MPTX series

Maximum pressure up to 8 bar - Flow rate up to 300 l/min

FILTER SIZING

The correct filter sizing have to be based on the variable pressure drop depending by the application. For example, for the return filter the pressure drop have to be in the range 0.4 - 0.6 bar.

The pressure drop calculation is performed by adding together the value of the housing with the value of the filter element. The pressure drop in the housing is proportional to the fluid density (kg/dm³); all the graphs in the catalogue are referred to mineral oil with density of 0.86 kg/dm³.
The filter element pressure drop is proportional to its viscosity (mm²/s), the corrective factor Y is related to an oil viscosity different than 30 mm²/s.

Sizing data for single cartridge, head at top

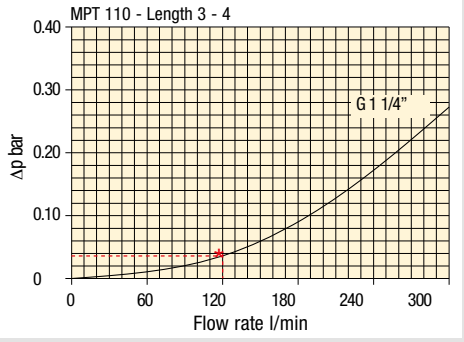
Δpc = Filter housing pressure drop [bar]
Δpe = Filter element pressure drop [bar]
Y = Multiplication factor Y (see correspondent table), depending on the filter element size, on the filter element lenght and on the filter media
Q = flow rate (l/min)
V1 reference viscosity = 30 mm²/s (cSt)
V2 = operating viscosity in mm²/s (cSt)
Δpe = Y : 1000 x Q x (V2/V1)
Δp Tot. = Δpc + Δpe

Calculation examples with HLP Mineral oil Variation in viscosity

Application data:
Top tank return filter
Filter with in-line connections
Pressure Pmax = 10 bar
Flow rate Q = 120 l/min
Viscosity V2 = 46 mm²/s (cSt)
Oil viscosity = 0.86 kg/dm³
Required filtration efficiency = 25 µm with absolute filtration
With bypass valve and 1 1/4" inlet connection
From the working pressure and the flow rate we understand it should be possible using the following top tank return filter series: MPT, MPH and FRI.
Let's proceed with MPT series.
The size 20 doesn't achieve the required flow rate, therefore we have to consider the size 100. The final version of size 100 (101, 104, 110, 120 and 114) will be then defined in function of the mounting characteristics.

Δpc = 0.03 bar (★ see graphic below, considering size 100 with the max available lenght to get the lowest pressure drop)
Δpe = (2.0 : 1000) x 120 x (46/30) = 0.37 bar
Δp Tot. = 0.03 + 0.37 = 0.4 bar

The selection is correct because the total pressure drop value is inside the admissible range for top tank return filters. It is of course possible trying to find a different solution, according to the mounting position or to other commercial need, repeating the previous steps while using a different series or lenght.



Filter housings Δp 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.

Corrective factor

Corrective factor Y, to be used for the filter element pressure drop calculation. The values depend to the filter size and lenght and to the filter media.
Reference viscosity 30 mm²/s

Return filters

Filter element		Absolute filtration H Series					Nominal filtration N Series		
Type		A03	A06	A10	A16	A25	P10	P25	M25 M60 M90
MF 020	1	74.00	50.08	20.00	16.00	9.00	6.43	5.51	4.40
	2	29.20	24.12	8.00	7.22	5.00	3.33	2.85	2.00
	3	22.00	19.00	6.56	5.33	4.33	1.68	1.44	1.30
MF 030 MFX 030	1	74.00	50.08	20.00	16.00	9.00	6.43	5.51	3.40
MF 100 MFX 100	1	28.20	24.40	8.67	8.17	6.88	4.62	3.96	1.25
	2	17.33	12.50	6.86	5.70	4.00	3.05	2.47	1.10
	3	10.25	9.00	3.65	3.33	2.50	1.63	1.32	0.96
	4	6.10	5.40	2.30	2.20	2.00	1.19	0.96	0.82
MF 180 MFX 180	1	3.67	3.05	1.64	1.56	1.24	1.18	1.06	0.26
	2	1.69	1.37	0.68	0.54	0.51	0.43	0.39	0.12
MF 190 MFX 190	2	1.69	1.37	0.60	0.49	0.44	0.35	0.31	0.11
MF 400 MFX 400	1	3.20	2.75	1.39	1.33	1.06	0.96	0.87	0.22
	2	2.00	1.87	0.88	0.85	0.55	0.49	0.45	0.13
	3	1.90	1.60	0.63	0.51	0.49	0.39	0.35	0.11
MF 750 MFX 750	1	1.08	0.84	0.49	0.36	0.26	0.21	0.19	0.06
CU 025		78.00	48.00	28.00	24.00	9.33	9.33	8.51	1.25
CU 040		25.88	20.88	10.44	10.00	3.78	3.78	3.30	1.25
CU 100		15.20	14.53	5.14	4.95	2.00	2.00	0.17	1.10
CU 250		3.25	2.55	1.55	1.35	0.71	0.71	0.59	0.25
CU 630		1.96	1.68	0.85	0.72	0.42	0.42	0.36	0.09
CU 850		1.06	0.84	0.42	0.33	0.17	0.17	0.13	0.04
MR 100	1	19.00	17.00	6.90	6.30	4.60	2.94	2.52	1.60
	2	11.70	10.80	4.40	4.30	3.00	2.94	2.52	1.37
	3	7.80	6.87	3.70	3.10	2.70	2.14	1.84	1.34
	4	5.50	4.97	2.60	2.40	2.18	1.72	1.47	1.34
	5	4.20	3.84	2.36	2.15	1.90	1.60	1.37	1.34
MR 250	1	5.35	4.85	2.32	1.92	1.50	1.38	1.20	0.15
	2	4.00	3.28	1.44	1.10	1.07	0.96	0.83	0.13
	3	2.60	2.20	1.08	1.00	0.86	0.77	0.64	0.12
	4	1.84	1.56	0.68	0.56	0.44	0.37	0.23	0.11
MR 630	1	3.10	2.48	1.32	1.14	0.92	0.83	0.73	0.09
	2	2.06	1.92	0.82	0.76	0.38	0.33	0.27	0.08
	3	1.48	1.30	0.60	0.56	0.26	0.22	0.17	0.08
	4	1.30	1.20	0.48	0.40	0.25	0.21	0.16	0.08
	5	0.74	0.65	0.30	0.28	0.13	0.10	0.08	0.04
MR 850	1	0.60	0.43	0.34	0.25	0.13	0.12	0.09	0.03
	2	0.37	0.26	0.23	0.21	0.11	0.08	0.07	0.03
	3	0.27	0.18	0.17	0.17	0.05	0.04	0.04	0.02
	4	0.23	0.16	0.13	0.12	0.04	0.03	0.03	0.02

Corrective factor

Corrective factor Y, to be used for the filter element pressure drop calculation.
The values depend to the filter size and lenght and to the filter media.

Reference viscosity 30 mm²/s

Suction filters

Filter element		Nominal filtration N Series	
Type		P10	P25
SF 250		65	21

Return / Suction filters

Filter element		Absolute filtration		
Type		A10	A16	A25
RSX 116	1	5.12	4.33	3.85
	2	2.22	1.87	1.22
RSX 165	1	2.06	1.75	1.46
	2	1.24	1.05	0.96
	3	0.94	0.86	0.61

Low & Medium pressure filters

Filter element		Absolute filtration N-W Series					Nominal filtration N Series		
Type		A03	A06	A10	A16	A25	P10	P25	M25
CU 110	1	16.25	15.16	8.75	8.14	5.87	2.86	2.65	0.14
	2	12.62	10.44	6.11	6.02	4.15	1.60	1.49	0.12
	3	8.57	7.95	5.07	4.07	2.40	1.24	1.15	0.11
	4	5.76	4.05	2.80	2.36	1.14	0.91	0.85	0.05
CU 210	1	5.30	4.80	2.00	1.66	1.32	0.56	0.43	0.12
	2	3.44	2.95	1.24	1.09	0.70	0.42	0.35	0.09
	3	2.40	1.70	0.94	0.84	0.54	0.33	0.23	0.05
DN	016	7.95	7.20	3.00	2.49	1.98	0.84	0.65	0.18
	025	5.00	4.53	1.89	1.57	1.25	0.53	0.41	0.11
	040	3.13	2.66	1.12	0.98	0.63	0.38	0.32	0.08
CU 400	2	3.13	2.55	1.46	1.22	0.78	0.75	0.64	0.19
	3	2.15	1.70	0.94	0.78	0.50	0.40	0.34	0.10
	4	1.60	1.28	0.71	0.61	0.40	0.34	0.27	0.08
	5	1.00	0.83	0.47	0.34	0.20	0.24	0.19	0.06
	6	0.82	0.58	0.30	0.27	0.17	0.22	0.18	0.05
CU 900	1	0.86	0.63	0.32	0.30	0.21	-	-	0.05
CU 950	2	1.03	0.80	0.59	0.40	0.26	-	-	0.05
	3	0.44	0.40	0.27	0.18	0.15	-	-	0.02
MR 630	7	0.88	0.78	0.36	0.34	0.16	0.12	0.96	0.47

FILTER SIZING Corrective factor

Corrective factor Y, to be used for the filter element pressure drop calculation.
The values depend to the filter size and lenght and to the filter media.
Reference viscosity 30 mm²/s

High pressure filters

Filter element		Absolute filtration N - R Series					Nominal filtration N Series
Type		A03	A06	A10	A16	A25	M25
HP 011	1	332.71	250.07	184.32	152.36	128.36	-
	2	220.28	165.56	74.08	59.13	37.05	-
	3	123.24	92.68	41.48	33.08	20.72	-
	4	77.76	58.52	28.37	22.67	16.17	-
HP 039	1	70.66	53.20	25.77	20.57	14.67	4.90
	2	36.57	32.28	18.00	13.38	8.00	2.90
	3	26.57	23.27	12.46	8.80	5.58	2.20
HP 050	1	31.75	30.30	13.16	12.3	7.29	1.60
	2	24.25	21.26	11.70	9.09	4.90	1.40
	3	17.37	16.25	8.90	7.18	3.63	1.25
	4	12.12	10.75	6.10	5.75	3.08	1.07
	5	7.00	6.56	3.60	3.10	2.25	0.80
HP 065	1	58.50	43.46	23.16	19.66	10.71	1.28
	2	42.60	25.64	16.22	13.88	7.32	1.11
	3	20.50	15.88	8.18	6.81	3.91	0.58
HP 135	1	20.33	18.80	9.71	8.66	4.78	2.78
	2	11.14	10.16	6.60	6.38	2.22	1.11
	3	6.48	6.33	3.38	3.16	2.14	1.01
HP 320	1	10.88	9.73	5.02	3.73	2.54	1.04
	2	4.40	3.83	1.75	1.48	0.88	0.71
	3	2.75	2.11	1.05	0.87	0.77	0.61
	4	2.12	1.77	0.98	0.78	0.55	0.47
HP 500	1	4.44	3.67	2.30	2.10	1.65	0.15
	2	3.37	2.77	1.78	1.68	1.24	0.10
	3	2.22	1.98	1.11	1.09	0.75	0.08
	4	1.81	1.33	0.93	0.86	0.68	0.05
	5	1.33	1.15	0.77	0.68	0.48	0.04

Filter element		Absolute filtration N Series					Nominal filtration N Series
Type		A03	A06	A10	A16	A25	M25
HF 320	1	3.65	2.95	2.80	1.80	0.90	0.38
	2	2.03	1.73	1.61	1.35	0.85	0.36
	3	1.84	1.42	1.32	1.22	0.80	0.35

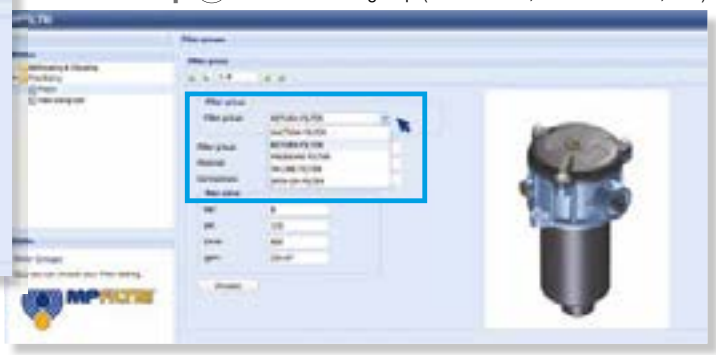
Stainless steel high pressure filters

Filter element		Absolute filtration N Series				
Type		A03	A06	A10	A16	A25
HP 011	1	332.71	250.07	184.32	152.36	128.36
	2	220.28	165.56	74.08	59.13	37.05
	3	123.24	92.68	41.48	33.08	20.72
	4	77.76	58.52	28.37	22.67	16.17
HP 039	2	70.66	53.20	25.77	20.57	14.67
	3	36.57	32.28	18.00	13.38	8.00
	4	26.57	23.27	12.46	0.88	5.58
HP 050	1	31.75	30.30	13.16	12.3	7.29
	2	24.25	21.26	11.70	9.09	4.90
	3	17.37	16.25	8.90	7.18	3.63
	4	12.12	10.75	6.10	5.75	3.08
	5	7.00	6.56	3.60	3.10	2.25
HP 135	1	20.33	18.80	9.71	8.66	4.78
	2	11.14	10.16	6.60	6.38	2.22
	3	6.48	6.33	3.38	3.16	2.14

