

MPF series

Maximum working pressure up to 800 kPa (8 bar) - Flow rate up to 900 l/min



Description

Return filter

Maximum working pressure up to 800 kPa (8 bar)
Flow rate up to 900 l/min

MPF is a range of return filters 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 2" and flanged connections up to 2", for a maximum flow rate of 750 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 4 fixing holes for installation, to suit a variety of reservoir surfaces
- O-ring or Flat Seal to suit a variety of reservoir surfaces
- 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)
- Filler plug, to fill cleaned fluid into the tank without an additional connection
- Visual, electrical and electronic clogging indicators

Common applications:

- Light industrial equipment
- Mobile application

Technical data

Filter housing materials

- Head: Aluminium
- Cover
 - Nylon: MPF 020-030-100-104-110
 - Aluminium: MPF 181-182-184-191-192-194-400-410-450-451-750
- Bowl: Nylon

Bypass valve

- Opening pressure 175 kPa (1.75 bar) ±10%
- Opening pressure 300 kPa (3 bar) ±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

MPF filters are provided for vertical mounting



Weights [kg] and volumes [dm³]

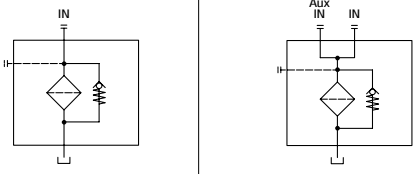
Filter series	Weights [kg]					Volumes [dm³]				
	Length	1	2	3	4	Length	1	2	3	4
MPF 020		0.30	-	-	-		0.26	-	-	-
MPF 030		0.40	-	-	-		0.29	-	-	-
MPF 100		0.61	0.64	0.67	0.74		0.64	0.85	1.20	1.65
MPF 104		0.82	0.96	1.02	1.25		0.64	0.85	1.20	1.65
MPF 110		0.64	0.68	0.71	0.78		-	-	-	-
MPF 181		2.20	3.00	-	-		2.50	4.00	-	-
MPF 182		2.30	3.10	-	-		2.50	4.00	-	-
MPF 184		2.55	3.45	-	-		2.65	4.45	-	-
MPF 191		-	3.00	-	-		-	4.25	-	-
MPF 192		-	3.10	-	-		-	4.25	-	-
MPF 194		-	3.45	-	-		-	4.45	-	-
MPF 400		3.35	3.65	3.90	-		3.70	4.60	5.40	-
MPF 410		3.55	3.85	4.10	-		3.70	4.60	5.40	-
MPF 450-451		3.95	4.25	4.50	-		3.70	4.60	5.40	-
MPF 750		6.30	-	-	-		8.45	-	-	-

Filter series	Length	Filter element design - H series					Filter element design - N series		
		A03	A06	A10	A16	A25	M25 M60 M90	P10	P25
MPF 020	1	7	10	23	28	42	59	51	54
MPF 030	1	7	10	24	29	47	84	60	66
MPF 100-104-110	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
MPF 181-182-184	1	127	148	235	243	278	441	285	299
	2	231	262	358	382	388	472	404	412
MPF 191-192-194	2	261	305	489	528	546	696	583	598
MPF 400	1	150	171	294	304	350	585	370	390
	2	237	252	454	462	589	868	619	645
	3	248	288	553	609	621	885	680	703
MPF 410	1	146	167	277	285	325	512	341	357
	2	226	239	396	402	485	644	503	519
	3	236	269	462	497	505	653	539	553
MPF 450-451	1	150	171	294	304	350	585	370	390
	2	237	252	454	462	589	868	619	645
	3	248	288	553	609	621	885	680	703
MPF 750	1	392	465	623	700	769	929	804	819

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.

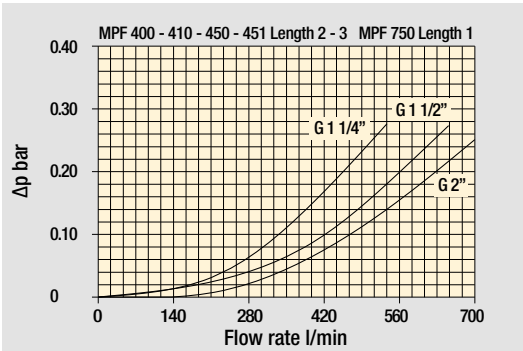
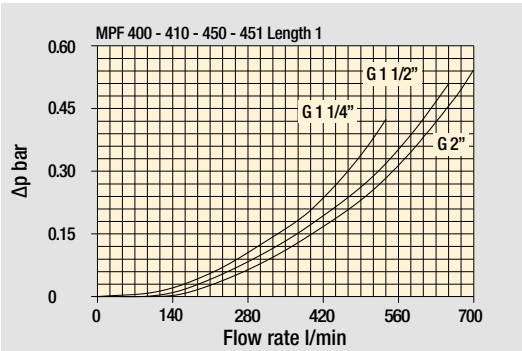
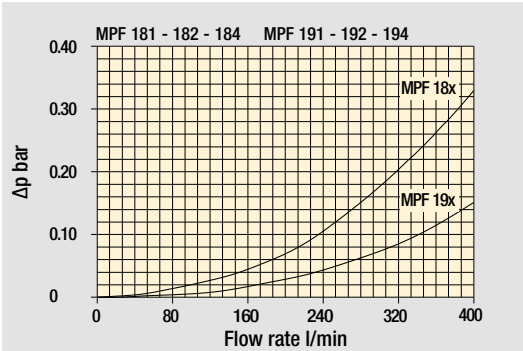
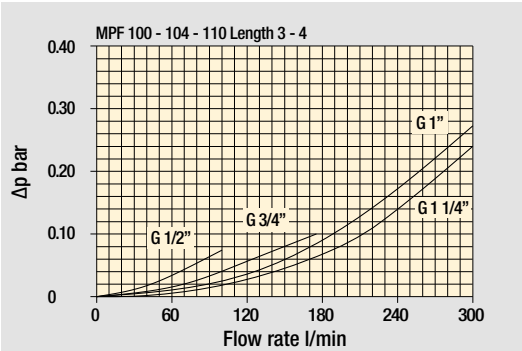
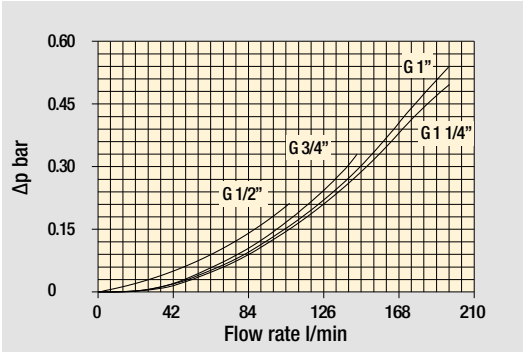
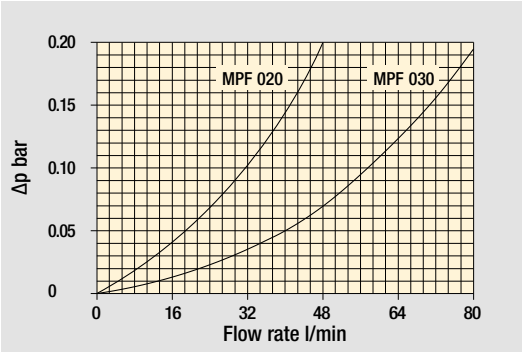
Hydraulic symbols

Filter series	Style 1 connection	Style 2 connections
MPF 020	•	
MPF 030	•	
MPF 100	•	
MPF 104	•	
MPF 110		•
MPF 181	•	
MPF 182		•
MPF 184	•	•
MPF 191	•	
MPF 192	•	
MPF 194	•	•
MPF 400	•	
MPF 410		•
MPF 450	•	
MPF 451		•
MPF 750	•	

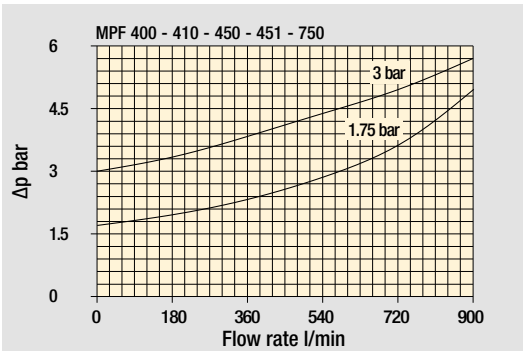
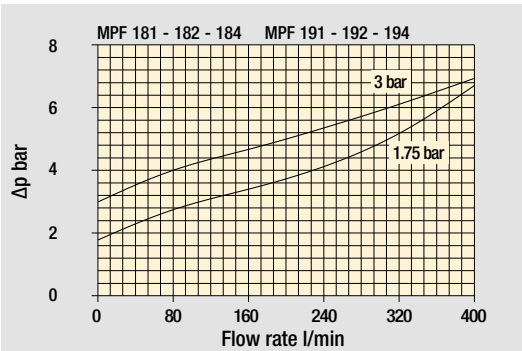
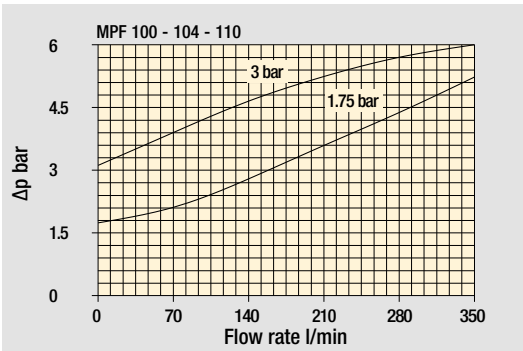
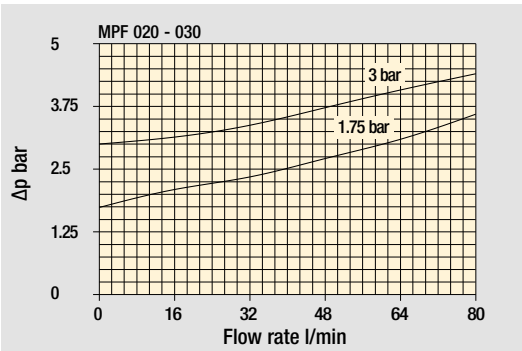


Pressure drop

Filter housings Δp pressure drop



Bypass valve pressure drop

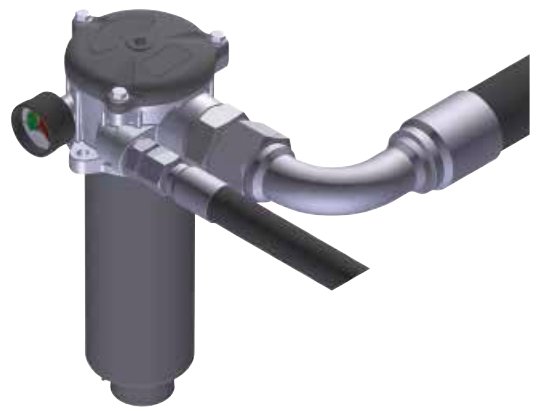


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.

