

MPT 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

MPT 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

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) $\pm 10\%$

Δp element type

- Microfibre 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

MPT filters are provided for vertical mounting



Weights [kg] and volumes [dm³]

Filter series	Weights [kg]					Volumes [dm ³]				
	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 110		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
MPT 116		1.10	1.15	1.25	1.50		0.72	0.93	1.28	1.74
MPT 120		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
MPT 025-027	1	7	10	23	28	42	59	51	54
	2	17	20	45	48	56	72	64	67
	3	21	24	50	55	59	76	74	75
MPT 110-114 116-120	1	18	20	53	56	65	153	87	96
	2	28	38	65	75	95	158	111	123
	3	48	55	125	135	169	289	224	251
	4	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.

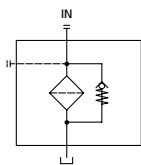
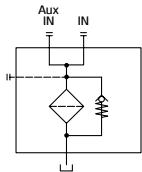
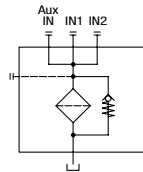
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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

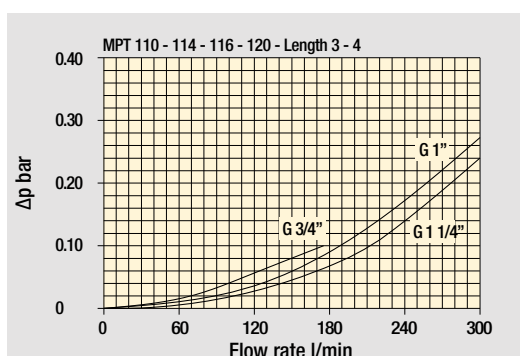
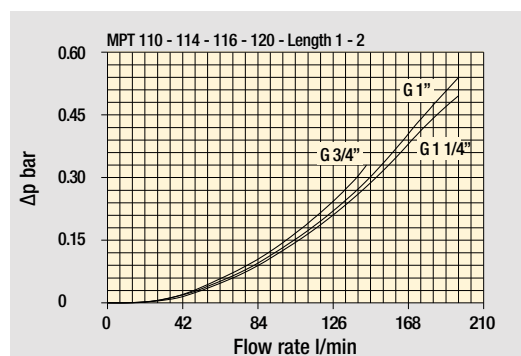
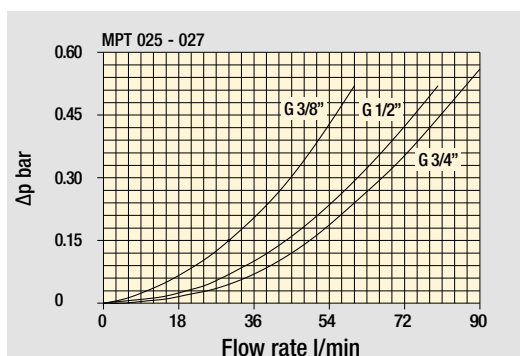
Hydraulic symbols

Filter series	Style 1 connection	Style 2 connections	Style 3 connections
MPT 025	•	-	-
MPT 027	•	-	-
MPT 110	-	•	-
MPT 114	•	-	-
MPT 116	•	-	-
MPT 120	-	-	•

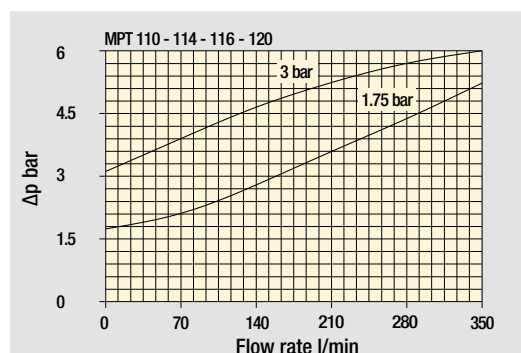
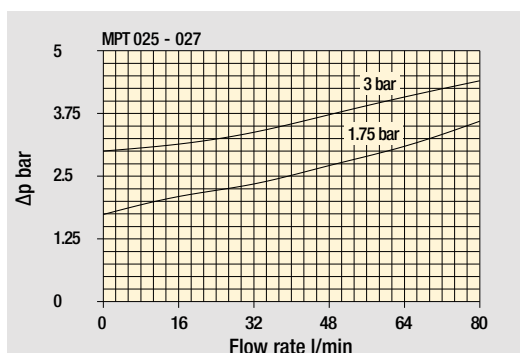




Pressure drop

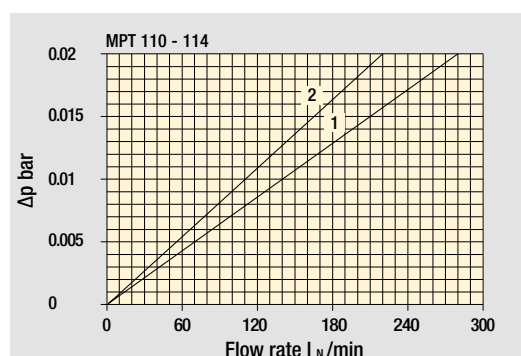
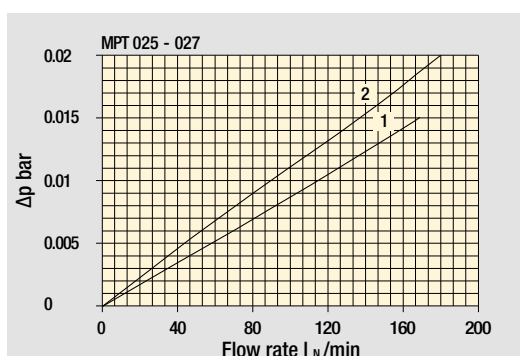
Filter housings Δp pressure drop



Bypass valve pressure drop



Air breather pressure drop



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

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

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 Option: double drain port	Double IN Port - Indicator port Option: drain port
	

MPT 120
Triple IN port
Option: double drain port



Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example 1:		MPT025	1	S	A	G3	A10	E	P01
MPT025 MPT027 Filter element with standard spigot		Configuration example 2:		MPT027	3	C	W	G6	A03	B	P01
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		• • -									
Z FPM head anodized		• • -									
Connections											
G1 G 3/8"		G6 3/4" NPT									
G2 G 1/2"		G7 SAE 6 - 9/16" - 18 UNF									
G3 G 3/4"		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		Execution							
		E 3 bar		P01 MP Filtri standard							
		B 1.75 bar		Pxx Customized							