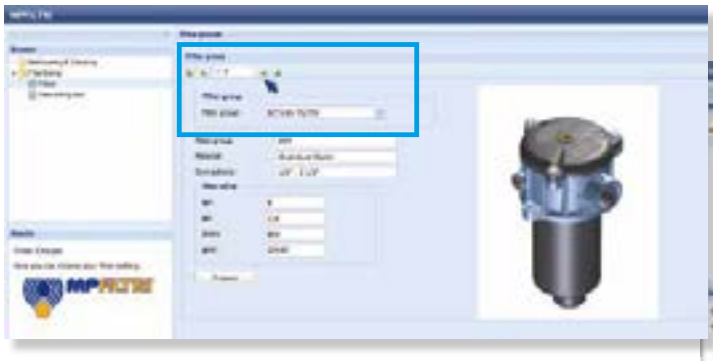
Filter element		Absolute filtration H - U Series				
Type		A03	A06	A10	A16	A25
HP 011	1	424.58	319.74	235.17	194.44	163.78
	2	281.06	211.25	94.53	75.45	47.26
	3	130.14	97.50	43.63	34.82	21.81
	4	109.39	82.25	36.79	29.37	18.40
HP 039	2	70.66	53.20	25.77	20.57	14.67
	3	36.57	32.28	18.00	13.38	8.00
	4	26.57	23.27	12.46	8.80	5.58
HP 050	1	47.33	34.25	21.50	20.50	14.71
	2	29.10	25.95	14.04	10.90	5.88
	3	20.85	19.50	10.68	8.61	4.36
	4	14.55	12.90	7.32	6.90	3.69
	5	9.86	9.34	6.40	4.80	2.50
HP 135	1	29.16	25.33	13.00	12.47	5.92
	2	14.28	11.04	7.86	7.60	4.44
	3	8.96	7.46	4.89	4.16	3.07

Step 1 Select "FILTERS"

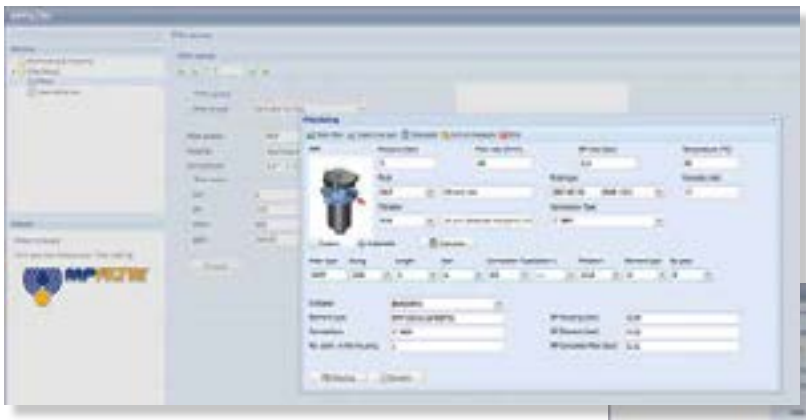
Step 2 Choose filter group (Return Filter, Pressure Filter, etc.)



Step 3 Choose filter type (MPF, MPT, etc.) in function of the max working pressure and the max flow rate



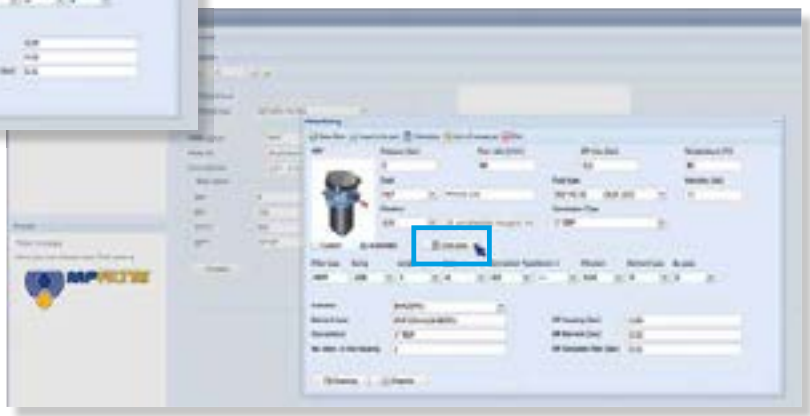
Step 4 Push "PROCEED"



Step 5

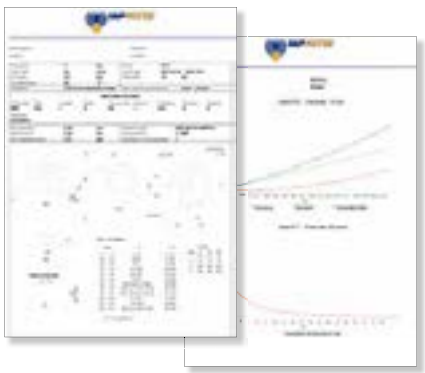
Insert all application data to calculate the filter size following the sequence:

- working pressure
- working flow rate
- working pressure drop
- working temperature
- fluid material and fluid type
- filtration media
- connection type



Step 6

Push "CALCULATE" to have result; in case of any mistake, the system will advice which parameter is out of range to allow to modify/adjust the selection



Step 7

Download PDF

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

MYCLEAN

THE NEW FILTER CONCEPT

MPFX
MPTX
MFBX
MFX
series

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 filter elements MP Filtri can be used, ensuring the best cleaning level of the oil due to the use of originals filter elements.

Filter element featuring our UNIQUE end cap with polygonal design.

UNIQUE polygonal spigot fitting within the filter bowl.

The products identified as MPFX, MPTX, MFBX and MFX are protected by one or more of the following patent applications:

European Patent Pending: n° 16181725.9
Italian Patent Pending: n° 102015000040473
US Patent Pending: n° 15/224,337
Canadian Patent Pending: n° 2,937,258

MPTX series

Maximum pressure up to 8 bar - Flow rate up to 300 l/min

MPTX GENERAL INFORMATION

Technical data

Return filter **Maximum pressure up to 8 bar - Flow rate up to 300 l/min**

Filter housing materials
- Head: Aluminium
- Cover: Nylon
- Bowl: Nylon

Seals
- Standard NBR series A
- Optional FPM series V

Pressure
Working pressure: 800 kPa (8 bar)

Temperature
From -25 °C to +110 °C

Bypass valve
- Opening pressure 175 kPa (1.75 bar)
- Opening pressure 300 kPa (3 bar)

Note
MPTX filters are provided for vertical mounting

Δp element type
- Microfibre filter elements - series H: 10 bar
- Fluid flow through the filter element from OUT to IN.

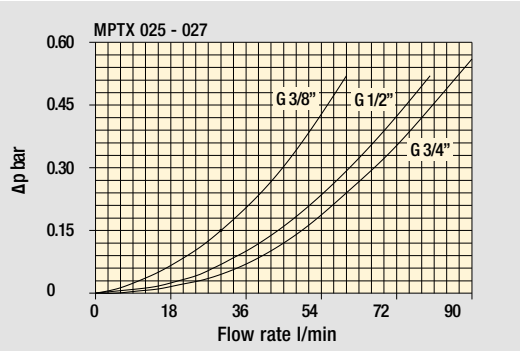
Weights [kg] and volumes [dm³]

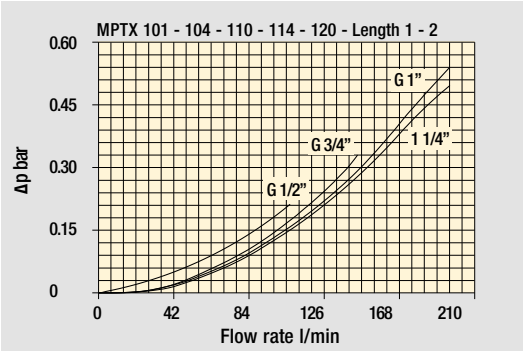
	Weights [kg]					Volumes [dm³]				
	Length	1	2	3	4	Length	1	2	3	4
MPTX 025		0.41	0.45	0.50	-		0.24	0.35	0.42	-
MPTX 027		0.44	0.48	0.55	-		0.24	0.35	0.42	-
MPTX 101		1.00	1.05	1.15	1.40		0.72	0.93	1.28	1.74
MPTX 104		1.10	1.15	1.25	1.50		0.72	0.93	1.28	1.74
MPTX 110-120		1.00	1.05	1.15	1.40		0.72	0.93	1.28	1.74
MPTX 114		1.10	1.15	1.25	1.50		0.72	0.93	1.28	1.74

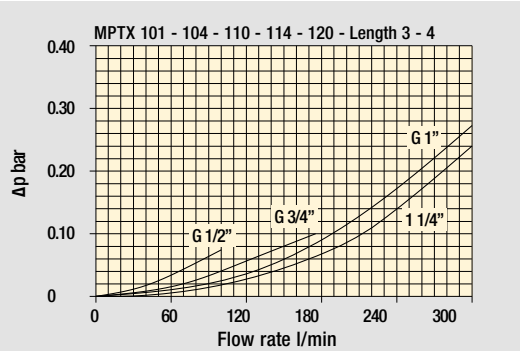
The curves are plotted using mineral oil with density of 0.86 kg/dm^3 in compliance with ISO 3968.
Δp varies proportionally with density.

Pressure drop

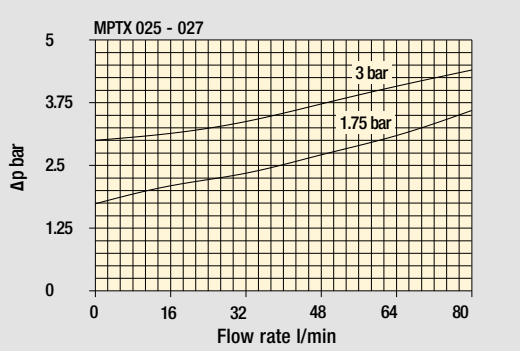
Filter housings Δp pressure drop

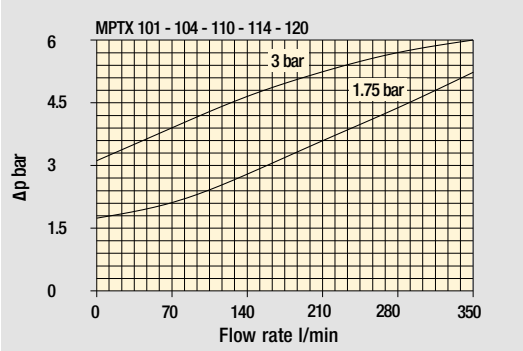




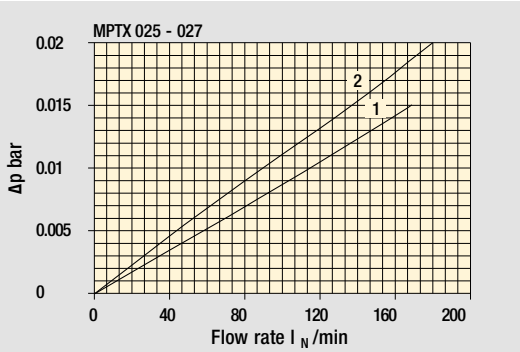


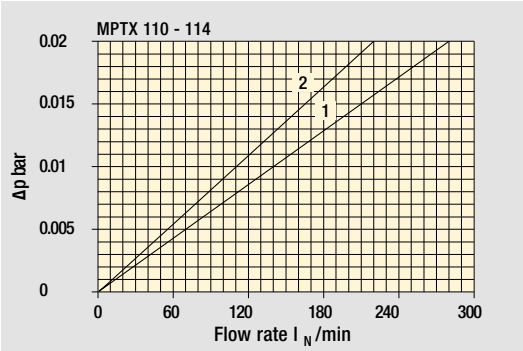
Bypass valve pressure drop





Air breather pressure drop

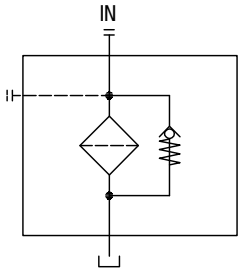




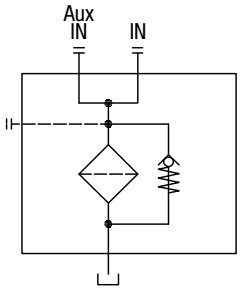
1 C With air breather 10 µm
2 D With anti-splash and SAP50 10 µm

Hydraulic symbols

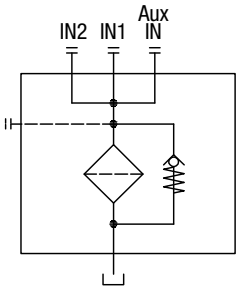
Style
1 connection



Style
2 connections



Style
3 connections



Multifunction

MPT 025 -027

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

Multiport - Multifunction

MPT 110

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

MPT 120

Triple IN port

Option:
double drain port

MPTX MPTX025 - MPTX027

Designation & Ordering code

COMPLETE FILTER

Configuration example 1:	MPTX025	1	S	A	G3	A10	E	P01
Configuration example 2:	MPTX027	3	C	W	G6	A03	B	P01

Series and size

MPTX025 | **MPTX027** Filter element with private spigot

Length

1 | **2** | **3**

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
A	NBR	•	•	•
V	FPM	•	•	•
W	NBR head anodized (filter element compatible with fluids HFA-HFB-HFC)	•	•	
Z	FPM head anodized (filter element compatible with fluids HFA-HFB-HFC)	•	•	

Connections

G1	G3/8”	**G6**	3/4” NPT
G2	G1/2”	**G7**	SAE 6 - 9/16” - 18 UNF
G3	G3/4”	**G8**	SAE 8 - 3/4” - 16 UNF
G4	3/8” NPT	**G9**	SAE 12 - 1 1/16” - 12 UN
G5	1/2” NPT		

Filtration rating (filter media)

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

Bypass valve

E	3 bar
B	1.75 bar

Execution

P01	MP Filtri standard
Pxx	Customized

FILTER ELEMENT

Configuration example 2:	MFX020	1	A10	H	B	E	P01
Configuration example 1:	MFX020	3	A03	H	W		P01

Element series and size

MFX020 Filter element with private spigot

Element length

1 | **2** | **3**

Filtration rating (filter media)

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

Element Δp

		Filter media Axx	Mxx	Pxx
N	10 bar		•	•
H	10 bar	•		
W	10 bar, compatible with fluids HFA, HFB and HFC	•	•	