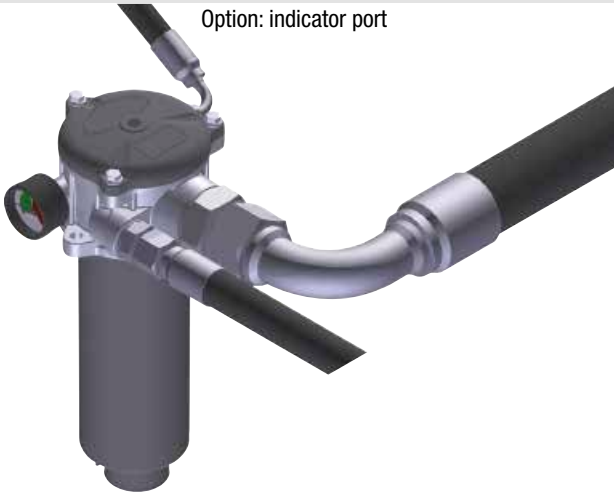
Standard - Single IN port



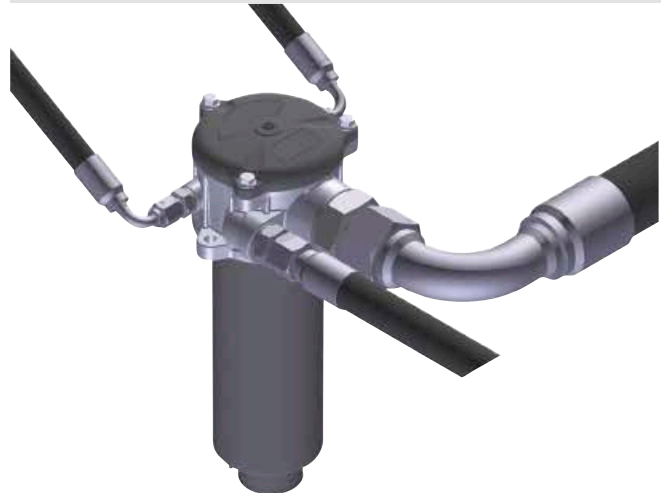
Double IN port
Option: double indicator port



Double IN port - Drain port
Option: indicator port



Double IN port - Double drain port



MPF MPF020 - MPF030

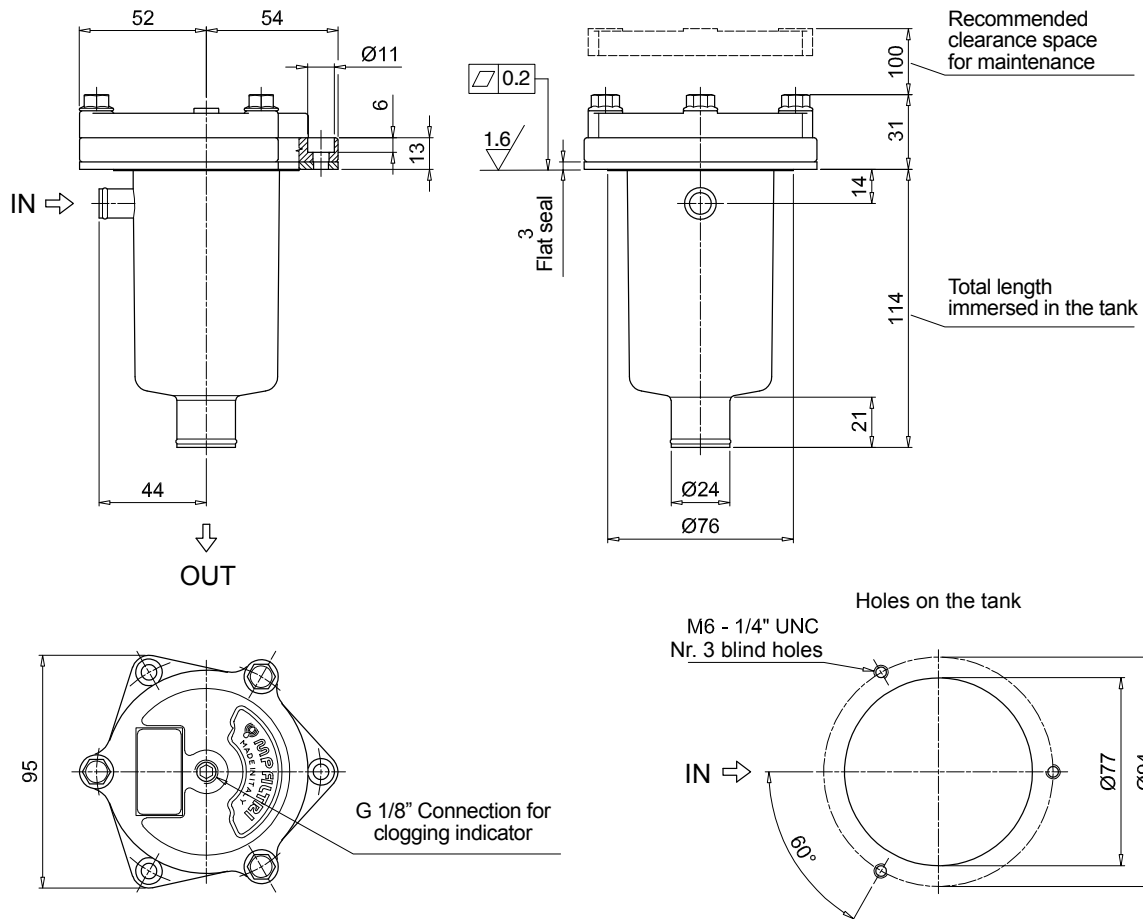
Designation & Ordering code

COMPLETE FILTER									
Series and size		Configuration example 1: MPF020 1 A P1 A10 H E P01							
MPF020 MPF030 Filter element with standard spigot		Configuration example 2: MPF030 1 V G1 M25 N B P01							
Length									
1									
Seals and treatments									
A NBR									
V FPM									
W NBR head anodized									
Z FPM head anodized									
Connections		Size 20		Size 30					
P1 Hose barb ø12		•							
G1 G 1/2"				•					
G4 1/2" NPT				•					
G7 SAE 8 - 3/4" - 16 UNF				•					
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							
N 10 bar		Axx Mxx Pxx		• •					
H 10 bar				•					
W 10 bar, compatible with fluids HFA, HFB and HFC				• •					
						Bypass valve		Execution	
						E 3 bar		P01 MP Filtri standard	
						B 1.75 bar		Pxx Customized	

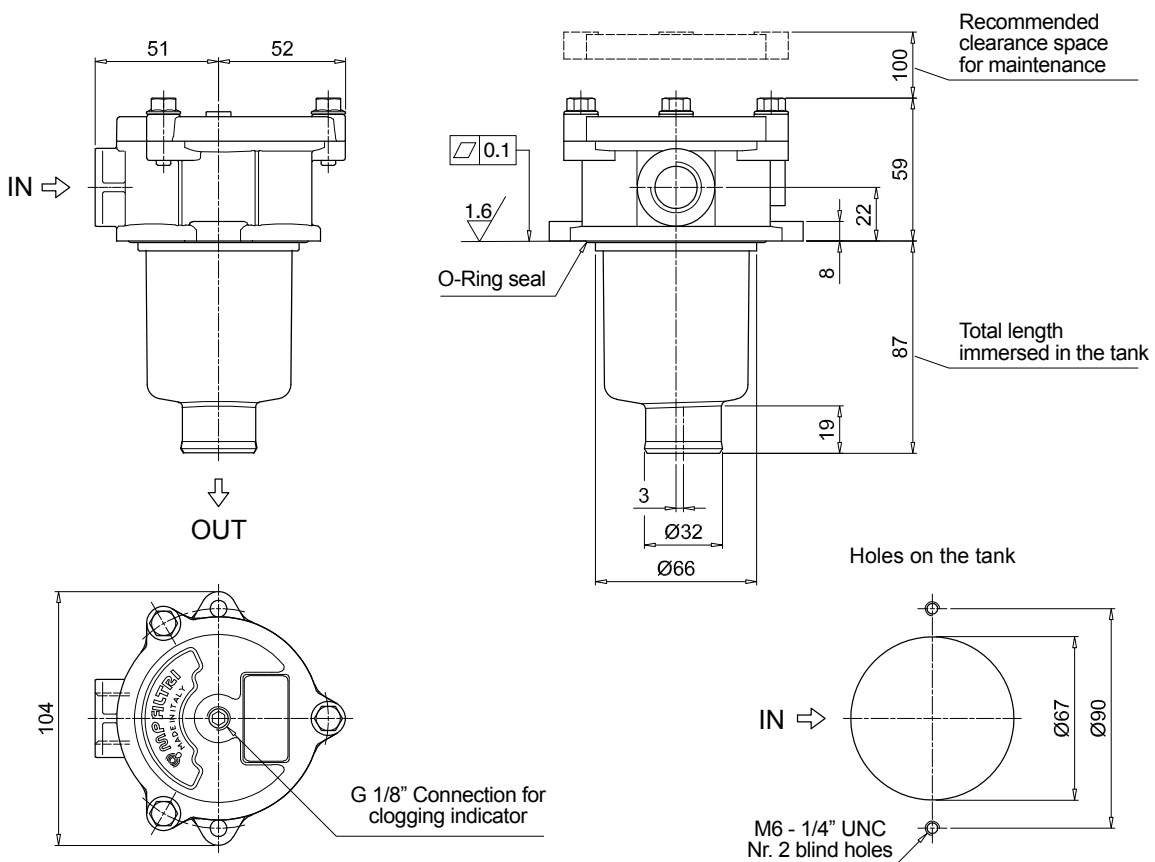
FILTER ELEMENT									
Element series and size		Configuration example 1: MF030 1 A10 H B E P01							
MF030 Filter element with standard spigot		Configuration example 2: MF030 1 M25 N V P01							
Element length									
1									
Filtration rating (filter media)									
A03 Inorganic microfiber 3 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							
N 10 bar		Axx Mxx Pxx		• •					
H 10 bar				•					
W 10 bar, compatible with fluids HFA, HFB and HFC				• •					
						Seals		Bypass valve	
						B NBR		E 3 bar	
						V FPM		1.75 bar	
								Execution	
								P01 MP Filtri standard	
								Pxx Customized	

ACCESSORIES			
Indicators		page	page
BVA	Axial pressure gauge	240	BEA Electrical pressure indicator 239
BVR	Radial pressure gauge	240	BEM Electrical pressure indicator 239
BVP	Visual pressure indicator with automatic reset	241	BLA Electrical / visual pressure indicator 239-240
BVQ	Visual pressure indicator with manual reset	241	
Additional features		page	
TE	Extension tube	248	
T5	Filler plug M30x1.5	249	