FILTER ELEMENT

Element series and size

MF020	A10	H	B	E	P01
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Configuration example 1: MF020 1 A10 H B E P01

Configuration example 2: MF020 3 A03 N B E P01

Element length

1	2	3
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Filtration rating (filter media)

A03	M25
A06	M60
A10	M90
A16	P10
A25	P25

Element Δp

N	10 bar
H	10 bar

Filter media

Axx	Mxx	Pxx
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Seals

B	NBR
V	FPM

Bypass valve

E	3 bar
Pxx	1.75 bar

Execution

P01	MP Filtri standard
Pxx	Customized

CLOGGING INDICATORS

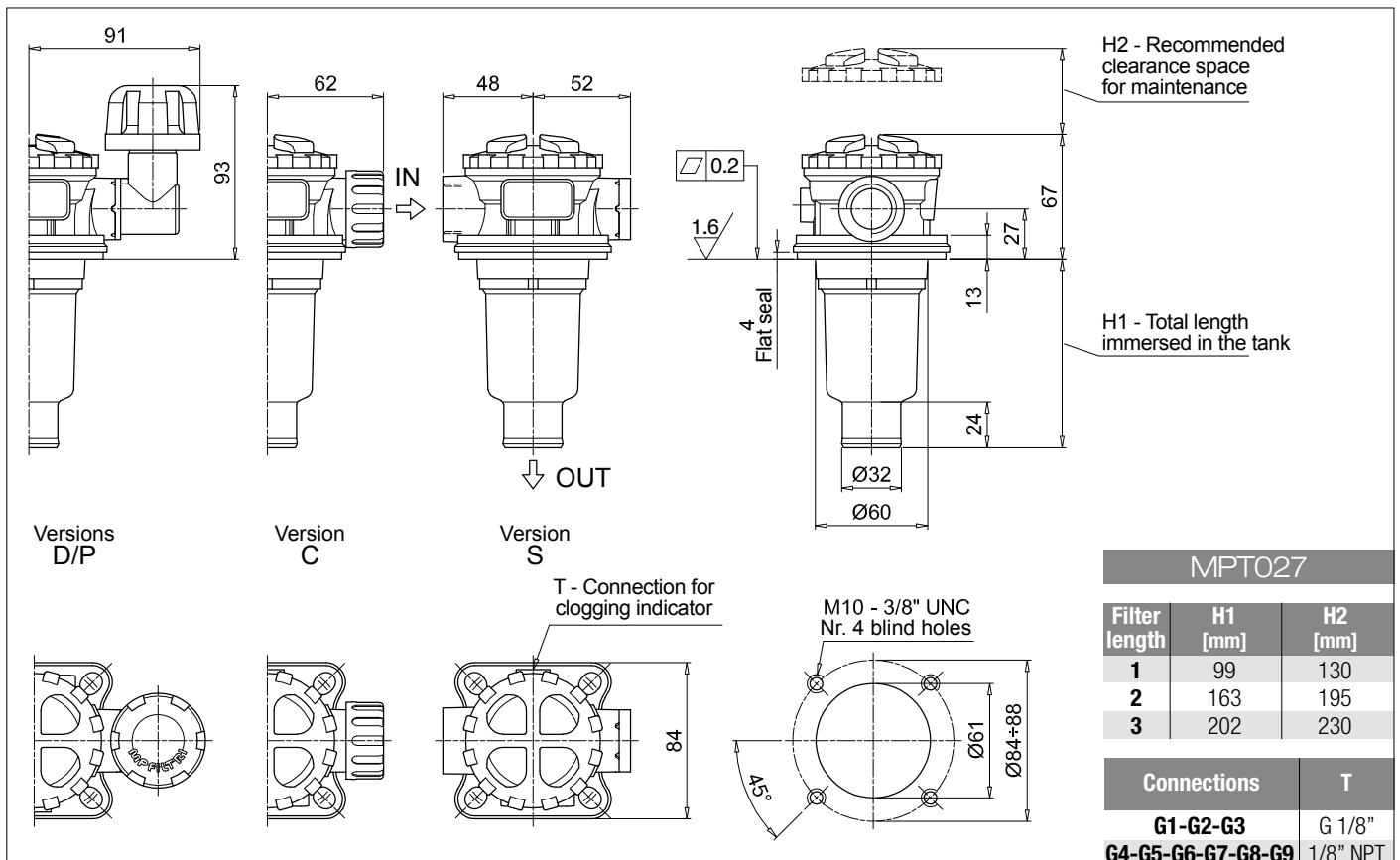
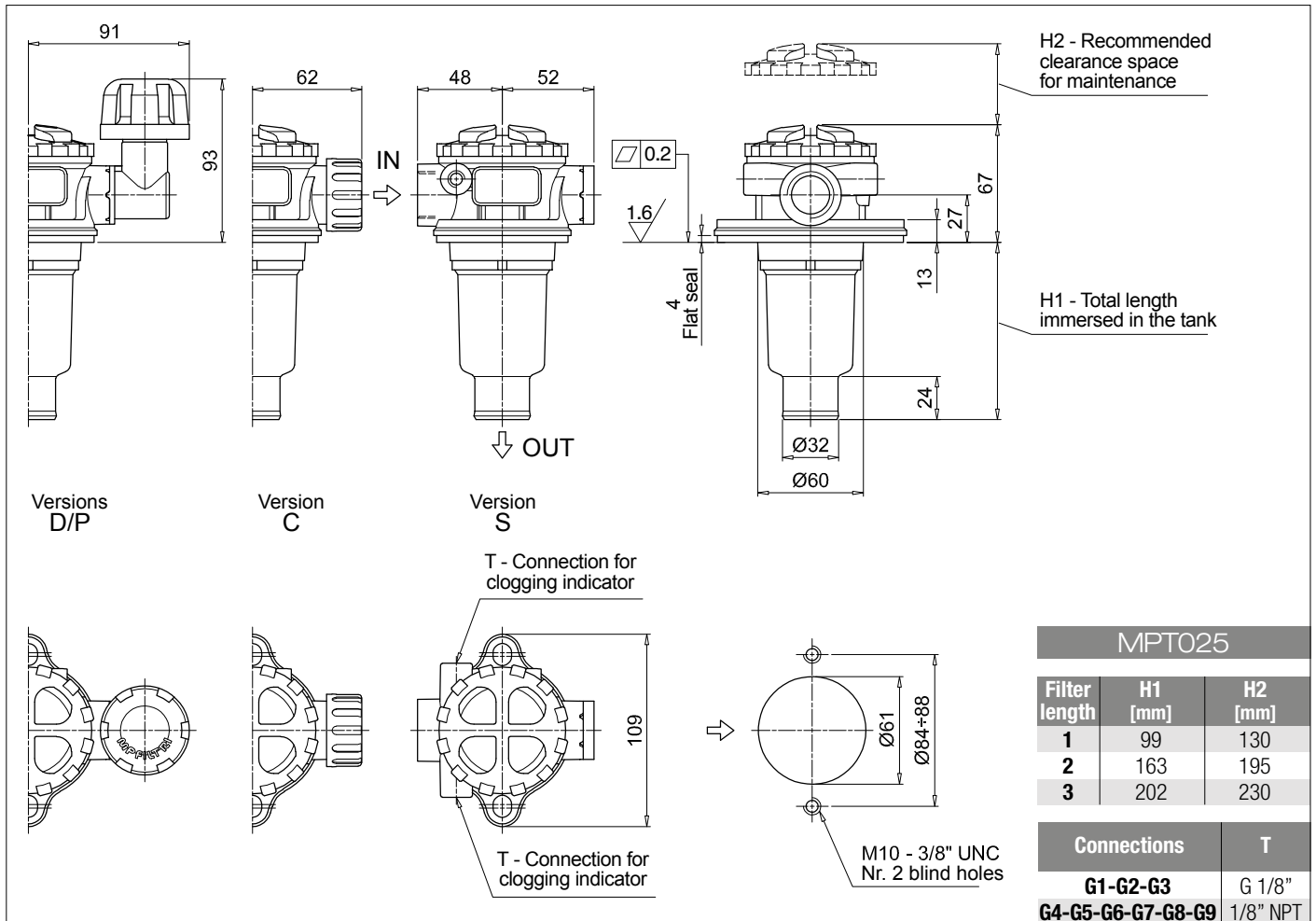
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BVA	Axial pressure gauge	BEA	Electrical pressure indicator
BVR	Radial pressure gauge	BEM	Electrical pressure indicator
BVP	Visual pressure indicator with automatic reset	BLA	Electrical / visual pressure indicator
BVQ	Visual pressure indicator with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