Seals

B	NBR
V	FPM

Bypass valve

E	3 bar
	1.75 bar

Execution

P01	MP Filtri standard
Pxx	Customized

ACCESSORIES

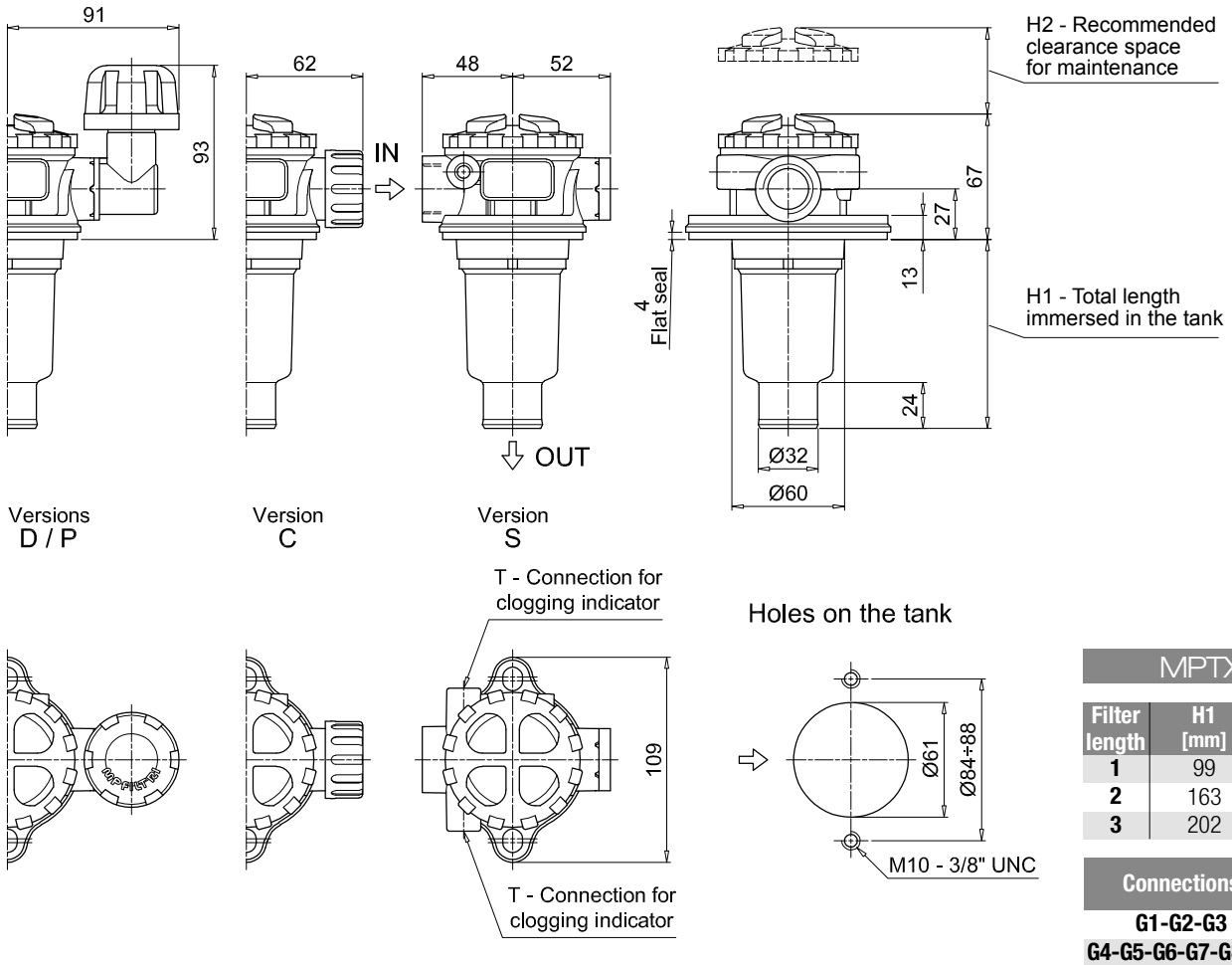
Indicators

		page
BVA	Axial pressure gauge	216
BVR	Radial pressure gauge	216
BVP	Visual pressure indicator with automatic reset	217
BVQ	Visual pressure indicator with manual reset	217
BEA	Electrical pressure indicator	215
BEM	Electrical pressure indicator	215
BLA	Electrical / visual pressure indicator	215-216

Additional features

		page
TE	Extension tube	224
DPT	Dipstick	225

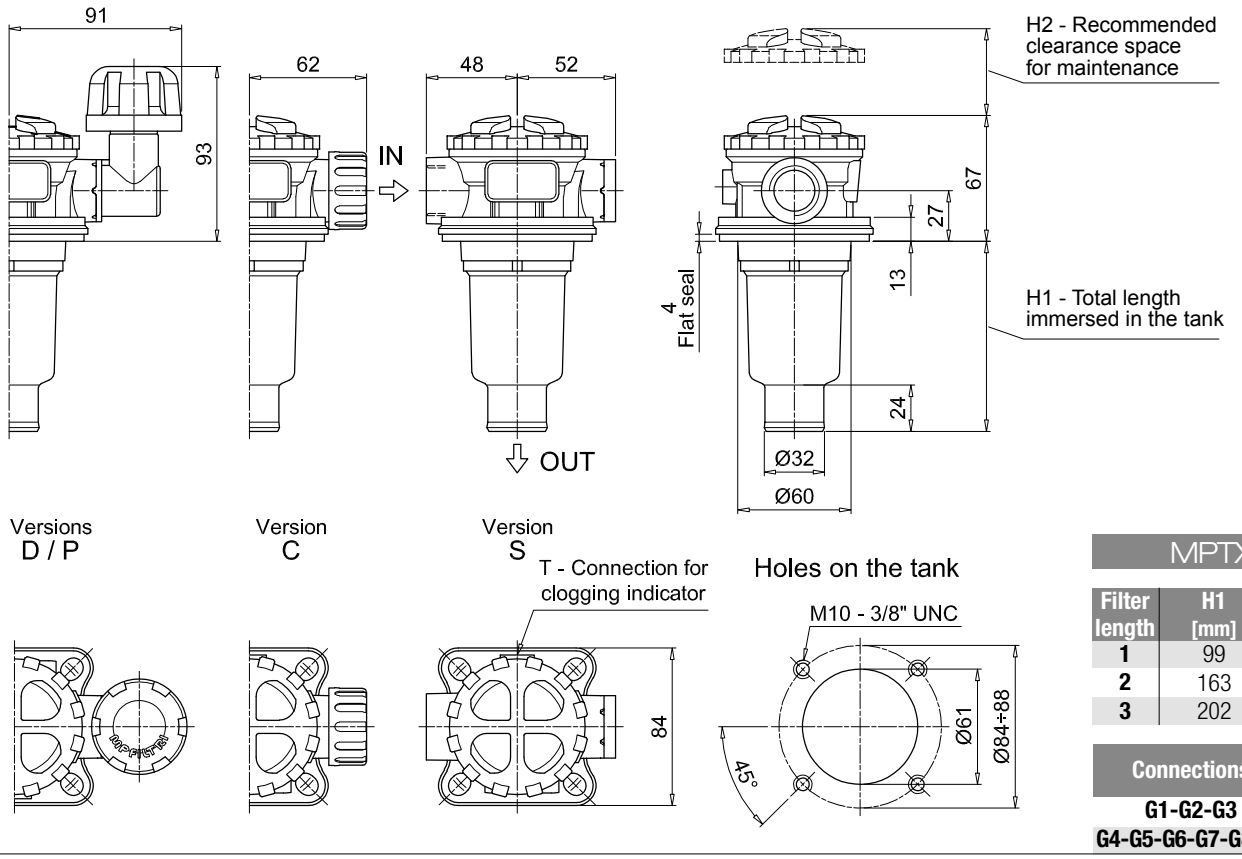
Dimensions



MPTX025

Filter length	H1 [mm]	H2 [mm]
1	99	130
2	163	195
3	202	230

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



MPTX027

Filter length	H1 [mm]	H2 [mm]
1	99	130
2	163	195
3	202	230

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

MPTX MPTX101 - MPTX104 - MPTX114

Designation & Ordering code

COMPLETE FILTER

Configuration example 1:	MPTX101	4	S	A	G3	A10	E	P01
Configuration example 2:	MPTX114	3	C	W	G6	A03	B	P01

Series and size

MPTX101 | **MPTX104** | **MPTX114** Filter element with private spigot

Length

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

Air breather

		MPTX101	MPTX104	MPTX114
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
A	NBR	•	•	•
V	FPM	•	•	•
W	NBR head anodized	•	•	
Z	FPM head anodized	•	•	

filter element compatible with fluids HFA-HFB-HFC

Connections

G1	G3/4"	**G6**	1 1/4" NPT
G2	G1"	**G7**	SAE 12 - 1 1/16" - 12 UN
G3	G1 1/4"	**G8**	SAE 16 - 1 5/16" - 12 UN
G4	3/4" NPT	**G9**	SAE 20 - 1 5/8" - 12 UN
G5	1" NPT		

Filtration rating (filter media)

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

Bypass valve

E	3 bar
B	1.75 bar

Execution

P01	MP Filtri standard
Pxx	Customized

FILTER ELEMENT

Configuration example 2:	MFX100	4	A10	H	B	E	P01
Configuration example 1:	MFX100	3	A03	W	B		P01

Element series and size

MFX100 Filter element with private spigot

Element length

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

Filtration rating (filter media)

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

Element Δp

		Filter media Axx	Mxx	Pxx
N	10 bar		•	•
H	10 bar	•		
W	10 bar, compatible with fluids HFA, HFB and HFC	•	•	

Seals

B	NBR
V	FPM

Bypass valve

E	3 bar
	1.75 bar

Execution

P01	MP Filtri standard
Pxx	Customized

ACCESSORIES

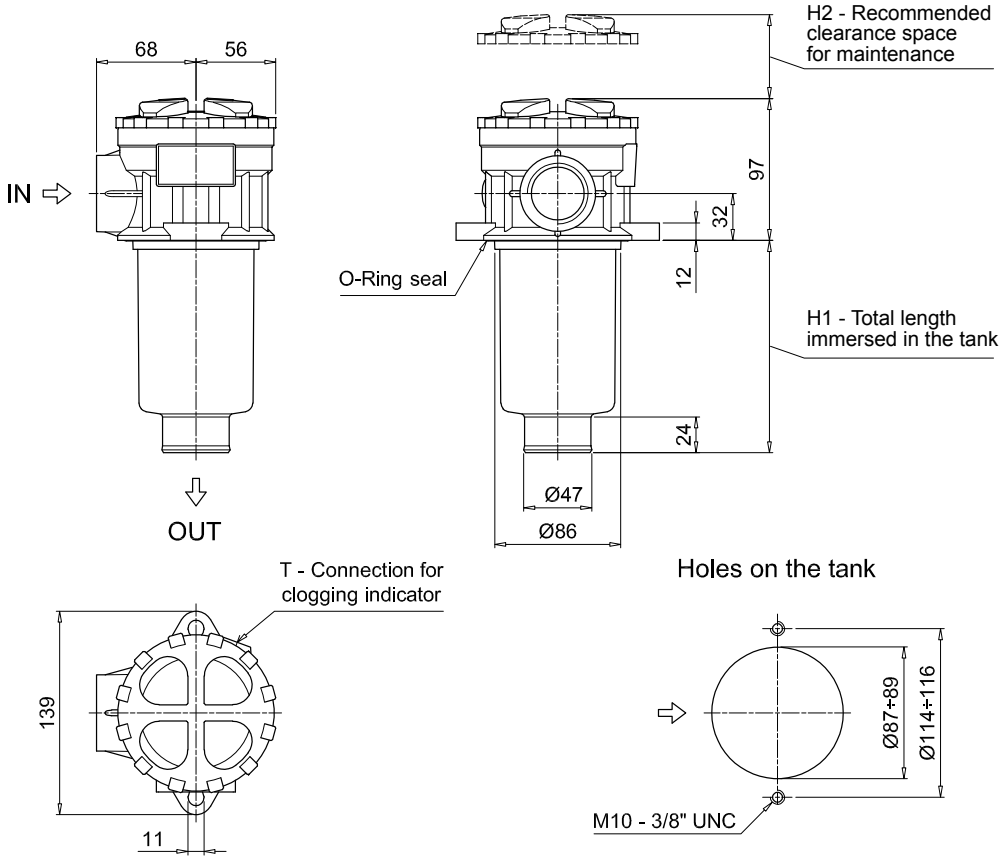
Indicators

		page
BVA	Axial pressure gauge	216
BVR	Radial pressure gauge	216
BVP	Visual pressure indicator with automatic reset	217
BVQ	Visual pressure indicator with manual reset	217
BEA	Electrical pressure indicator	215
BEM	Electrical pressure indicator	215
BLA	Electrical / visual pressure indicator	215-216

Additional features

		page
TE	Extension tube	224
DFS	Diffuser with fast lock connection	225
DPT	Dipstick	225

