

MPF series

Maximum working pressure up to 800 kPa (8 bar) - Flow rate up to 750 l/min



Description

Technical data

Return filter

Maximum working pressure up to 800 kPa (8 bar)

Flow rate up to 750 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 meet any reservoir surface flatness and roughness
- O-ring or Flat seal, to meet any reservoir surface flatness and roughness
- 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

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) $\pm 10\%$

- 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

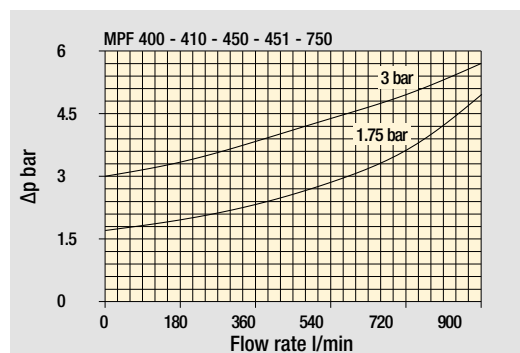
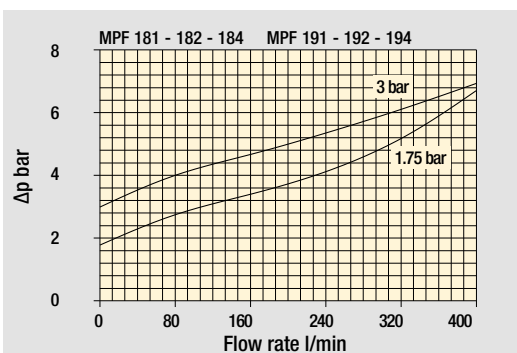
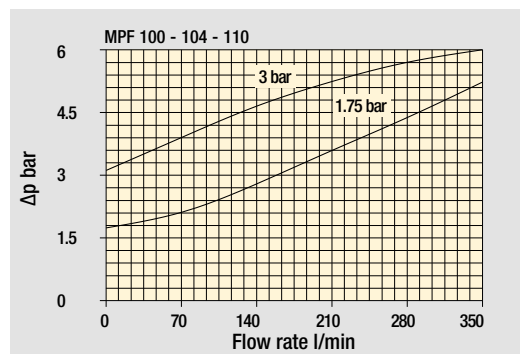
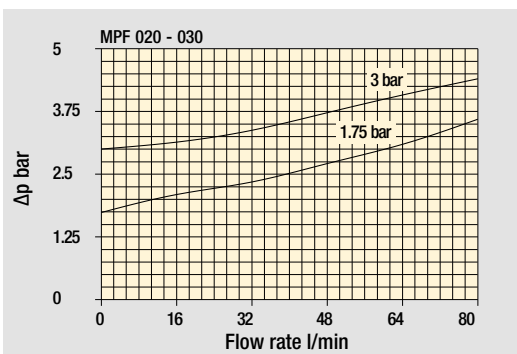
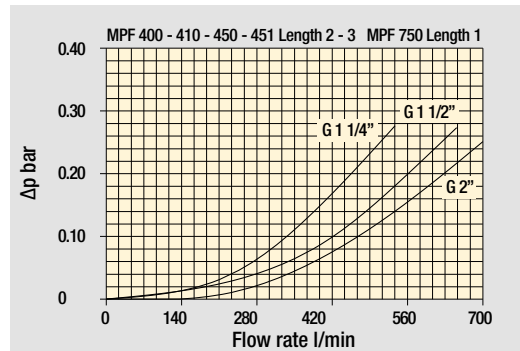
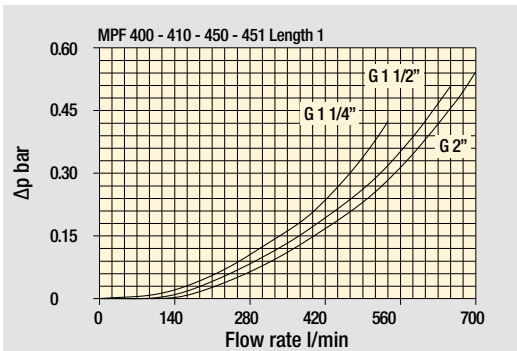
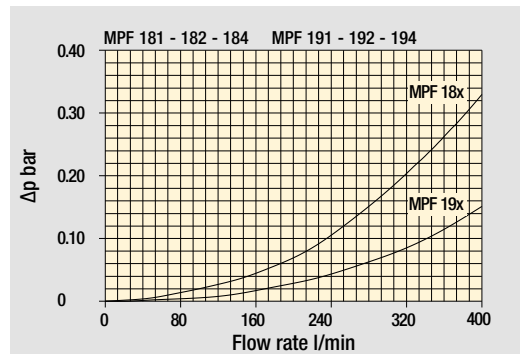
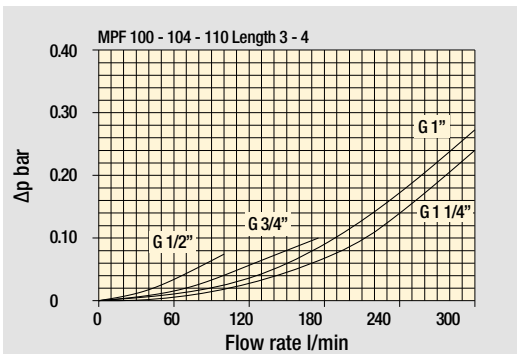
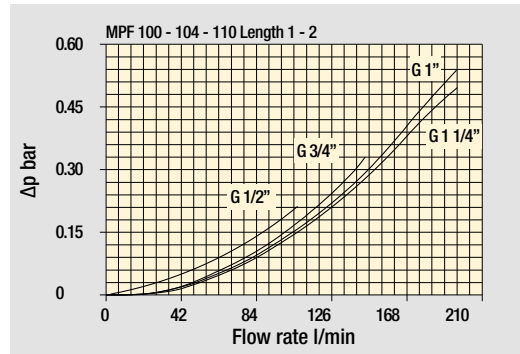
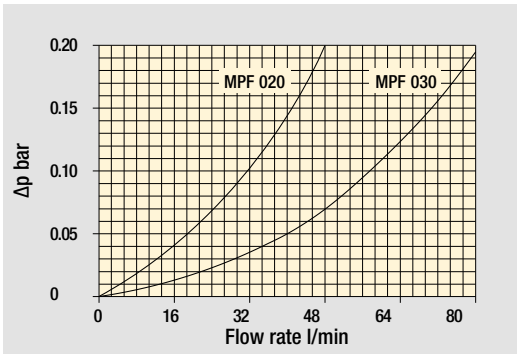
MPF filters are provided for vertical mounting



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 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.

MPF GENERAL INFORMATION

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
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.

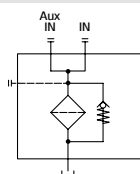
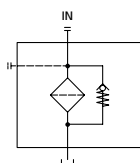
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

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

Please, contact our Sales Department for further additional information.

