



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.

MPLXseries

with **MYCLEAN** 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



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
- 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

Pressure

- Test pressure: 1.5 MPa (15 bar)
- Min. Burst pressure: 3 MPa (30 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 1 MPa (10 bar)

Bypass valve

- Opening pressure 0.45 MPa (4.5 bar) $\pm 10\%$

Filter element features

Filter MPLX		Filter element MLX	
Δp Element type			
Element media	Construction	Δp Series	Δp
A - Microfiber	Standard	D	10 bar
M - Wire mesh	Standard	D	10 bar
P - Paper	Standard	D	10 bar
Please see ordering code tables to check element Δp series availability based on filter features.			
Flow direction 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

MPLX filters are provided for vertical mounting

Weights [kg] and volumes [dm³]

Filter series	Weights [kg]		Volumes [dm ³]	
	Length	20	Length	20
MPLX 250		8.95		2.90
MPLX 660		20.20		11.00

Flow rates [l/min]

Filter series	Length	Filter element design - D Series						
		A0003	A0006	A0010	A0016	A0025	M0025 M0060 M0090	P0010 P0025
MPLX 250	20	157	155	281	312	325	583	392
MPLX 660	20	376	384	820	925	1018	1732	1332

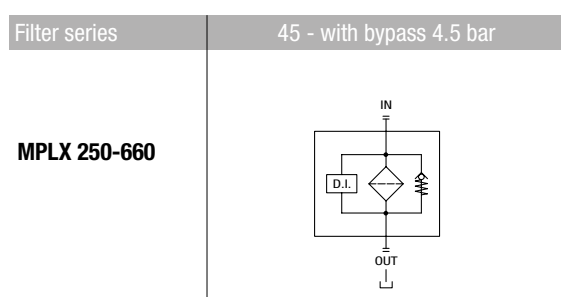
Maximum flow rate for a complete return filter with a pressure drop $\Delta p = 0.5$ bar.

The reference fluid has a kinematic viscosity of 30 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.

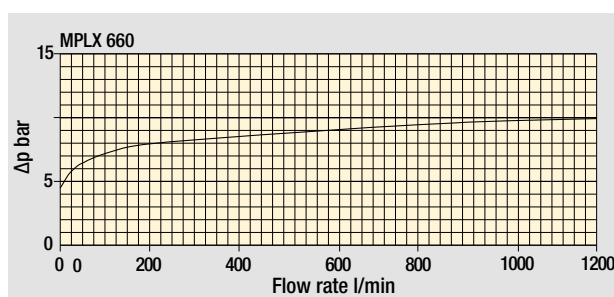
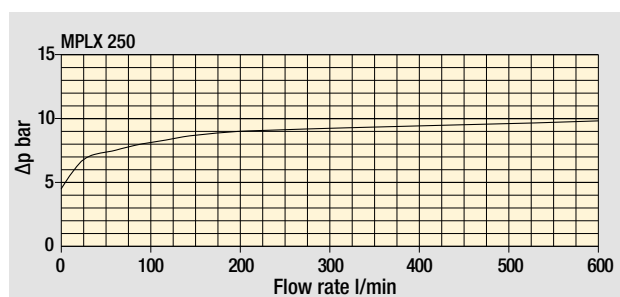
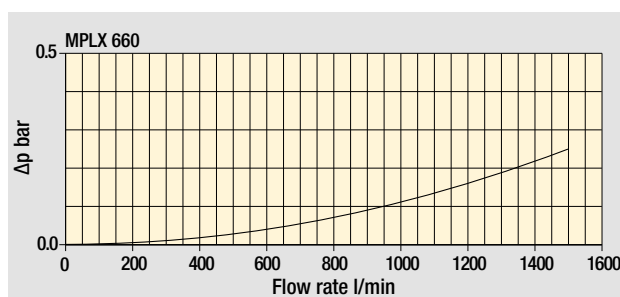
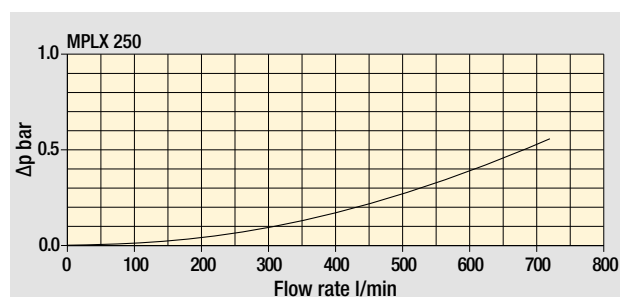
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Hydraulic diagram