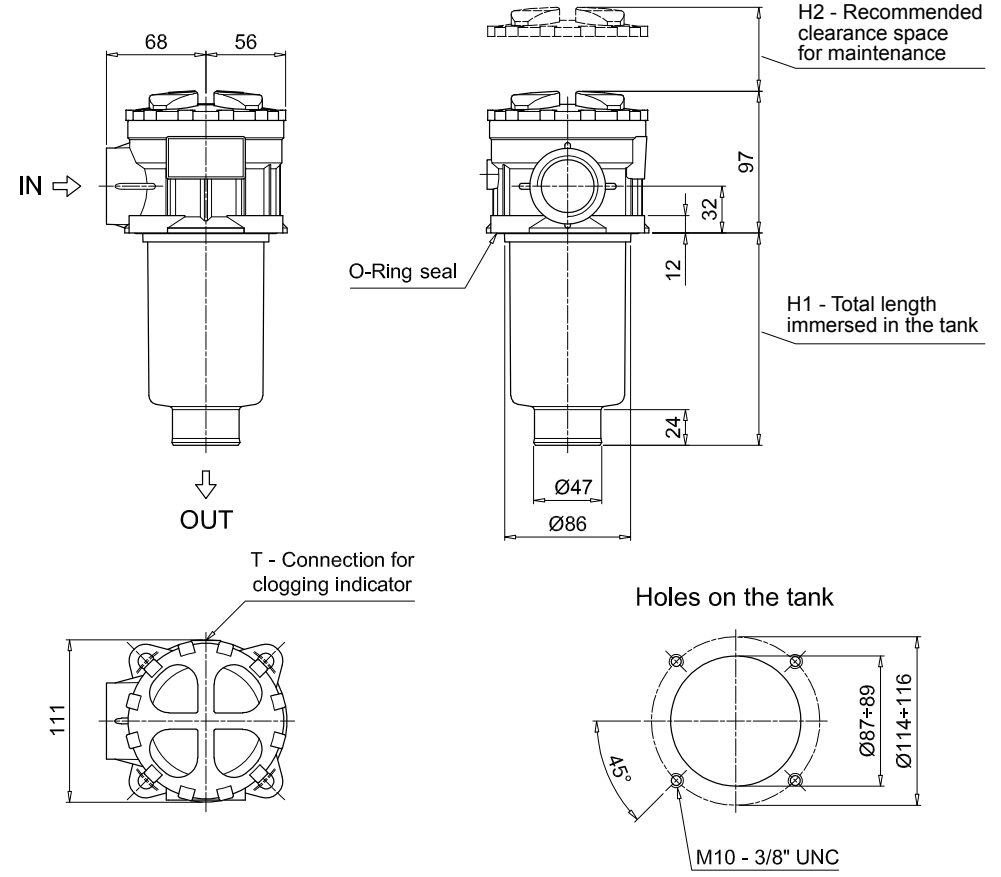
Dimensions



MPTX101

Filter length	H1 [mm]	H2 [mm]
1	101	120
2	146	170
3	224	250
4	326	350

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



MPTX104

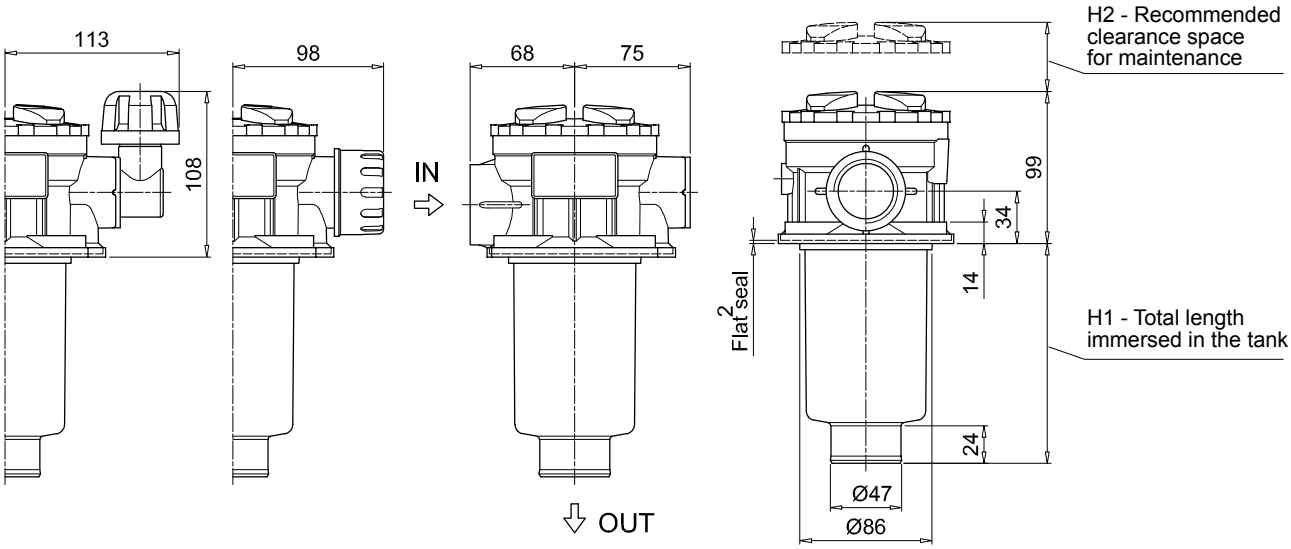
Filter length	H1 [mm]	H2 [mm]
1	101	120
2	146	170
3	224	250
4	326	350

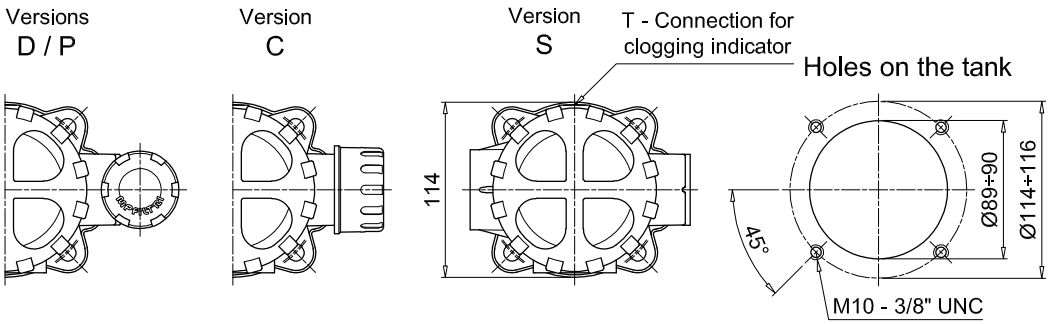
Connections	T
G1-G2-G3	G1/8"
G4-G5-G6-G7-G8-G9	1/8" NPT

Dimensions

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

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





Designation & Ordering code

COMPLETE FILTER

Configuration example 1:	MPTX110	3	P	V	G4	1	M25	B	P01
Configuration example 2:	MPTX110	1	S	A	G1	0	A06	E	P01

Series and size
MPTX110 Filter element with private spigot

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
A	NBR	•	•	•
V	FPM	•	•	•
W	NBR head anodized	•	•	
Z	FPM head anodized	•	•	

filter element compatible with fluids HFA-HFB-HFC

Main Connections		Aux size 1	Aux size 2
G1	G3/4"	G3/8"	G1/2"
G2	G1"		
G3	G1 1/4"		
G4	3/4" NPT	3/8" NPT	1/2" NPT
G5	1" NPT		

Main Connections		Aux size 2	Aux size 2
G6	1 1/4" NPT	3/8" NPT	1/2" NPT
G7	SAE 12 - 1 1/16" - 12 UN	SAE 6 - 9/16" - 18 UNF	SAE 8 - 3/4" - 16 UNF
G8	SAE 16 - 1 5/16" - 12 UN		
G9	SAE 20 - 1 5/8" - 12 UN		

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

Filtration rating (filter media)

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

Bypass valve
E 3 bar
B 1.75 bar

Execution
P01 MP Filtri standard
Pxx Customized

FILTER ELEMENT

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

Element series and size
MFX100 Filter element with private spigot

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

Filtration rating (filter media)

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

Element Δp

		Filter media Axx	Mxx	Pxx
N	10 bar		•	•
H	10 bar	•		
W	10 bar, compatible with fluids HFA, HFB and HFC	•	•	

Seals
B NBR
V FPM

Bypass valve
E 3 bar
1.75 bar

Execution
P01 MP Filtri standard
Pxx Customized

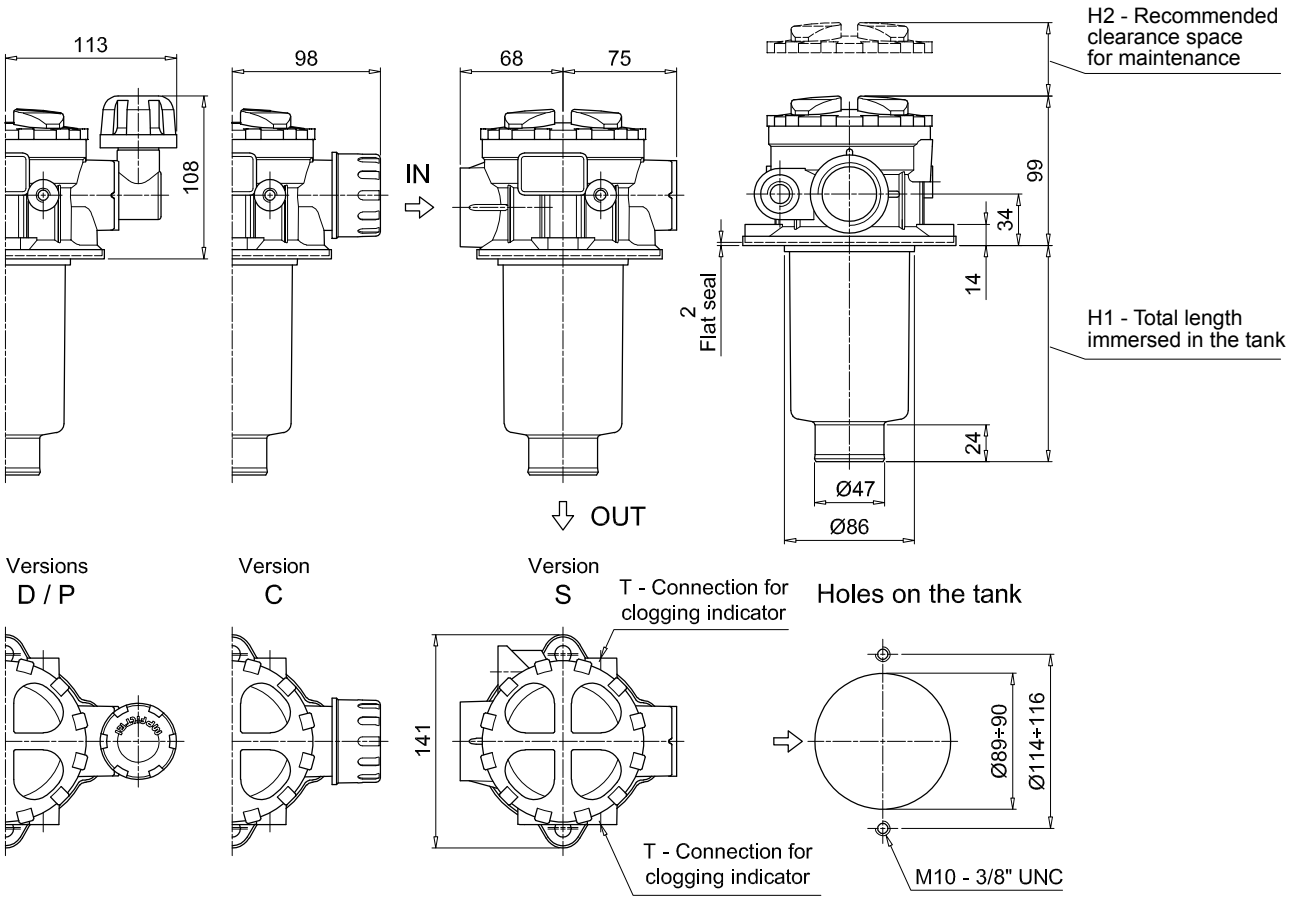
ACCESSORIES

Indicators		page
BVA	Axial pressure gauge	216
BVR	Radial pressure gauge	216
BVP	Visual pressure indicator with automatic reset	217
BVQ	Visual pressure indicator with manual reset	217
BEA	Electrical pressure indicator	215
BEM	Electrical pressure indicator	215
BLA	Electrical / visual pressure indicator	215-216

Additional features		page
TE	Extension tube	224
DFS	Diffuser with fast lock connection	225
DPT	Dipstick	225

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

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



Designation & Ordering code

COMPLETE FILTER

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

Series and size

MPTX120 Filter element with private spigot

Length

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

Seals and treatments

		Axx	Mxx	Pxx
A	NBR	•	•	•
V	FPM	•	•	•
W	NBR head anodized	•	•	
Z	FPM head anodized	•	•	

filter element compatible with fluids HFA-HFB-HFC

Filtration rating

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

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

Bypass valve

E 3 bar
B 1.75 bar

Execution

P01 MP Filtri standard
Pxx Customized

FILTER ELEMENT

Configuration example 1:	MFX100	3	M25	N	V		P01
Configuration example 2:	MFX100	1	A10	H	B	E	P01

Element series and size

MFX100 Filter element with private spigot

Element length

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

Filtration rating (filter media)

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

Element Δp

		Axx	Mxx	Pxx
N	10 bar		•	•
H	10 bar	•		
W	10 bar, compatible with fluids HFA, HFB and HFC	•	•	

Filter media

Seals

B NBR
V FPM

Bypass valve

E 3 bar
1.75 bar

Execution

P01 MP Filtri standard
Pxx Customized

ACCESSORIES

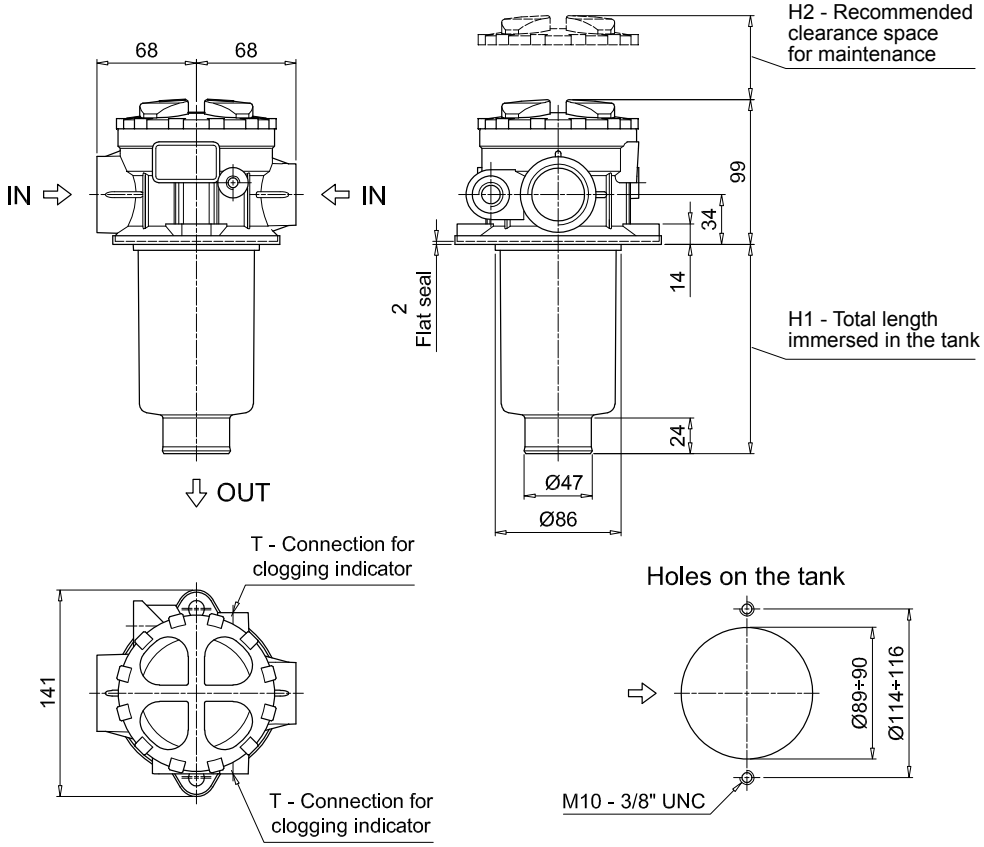
Indicators

		page
BVA	Axial pressure gauge	216
BVR	Radial pressure gauge	216
BVP	Visual pressure indicator with automatic reset	217
BVQ	Visual pressure indicator with manual reset	217
BEA	Electrical pressure indicator	215
BEM	Electrical pressure indicator	215
BLA	Electrical / visual pressure indicator	215-216