ADDITIONAL FEATURES

See page 268

TE	Extension tube
DPT	Dipstick



Designation & Ordering code

COMPLETE FILTER

Series and size				Configuration example 1:				MPT110	1	S	A	G1	0	A06	E	P01
MPT110 Filter element with standard spigot				Configuration example 2:				MPT110	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																
				Filtration rating												
Seals and treatments				Axx	Mxx	Pxx										
A NBR				•	•	•										
V FPM				•	•	•										
W NBR head anodized				•	•	-										
Z FPM head anodized				•	•	-										
Main Connections		Aux size 1	Aux size 2	Main Connections		Aux size 1	Aux size 2									
G1 G 3/4"		G 3/8"	G 1/2"	G6 1 1/4" NPT		3/8" NPT	1/2" NPT									
G2 G 1"				G7 SAE 12 - 1 1/16" - 12 UN		SAE 6 - 9/16" - 18 UNF	SAE 8 - 3/4" - 16 UNF									
G3 G 1 1/4"				G8 SAE 16 - 1 5/16" - 12 UN												
G4 3/4" NPT		3/8" NPT	1/2" NPT	G9 SAE 20 - 1 5/8" - 12 UN												
G5 1" NPT																
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																
A06 Inorganic microfiber 6 µm																
A10 Inorganic microfiber 10 µm																
A16 Inorganic microfiber 16 µm																
A25 Inorganic microfiber 25 µm																
M25 Wire mesh 25 µm																
M60 Wire mesh 60 µm																
M90 Wire mesh 90 µm																
P10 Resin impregnated paper 10 µm																
P25 Resin impregnated paper 25 µm																
												Bypass valve		Execution		
												E 3 bar		P01 MP Filtri standard		
												B 1.75 bar		Pxx Customized		

FILTER ELEMENT

Configuration example 1: MF100 1 A03 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
A06 Inorganic microfiber 6 µm
A10 Inorganic microfiber 10 µm
A16 Inorganic microfiber 16 µm
A25 Inorganic microfiber 25 µm
M25 Wire mesh 25 µm
M60 Wire mesh 60 µm
M90 Wire mesh 90 µm
P10 Resin impregnated paper 10 µm
P25 Resin impregnated paper 25 µm