MPF020



MPF030



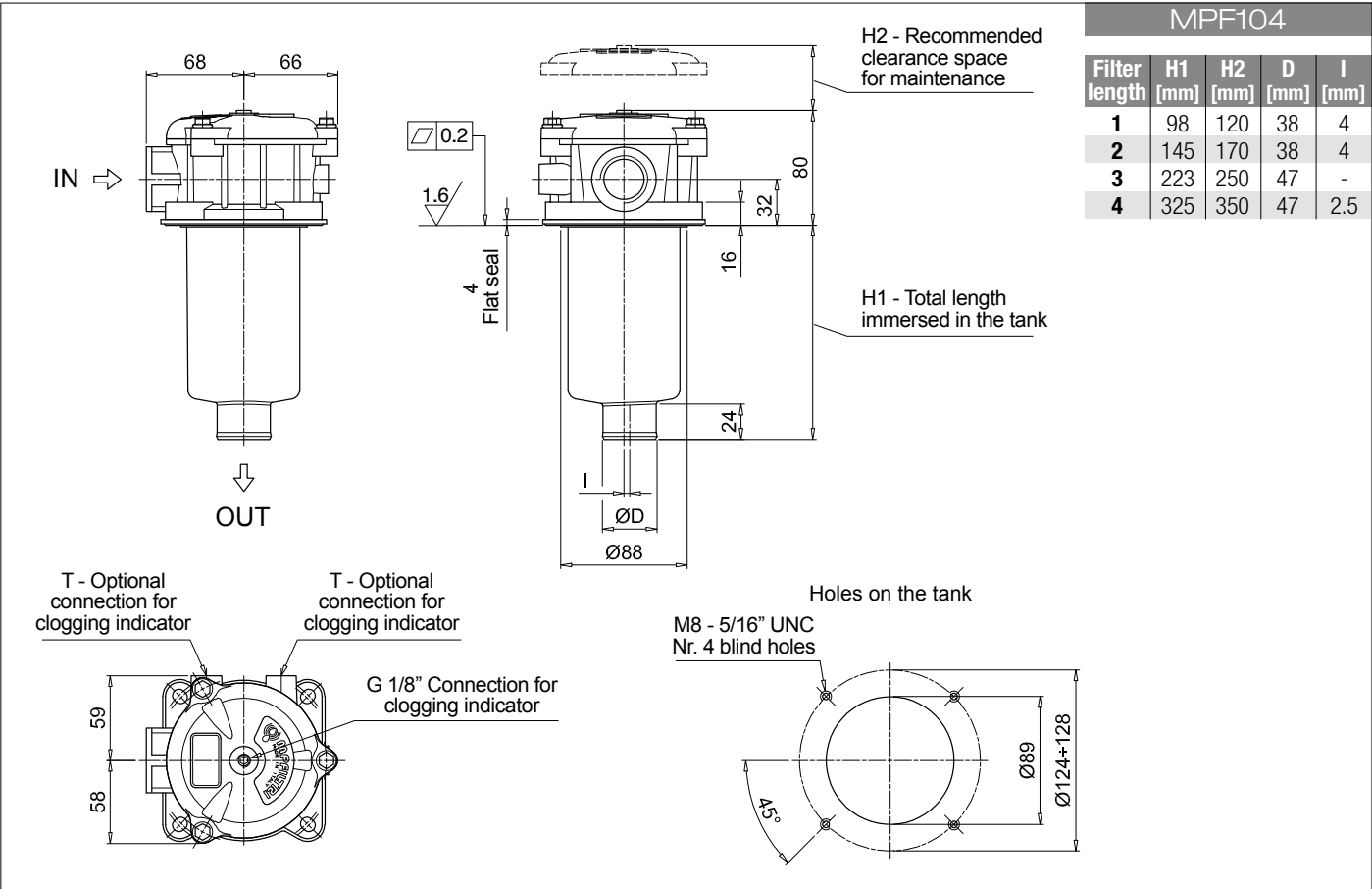
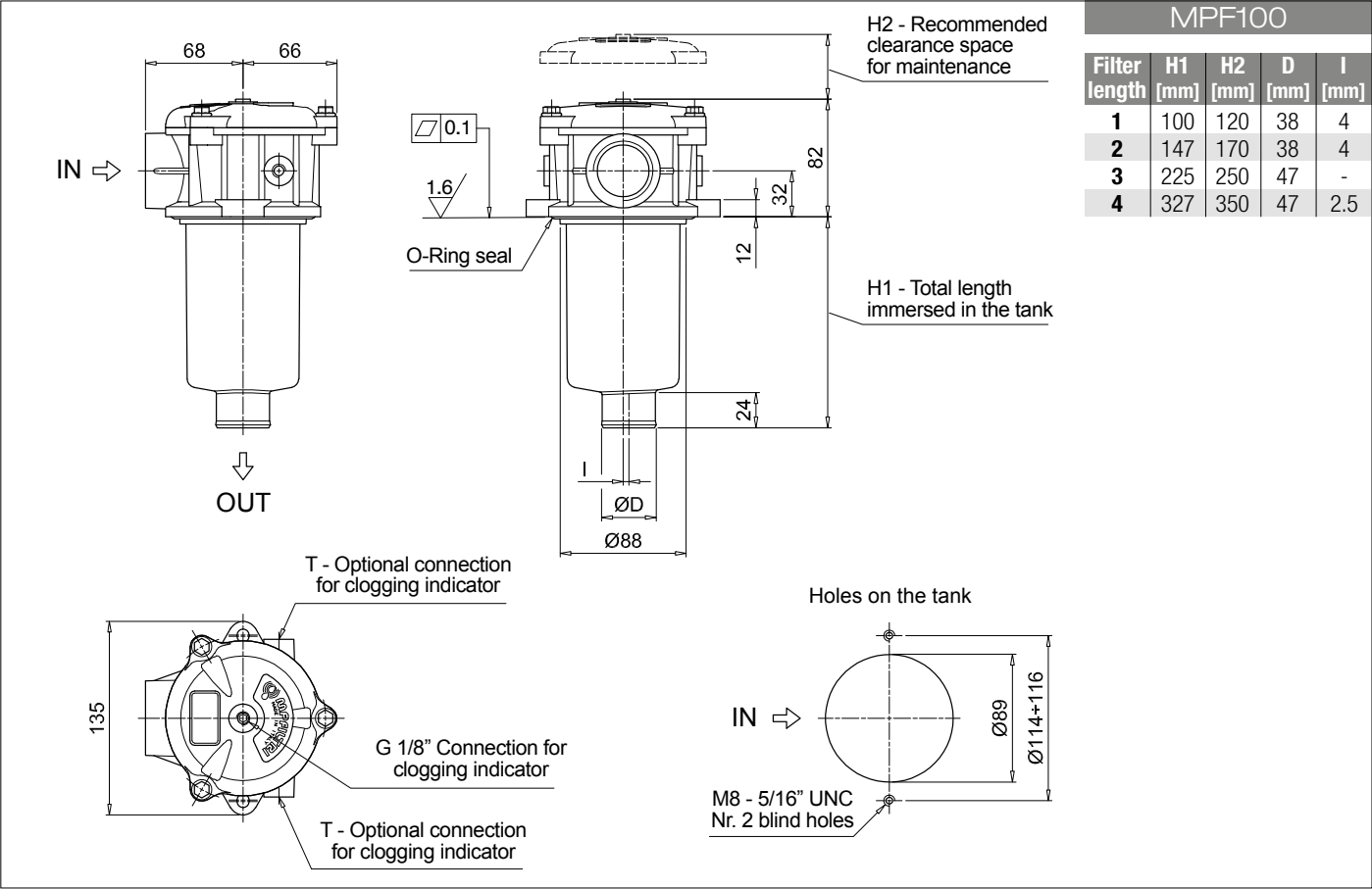
MPF MPF100 - MPF104

Designation & Ordering code

COMPLETE FILTER										
Series and size			Configuration example 1:							
MPF100	MPF104	Filter element with standard spigot	Configuration example 2:							
Length										
1	2	3	4							
Seals and treatments										
A	NBR									
V	FPM									
W	NBR head anodized									
Z	FPM head anodized									
Connections			Size 100	Size 104	Connections					
G1	G 1/2"		•	•	G7	SAE 8 - 3/4" - 16 UNF		•	•	
G2	G 3/4"		•	•	G8	SAE 12 - 1 1/16" - 12 UN		•	•	
G3	G 1"		•	•	G9	SAE 16 - 1 5/16" - 12 UN		•	•	
G4	1/2" NPT		•	•						
G5	3/4" NPT		•	•						
G6	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							
Element Δp			Filter media							
N	10 bar		Axx	Mxx	Pxx					
H	10 bar			•	•					
W	10 bar, compatible with fluids HFA, HFB and HFC		•	•						
						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 Filter element with standard spigot			Configuration example 2:						
Element length			MF100	2	A06	W	B		P01
1 2 3 4			MF100	4	P10	N	B	E	P01
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						
N 10 bar			Axx	Mxx	Pxx				
H 10 bar				•	•				
W 10 bar, compatible with fluids HFA, HFB and HFC			•	•					
						Seals		Bypass valve	
						B NBR		E 3 bar	
						V FPM		1.75 bar	
								Execution	
								P01 MP Filtri standard	
								Pxx Customized	

ACCESSORIES			
Indicators		page	page
BVA	Axial pressure gauge	240	239
BVR	Radial pressure gauge	240	239
BVP	Visual pressure indicator with automatic reset	241	239-240
BVQ	Visual pressure indicator with manual reset	241	
Additional features		page	page
TE	Extension tube	248	249
DFS	Diffuser with fast lock connection	249	249
BEA	Electrical pressure indicator		239
BEM	Electrical pressure indicator		239
BLA	Electrical / visual pressure indicator		239-240
T5	Filler plug M30x1.5		249
DPT	Dipstick		249

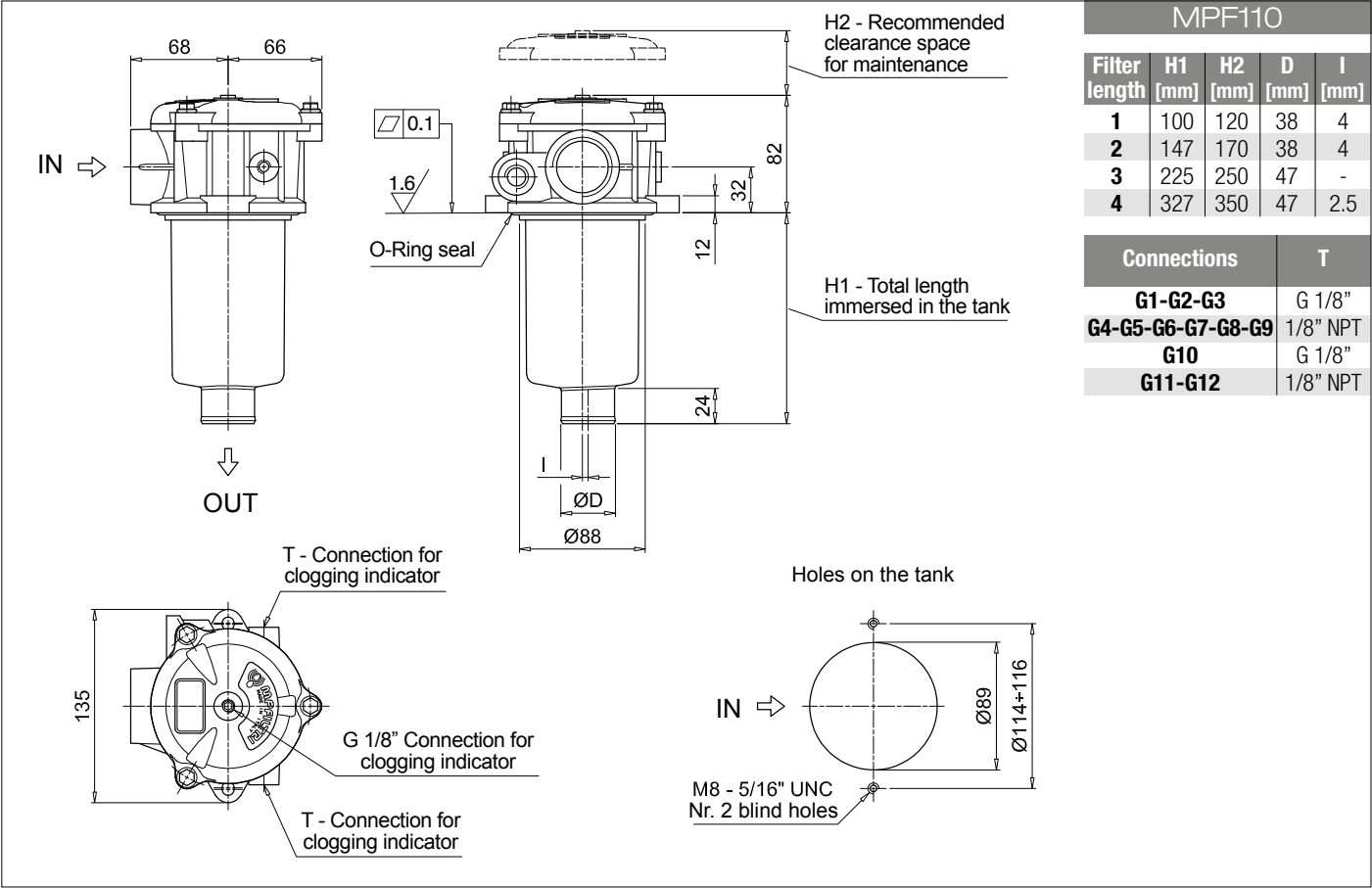


Designation & Ordering code

COMPLETE FILTER													
Series and size			Configuration example 1:										
MPF110 Filter element with standard spigot			Configuration example 2:										
Length													
1 2 3 4													
Seals and treatments													
A NBR			W NBR head anodized										
V FPM			Z FPM head anodized										
Main Connections			Aux size 1		Aux size 2								
G1 G 1/2"			G 3/8"		G 1/2"		G7 SAE 8 - 3/4" - 16 UNF			SAE 6 - 9/16" - 18 UNF		SAE 8 - 3/4" - 16 UNF	
G2 G 3/4"													
G3 G 1"													
G4 1/2" NPT			3/8" NPT		1/2" NPT		G10 G 1 1/4"			G 3/8"		G 1/2"	
G5 3/4" NPT													
G6 1" NPT													
G11 1 1/4" NPT			3/8" NPT		1/2" NPT		G12 SAE 20 - 1 5/8" - 12 UN			SAE 6 - 9/16" - 18 UNF		SAE 8 - 3/4" - 16 UNF	
G12 SAE 20 - 1 5/8" - 12 UN													
Aux connection - see previous table													
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										
Element Δp			Filter media										
N 10 bar			Axx Mxx Pxx										
H 10 bar			• • •										
W 10 bar, compatible with fluids HFA, HFB and HFC			• • •										
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 Filter element with standard spigot			MF100	2	A16	H	B	E	P01		
			Configuration example 2:								
			MF100	4	M60	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								
			Filter media								
Element Δp			Axx	Mxx	Pxx						
N	10 bar			•	•						
H	10 bar		•								
W	10 bar, compatible with fluids HFA, HFB and HFC		•	•							
						Seals		Bypass valve		Execution	
						B NBR		E 3 bar		P01 MP Filtri standard	
						V FPM		1.75 bar		Pxx Customized	