Additional features

		page
TE	Extension tube	224
DFS	Diffuser with fast lock connection	225
DPT	Dipstick	225

Dimensions



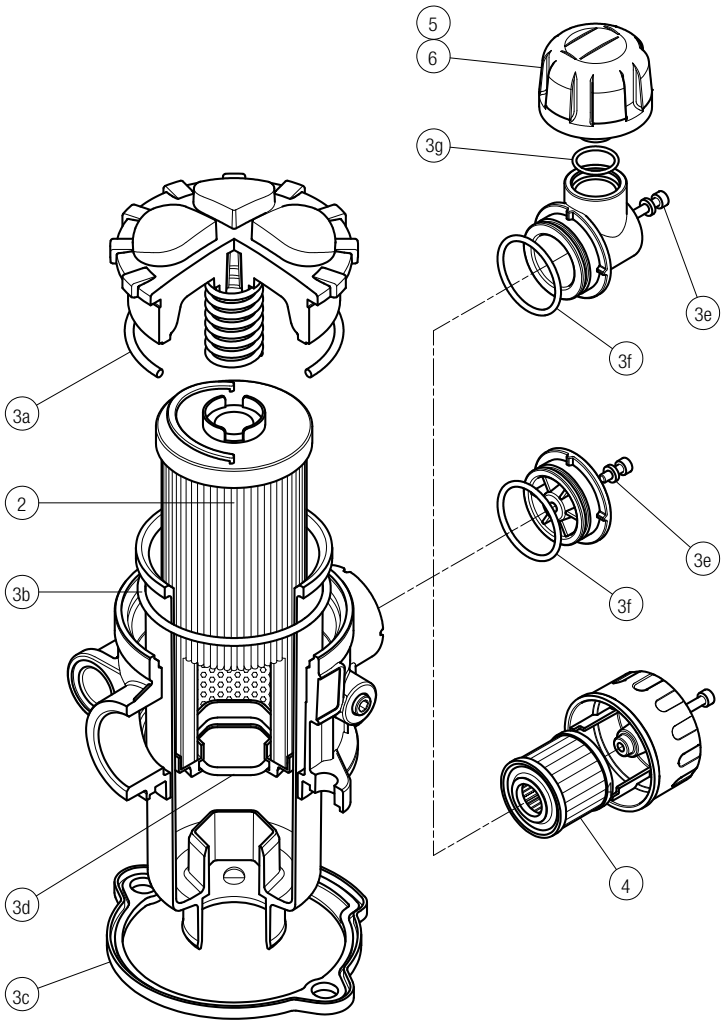
MPTX120		
Filter length	**H1 [mm]**	**H2 [mm]**
1	99	120
2	144	170
3	222	250
4	324	350

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

MPTX SPARE PARTS

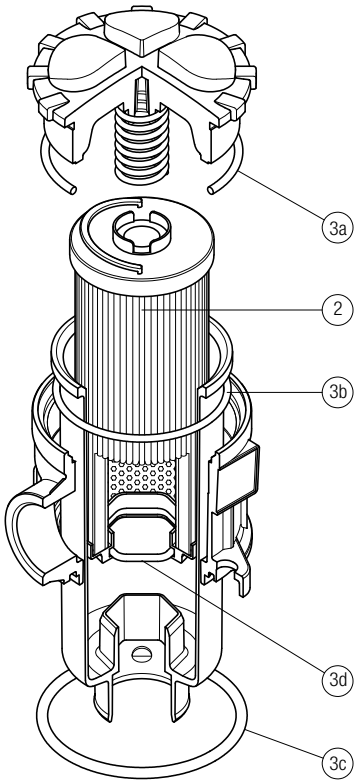
Order number for spare parts

MPTX 025 - 027 - 110



Item:	Q.ty: 1 pc. 2	Q.ty: 1 pc. 3 (3a ÷ 3g)		Q.ty: 1 pc. 4	Q.ty: 1 pc. 5	Q.ty: 1 pc. 6
Filter series	**Filter element**	**Seal Kit code number NBR**	**FPM**	**Air breather filter element - version: C**	**D**	**P**
MPTX 025	See order table	02050701	02050702	10 µm A3L03	10 µm SAP50G3L03A0P01	10 µm SAP50G3L03A1P01
MPTX 027		02050703	02050704	10 µm A3L03	10 µm SAP50G3L03A0P01	10 µm SAP50G3L03A1P01
MPTX 110		02050709	02050710	10 µm A5L03	10 µm SAP50G3L03A0P01	10 µm SAP50G3L03A1P01

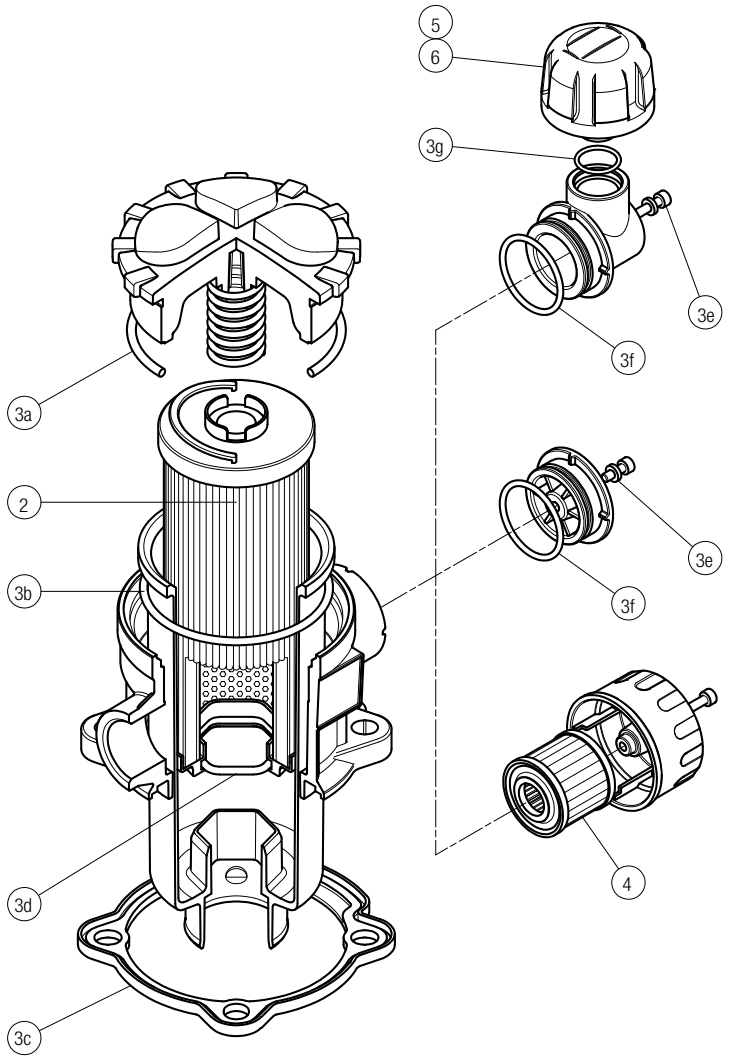
MPTX 101S - 104S



Item:	Q.ty: 1 pc. 2	Q.ty: 1 pc. 3 (3a ÷ 3d)	
Filter series	**Filter element**	**Seal Kit code number NBR**	**FPM**
MPTX 101S-104S	See order table	02050705	02050706

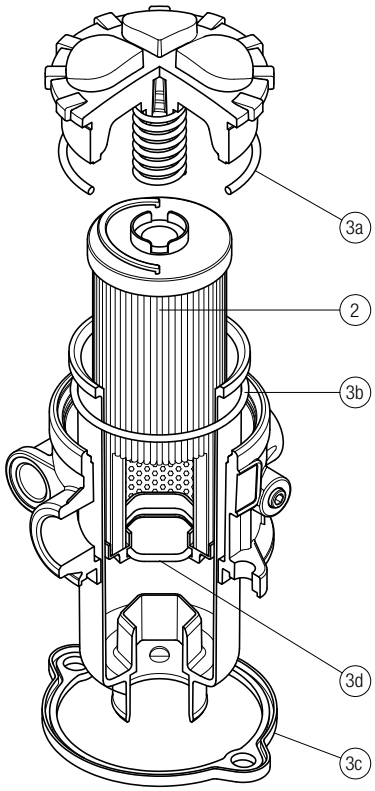
Order number for spare parts

MPTX 114



Item:	Q.ty: 1 pc. 2	Q.ty: 1 pc. 3 (3a ÷ 3g)		Q.ty: 1 pc. 4	Q.ty: 1 pc. 5	Q.ty: 1 pc. 6
Filter series	Filter element	Seal Kit code number NBR	FPM	Air breather filter element - version: C	D	P
MPTX 114	See order table	02050707	02050708	10 µm A3L03	10 µm SAP50G3L03A0P01	10 µmm SAP50G3L03A1P01

MPTX 120



Item:	Q.ty: 1 pc. 2	Q.ty: 1 pc. 3 (3a ÷ 3d)	
Filter series	Filter element	Seal Kit code number NBR	FPM
MPTX 120	See order table	02050711	02050712

MPT series

Maximum pressure up to 8 bar - Flow rate up to 300 l/min

Technical data

Return filter **Maximum pressure up to 8 bar - Flow rate up to 300 l/min**

Filter housing materials
- Head: Aluminium
- Cover: Nylon
- Bowl: Nylon

Seals
- Standard NBR series A
- Optional FPM series V

Pressure
Working pressure: 800 kPa (8 bar)

Temperature
From -25 °C to +110 °C

Bypass valve
- Opening pressure 175 kPa (1.75 bar)
- Opening pressure 300 kPa (3 bar)

Note
MPT filters are provided for vertical mounting

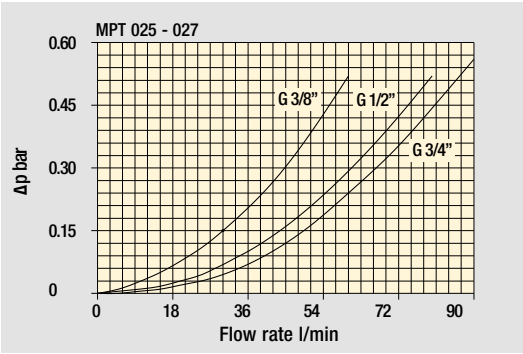
Δp element type
- Microfibre filter elements - series H: 10 bar
- Fluid flow through the filter element from OUT to IN.

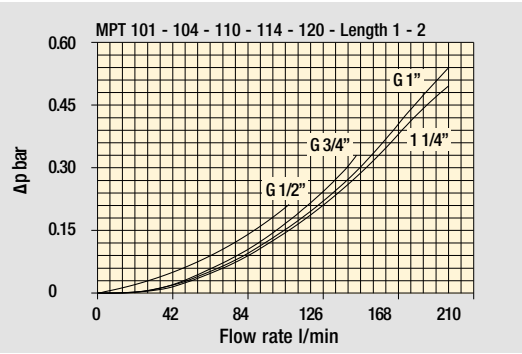
Weights [kg] and volumes [dm³]

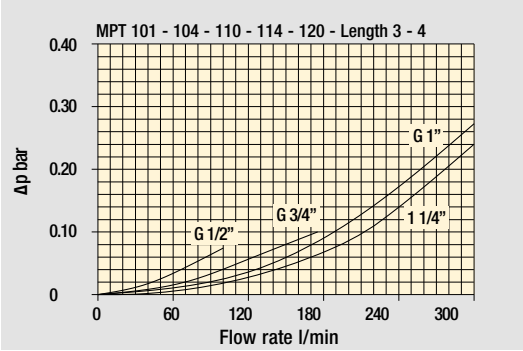
	Weights [kg]					Volumes [dm³]				
	Length	1	2	3	4	Length	1	2	3	4
MPT 025		0.41	0.45	0.50	-		0.24	0.35	0.42	-
MPT 027		0.44	0.48	0.55	-		0.24	0.35	0.42	-
MPT 101		1.00	1.05	1.15	1.40		0.72	0.93	1.28	1.74
MPT 104		1.10	1.15	1.25	1.50		0.72	0.93	1.28	1.74
MPT 110-120		1.00	1.05	1.15	1.40		0.72	0.93	1.28	1.74
MPT 114		1.10	1.15	1.25	1.50		0.72	0.93	1.28	1.74

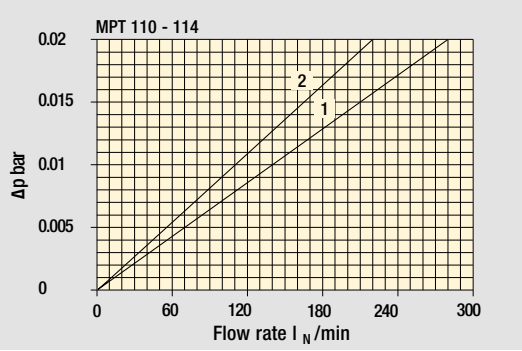
The curves are plotted using mineral oil with density of 0.86 kg/dm^3 in compliance with ISO 3968.
Δp varies proportionally with density.