Hydraulic symbols

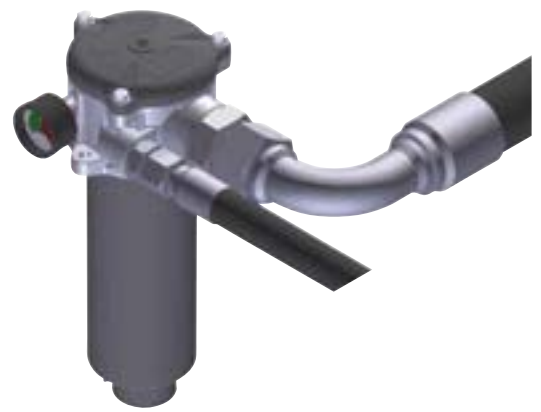
Filter series	Style 1 connection	Style 2 connections
MPF 020	•	
MPF 030	•	
MPF 100	•	
MPF 104	•	
MPF 110		•
MPF 181	•	
MPF 182		•
MPF 184	•	•
MPF 191	•	
MPF 192	•	
MPF 194	•	•
MPF 400	•	
MPF 410		•
MPF 450	•	
MPF 451		•
MPF 750	•	



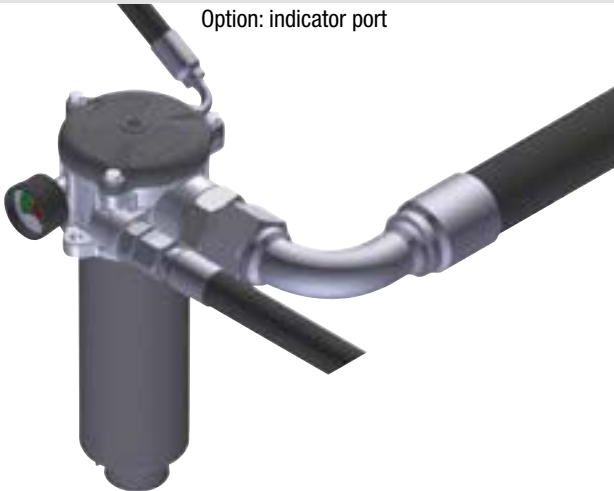
Standard - Single IN port



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	MPF030	Filter element with standard spigot		Configuration example 2:		MPF030	1	A	P1	A10	H	E	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										
			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						

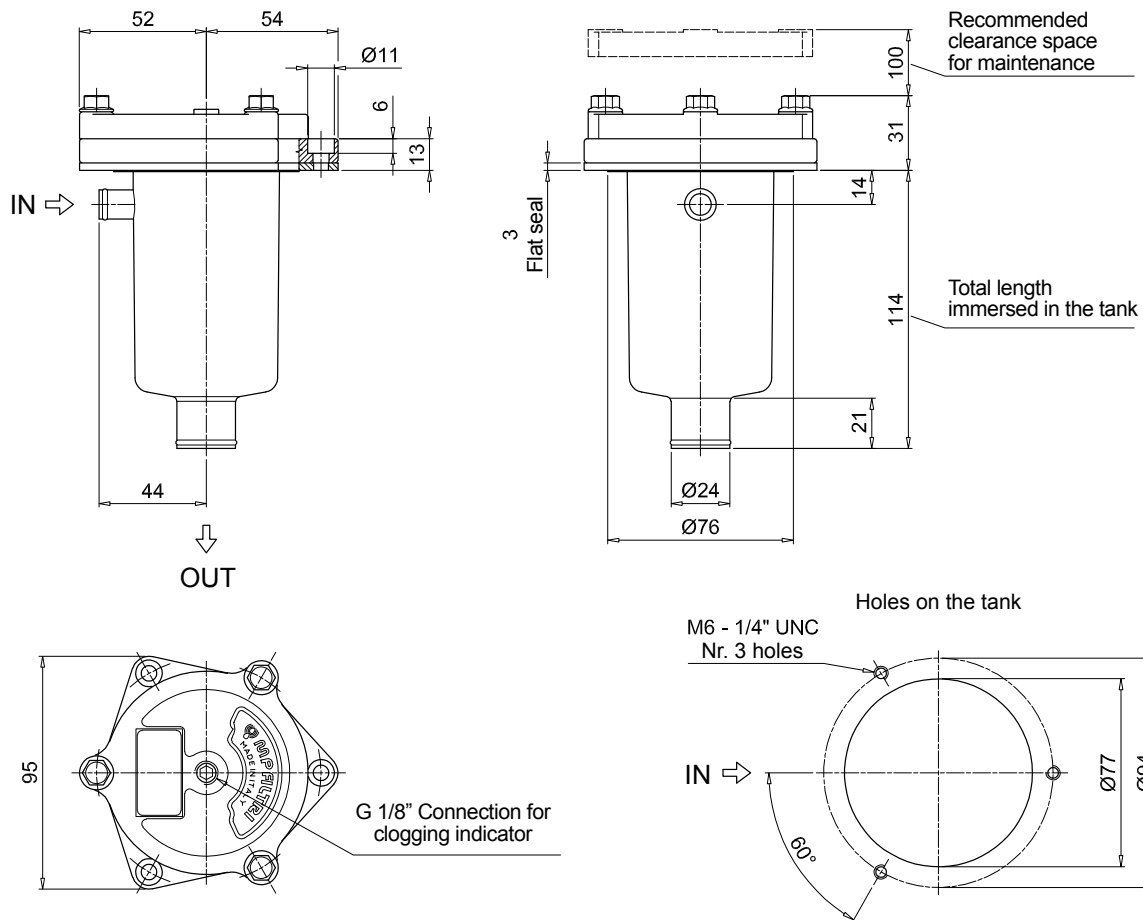
FILTER ELEMENT

Element series and size		Configuration example 1:							
MF030	Filter element with standard spigot		MF030	1	M25	N	V		P01
Element length		Configuration example 2:							
1			MF030	1	M25	N	V		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		Execution					
B	NBR	E	3 bar	P01	MP Filtri standard				
V	FPM		1.75 bar	Pxx	Customized				