ACCESSORIES			
Indicators		page	page
BVA	Axial pressure gauge	240	239
BVR	Radial pressure gauge	240	239
BVP	Visual pressure indicator with automatic reset	241	239-240
BVQ	Visual pressure indicator with manual reset	241	
Additional features		page	page
TE	Extension tube	248	249
DFS	Diffuser with fast lock connection	249	249
BEA	Electrical pressure indicator		239
BEM	Electrical pressure indicator		239
BLA	Electrical / visual pressure indicator		239-240
T5	Filler plug M30x1.5		249
DPT	Dipstick		249

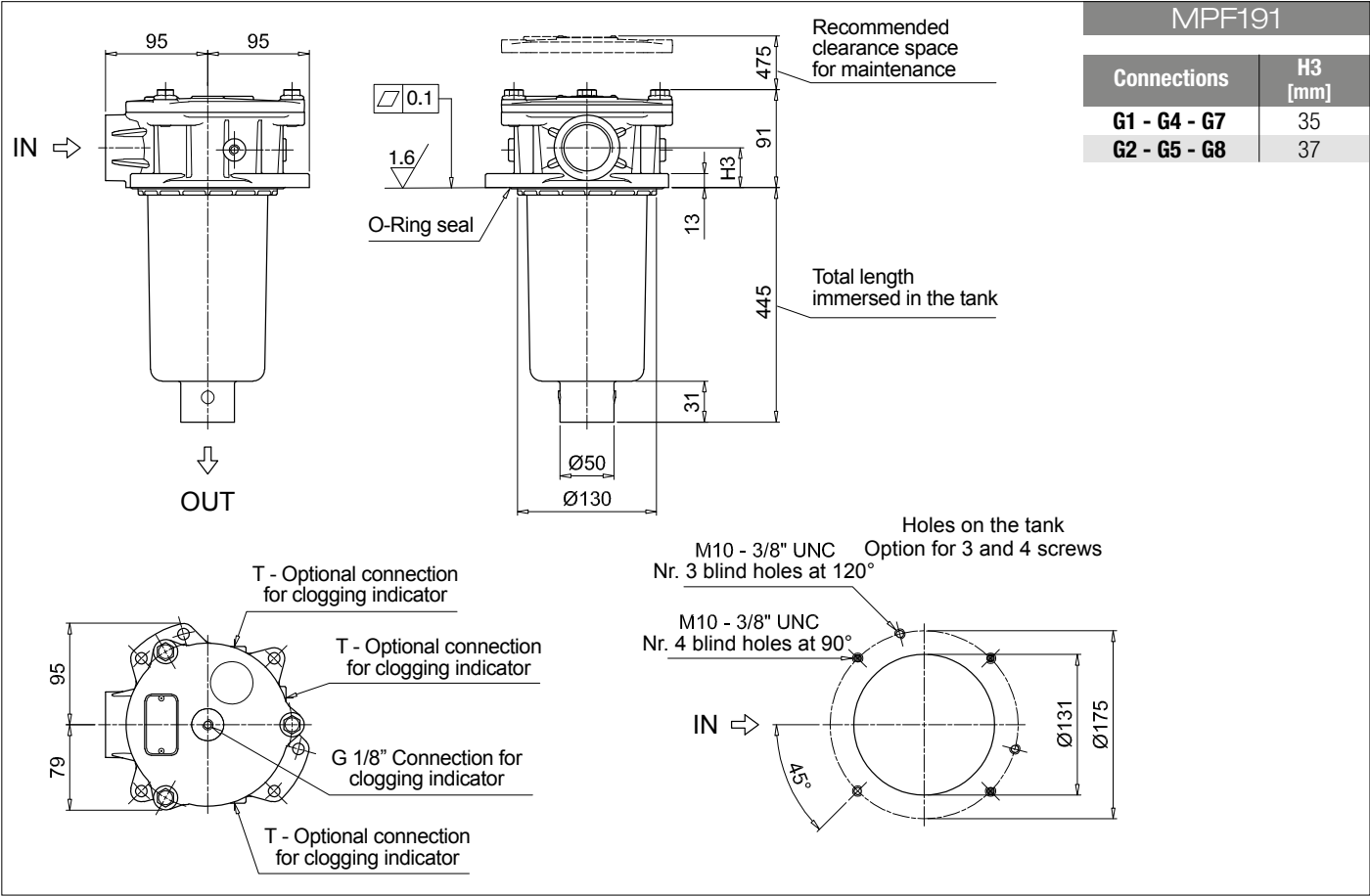
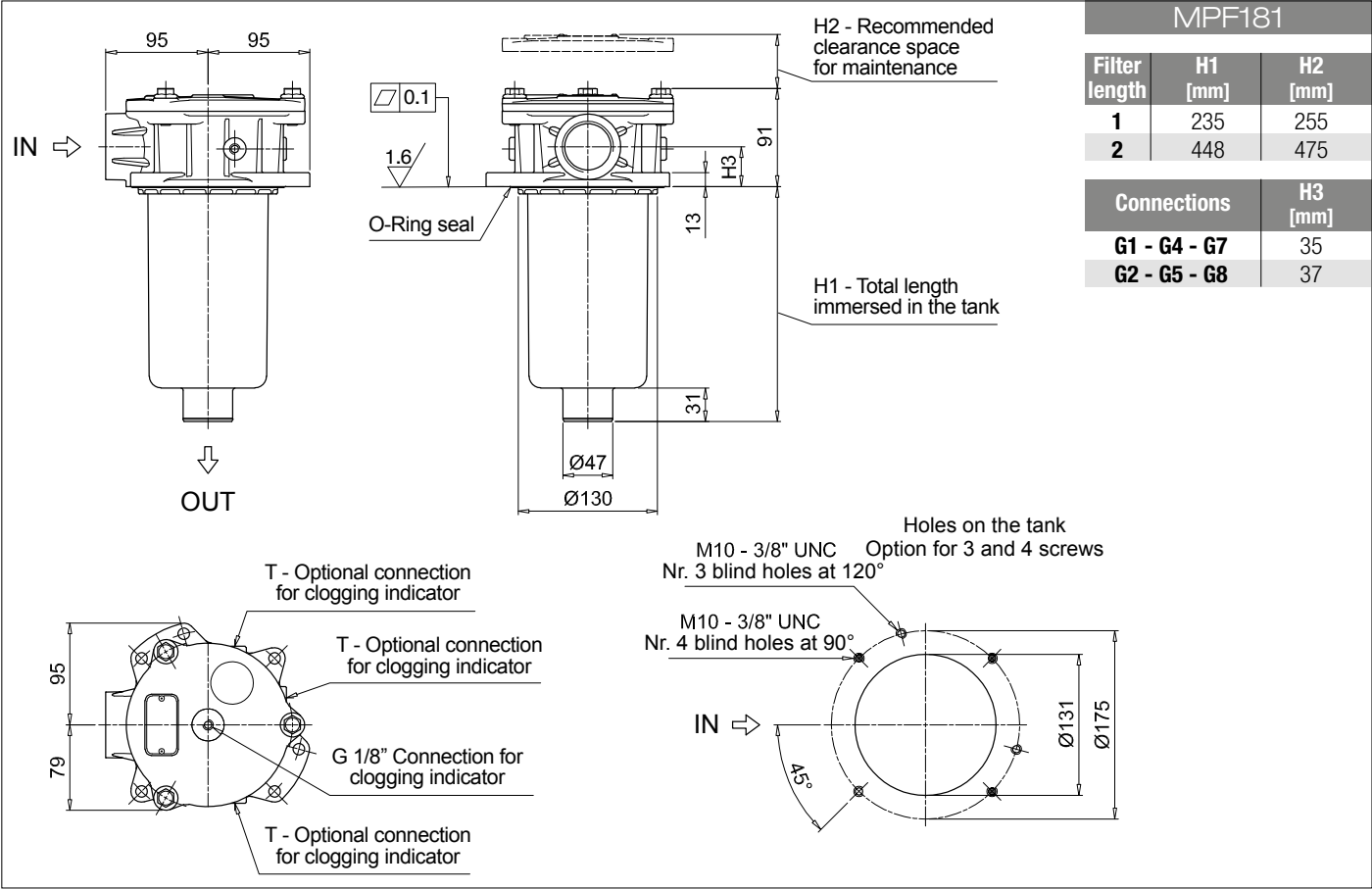


Designation & Ordering code

COMPLETE FILTER										
Series and size			Configuration example 1:							
MPF181	MPF191	Filter element with standard spigot	Configuration example 2:							
			MPF181	1	A	G1	A25	H	E	P01
			MPF191	2	V	G2	P10	N	B	P01
Length			Size 181	Size 191						
1			•							
2			•	•						
Seals and treatments										
A	NBR		B	NBR	flat seal on head					
V	FPM		D	FPM	flat seal on head					
W	NBR	head anodized	L	NBR	head anodized, flat seal on head					
Z	FPM	head anodized	M	FPM	head anodized, flat seal on head					
Connections										
G1	G 1 1/4"		G5	1 1/2" NPT						
G2	G 1 1/2"		G7	SAE 20 - 1 5/8" - 12 UN						
G4	1 1/4" NPT		G8	SAE 24 - 1 7/8" - 12 UN						
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							
N	10 bar		Axx	Mxx	Pxx					
H	10 bar			•	•					
W	10 bar, compatible with fluids HFA, HFB and HFC		•	•						
						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:						
MF180	MF190	Filter element with standard spigot	MF180	1	A25	H	B	E	P01
			Configuration example 2:						
			MF190	2	P10	N	V		P01
Element length		Size 180	Size 190						
1		•							
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					
Element Δp			Filter media						
			Axx	Mxx	Pxx				
N 10 bar				•	•				
H 10 bar				•					
W 10 bar, compatible with fluids HFA, HFB and HFC				•	•				
				Seals		Bypass valve		Execution	
				B NBR		E 3 bar		P01 MP Filtri standard	
				V FPM		1.75 bar		Pxx Customized	

ACCESSORIES				
Indicators		page		page
BVA	Axial pressure gauge	240	BEA	Electrical pressure indicator 239
BVR	Radial pressure gauge	240	BEM	Electrical pressure indicator 239
BVP	Visual pressure indicator with automatic reset	241	BLA	Electrical / visual pressure indicator 239-240
BVQ	Visual pressure indicator with manual reset	241		
Additional features		page		
TE	Extension tube	248		
Sxx	Extension tube	248		
T5	Filler plug M30x1.5	249		