Filter housings Δp pressure drop

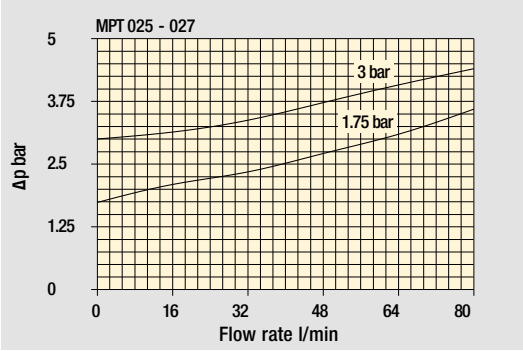


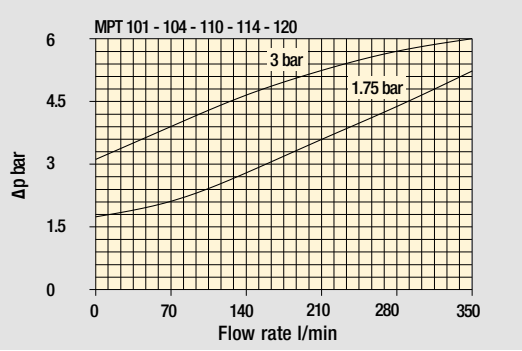




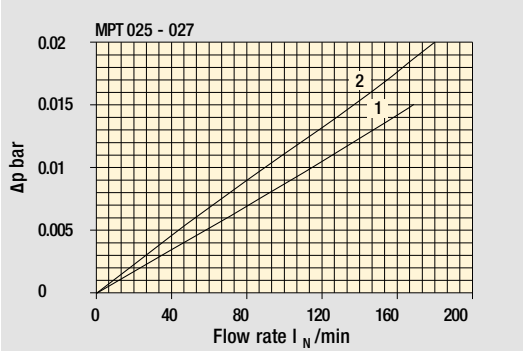


Bypass valve pressure drop





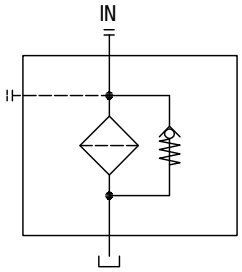
Air breather pressure drop



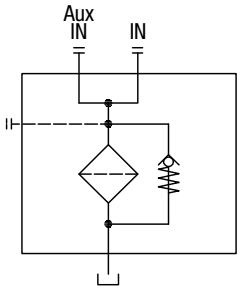
1 C With air breather 10 µm
2 D With anti-splash and SAP50 10 µm

Hydraulic symbols

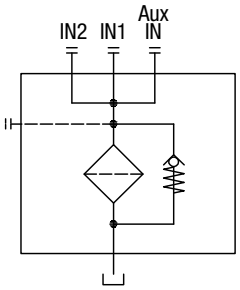
Style
1 connection



Style
2 connections



Style
3 connections



Multifunction

MPT 025 -027

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

Multiport - Multifunction

MPT 110

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

MPT 120

Triple IN port

Option:
double drain port

Designation & Ordering code

COMPLETE FILTER

Configuration example 1:	MPT025	1	S	A	G3	A10	E	P01
Configuration example 2:	MPT027	3	C	W	G6	A03	B	P01

Series and size

MPT025 **MPT027** Filter element with standard spigot

Length

1 | **2** | **3**

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
A	NBR	•	•	•
V	FPM	•	•	•
W	NBR head anodized (filter element compatible with fluids HFA-HFB-HFC)	•	•	
Z	FPM head anodized (filter element compatible with fluids HFA-HFB-HFC)	•	•	

Connections

G1	G3/8”	**G6**	3/4” NPT
G2	G1/2”	**G7**	SAE 6 - 9/16” - 18 UNF
G3	G3/4”	**G8**	SAE 8 - 3/4” - 16 UNF
G4	3/8” NPT	**G9**	SAE 12 - 1 1/16” - 12 UN
G5	1/2” NPT		

Filtration rating (filter media)

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

Bypass valve

E	3 bar
B	1.75 bar

Execution

P01	MP Filtri standard
Pxx	Customized

FILTER ELEMENT

Configuration example 1:	MF020	1	A10	H	B	E	P01
Configuration example 2:	MF020	3	A03	H	W		P01

Element series and size

MF020 Filter element with standard spigot

Element length

1 | **2** | **3**

Filtration rating (filter media)

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

Element Δp

		Filter media Axx	Mxx	Pxx
N	10 bar		•	•
H	10 bar	•		
W	10 bar, compatible with fluids HFA, HFB and HFC	•	•	

Seals

B	NBR
V	FPM

Bypass valve

E	3 bar
	1.75 bar

Execution

P01	MP Filtri standard
Pxx	Customized

ACCESSORIES

Indicators

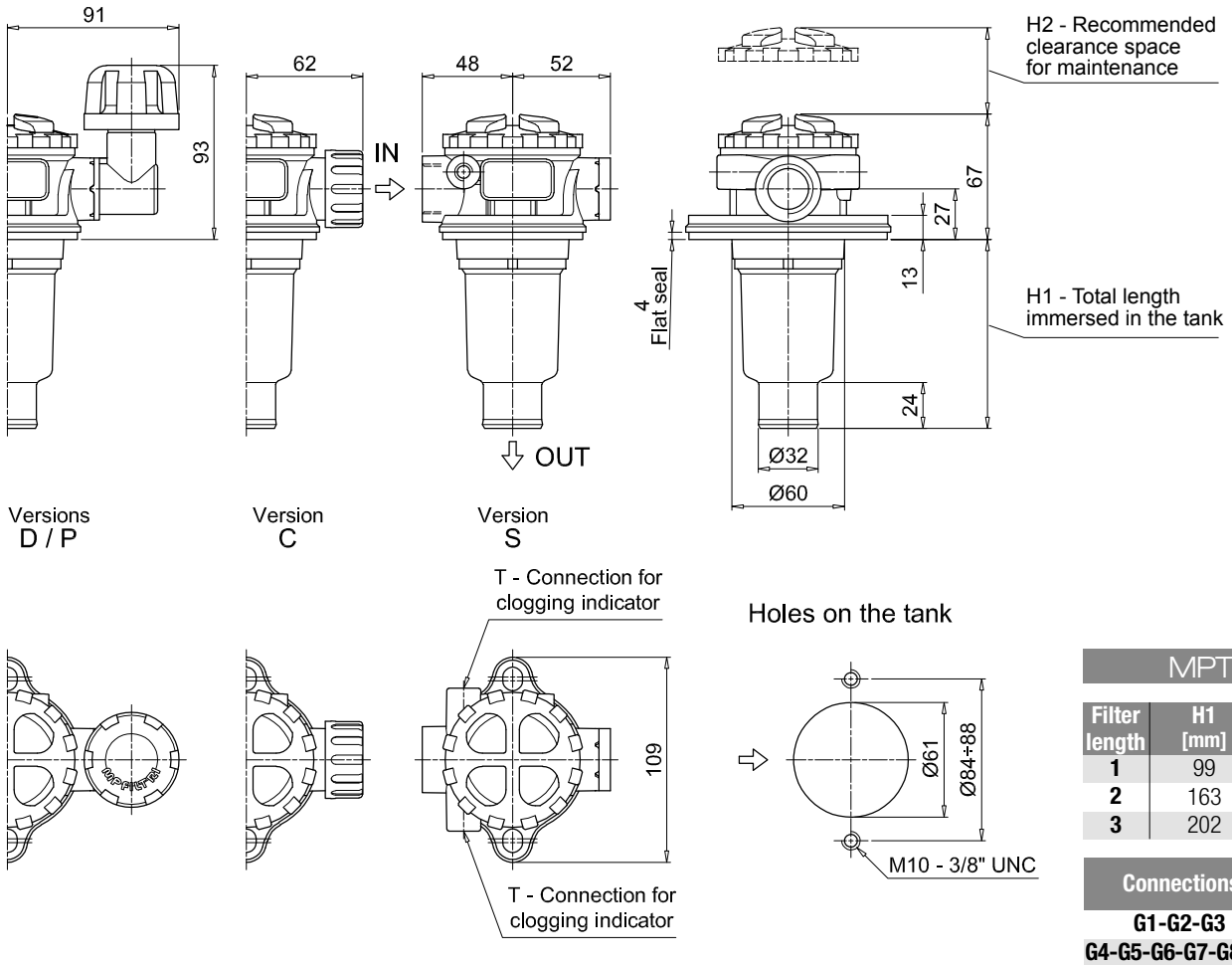
		page
BVA	Axial pressure gauge	216
BVR	Radial pressure gauge	216
BVP	Visual pressure indicator with automatic reset	217
BVQ	Visual pressure indicator with manual reset	217

Additional features

		page
TE	Extension tube	224
DPT	Dipstick	225

		page
BEA	Electrical pressure indicator	215
BEM	Electrical pressure indicator	215
BLA	Electrical / visual pressure indicator	215-216

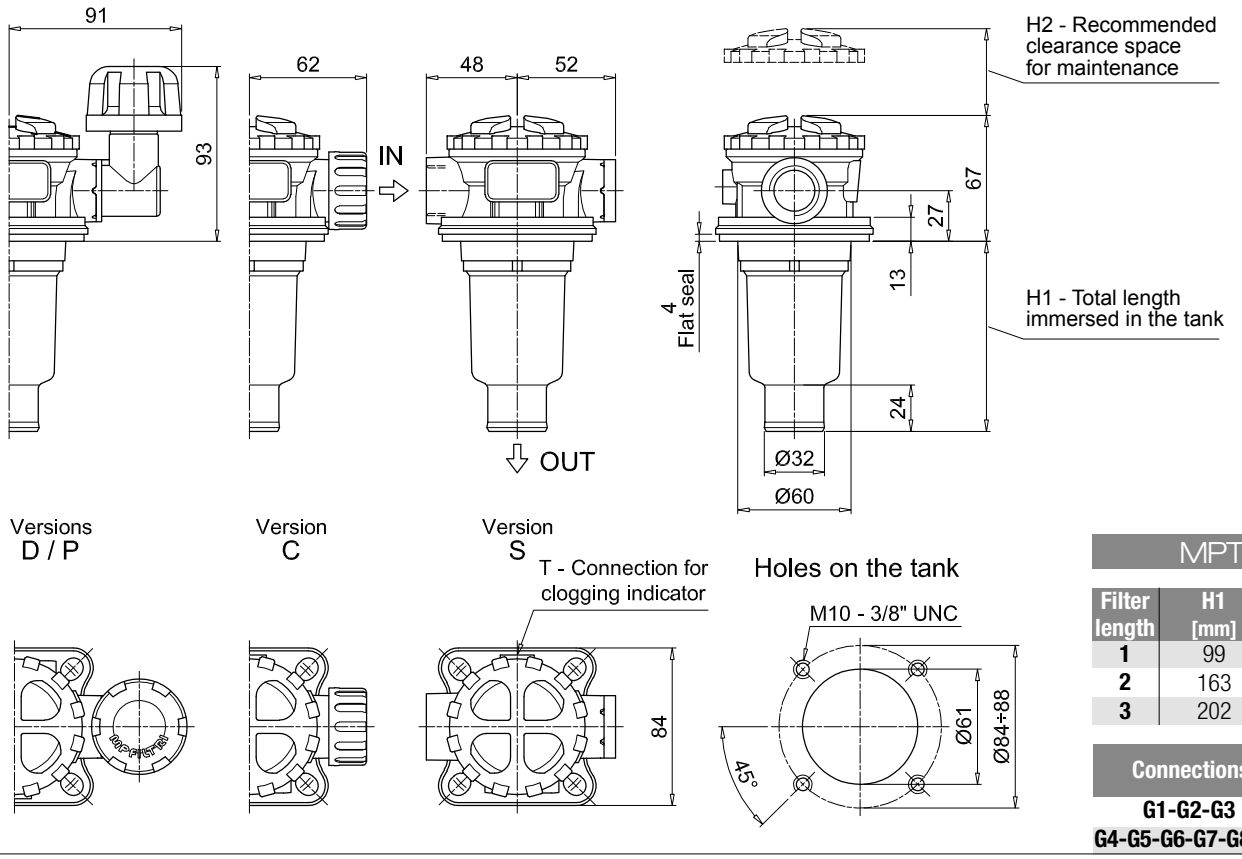
Dimensions



MPT025

Filter length	H1 [mm]	H2 [mm]
1	99	130
2	163	195
3	202	230

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



MPT027

Filter length	H1 [mm]	H2 [mm]
1	99	130
2	163	195
3	202	230

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

MPT MPT101 - MPT104 - MPT114

Designation & Ordering code

COMPLETE FILTER

Configuration example 1:	MPT101	4	S	A	G3	A10	E	P01
Configuration example 2:	MPT114	3	C	W	G6	A03	B	P01

Series and size

MPT101 | **MPT104** | **MPT114** Filter element with standard spigot

Length

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

Air breather

		MPT101	MPT104	MPT114
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			•

Filtration rating

Seals and treatments

		Axx	Mxx	Pxx
A	NBR	•	•	•
V	FPM	•	•	•
W	NBR head anodized	•	•	
Z	FPM head anodized	•	•	

filter element compatible with fluids HFA-HFB-HFC

Connections

G1	G3/4"	**G6**	1 1/4" NPT
G2	G1"	**G7**	SAE 12 - 1 1/16" - 12 UN
G3	G1 1/4"	**G8**	SAE 16 - 1 5/16" - 12 UN
G4	3/4" NPT	**G9**	SAE 20 - 1 5/8" - 12 UN
G5	1" NPT		

Filtration rating (filter media)

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

Bypass valve

E	3 bar
B	1.75 bar

Execution

P01	MP Filtri standard
Pxx	Customized

FILTER ELEMENT

Configuration example 1:	MF100	4	A10	H	B	E	P01
Configuration example 2:	MF100	3	A03	W	B		P01

Element series and size

MF100 Filter element with standard spigot

Element length

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

Filtration rating (filter media)

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

Filter media

Element Δp

		Axx	Mxx	Pxx
N	10 bar		•	•
H	10 bar	•		
W	10 bar, compatible with fluids HFA, HFB and HFC	•	•	