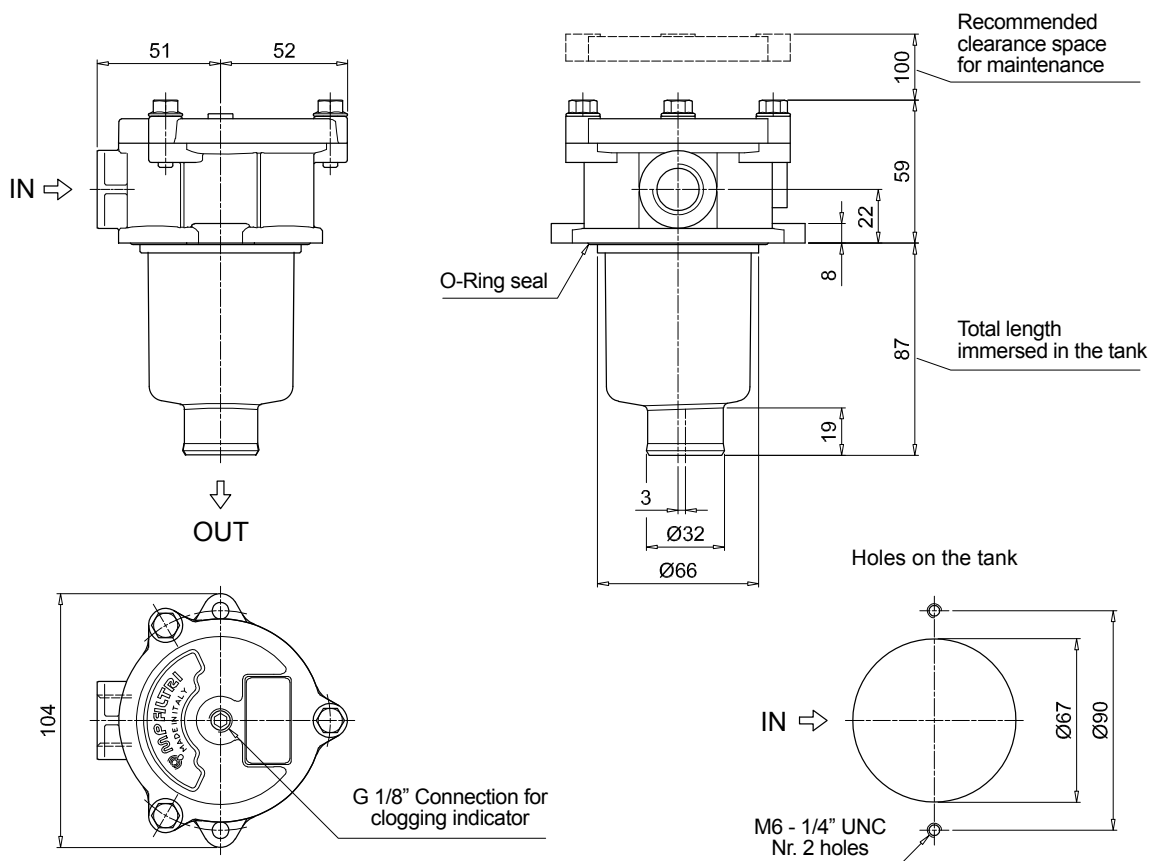
ACCESSORIES

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			
