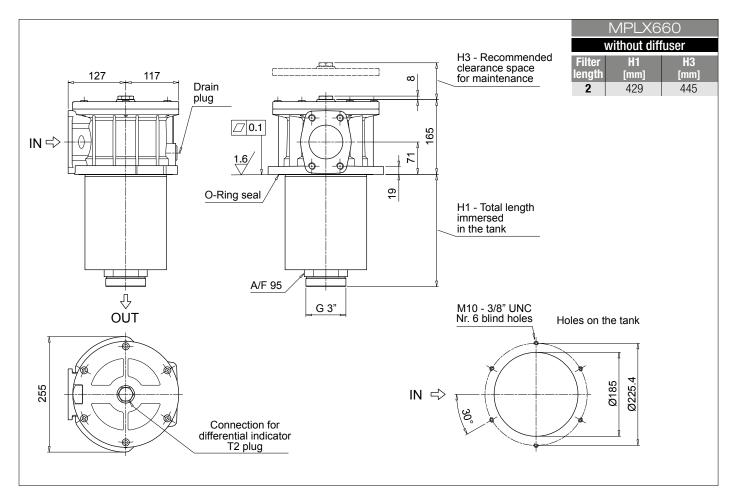
#### **Dimensions**





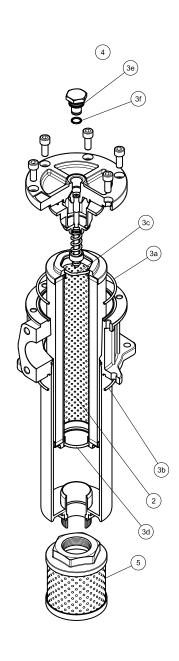
#### **Dimensions**





96

Order number for spare parts



	Q.ty: 1 pc.	Q.ty:	1 pc.	Q.ty: 1 pc.		Q.ty: 1 pc.	
Item:	2	<b>3</b> (3a ÷ 3f)		4		5	
Filter	Filter	Seal Kit code number		Indicator connection plug		Diffuser	
series	element	NBR	FPM	NBR	FPM	Dillusci	
MPLX 250	See	02050745	02050746		TOV	STD 100 C 115 P01	
MPLX 660	order table	02050747	02050748	T2H	T2V	STD 150 E 155 P01	