Seals

B	NBR
V	FPM

Bypass valve

E	3 bar
	1.75 bar

Execution

P01	MP Filtri standard
Pxx	Customized

ACCESSORIES

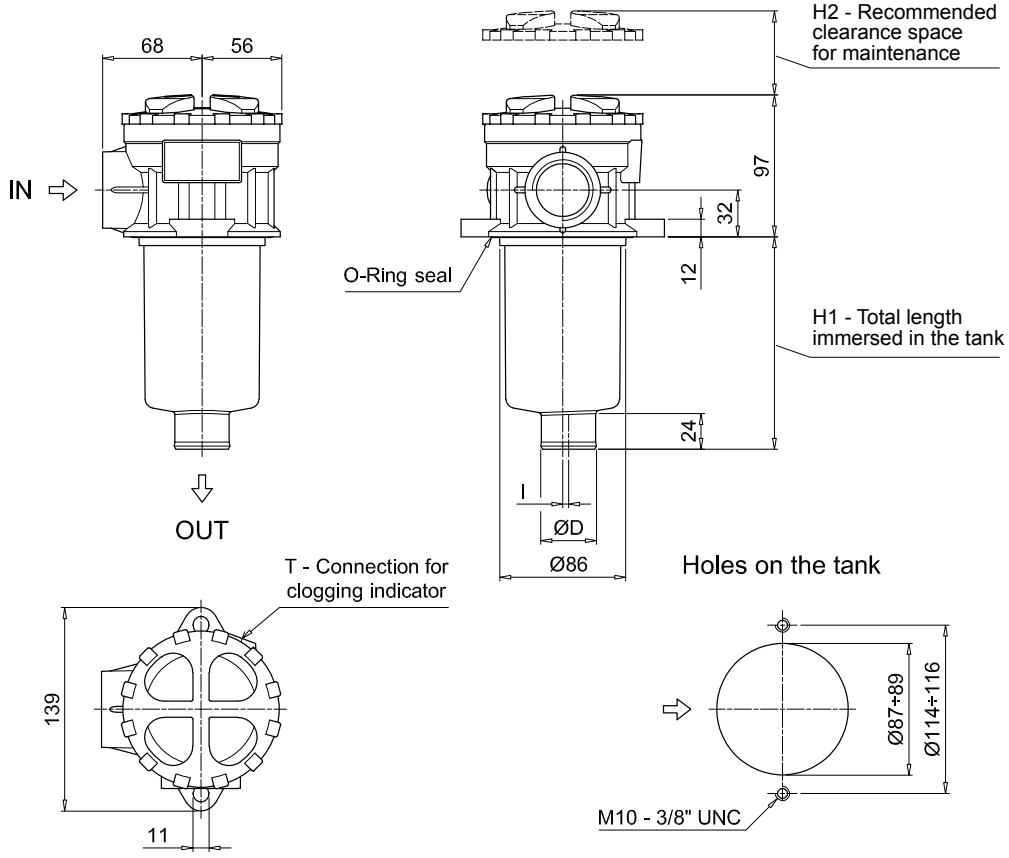
Indicators

		page
BVA	Axial pressure gauge	216
BVR	Radial pressure gauge	216
BVP	Visual pressure indicator with automatic reset	217
BVQ	Visual pressure indicator with manual reset	217
BEA	Electrical pressure indicator	215
BEM	Electrical pressure indicator	215
BLA	Electrical / visual pressure indicator	215-216

Additional features

		page
TE	Extension tube	224
DFS	Diffuser with fast lock connection	225
DPT	Dipstick	225

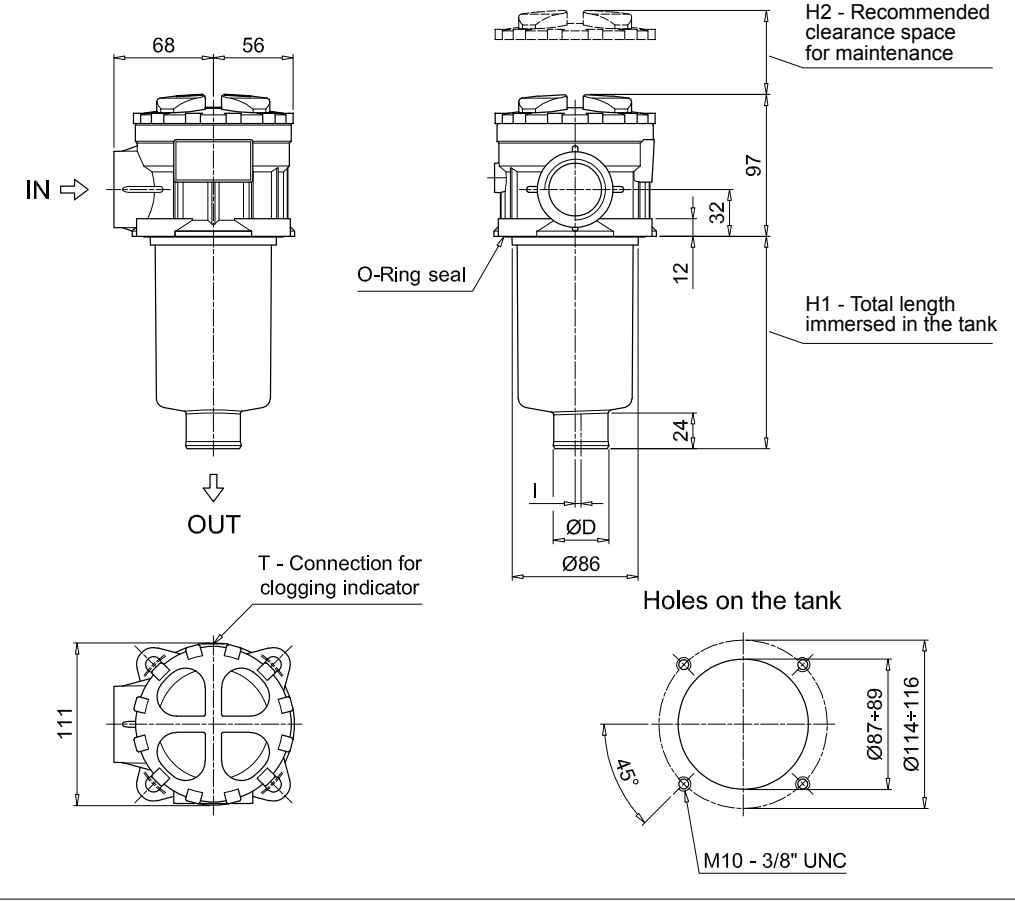
Dimensions



MPT101

Filter length	H1 [mm]	H2 [mm]	D [mm]	I [mm]
1	99	120	38	4
2	146	170	38	4
3	224	250	47	-
4	326	350	47	2.5

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



MPT104

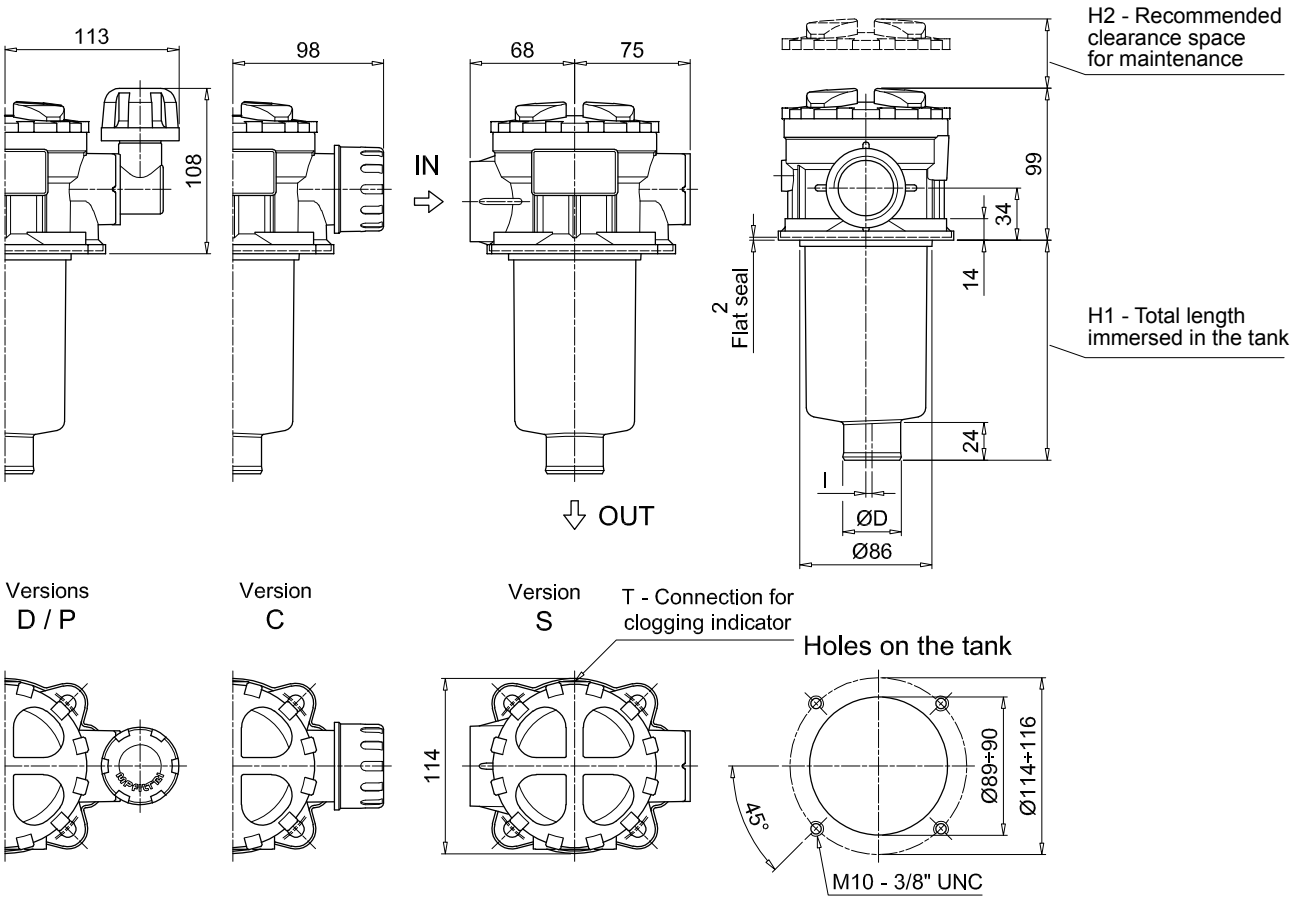
Filter length	H1 [mm]	H2 [mm]	D [mm]	I [mm]
1	99	120	38	4
2	146	170	38	4
3	224	250	47	-
4	326	350	47	2.5

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

Dimensions

MPT114				
Filter length	H1 [mm]	H2 [mm]	D [mm]	I [mm]
1	97	120	38	4
2	144	170	38	4
3	222	250	47	-
4	324	350	47	2.5

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



MPT MPT110

Designation & Ordering code

COMPLETE FILTER

Configuration example 1:	MPT110	1	S	A	G1	0	A06	E	P01
Configuration example 2:	MPT110	3	P	V	G4	1	M25	B	P01

Series and size
MPT110 Filter element with standard spigot

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
A	NBR	•	•	•
V	FPM	•	•	•
W	NBR head anodized	•	•	
Z	FPM head anodized	•	•	

filter element compatible with fluids HFA-HFB-HFC

Main Connections		Aux size 1	Aux size 2
G1	G3/4"	G3/8"	G1/2"
G2	G1"		
G3	G1 1/4"		
G4	3/4" NPT	3/8" NPT	1/2" NPT
G5	1" NPT		

Main Connections		Aux size 2	Aux size 2
G6	1 1/4" NPT	3/8" NPT	1/2" NPT
G7	SAE 12 - 1 1/16" - 12 UN	SAE 6 - 9/16" - 18 UNF	SAE 8 - 3/4" - 16 UNF
G8	SAE 16 - 1 5/16" - 12 UN		
G9	SAE 20 - 1 5/8" - 12 UN		

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

Filtration rating (filter media)

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

Bypass valve
E 3 bar
B 1.75 bar

Execution
P01 MP Filtri standard
Pxx Customized

FILTER ELEMENT

Configuration example 1:	MF100	1	A06	H	B	E	P01
Configuration example 2:	MF100	3	M25	N	V		P01

Element series and size
MF100 Filter element with standard spigot

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

Filtration rating (filter media)

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

Element Δp

		Filter media Axx	Mxx	Pxx
N	10 bar		•	•
H	10 bar	•		
W	10 bar, compatible with fluids HFA, HFB and HFC	•	•	

Seals
B NBR
V FPM

Bypass valve
E 3 bar
1.75 bar

Execution
P01 MP Filtri standard
Pxx Customized

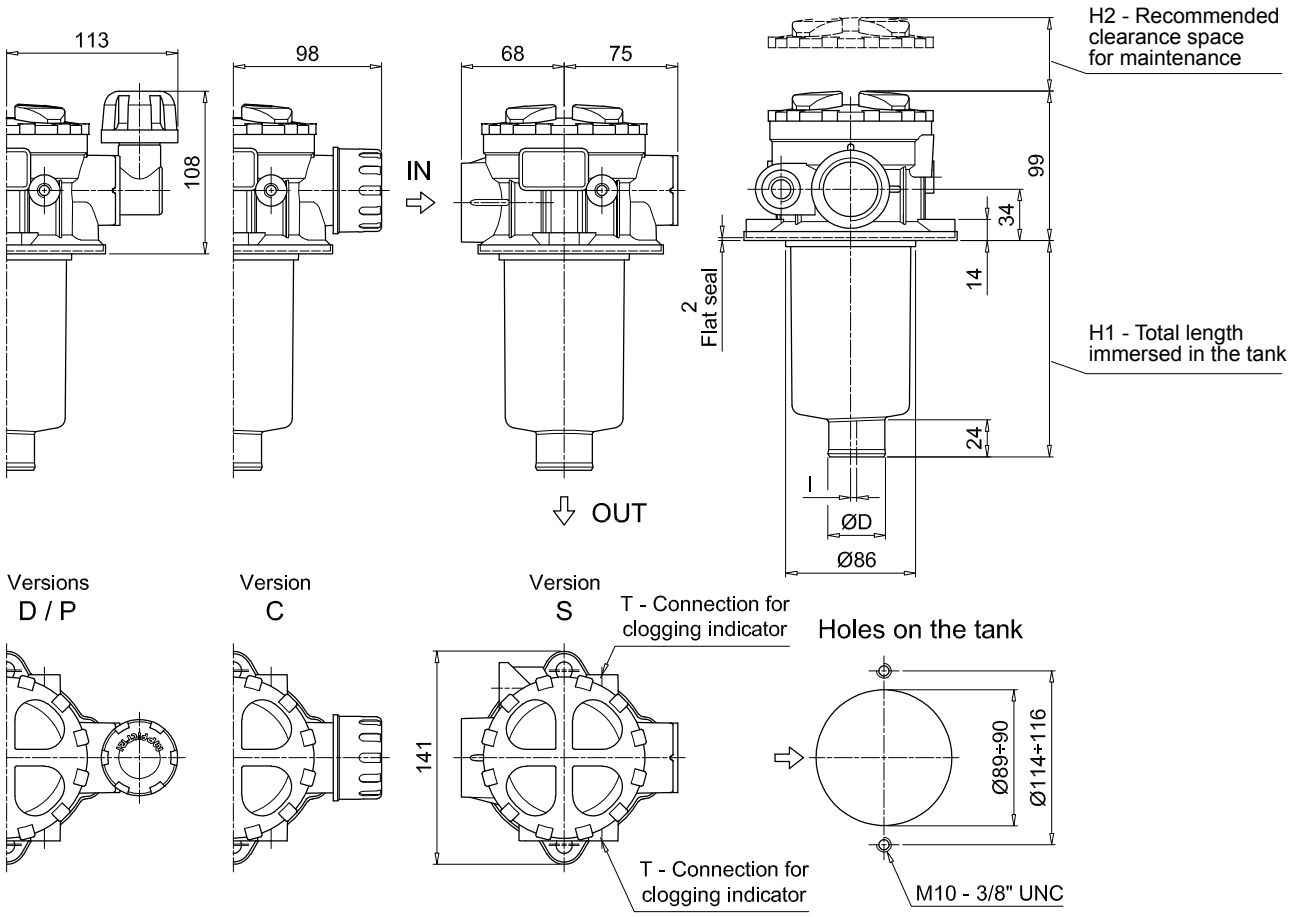
ACCESSORIES

Indicators		page
BVA	Axial pressure gauge	216
BVR	Radial pressure gauge	216
BVP	Visual pressure indicator with automatic reset	217
BVQ	Visual pressure indicator with manual reset	217
BEA	Electrical pressure indicator	215
BEM	Electrical pressure indicator	215
BLA	Electrical / visual pressure indicator	215-216