T5 Filler plug M30x1.5		249			

MPF020



MPF030

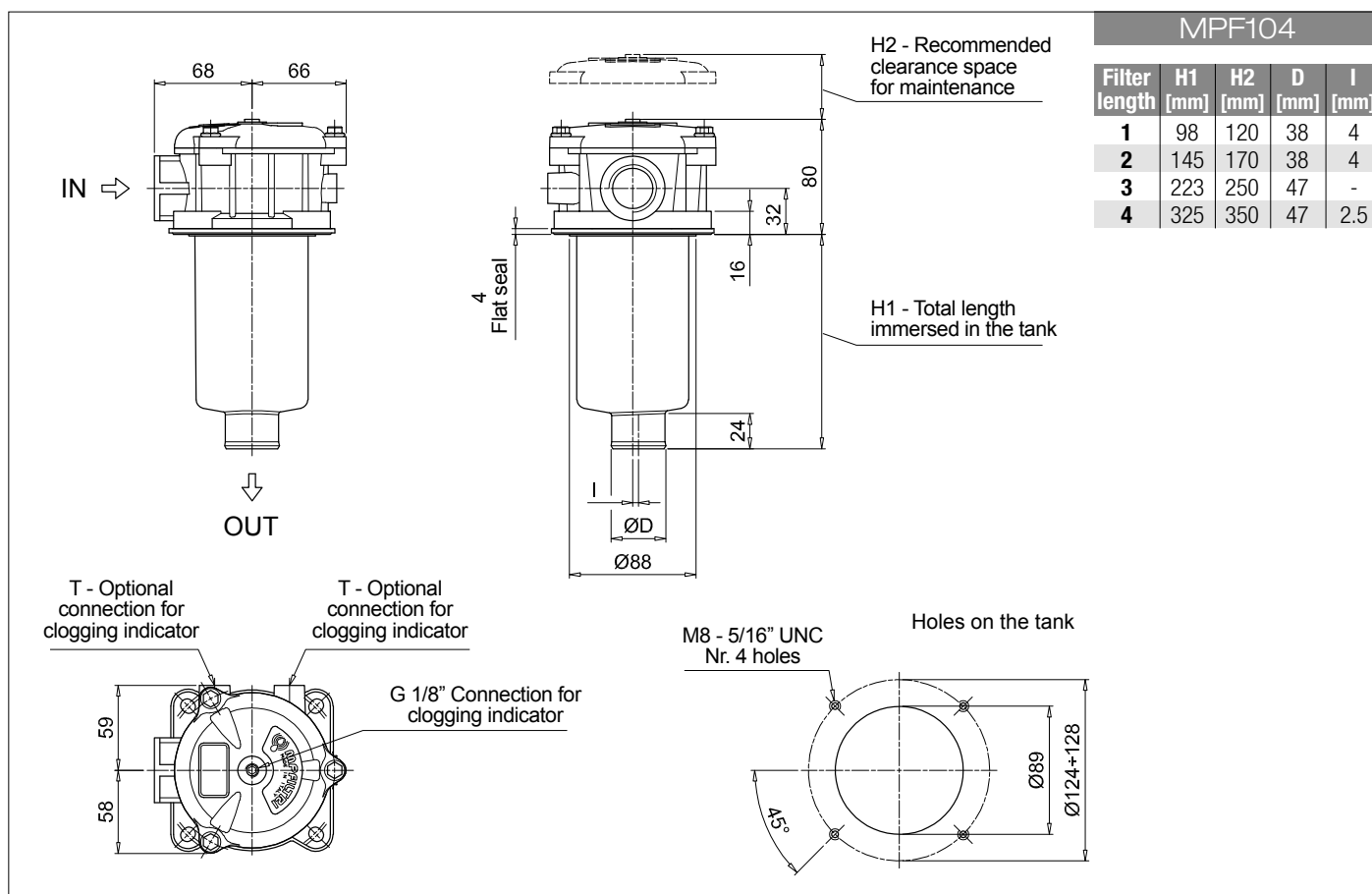
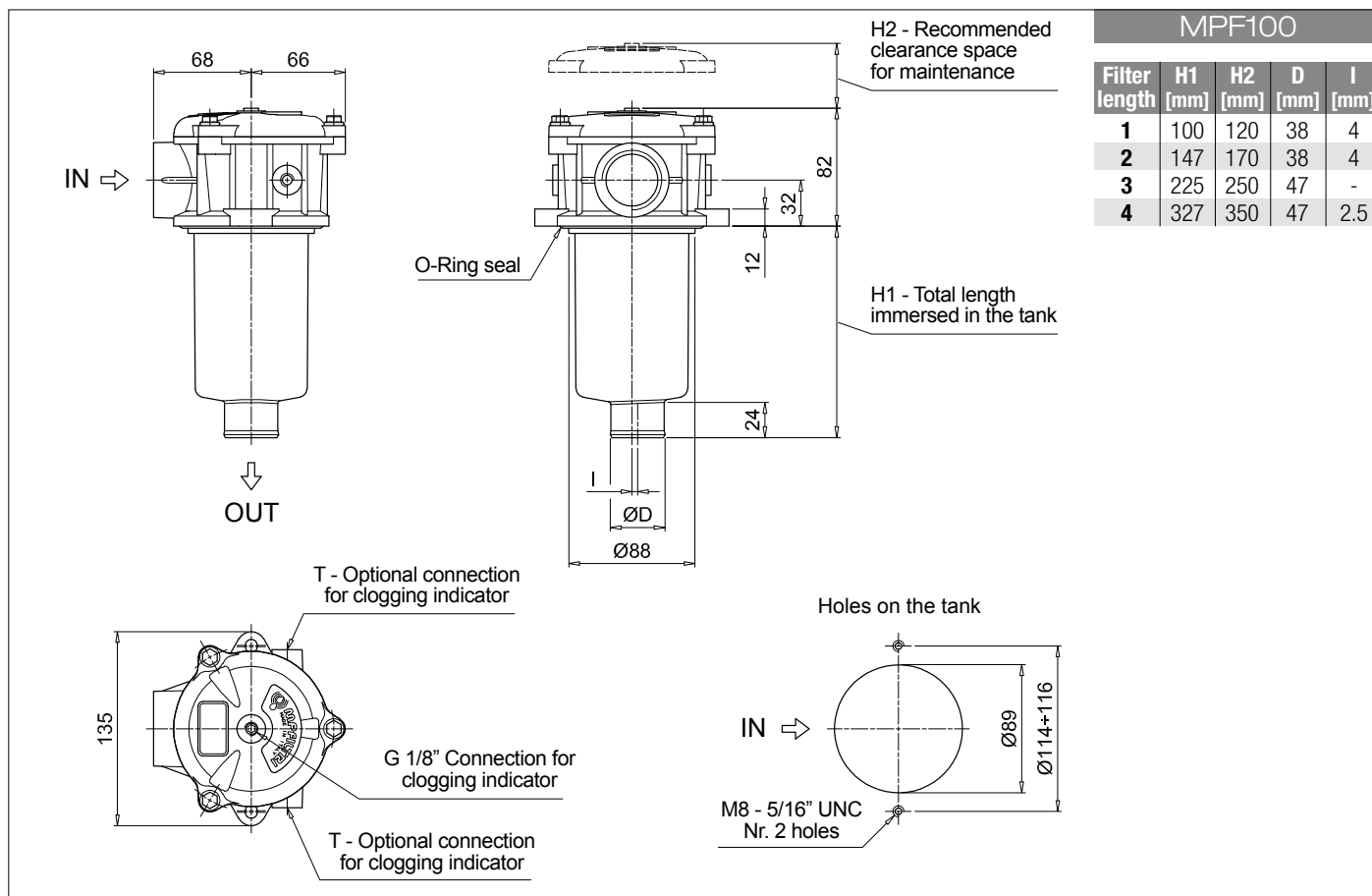