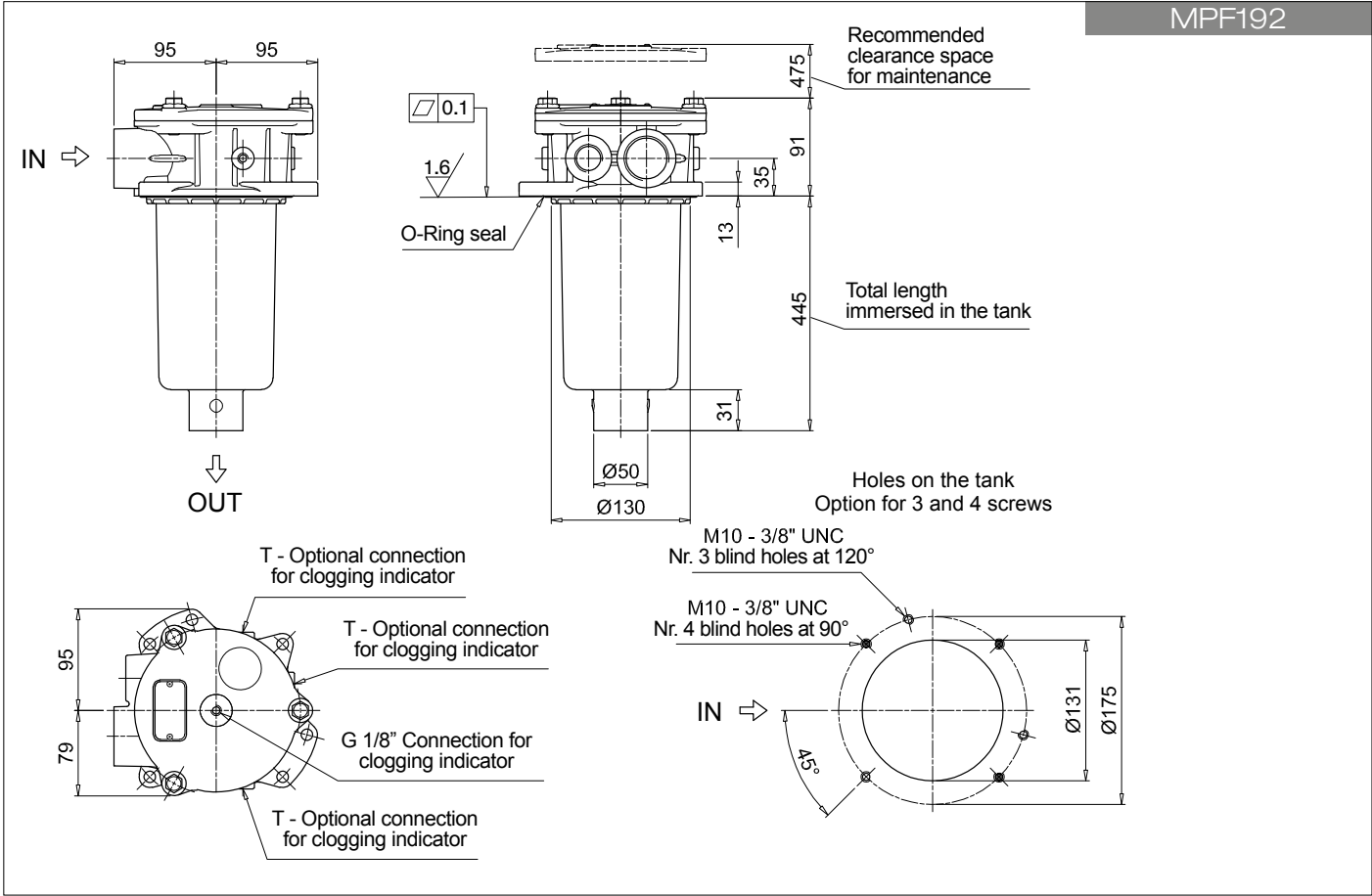
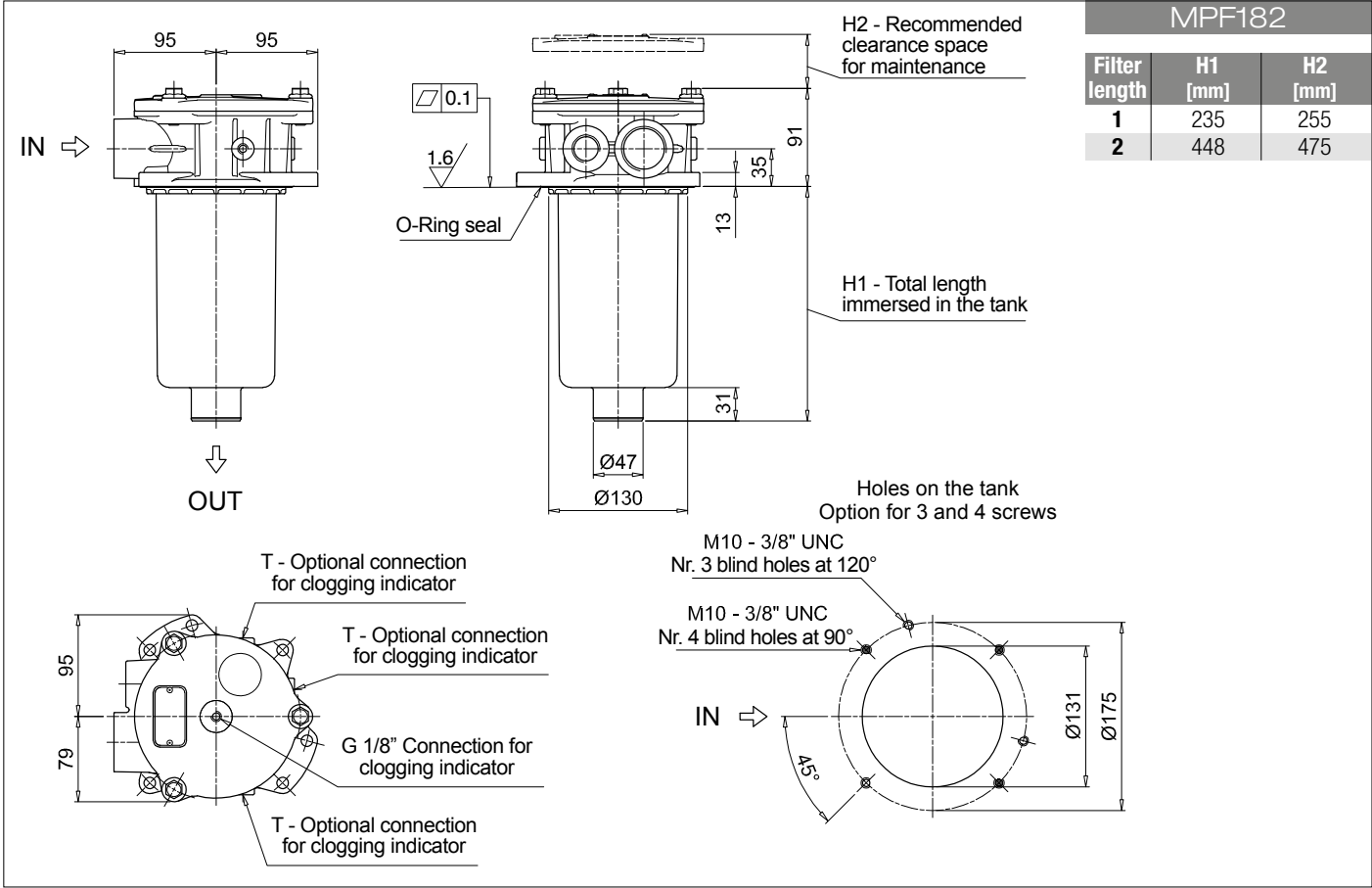
MPF MPF182 - MPF192

Designation & Ordering code

COMPLETE FILTER											
Series and size			Configuration example 1:								
MPF182	MPF192	Filter element with standard spigot	MPF182	1	A	G1	1	A25	H	E	P01
			Configuration example 2:								
			MPF192	2	V	G4	2	P10	N	B	P01
Length		Size 182	Size 192								
1		•									
2		•	•								
Seals and treatments											
A	NBR		B	NBR	flat seal on head						
V	FPM		D	FPM	flat seal on head						
W	NBR	head anodized	L	NBR	head anodized, flat seal on head						
Z	FPM	head anodized	M	FPM	head anodized, flat seal on head						
Main Connections		Aux size 1		Aux size 2							
G1	G 1 1/4"	G 1/2"		G 3/4"							
G4	1 1/4" NPT	1/2" NPT		3/4" NPT							
G7	SAE 20 - 1 5/8" - 12 UN	SAE 8 - 3/16" - 16 UNF		SAE 12 - 1 1/16" - 12 UN							
Aux connection - see previous table											
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						
Element Δp		Filter media									
N	10 bar	Axx	Mxx	Pxx							
H	10 bar		•	•							
W	10 bar, compatible with fluids HFA, HFB and HFC	•	•								
						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:							
MF180	MF190	Filter element with standard spigot	MF180	1	A25	H	B	E	P01	
			Configuration example 2:							
			MF190	2	P10	N	V		P01	
Element length			Size 180	Size 190						
1			•							
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							
Element Δp			Filter media							
			Axx	Mxx	Pxx					
N 10 bar				•	•					
H 10 bar				•						
W 10 bar, compatible with fluids HFA, HFB and HFC			•	•						
			Seals		Bypass valve		Execution			
			B NBR		E 3 bar		P01 MP Filtri standard			
			V FPM		1.75 bar		Pxx Customized			

ACCESSORIES			
Indicators		page	page
BVA Axial pressure gauge		240	239
BVR Radial pressure gauge		240	239
BVP Visual pressure indicator with automatic reset		241	239-240
BVQ Visual pressure indicator with manual reset		241	
Additional features		page	
TE Extension tube		248	
Sxx Extension tube		248	
T5 Filler plug M30x1.5		249	



MPF MPF184 - MPF194

Designation & Ordering code

COMPLETE FILTER

Series and size

MPF184 MPF194

Filter element with standard spigot

Length

Size 184

Size 194

Seals and treatments

A NBR

W NBR

V FPM

Z FPM

head anodized

head anodized

Main Connections

G1 G 1 1/4"

G2 G 1 1/4"

G4 1 1/4" NPT

G5 1 1/4" NPT

G7 SAE 20 - 1 5/8" - 12 UN

G8 SAE 20 - 1 5/8" - 12 UN

G10 SAE 24 - 1 7/8" - 12 UN

G11 SAE 24 - 1 7/8" - 12 UN

Rear connections

-

G 1 1/4"

-

1 1/4" NPT

-

SAE 20 - 1 5/8" - 12 UN

-

SAE 20 - 1 5/8" - 12 UN

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

W 10 bar, compatible with fluids HFA, HFB and HFC

Filter media

Axx

Mxx

Pxx

Configuration example 1:

MPF184

1

A

G1

A25

H

E

P01

Configuration example 2:

MPF194

2

V

F3

P10

N

B

P01

Bypass valve

E 3 bar

B 1.75 bar

Execution

P01 MP Filtri standard

Pxx Customized

FILTER ELEMENT

Element series and size

MF180 MF190

Filter element with standard spigot

Element length

Size 180

Size 190

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

W 10 bar, compatible with fluids HFA, HFB and HFC

Filter media

Axx

Mxx

Pxx

Configuration example 1:

MF180

1

A25

H

B

E

P01

Configuration example 2:

MF190

2

P10

N

V

P01

Seals

B NBR

V FPM

Bypass valve

E 3 bar

1.75 bar

Execution

P01 MP Filtri standard

Pxx Customized

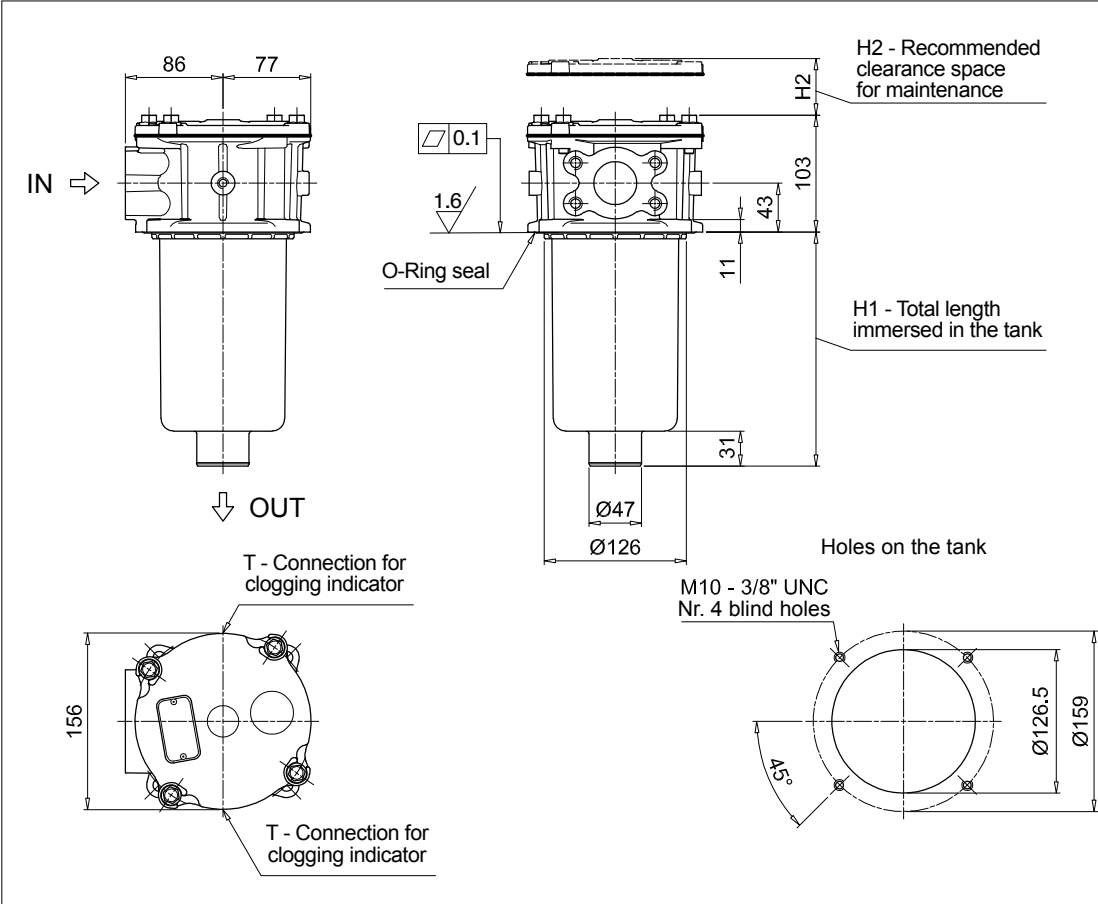
ACCESSORIES			
Indicators		page	page
BVA	Axial pressure gauge	240	239
BVR	Radial pressure gauge	240	239
BVP	Visual pressure indicator with automatic reset	241	239
BVQ	Visual pressure indicator with manual reset	241	239-240
Additional features		page	
TE	Extension tube	248	
Sxx	Extension tube	248	
T5	Filler plug M30x1.5	249	

Return filters

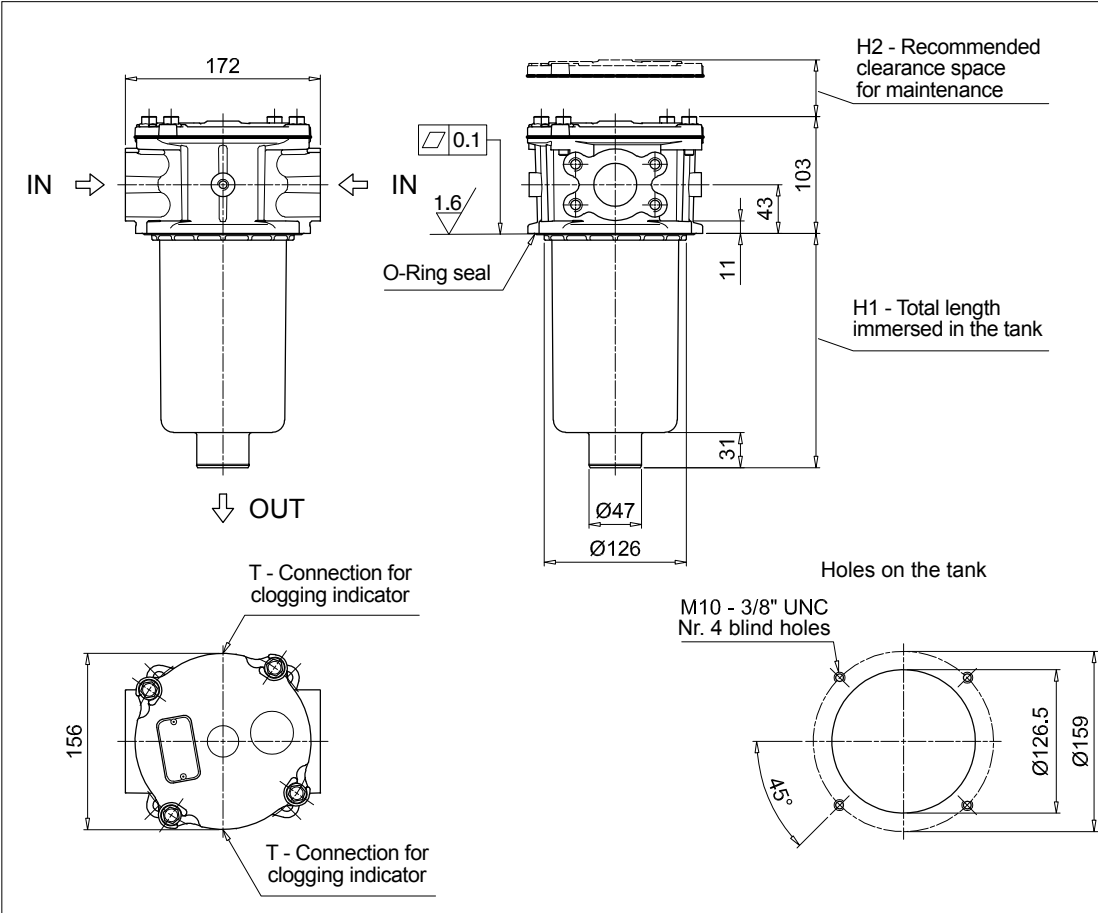
140

MP Filtri

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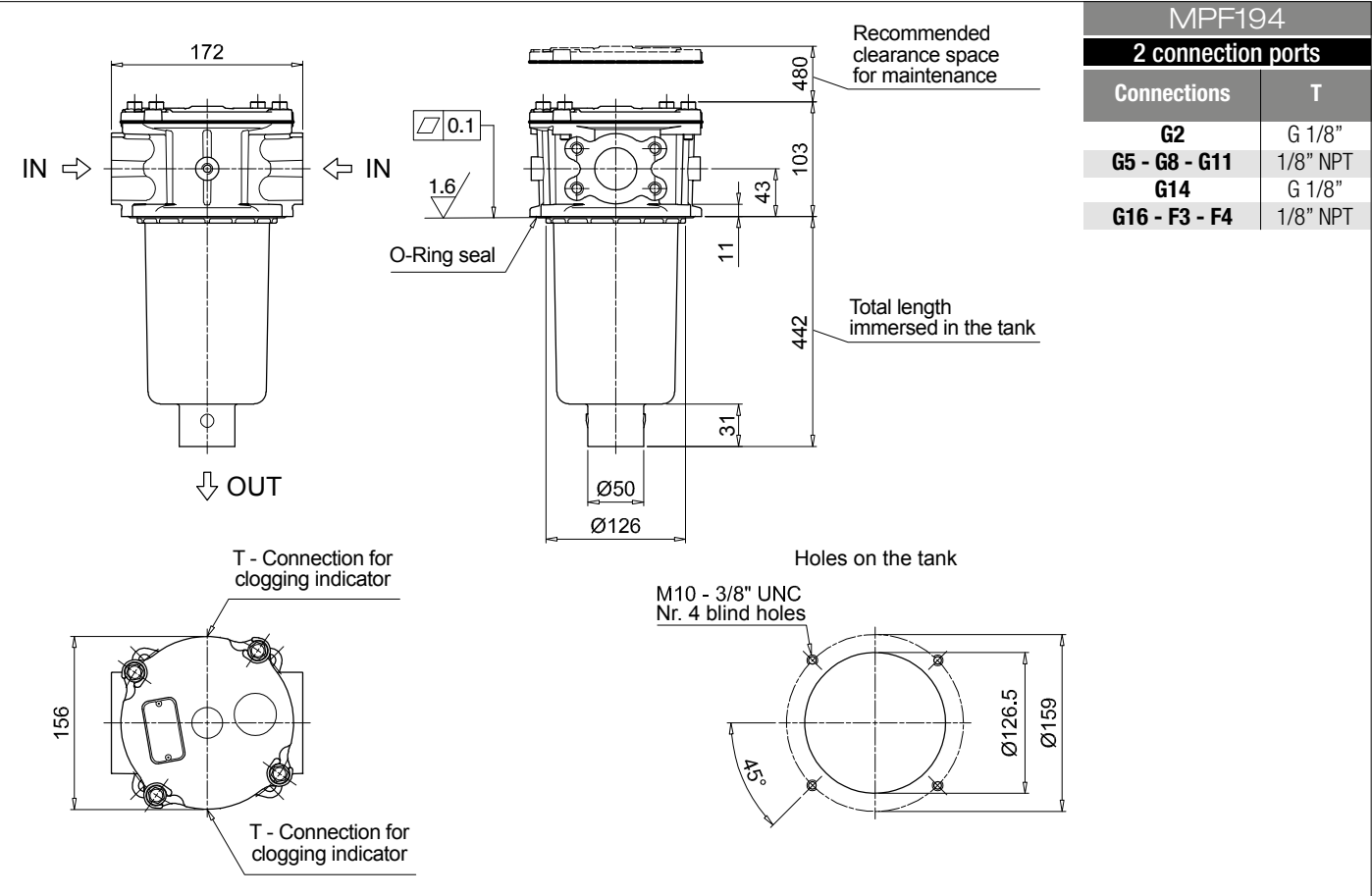
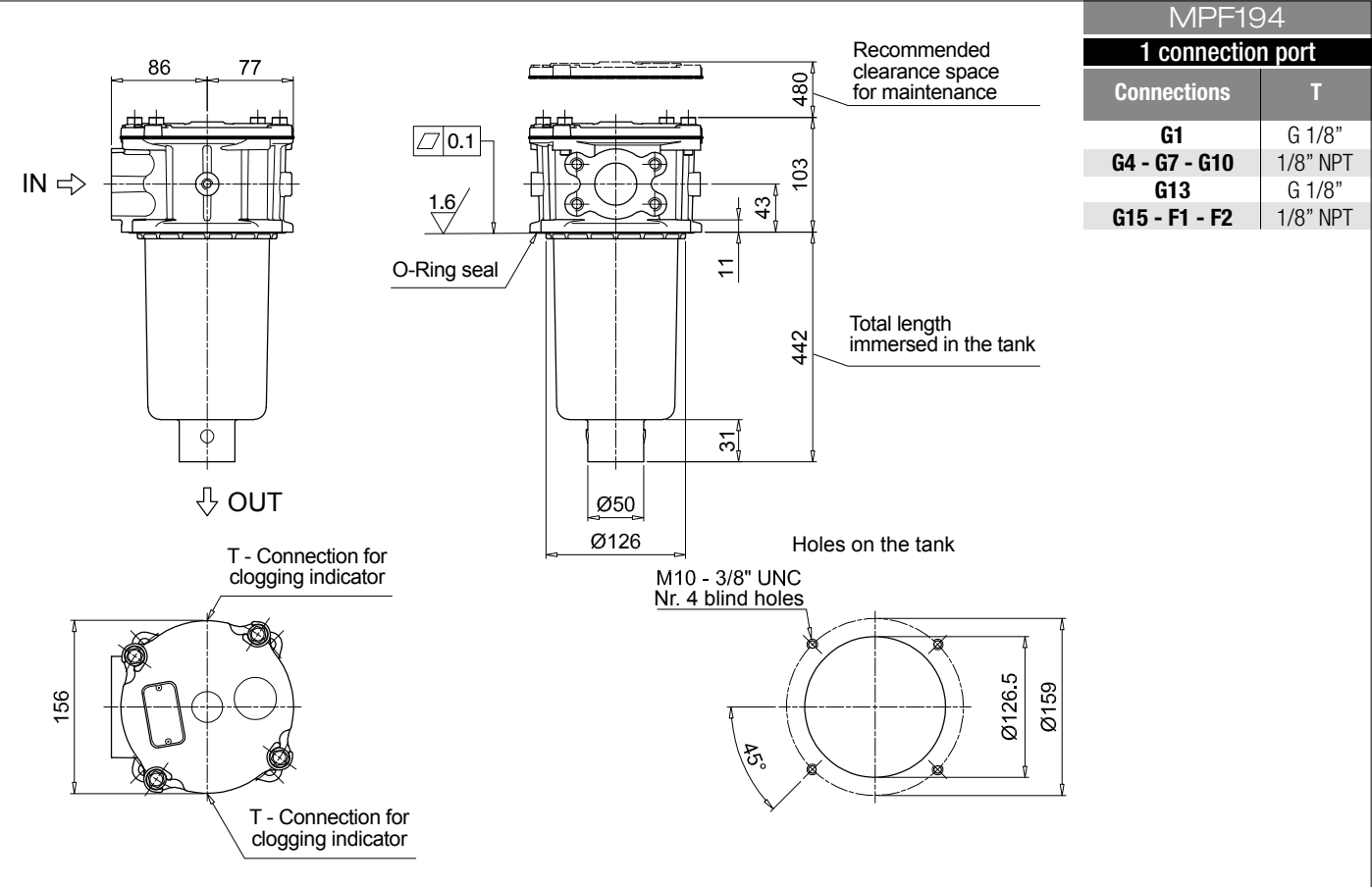
MPF184		
1 connection port		
Filter length	H1 [mm]	H2 [mm]
1	232	260
2	445	480
Connections		T
G1		G 1/8"
G4 - G7 - G10		1/8" NPT
G13		G 1/8"
G15 - F1 - F2		1/8" NPT