Pressure drop

Filter housings
 Δp pressure drop



Bypass valve
pressure drop

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

MPLX MPLX250 - MPLX660

Designation & Ordering code

COMPLETE FILTER

Series	Example 1:	MPLX	250	20	A0010	D	W	45	FE200	1	1T	DA	P01	NN
MPLX	Example 2:	MPLX	660	20	M0090	D	Z	45	FF300	1	1T	NN	P01	NN
Filter featuring MYCLEAN Filter Element														
Size														
250														
660														
Length														
20														
Filtration rating (filter media)														
A0003	Inorganic microfiber	3 µm												
A0006	Inorganic microfiber	6 µm												
A0010	Inorganic microfiber	10 µm												
A0016	Inorganic microfiber	16 µm												
A0025	Inorganic microfiber	25 µm												
M0025	Wire mesh	25 µm												
M0060	Wire mesh	60 µm												
M0090	Wire mesh	90 µm												
P0010	Resin impregnated paper	10 µm												
P0025	Resin impregnated paper	25 µm												
Element Δp														
D	10 bar													
Seals and treatments														
W	NBR with filter and components surface treatment													
Z	FPM with filter and components surface treatment													
By-pass valve														
45	4.5 bar													
Connections	Size 250	Size 660												
FE200	2" SAE 3000 psi/M	•	-											
FE300	3" SAE 3000 psi/M	-	•											
FF200	2" SAE 3000 psi/UNC	•	-											
FF300	3" SAE 3000 psi/UNC	-	•											
Additional connection														
0	Without additional connection													
Connections for clogging indicators														
1T	With top indicator connection, with metal plug													
Additional features														
DA	With diffuser													
NN	Without additional features													
Execution														
P01	Standard catalogue item													
Certificates														
NN	None													

CLOGGING INDICATORS

See pages 776-777

DEA	Electrical differential pressure indicator
DEM	Electrical differential pressure indicator
DEU	Electrical differential pressure indicator
DLA	Electrical / visual differential pressure indicator
DLE	Electrical / visual differential pressure indicator

DTA	Electronic differential pressure indicator
DTI	I-O Link electronic differential pressure indicator
DVA	Visual differential pressure indicator
DVM	Visual differential pressure indicator