Element Δp
N 10 bar
H 10 bar

Filter media
 Axx Mxx Pxx

Seals
B NBR
V FPM

Bypass valve
E 3 bar
- 1.75 bar

Execution
P01 MP Filtri standard
Pxx Customized

CLOGGING INDICATORS

See page 720-721

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

ADDITIONAL FEATURES

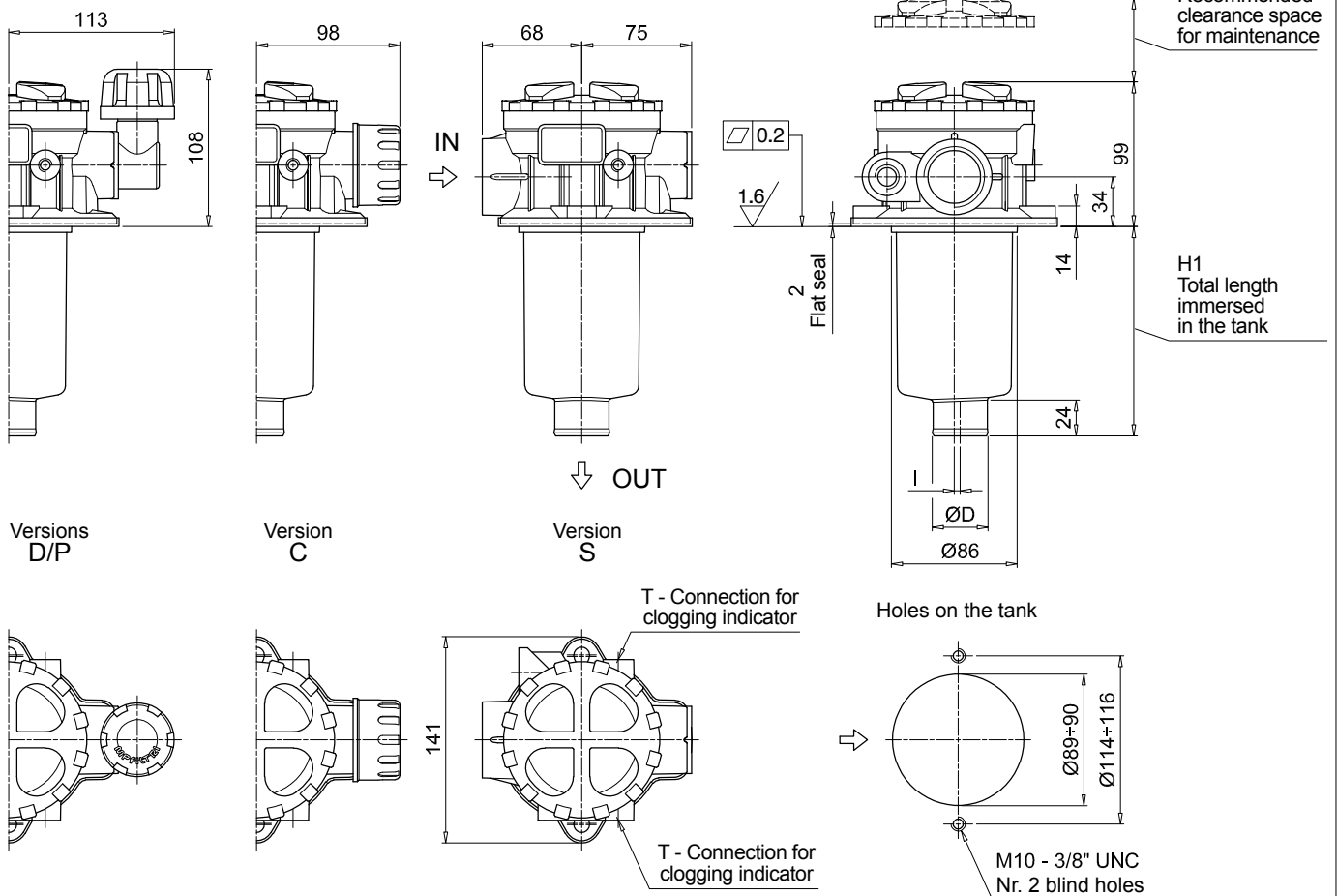
See page 268

TE	Extension tube	DPT	Dipstick
DFS	Diffuser with fast lock connection		

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	G 1/8"
G4-G5-G6-G7-G8-G9	1/8" NPT



Series and size		Configuration example 1:		MPT114	4	S	A	G3	A10	E	P01
MPT114 Filter element with standard spigot		Configuration example 2:		MPT114	3	C	W	G6	A03	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					
A NBR				•	•	•					
V FPM				•	•	•					
W NBR head anodized				•	•	-					
Z FPM head anodized				•	•	-					
Connections											
G1		G 3/4"		G6 1 1/4" NPT							
G2		G 1"		G7 SAE 12 - 1 1/16" - 12 UN							
G3		G 1 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		Execution					
				E 3 bar		P01 MP Filtri standard					
				B 1.75 bar		Pxx Customized					

Element series and size				Configuration example 2:				MF100	4	A10	H	B	E	P01
MF100 Filter element with standard spigot				Configuration example 1:				MF100	3	A03	N	B		P01
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				Seals		Bypass valve		Execution		
N	10 bar	Axx	Mxx	Pxx	B	NBR	E	3 bar	P01	MP Filtri standard				
H	10 bar	•	-	-	V	FPM	-	1.75 bar	Pxx	Customized				

See page 720-721

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

BEA	Electrical pressure indicator
BEM	Electrical pressure indicator
BLA	Electrical / visual pressure indicator

See page 268

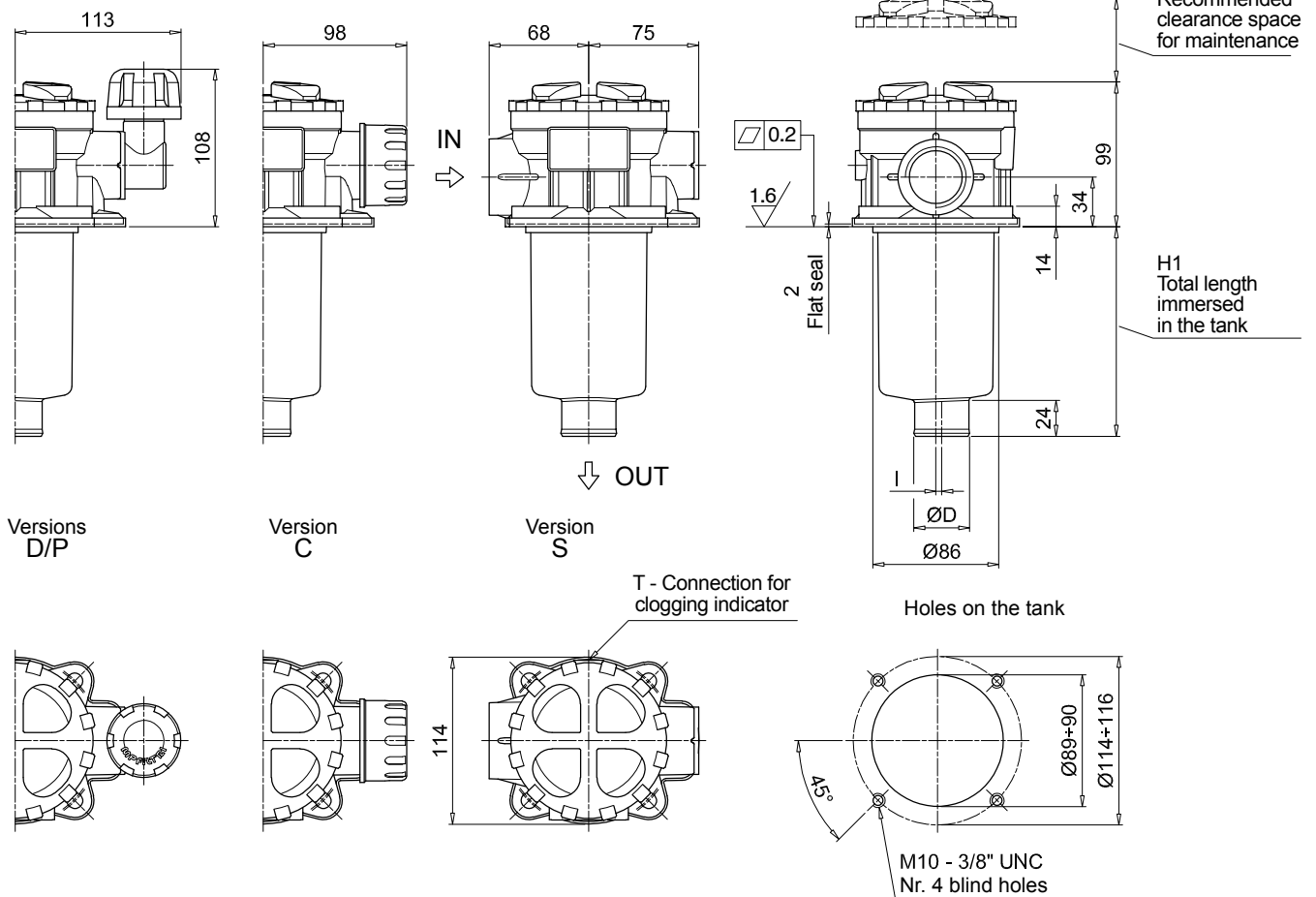
TE	Extension tube
DFS	Diffuser with fast lock connection