MPF MPF100 - MPF104

Designation & Ordering code

COMPLETE FILTER

Series and size		Configuration example 1:														
MPF100	MPF104	Filter element with standard spigot														
Length		Configuration example 2:														
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		Size 100	Size 104									
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	•	•	G10	G 1 1/4"	•										
G5	3/4" NPT	•	•	G11	1 1/4" NPT	•										
G6	1" NPT	•	•	G12	SAE 20 - 1 5/8" - 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														
		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							



Designation & Ordering code

COMPLETE FILTER

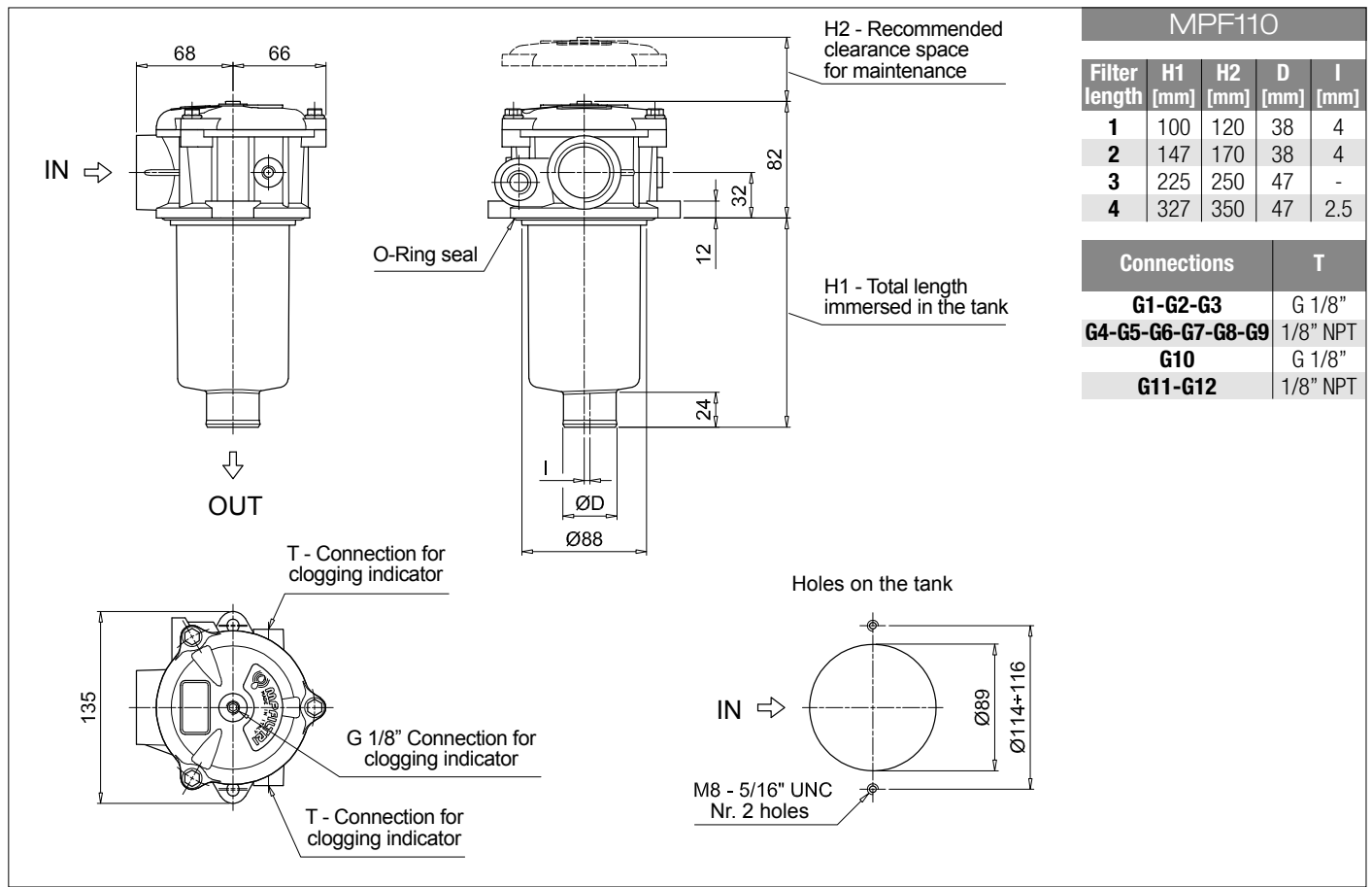
Series and size			Configuration example 1:									
MPF110 Filter element with standard spigot			Configuration example 2:									
			MPF110	2	A	G2	1	A16	H	E	P01	
			MPF110	4	V	G12	1	M60	N	B	P01	
Length												
1 2 3 4												
Seals and treatments												
A NBR			W NBR head anodized									
V FPM			Z FPM head anodized									
Main Connections		Aux size 1	Aux size 2	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"				G8 SAE 12 - 1 1/16" - 12 UN								
G3 G 1"				G9 SAE 16 - 1 5/16" - 12 UN								
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				G11 1 1/4" NPT		3/8" NPT		1/2" NPT				
G6 1" NPT				G12 SAE 20 - 1 5/8" - 12 UN		SAE 6 - 9/16" - 18 UNF		SAE 8 - 3/4" - 16 UNF				
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									
			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: MF100 2 A16 H B E P01									
MF100 Filter element with standard spigot			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									
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			B 1.75 bar			
									Execution			
									P01 MP Filtri standard			
									Pxx Customized			