PLUGS

See page 807

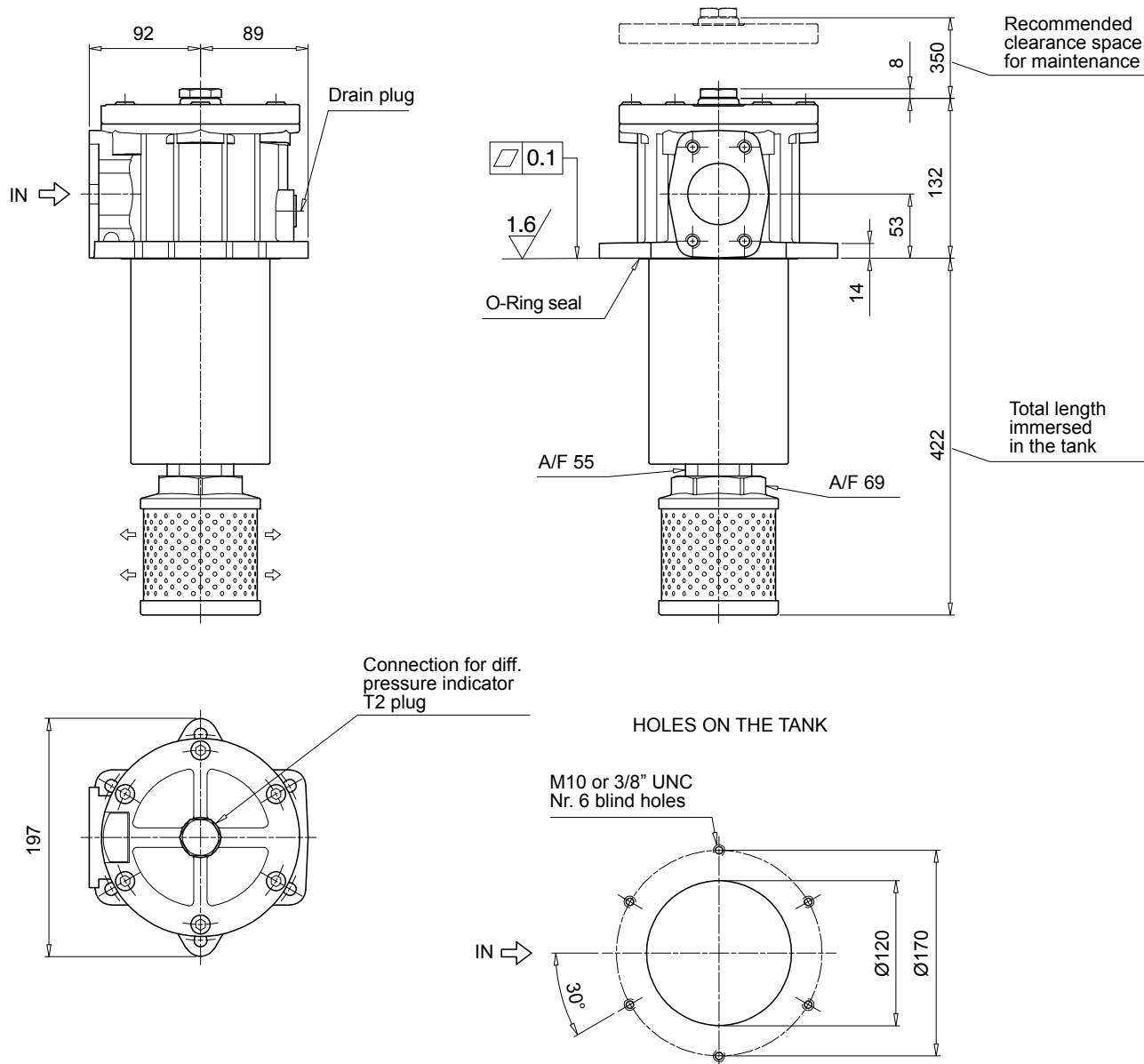
T2	Plug (not included)
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FILTER ELEMENT										
Series	Example 1: MLX 250 20 A0010 D A 00 NN P01 NN									
MLX Filter element with MYCLEAN feature	Example 2: MLX 660 20 M0090 D V 00 NN P01 NN									
Size										
250										
660										
Length										
20										
Filtration rating (filter media)										
A0003 Inorganic microfiber 3 µm										
A0006 Inorganic microfiber 6 µm										
A0010 Inorganic microfiber 10 µm										
A0016 Inorganic microfiber 16 µm										
A0025 Inorganic microfiber 25 µm										
M0025 Wire mesh 25 µm										
M0060 Wire mesh 60 µm										
M0090 Wire mesh 90 µm										
P0010 Resin impregnated paper 10 µm										
P0025 Resin impregnated paper 25 µm										
Element Δp										
D 10 bar										
Seals and treatments										
A NBR										
V FPM										
By-pass valve										
00 Without bypass										
Additional features										
NN Without										
Execution										
P01 Standard catalogue item										
Certificates										
NN None										