MPF184		
2 connection ports		
Filter length	H1 [mm]	H2 [mm]
1	232	260
2	445	480
Connections		T
G2		G 1/8"
G5 - G8 - G11		1/8" NPT
G14		G 1/8"
G16 - F3 - F4		1/8" NPT

MPF MPF184 - MPF194

Dimensions



Designation & Ordering code

COMPLETE FILTER

Series and size

MPF400 Filter element with standard spigot

Length

1 | 2 | 3 |

Seals and treatments

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

Connections

G1 G 1 1/4"

G2 G 1 1/2"

G3 G 2"

G4 1 1/4" NPT

G5 1 1/2" NPT

G6 2" NPT

G7 SAE 20 - 1 5/8" - 12 UN

G8 SAE 24 - 1 7/8" - 12 UN

G9 SAE 32 - 2 1/2" - 12 UN

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

W 10 bar, compatible with fluids HFA, HFB and HFC

Axx

Mxx

Pxx

Configuration example 1:

MPF4001AG9A25HPBP01

Configuration example 2:

MPF4002VG4P10NEP01

Bypass valve

E 3 bar
B 1.75 bar

Execution

P01 MP Filtri standard
Pxx Customized

FILTER ELEMENT

Element series and size

MF400 Filter element with standard spigot

Element length

1 | 2 | 3 |

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

W 10 bar, compatible with fluids HFA, HFB and HFC

Axx

Mxx

Pxx

Configuration example 1:

MF4001A25HPBP01

Configuration example 2:

MF4002P10NVEP01

Seals

B NBR
V FPM

Bypass valve

E 3 bar
1.75 bar

Execution

P01 MP Filtri standard
Pxx Customized

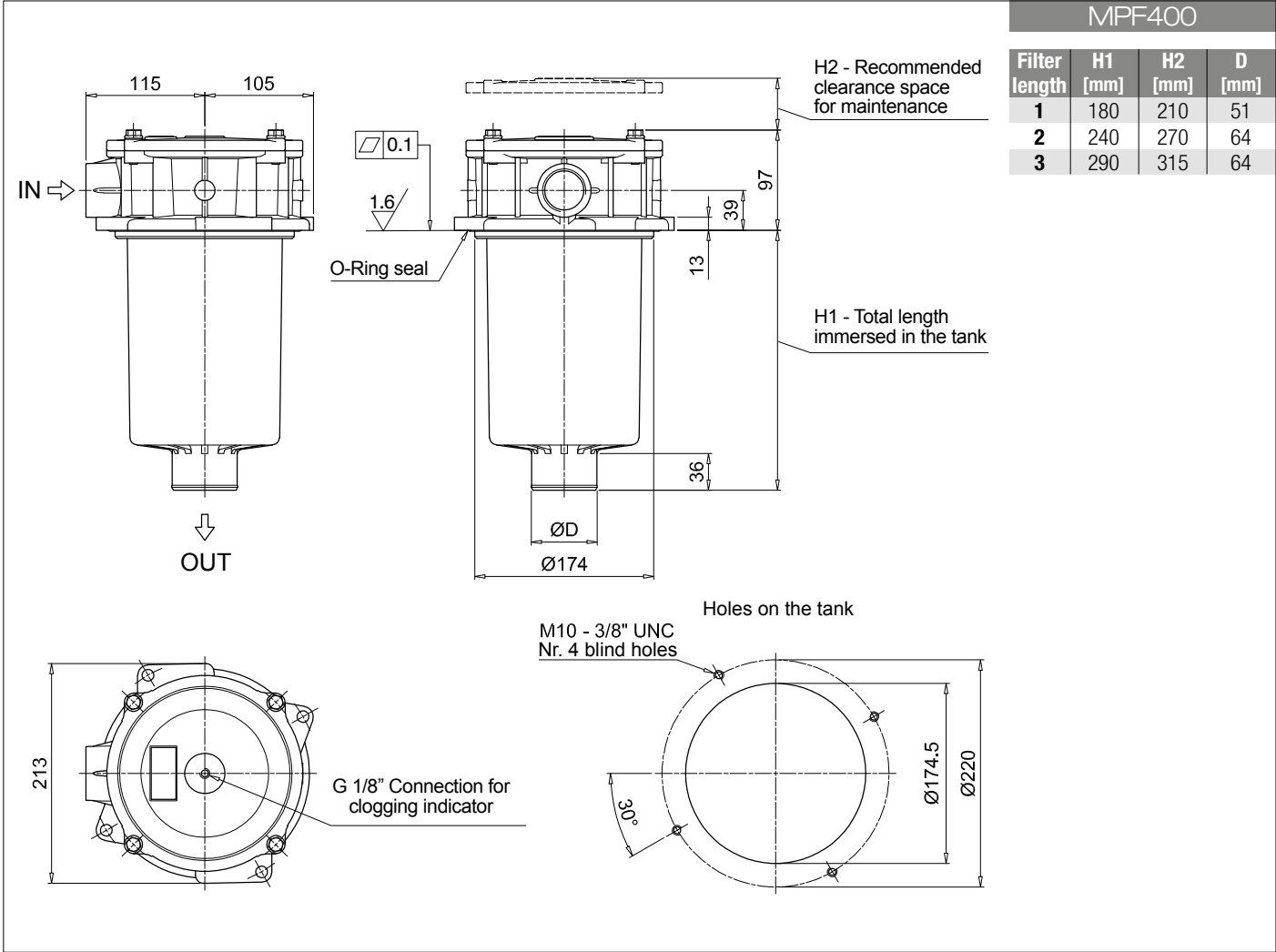
ACCESSORIES			
Indicators		page	page
BVA	Axial pressure gauge	240	239
BVR	Radial pressure gauge	240	239
BVP	Visual pressure indicator with automatic reset	241	239-240
BVQ	Visual pressure indicator with manual reset	241	
Additional features		page	
Sxx	Extension tube	248	
T5	Filler plug M30x1.5	249	

BEA	Electrical pressure indicator	239
BEM	Electrical pressure indicator	239
BLA	Electrical / visual pressure indicator	239-240

Return filters 144

MPFILTRI

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Designation & Ordering code

COMPLETE FILTER

Series and size

MPF410 Filter element with standard spigot

Configuration example 1:

MPF4101AG11A25HBPO1

Configuration example 2:

MPF4101VG41P10NEPO1

Length

123

Seals and treatments

A

NBR

V

FPM

W

NBR

head anodized

Z

FPM

head anodized

Main Connections

G1

G 1 1/4"

G4

1 1/4" NPT

G7

SAE 20 - 1 5/8" - 12 UN

Aux size 1

G 1"

1" NPT

SAE 16 - 1 5/16" - 12 UN

Aux connection - see previous table

1 Aux size 1

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

W

10 bar, compatible with fluids HFA, HFB and HFC

Filter media

Axx

Mxx

Pxx

Bypass valve

E

3 bar

B

1.75 bar

Execution

P01

MP Filtri standard

Pxx

Customized

FILTER ELEMENT

Element series and size

MF400 Filter element with standard spigot

Configuration example 1:

MF4001A25HBPO1

Configuration example 2:

MF4001P10NEPO1

Element length

123

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

W

10 bar, compatible with fluids HFA, HFB and HFC

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

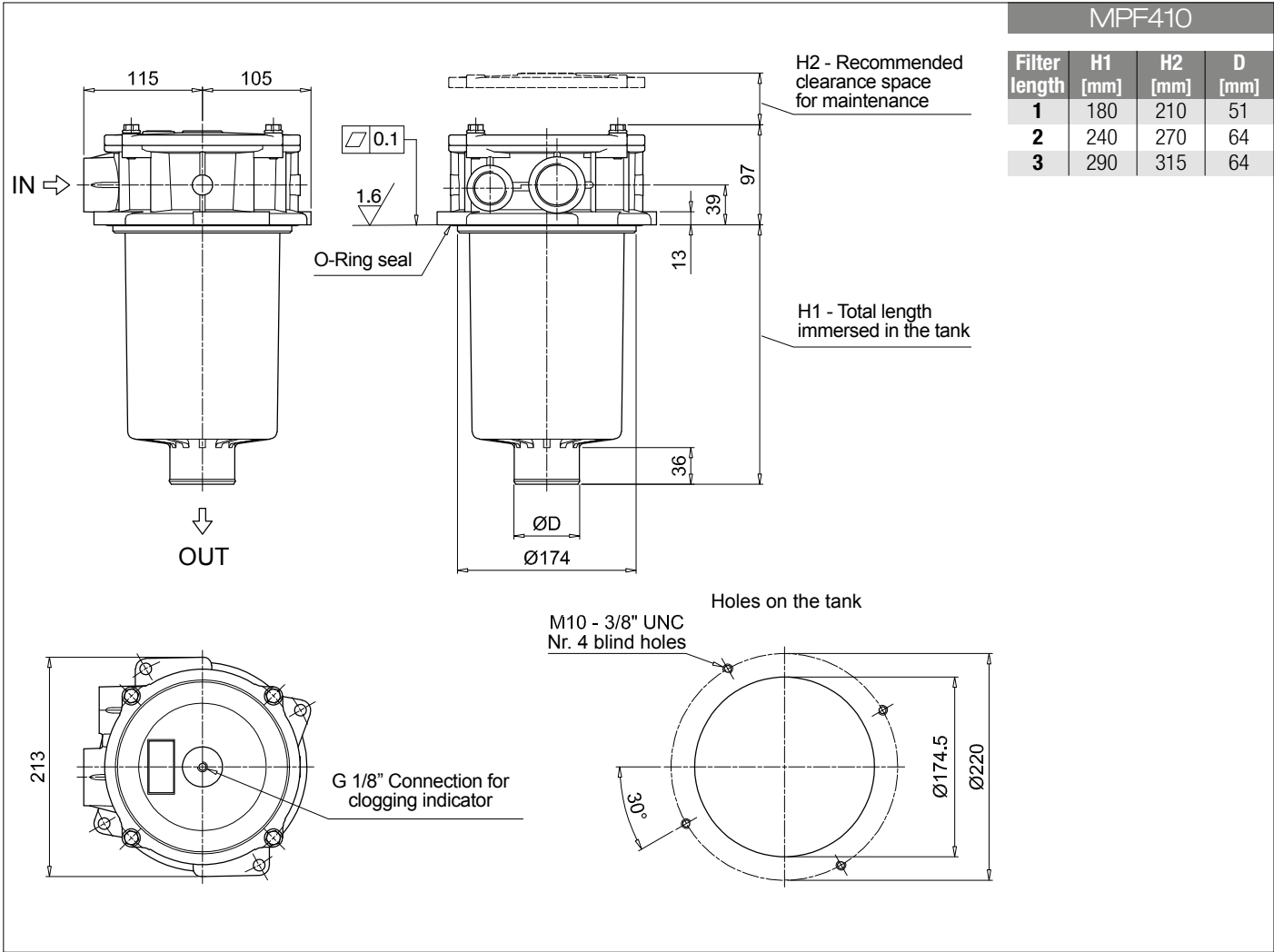
ACCESSORIES			
Indicators		page	page
BVA	Axial pressure gauge	240	239
BVR	Radial pressure gauge	240	239
BVP	Visual pressure indicator with automatic reset	241	239-240
BVQ	Visual pressure indicator with manual reset	241	
Additional features		page	
Sxx	Extension tube	248	
T5	Filler plug M30x1.5	249	
BEA	Electrical pressure indicator		239
BEM	Electrical pressure indicator		239
BLA	Electrical / visual pressure indicator		239-240