DPT Dipstick

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	G 1/8"
G4-G5-G6-G7-G8-G9	1/8" NPT



Series and size		Configuration example 1:		1	S	A	G1	M90	E	P01								
MPT116 Filter element with standard spigot		Configuration example 2:		MPT116	2	S	Z	G9	A03	B	P01							
Length																		
1 2 3 4																		
Air breather																		
S Without air breather																		
Seals and treatments				Filtration rating														
				Axx	Mxx	Pxx												
A NBR				•	•	•												
V FPM				•	•	•												
W NBR head anodized				•	•	-												
Z FPM head anodized				•	•	-												
Flat seal on the head on request																		
Connections																		
G1 G 3/4"				G6 1 1/4" NPT														
G2 G 1"				G7 SAE 12 - 1 1/16" - 12 UN														
G3 G 1 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		Execution										
						E 3 bar		P01 MP Filtri standard										
						B 1.75 bar		Pxx Customized										

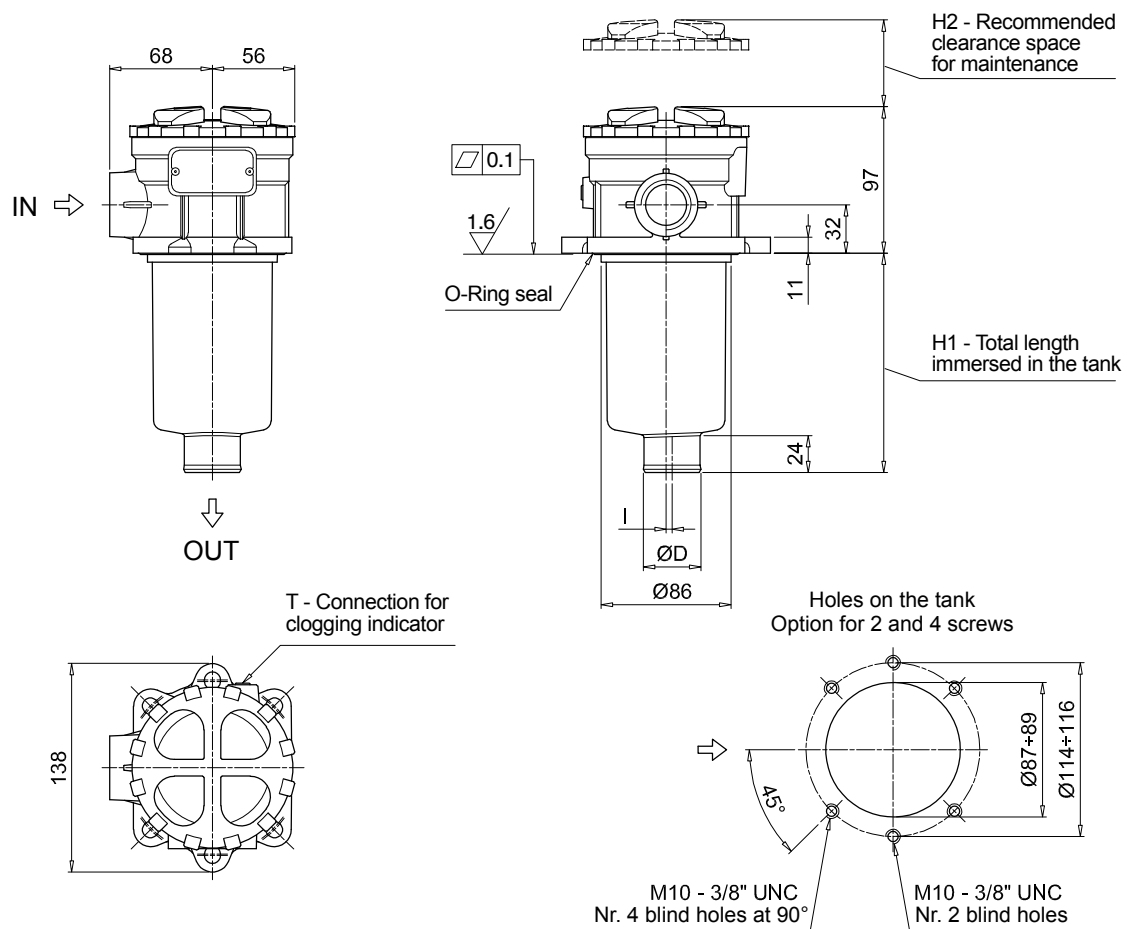
Element series and size				Configuration example 2:				MF100	2	M90	N	B	E	P01
MF100 Filter element with standard spigot				Configuration example 1:				MF100	2	A03	H	V		
Element length														
1	2	3	4											
Filtration rating (filter media)														
A03 Inorganic microfiber 3 µm				M25 Wire 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										
				Axx Mxx Pxx				Seals		Bypass valve		Execution		
N 10 bar				-				B NBR		E 3 bar		P01 MP Filtri standard		
H 10 bar				•				V FPM		- 1.75 bar		Pxx Customized		