Additional features		page
TE	Extension tube	224
DFS	Diffuser with fast lock connection	225
DPT	Dipstick	225

MPT110				
Filter length	**H1 [mm]**	**H2 [mm]**	**D [mm]**	**I [mm]**
1	97	120	38	4
2	144	170	38	4
3	222	250	47	-
4	324	350	47	2.5

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



Designation & Ordering code

COMPLETE FILTER

Configuration example 1: MPT120 | 1 | A | G1 | 0 | A06 | E | P01

Configuration example 2: MPT120 | 3 | V | G4 | 1 | M25 | B | P01

Series and size

MPT120 Filter element with standard spigot

Length

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

Seals and treatments — Filtration rating: Axx | Mxx | Pxx

A	NBR	•	•	•
V	FPM	•	•	•
W	NBR head anodized	•	•	
Z	FPM head anodized	•	•	

filter element compatible with fluids HFA-HFB-HFC

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

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

Bypass valve

E 3 bar

B 1.75 bar

Execution

P01 MP Filtri standard

Pxx Customized

FILTER ELEMENT

Configuration example 1: MF100 | 1 | A06 | H | B | E | P01

Configuration example 2: MF100 | 3 | M25 | N | V | | P01

Element series and size

MF100 Filter element with standard spigot

Element length

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

Filtration rating (filter media)

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

Element Δp — Filter media: Axx | Mxx | Pxx

N	10 bar		•	•
H	10 bar	•		
W	10 bar, compatible with fluids HFA, HFB and HFC	•	•	

Seals

B NBR

V FPM

Bypass valve

E 3 bar

1.75 bar

Execution

P01 MP Filtri standard

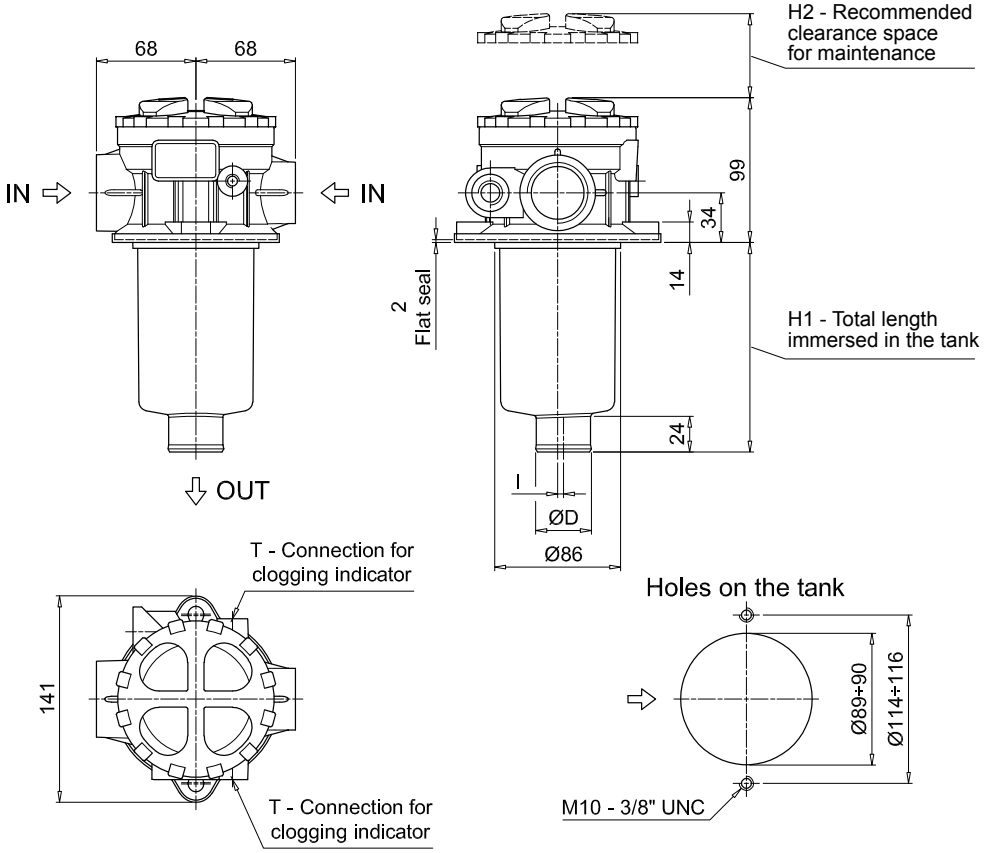
Pxx Customized

ACCESSORIES

Indicators		page
BVA	Axial pressure gauge	216
BVR	Radial pressure gauge	216
BVP	Visual pressure indicator with automatic reset	217
BVQ	Visual pressure indicator with manual reset	217
BEA	Electrical pressure indicator	215
BEM	Electrical pressure indicator	215
BLA	Electrical / visual pressure indicator	215-216

Additional features		page
TE	Extension tube	224
DFS	Diffuser with fast lock connection	225
DPT	Dipstick	225

Dimensions

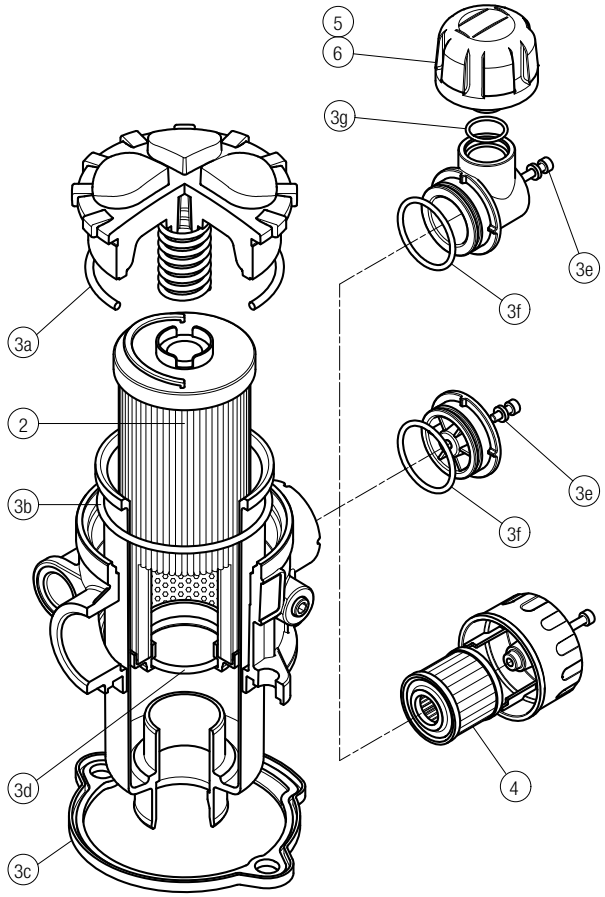


MPT120				
Filter length	**H1 [mm]**	**H2 [mm]**	**D [mm]**	**l [mm]**
1	97	120	38	4
2	147	170	38	4
3	222	250	47	-
4	324	350	47	2.5

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

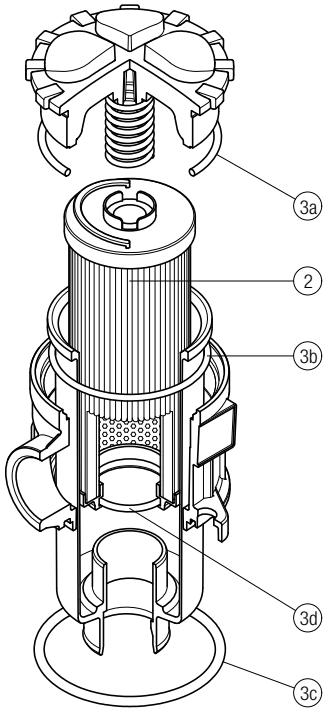
Order number for spare parts

MPT 025 - 027 - 110



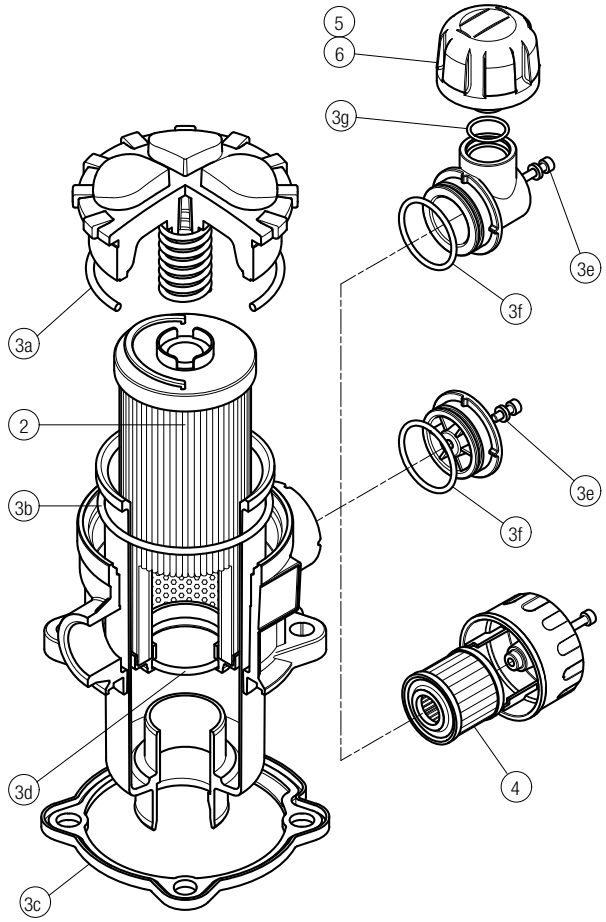
Item:	Q.ty: 1 pc. 2	Q.ty: 1 pc. 3 (3a ÷ 3g)		Q.ty: 1 pc. 4	Q.ty: 1 pc. 5	Q.ty: 1 pc. 6
Filter series	Filter element	Seal Kit code number NBR	FPM	Air breather filter element - version: C	D	P
MPT 025	See order table	02050557	02050558	10 µm A3L03	10 µm SAP50G3L03A0P01	10 µm SAP50G3L03A1P01
MPT 027		02050559	02050560	10 µm A3L03	10 µm SAP50G3L03A0P01	10 µm SAP50G3L03A1P01
MPT 110		02050561	02050562	10 µm A5L03	10 µm SAP50G3L03A0P01	10 µm SAP50G3L03A1P01

MPT 101S - 104S



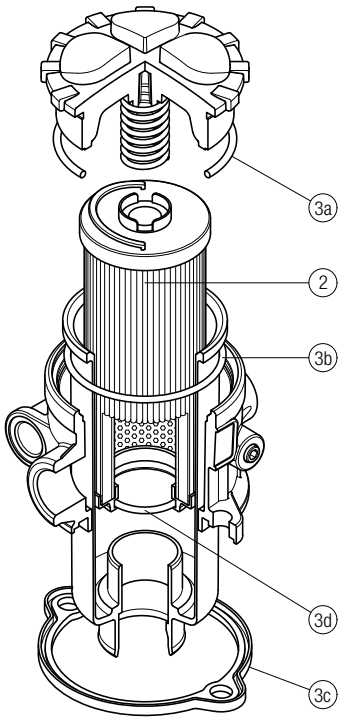
Item:	Q.ty: 1 pc. 2	Q.ty: 1 pc. 3 (3a ÷ 3d)	
Filter series	Filter element	Seal Kit code number NBR	FPM
MPT 101S-104S	See order table	02050466	02050467

MPT 114



Item:	Q.ty: 1 pc. 2	Q.ty: 1 pc. 3 (3a ÷ 3g)		Q.ty: 1 pc. 4	Q.ty: 1 pc. 5	Q.ty: 1 pc. 6
Filter series	Filter element	Seal Kit code number NBR	Seal Kit code number FPM	Air breather filter element - version: C	Air breather filter element - version: D	Air breather filter element - version: P
MPT 114	See order table	02050580	02050581	10 µm A3L03	10 µm SAP50G3L03A0P01	10 µm SAP50G3L03A1P01

MPT 120



Item:	Q.ty: 1 pc. 2	Q.ty: 1 pc. 3 (3a ÷ 3d)	
Filter series	Filter element	Seal Kit code number NBR	Seal Kit code number FPM
MPT 120	See order table	02050563	02050564