MPLX250

Additional features **DA**

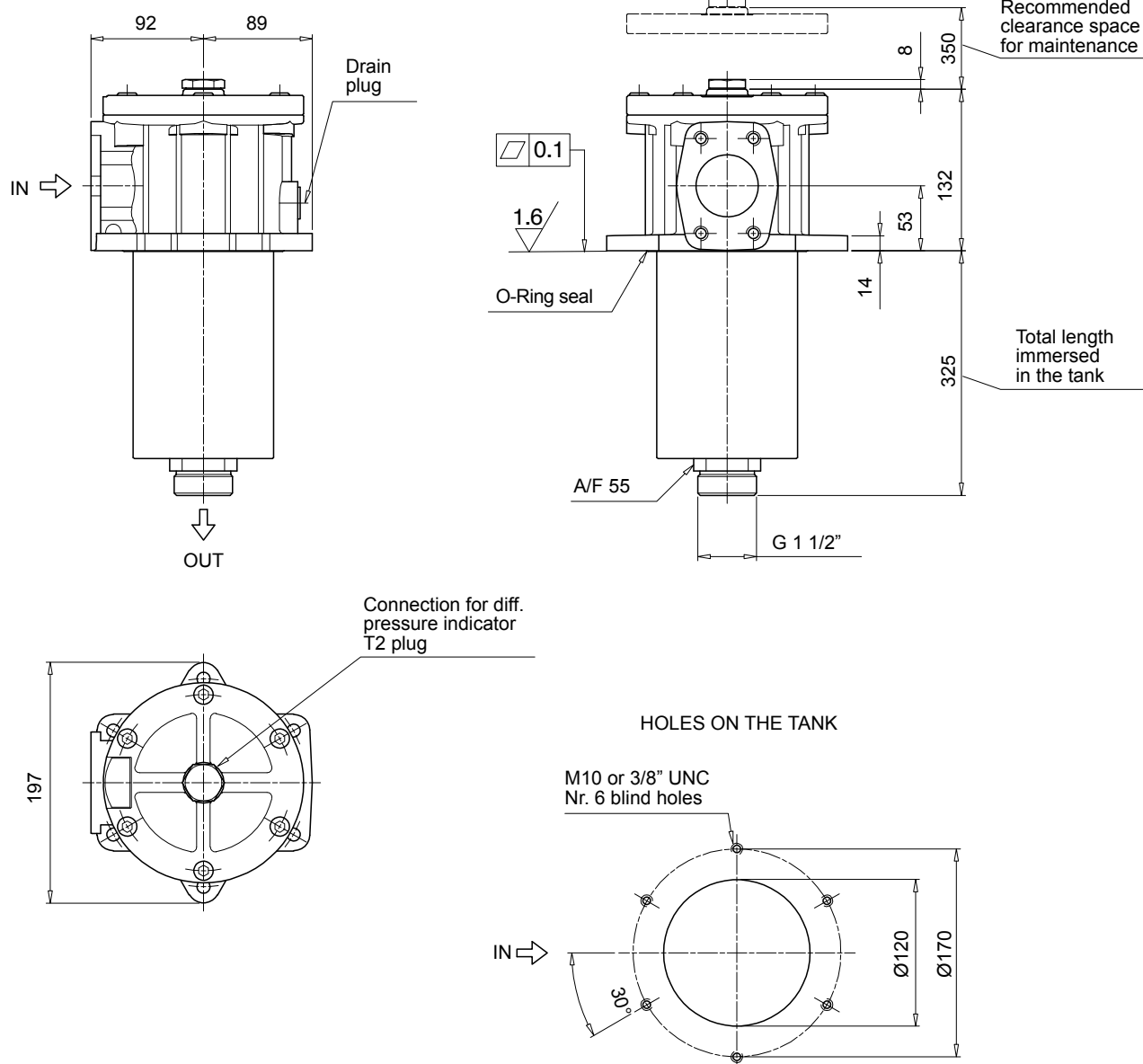
with diffuser



MPLX250

Additional features **NN**

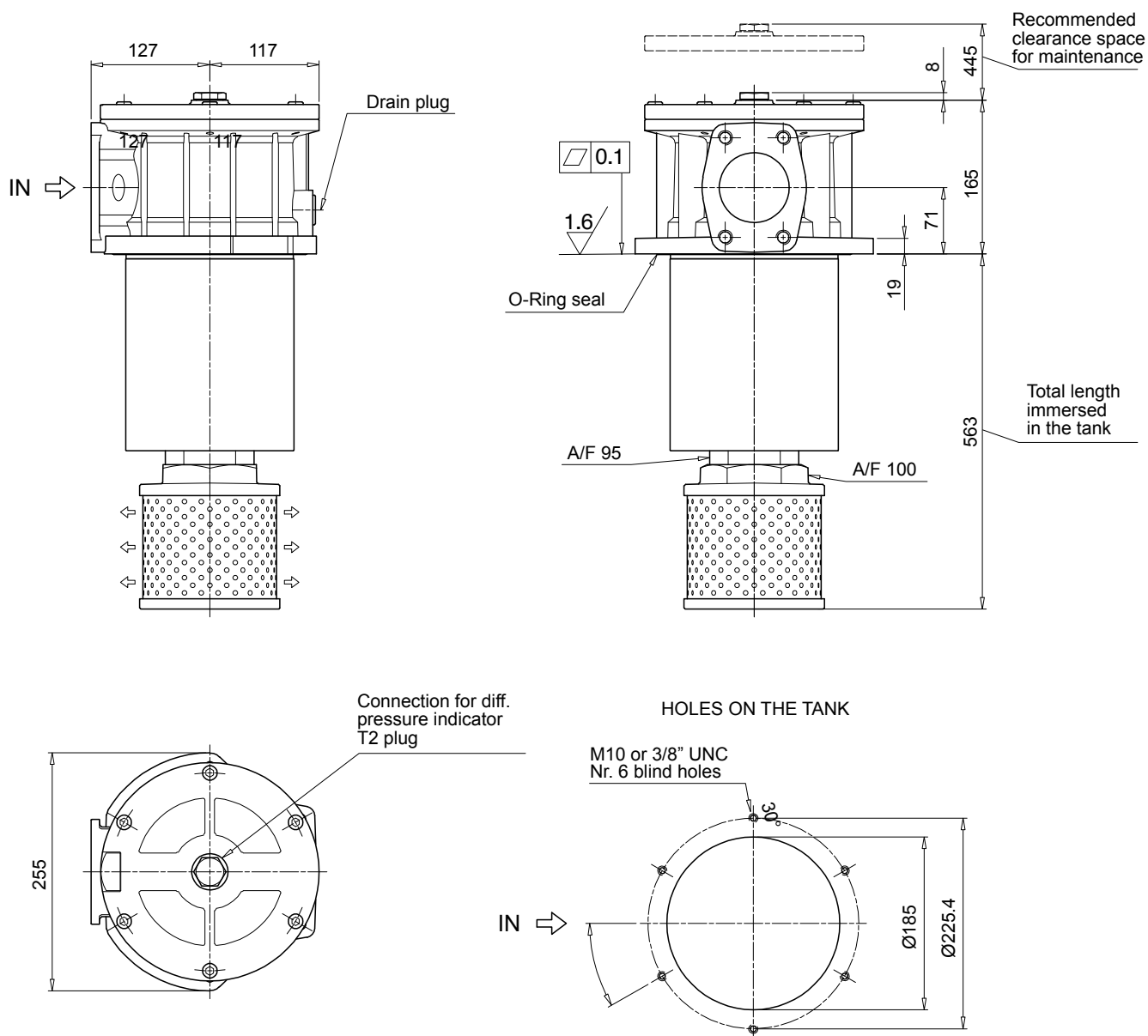
without diffuser



MPLX660

Additional features **DA**