ACCESSORIES

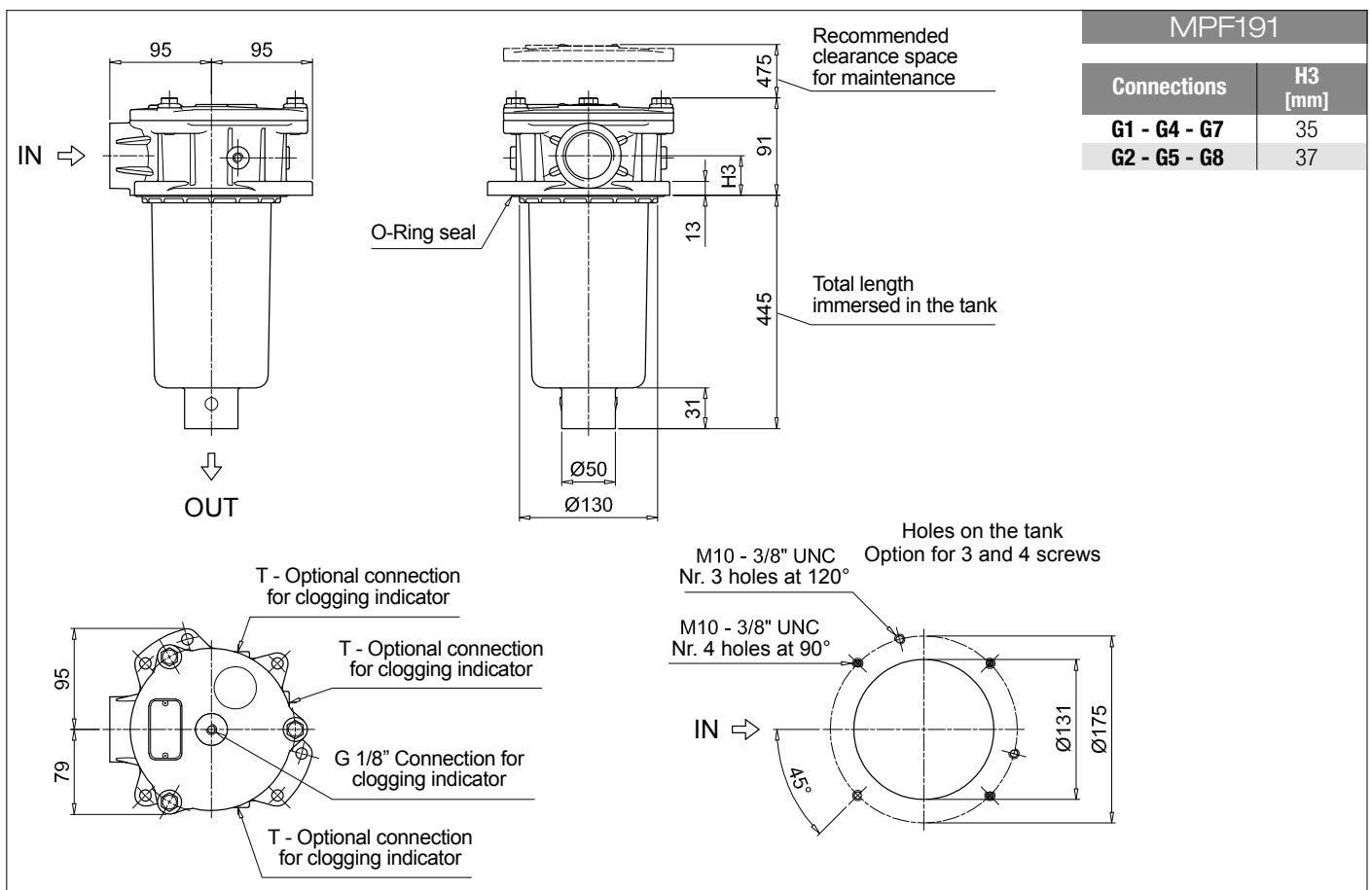
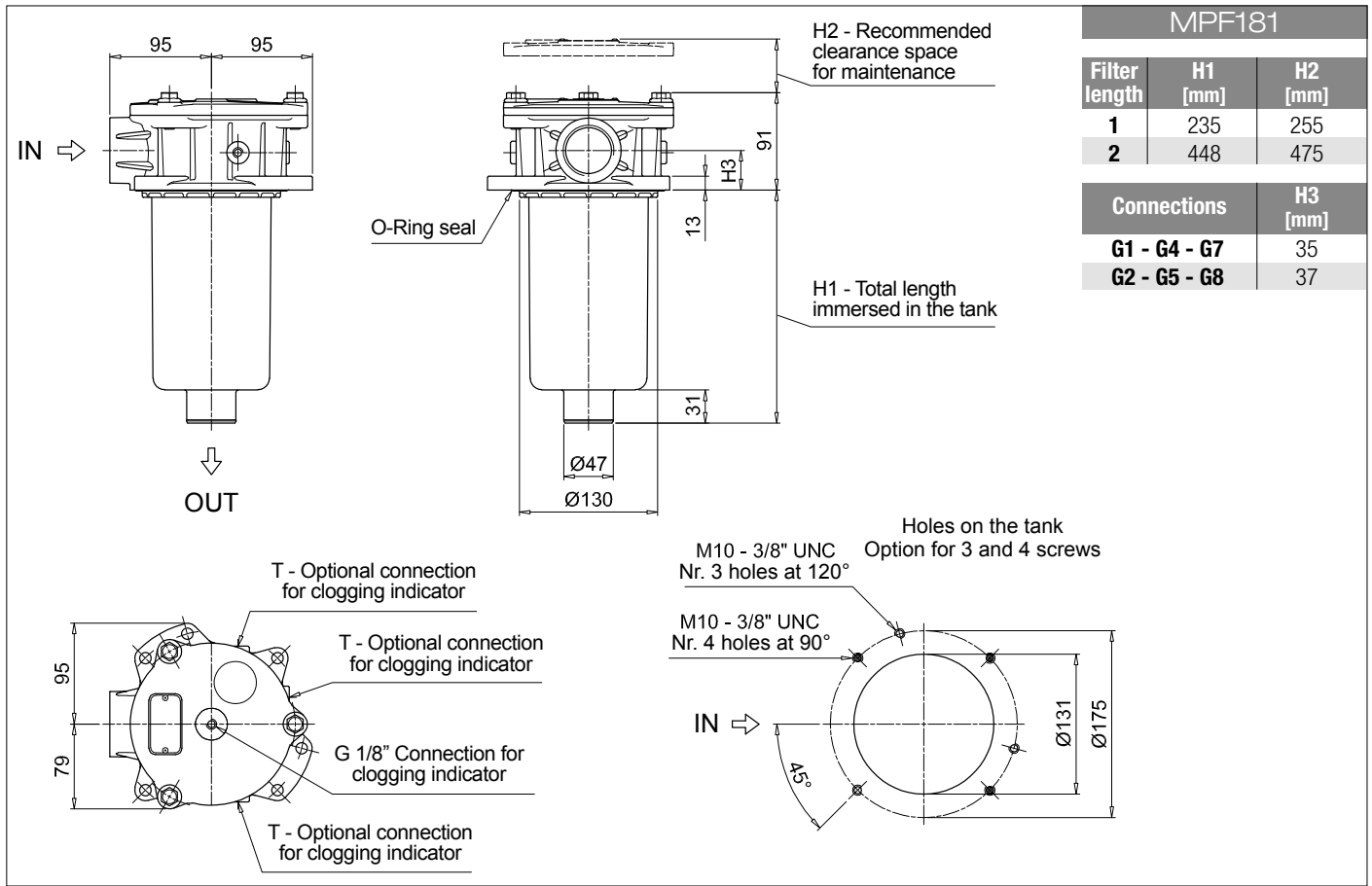
Indicators		page			page
BVA	Axial pressure gauge	240	BEA	Electrical pressure indicator	239
BVR	Radial pressure gauge	240	BEM	Electrical pressure indicator	239
BVP	Visual pressure indicator with automatic reset	241	BLA	Electrical / visual pressure indicator	239-240
BVQ	Visual pressure indicator with manual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