See page 720-721

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

See page 268

TE	Extension tube	DPT	Dipstick
DFS	Diffuser with fast lock connection		



MPT116

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	G 1/8"
G4-G5-G6-G7-G8-G9	1/8" NPT

Designation & Ordering code

COMPLETE FILTER

Series and size			Configuration example 1:									
MPT120 Filter element with standard spigot			Configuration example 2:									
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	•	•	-							
Main Connections		Rear connections		Aux size 1			Aux size 2					
G1	G 3/4"		G 3/4"		G 3/8"			G 1/2"				
G2	G 1"		G 1"									
G3	G 1 1/4"		G 3/4"									
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		SAE 6 - 9/16" - 18 UNF			SAE 8 - 3/4" - 16 UNF				
G7	SAE 12 - 1 1/16" - 12 UN		SAE 12 - 1 1/16" - 12 UN									
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		Execution				
						E 3 bar		P01 MP Filtri standard				
						B 1.75 bar		Pxx Customized				

FILTER ELEMENT

Element series and size				Configuration example 1: MF100 1 A06 H B E P01									
MF100 Filter element with standard spigot				Configuration example 2: MF100 3 M25 N V P01									
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			Seals		Bypass valve		Execution				
N 10 bar		Axx	Mxx	Pxx	B NBR	E 3 bar	P01	MP Filtri standard					
H 10 bar					V FPM	- 1.75 bar	Pxx	Customized					

CLOGGING INDICATORS

See page 720-721

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

BEA	Electrical pressure indicator
BEM	Electrical pressure indicator
BLA	Electrical / visual pressure indicator

ADDITIONAL FEATURES

See page 268

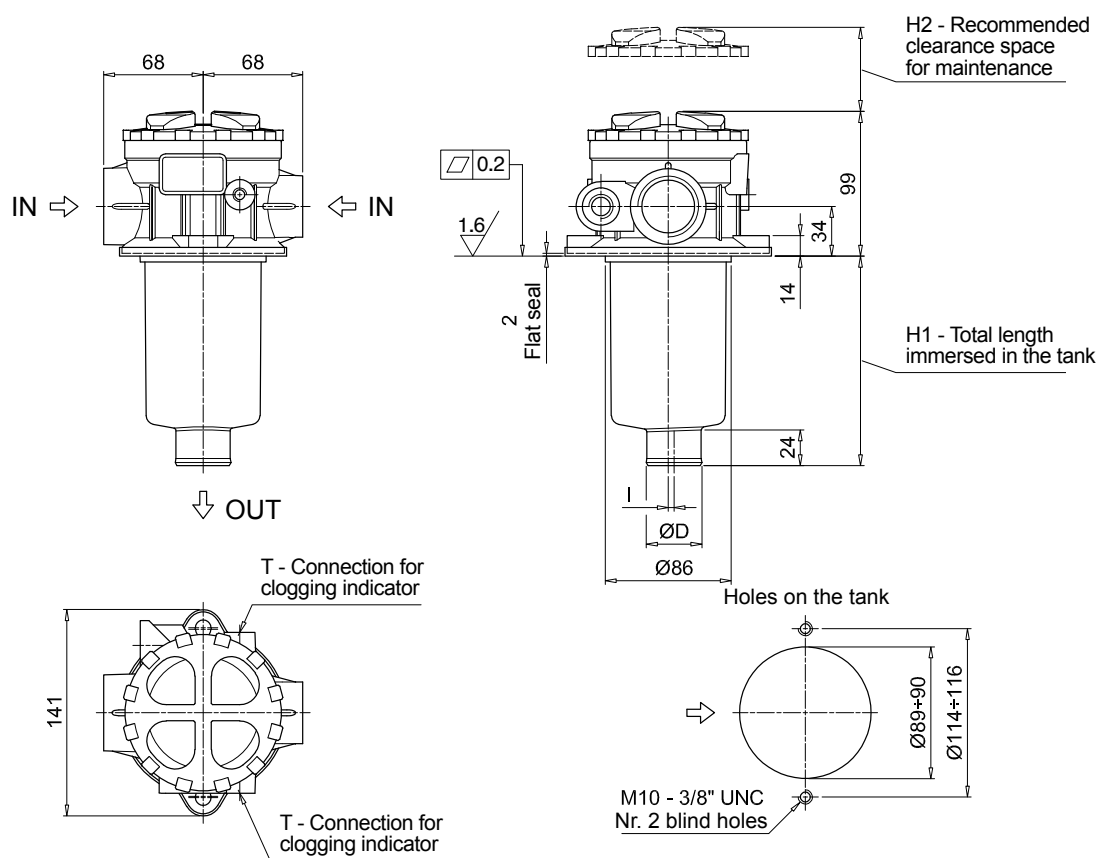
TE	Extension tube
DFS	Diffuser with fast lock connection