Return filters

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MPFILTRI

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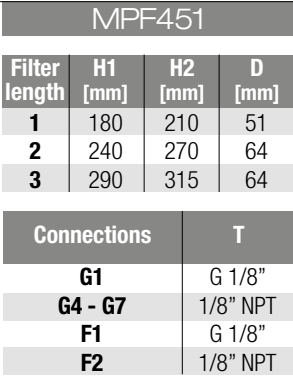
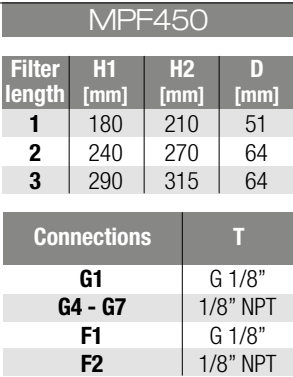
MPF MPF450 - MPF451 - MPF750

Designation & Ordering code

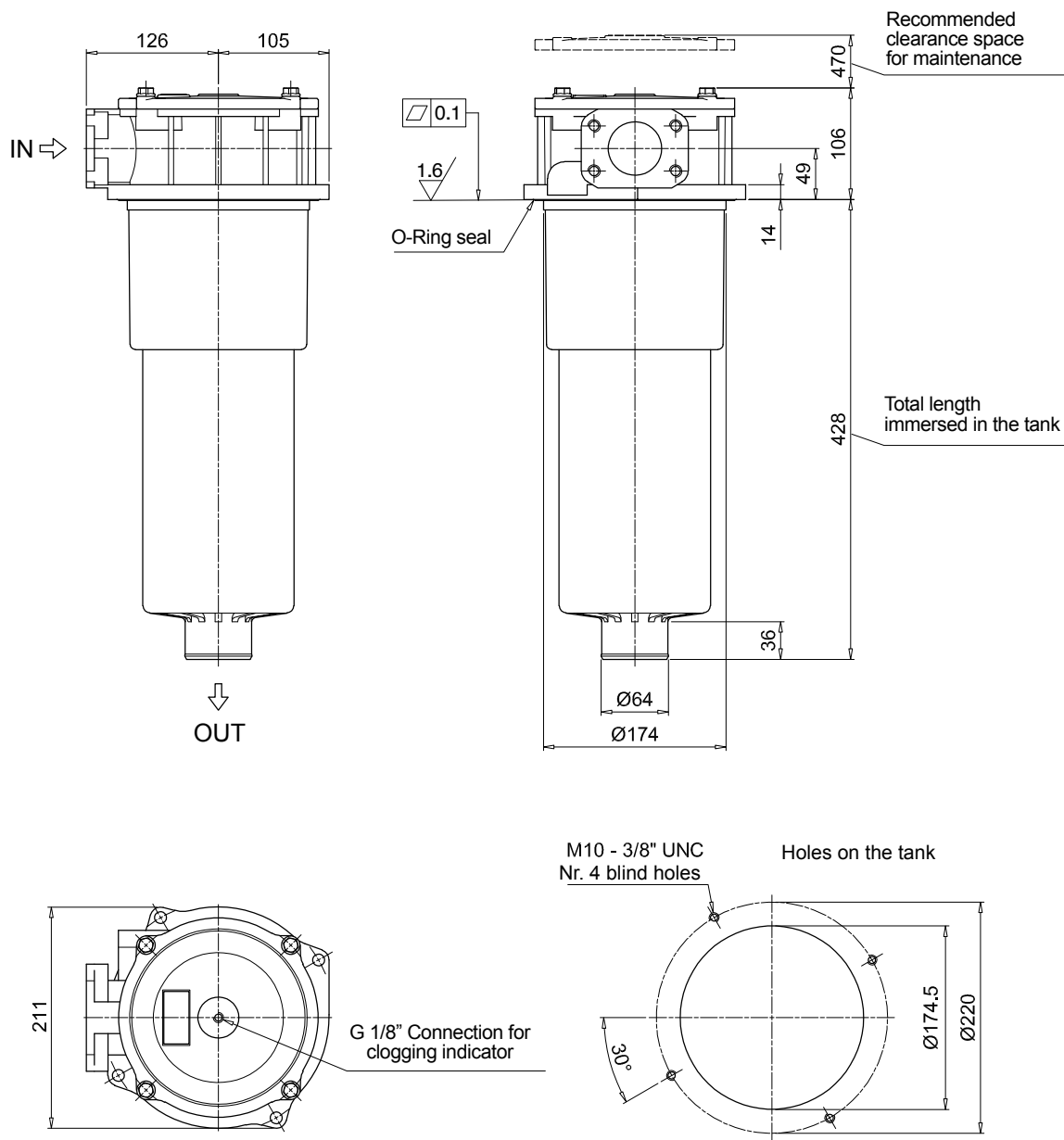
COMPLETE FILTER												
Series and size				Configuration example 1:								
MPF450	MPF451	MPF750	Filter element with standard spigot	Configuration example 2:								
Length				MPF 450	MPF 451	MPF 750						
1				•	•	•						
2				•	•							
3				•	•							
Seals and treatments												
A	NBR			W	NBR	head anodized						
V	FPM			Z	FPM	head anodized						
Connections				Aux (only size 451)								
G1	G 2"			G 3/4"								
G4	2" NPT			3/4" NPT								
G7	SAE 32 - 2 1/2" - 12 UN			SAE 12 - 1 1/16" - 12 UN								
F1	2" SAE 3000 psi/M			G 3/4"								
F2	2" SAE 3000 psi/UN			3/4" 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						
				Filter media								
Element Δp				Axx	Mxx	Pxx						
N	10 bar				•	•						
H	10 bar				•							
W	10 bar, compatible with fluids HFA, HFB and HFC				•	•						
							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:						
MF400	MF750	Filter element with standard spigot		Configuration example 2:						
Element length				MPF 450	MPF 451	MPF 750				
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						
N	10 bar		Axx	Mxx	Pxx					
H	10 bar			•	•					
W	10 bar, compatible with fluids HFA, HFB and HFC		•	•						
Seals			Bypass valve			Execution				
B	NBR		E	3 bar		P01	MP Filtri standard			
V	FPM			1.75 bar		Pxx	Customized			

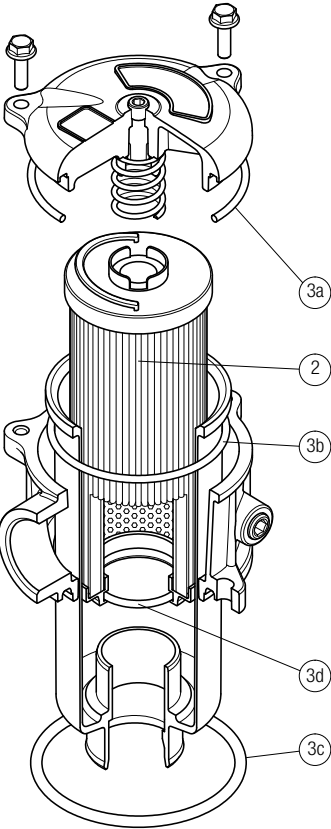
ACCESSORIES				
Indicators		page		page
BVA	Axial pressure gauge	240	BEA	Electrical pressure indicator 239
BVR	Radial pressure gauge	240	BEM	Electrical pressure indicator 239
BVP	Visual pressure indicator with automatic reset	241	BLA	Electrical / visual pressure indicator 239-240
BVQ	Visual pressure indicator with manual reset	241		
Additional features		page		
Sxx	Extension tube	248		
T5	Filler plug M30x1.5	249		



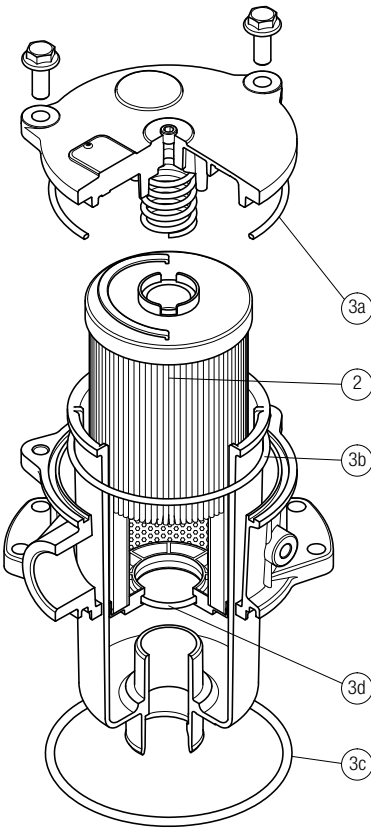
MPF750



MPF 100



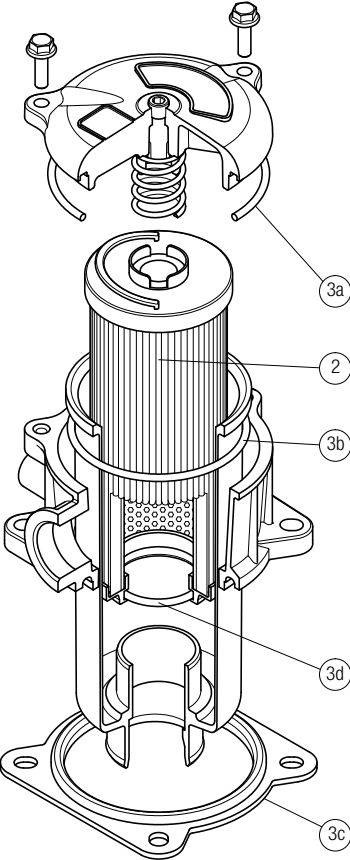
MPF 181



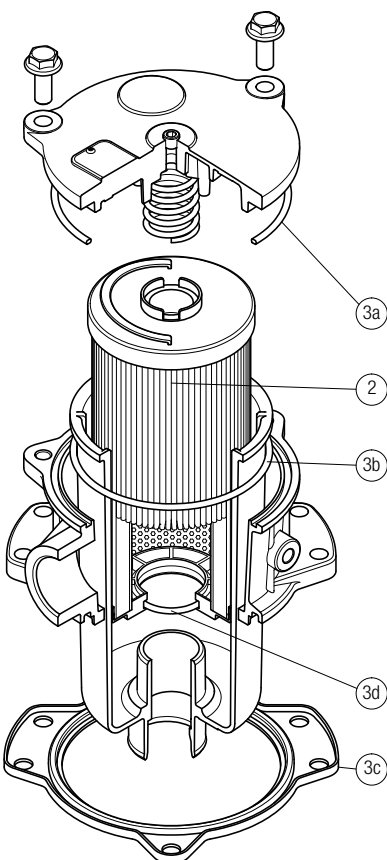
O-RING SEAL

Item:	Q.ty: 1 pc. 2	Q.ty: 1 pc. 3 (3a ÷ 3d)	
Filter series	Filter element	Seal Kit code number NBR	FPM
MPF 030	See order table	02050055	02050056
MPF 100-110		02050057	02050058
MPF 181-182		02050059	02050060
MPF 184		02050455	02050456
MPF 191-192		02050457	02050458
MPF 194		02050459	02050460
MPF 400-410		02050061	02050062
MPF 450-451		02050461	02050462
MPF 750		02050106	02050107

MPF 104



MPF 181



FLAT SEAL

Item:	Q.ty: 1 pc. 2	Q.ty: 1 pc. 3 (3a ÷ 3d)	
Filter series	Filter element	Seal Kit code number NBR	FPM
MPF 020	See order table	02050438	02050439
MPF 104		02050350	02050408
MPF 181-182		02050659	02050660
MPF 191-192		02050661	02050662