MPF MPF182 - MPF192

Designation & Ordering code

COMPLETE FILTER

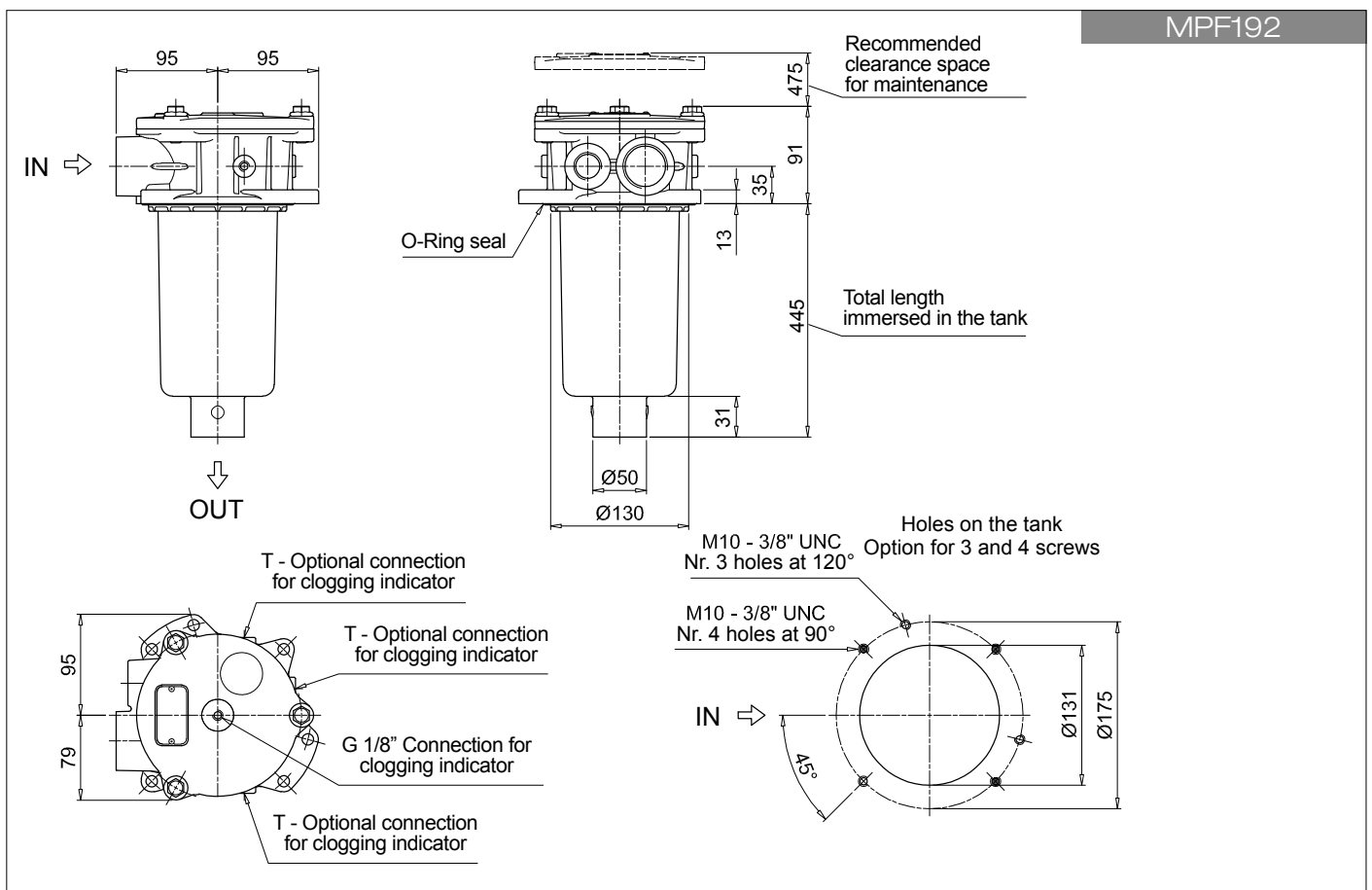
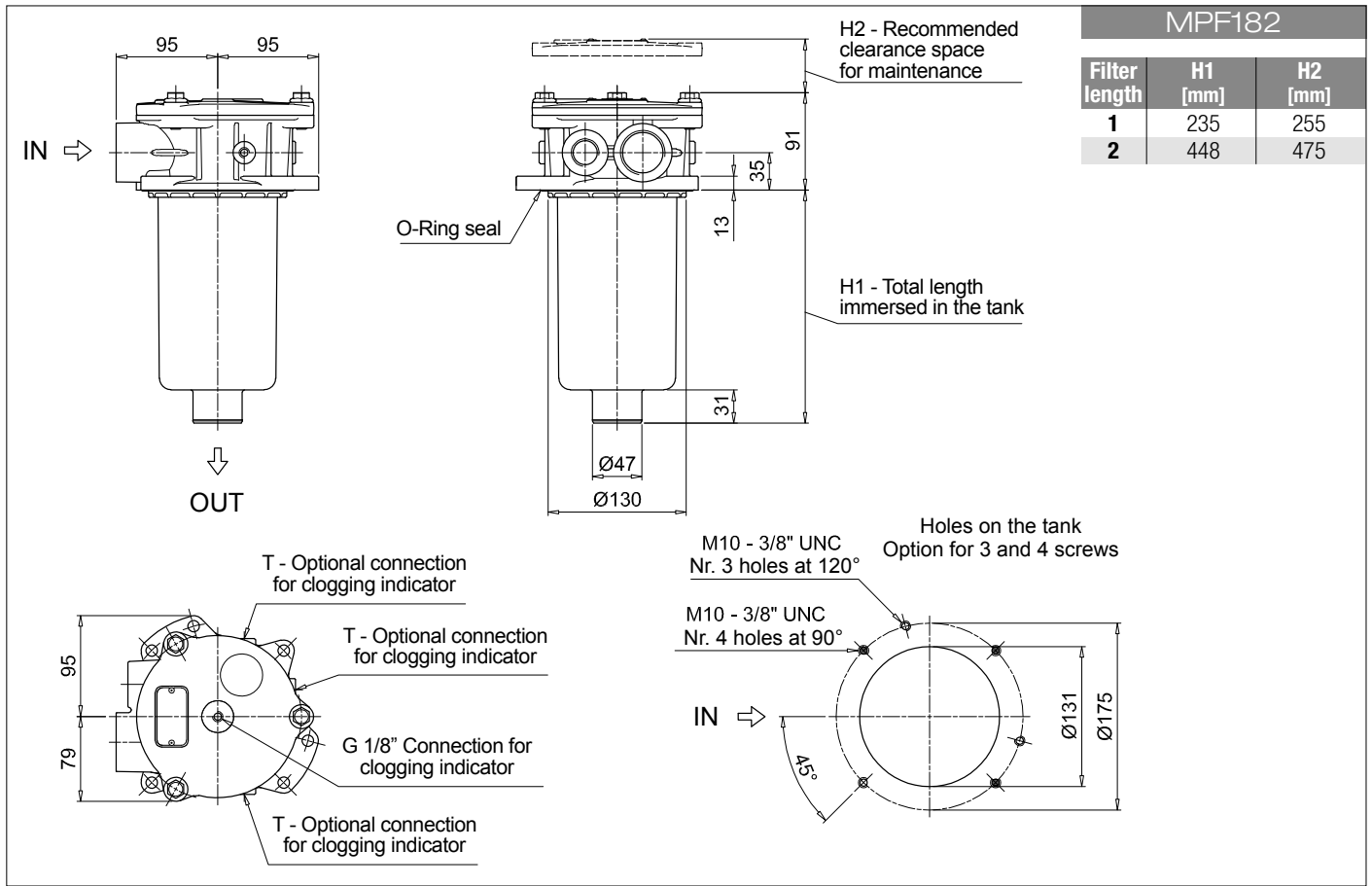
Series and size			Configuration example 1:									
MPF182 MPF192 Filter element with standard spigot			Configuration example 2:									
			MPF182	1	A	G1	1	A25	H	E	P01	
			MPF192	2	V	G4	2	P10	N	B	P01	
Length			Size 182	Size 192								
1			•									
2			•	•								
Seals and treatments												
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									
			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: MF180 1 A25 H B E P01							
MF180 MF190 Filter element with standard spigot			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							
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		
TE Extension tube	248		
Sxx Extension tube	248		
T5 Filler plug M30x1.5	249		