DPT	Dipstick
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MPT120

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

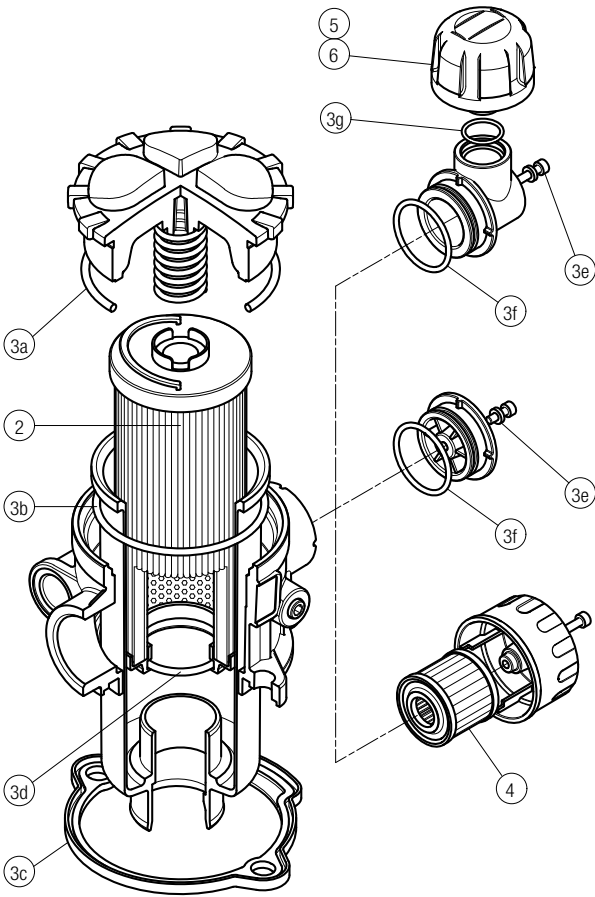
Connections	T
G1-G2-G3	G 1/8"
G4-G5-G6-G7-G8-G9	1/8" NPT



MPT SPARE PARTS

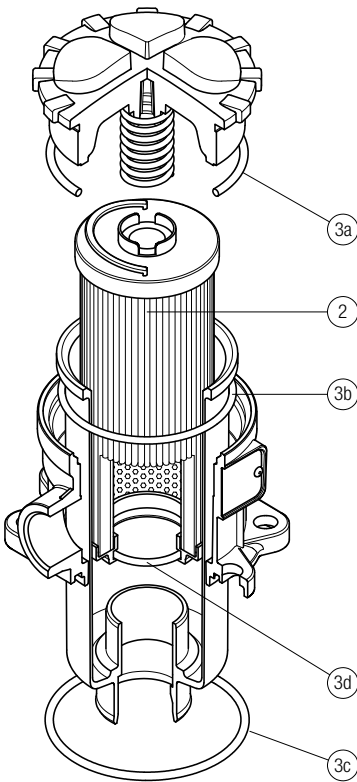
Order number for spare parts

MPT 025 - 027 - 110



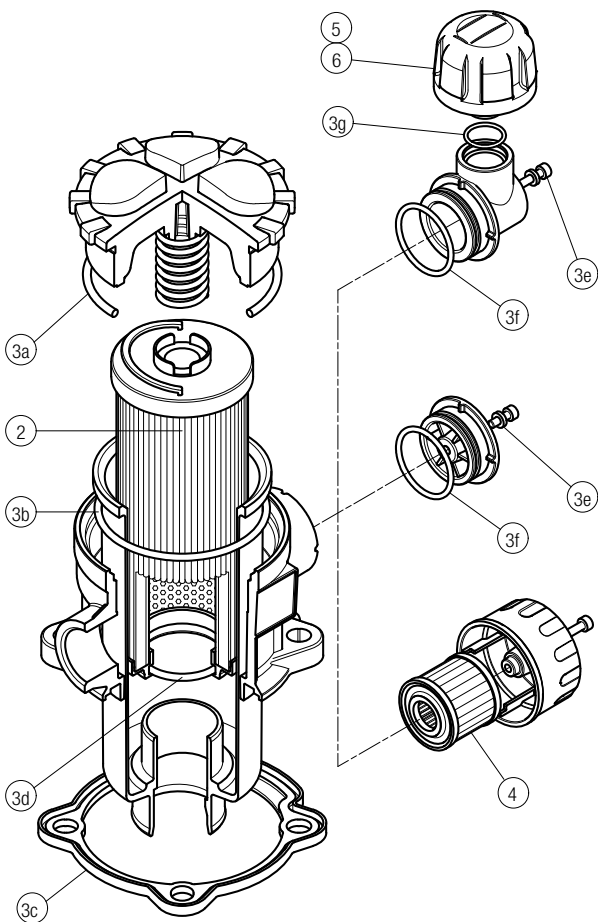
Q.ty: 1 pc.		Q.ty: 1 pc.		Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.
Item:		2		3 (3a ÷ 3g)	4	5
Filter series	Filter element	Seal Kit code number		C	D	P
		NBR	FPM			
MPT 025	See order table	02050557	02050558	10 µm A3L03	10 µm SAP50G3L03A0P01	10 µm SAP50G3L03A1P01
MPT 027		02050559	02050560	10 µm A3L03	10 µm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

MPT 116

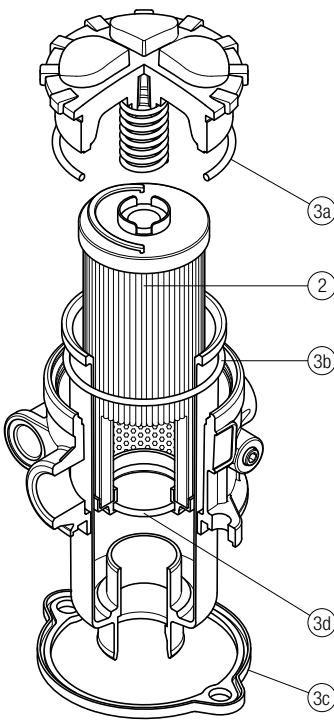


Q.ty: 1 pc.		Q.ty: 1 pc.	
Item:		3 (3a ÷ 3d)	
Filter series	Filter element	Seal Kit code number	
		NBR	FPM
MPT 116	See order table	02050466	02050467