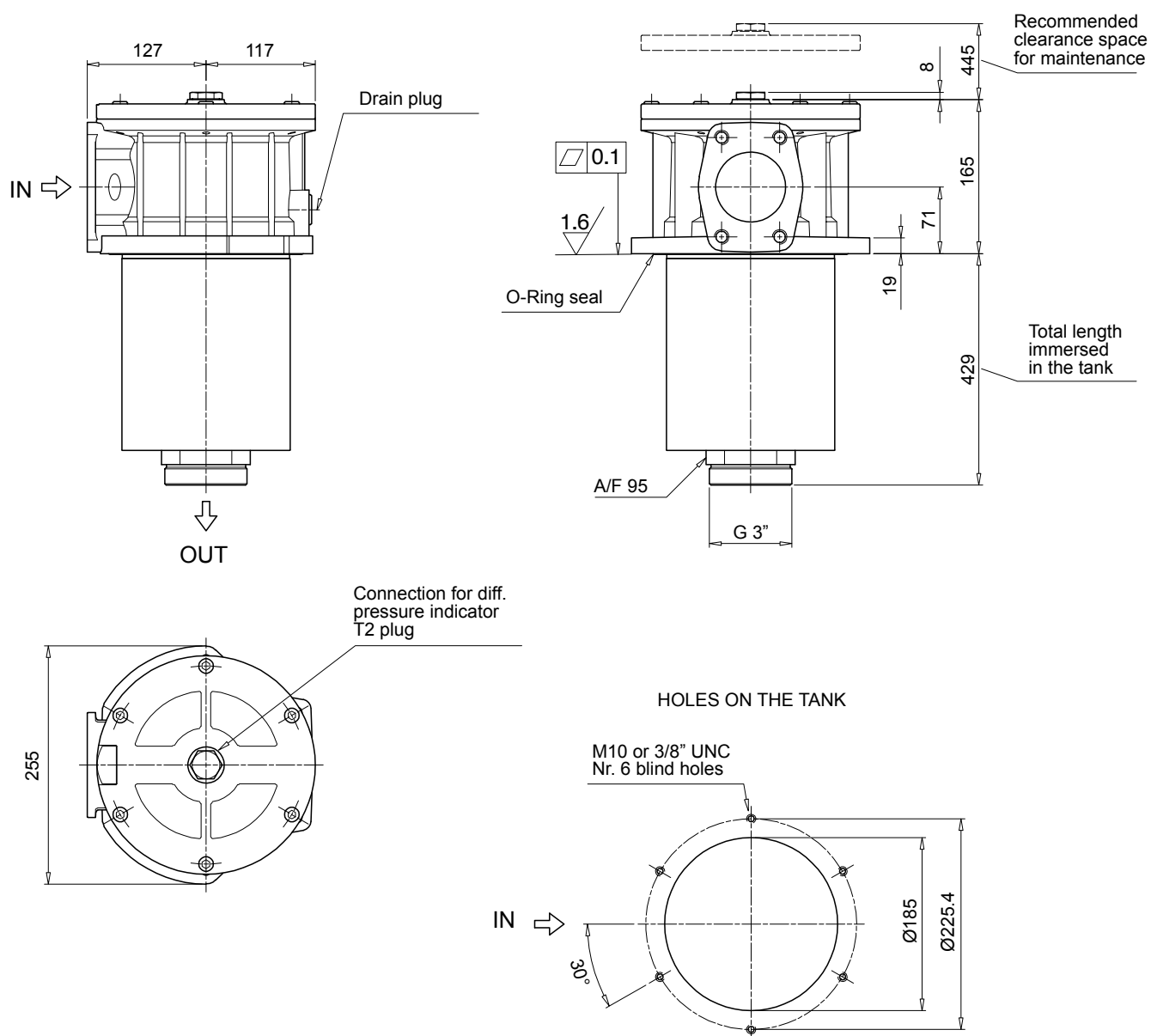
with diffuser



MPLX660

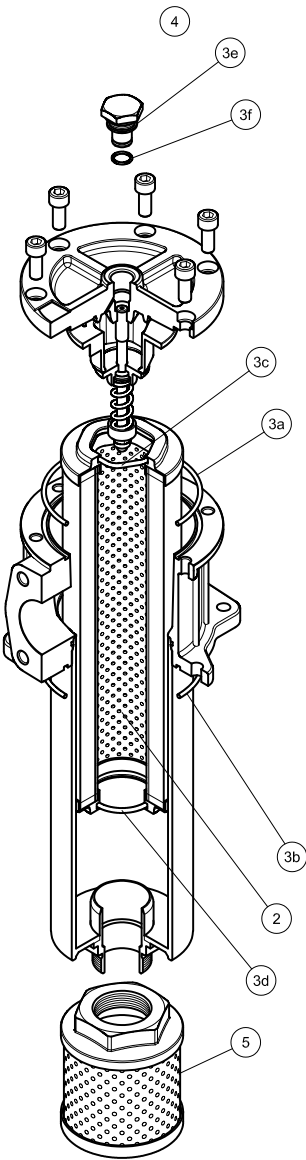
Additional features **NN**

without diffuser



MPLX SPARE PARTS

Order number for spare parts



Item:		Q.ty: 1 pc.		Q.ty: 1 pc.		Q.ty: 1 pc.		Q.ty: 1 pc.	
Filter series		Seal Kit code number		Indicator connection plug		Diffuser			
		NBR	FPM	NBR	FPM				
MPLX 250		AK021000502	AK021000693	T2H	T2V	STD 100 C 115 P01			
MPLX 660		AK021000503	AK021000592			STD 150 E 155 P01			