MPT 114



MPT 120

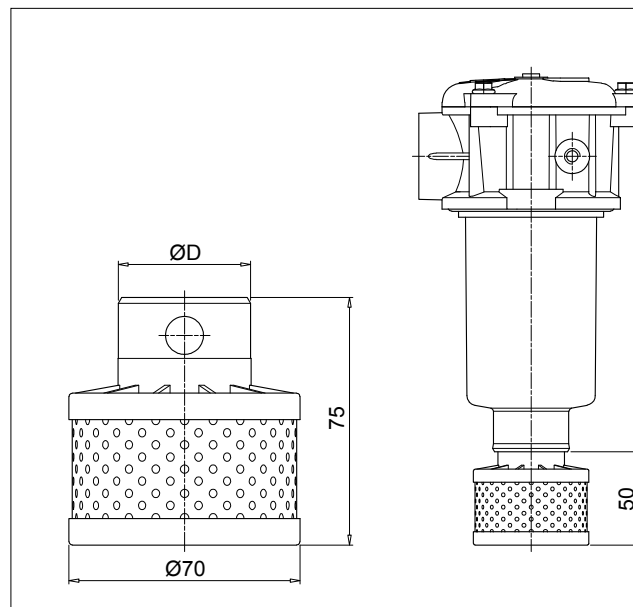


Item:		Q.ty: 1 pc.		Q.ty: 1 pc.		Q.ty: 1 pc.		Q.ty: 1 pc.	
2		3 (3a ÷ 3g)		4		5		6	
Filter series	Filter element	Seal Kit code number		Air breather filter element - version:					
		NBR	FPM	C		D		P	
MPT 114	See order table	02050580	02050581	10 µm A5L03	10 µm SAP50G3L03A0P01			10 µm SAP50G3L03A1P01	

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

Accessories

DIFFUSER WITH FAST LOCK CONNECTION

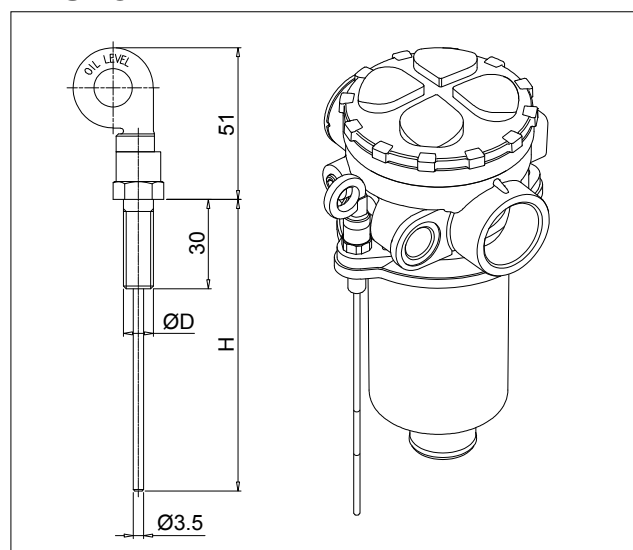


Configuration example: **DFS** **32** **A** **075**

Series	Size	Ø D [mm]	Version	Length
DFS	32	32	A Standard	075 Standard
	40	40		

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



Materials

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

Technical data

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

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

Series	Length	H [mm]
DPT	15	134
	20	184
	25	234
	30	284
	35	334

Seals

A	NBR
V	FPM

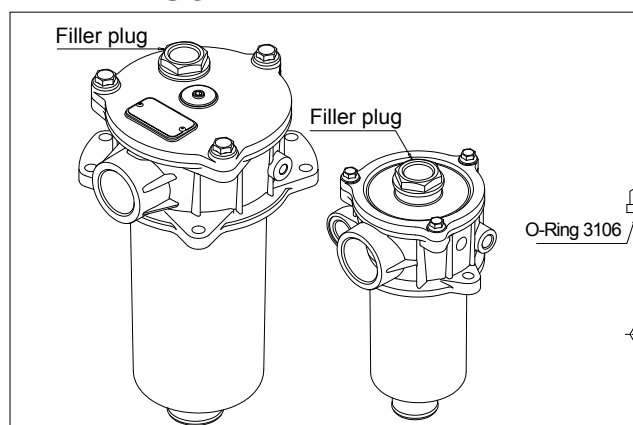
Fastening

M8	Fastening with screws Ø D = M8
M10	Fastening with screws Ø D = M10

Execution

P01	MP Filtri standard
Pxx	Customized

FILLER PLUG



Materials

- Body: Polyamide
- Seal: NBR

Technical data

Tightening torque: 15 N·m

O-Ring 3106

M30x1.5

A/F 34

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

TE

Size Ø D [mm]

25 25

32 32

40 40

51 51

62 62

Material

A Polyamide

Length	H [mm]	25-32-40	51-62
200	200	•	•
250	250	•	-
300	300	•	•
350	350	•	-
400	400	•	•
450	450	•	-
500	500	•	•
600	600	-	•

COMPATIBILITY TABLE																	
Filter series	Filter size			Filter length	TE25	TE32	TE40	TE51	TE62	Tube length							
										200	250	300	350	400	450	500	600
										H1 [mm]							
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	191	192	194	2	-	-	-	•	-	620	-	720	-	820	-	920	1020
				1	-	-	-	•	-	352	-	452	-	552	-	652	752
				2	-	-	-	-	•	411	-	511	-	611	-	711	811
				3	-	-	-	-	•	459	-	559	-	659	-	759	859
750				1	-	-	-	-	•	597	-	697	-	797	-	897	997
MPT	025	027		1	•	-	-	-	-	278	328	378	428	478	528	578	-
				2	-	-	-	-	-	342	392	442	492	542	592	642	-
				3	-	-	-	-	-	380	430	480	530	580	630	680	-
MPT	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

Configuration example:

MPF191

2

A

F1

A10

H

B

S60

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

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

Designation & Ordering code

BAROMETRIC (PRESSURE) INDICATORS

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

DIFFERENTIAL PRESSURE INDICATORS

Series
DE Electrical differential pressure indicator
DL Electrical/Visual differential pressure indicator
DT Electrical differential pressure indicator
DV Visual differential pressure indicator

Configuration example 1:	DE	M	20	H	F	50	P01
Configuration example 2:	DE	U	50	V	A	50	P01
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
A Standard type	•	•	•
M With wired electrical connection	•	-	-
U Standard type 210 bar, UL certified	•	-	-
E For high power supply	-	•	-
S Compact version	•	-	-

DV
A With automatic reset
M With manual reset
S With automatic reset

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

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

Thermostat	DEA	DEM	DEU	DES	DLA	DLE	DT
A Without thermostat	•	•	•	•	•	•	-
F With thermostat	-	•	-	-	-	•	•

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

Option
P01 MP Filtri standard
Pxx Customized

Certifications	DEU	OTHERS
Without	-	•
UL UL certification	•	-

PLUGS

Series
T2 Plug
T4 Plug

Seals	T2	T4
A NBR	-	•
H HNBR	•	-
V FPM	•	-

Configuration example	T2	H
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