MPF MPF184 - MPF194

Designation & Ordering code

COMPLETE FILTER

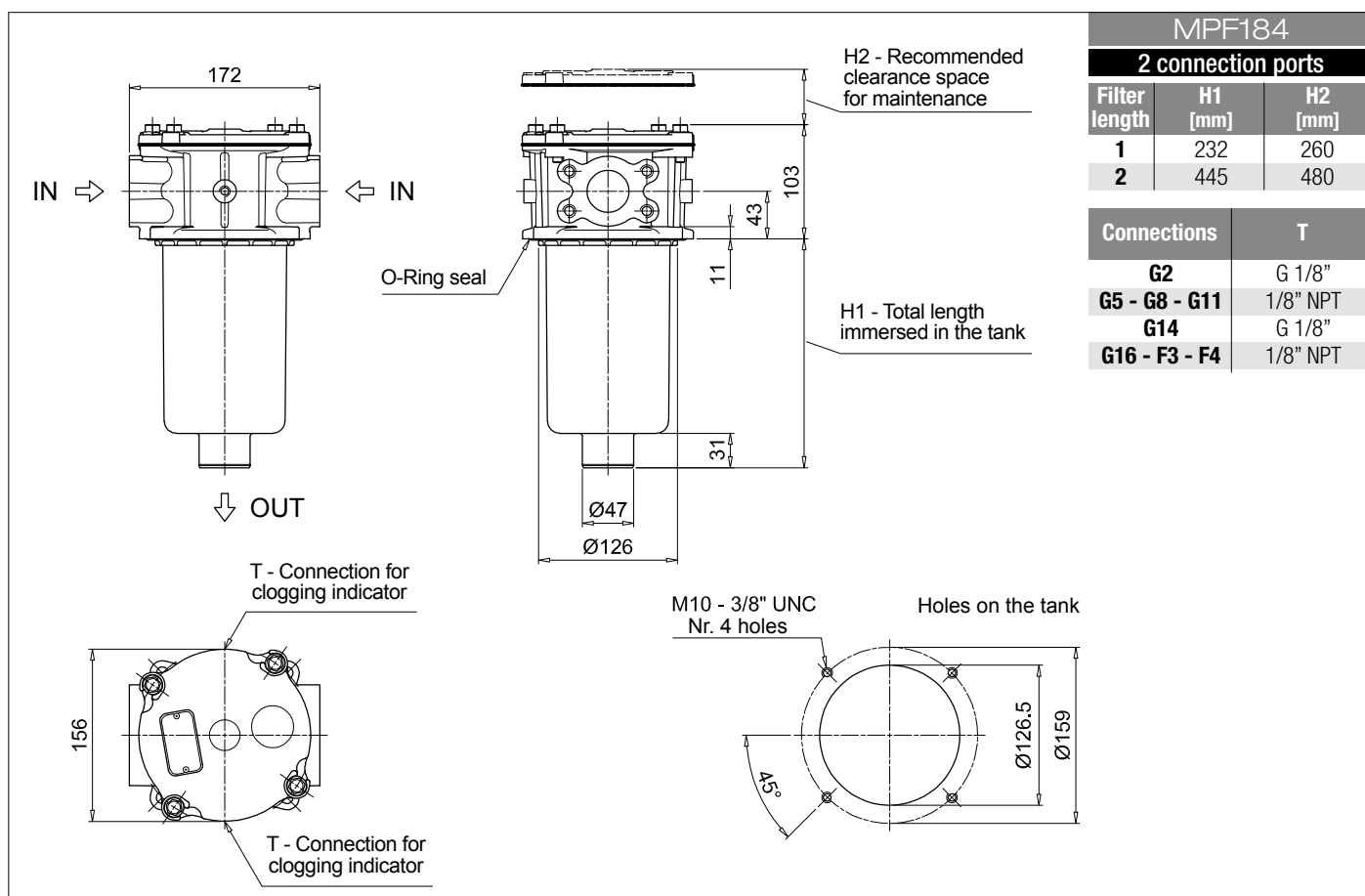
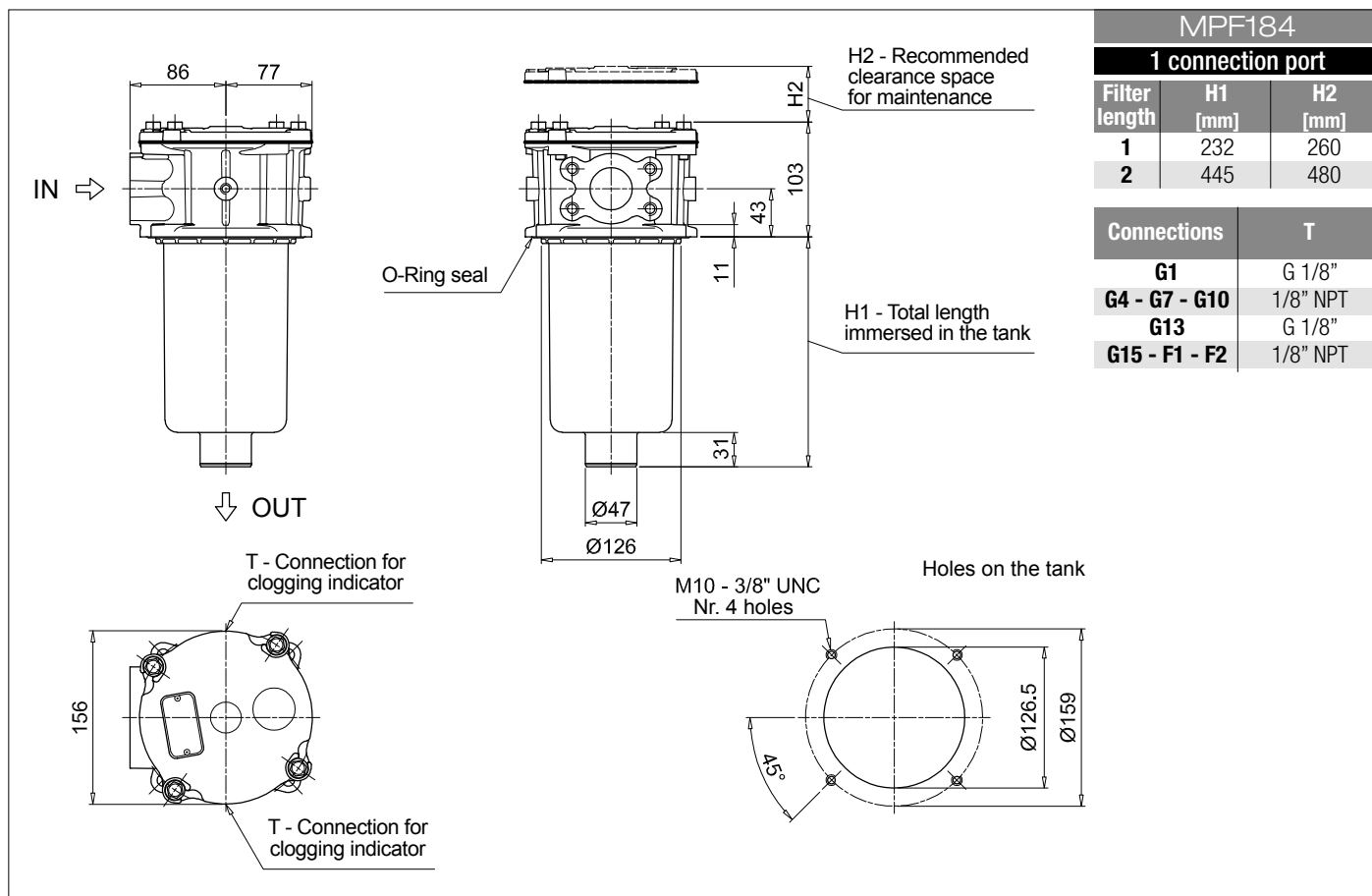
Series and size			Configuration example 1: MPF1841AVF3P10NBP01									
MPF184 MPF194 Filter element with standard spigot			Configuration example 2: MPF1942VVF3P10NBP01									
Length		Size 184	Size 194									
1		•										
2		•	•									
Seals and treatments												
A	NBR	W	NBR	head anodized								
V	FPM	Z	FPM	head anodized								
Main Connections		Rear connections		Main Connections		Rear connections						
G1	G 1 1/4"	-		G13	G 1 1/2"	-						
G2	G 1 1/4"	G 1 1/4"		G14	G 1 1/2"	G 1 1/4"						
G4	1 1/4" NPT	-		G15	1 1/2" NPT	-						
G5	1 1/4" NPT	1 1/4" NPT		G16	1 1/2" NPT	1 1/4" NPT						
G7	SAE 20 - 1 5/8" - 12 UN	-		F1	1 1/2" SAE 3000 psi/M	-						
G8	SAE 20 - 1 5/8" - 12 UN	SAE 20 - 1 5/8" - 12 UN		F2	1 1/2" SAE 3000 psi/UNC	-						
G10	SAE 24 - 1 7/8" - 12 UN	-		F3	1 1/2" SAE 3000 psi/M	1 1/2" SAE 3000 psi/M						
G11	SAE 24 - 1 7/8" - 12 UN	SAE 20 - 1 5/8" - 12 UN		F4	1 1/2" SAE 3000 psi/UNC	1 1/2" SAE 3000 psi/UNC						
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		•	•									
					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 1 A25 H B E P01								
MF180	MF190	Filter element with standard spigot	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					

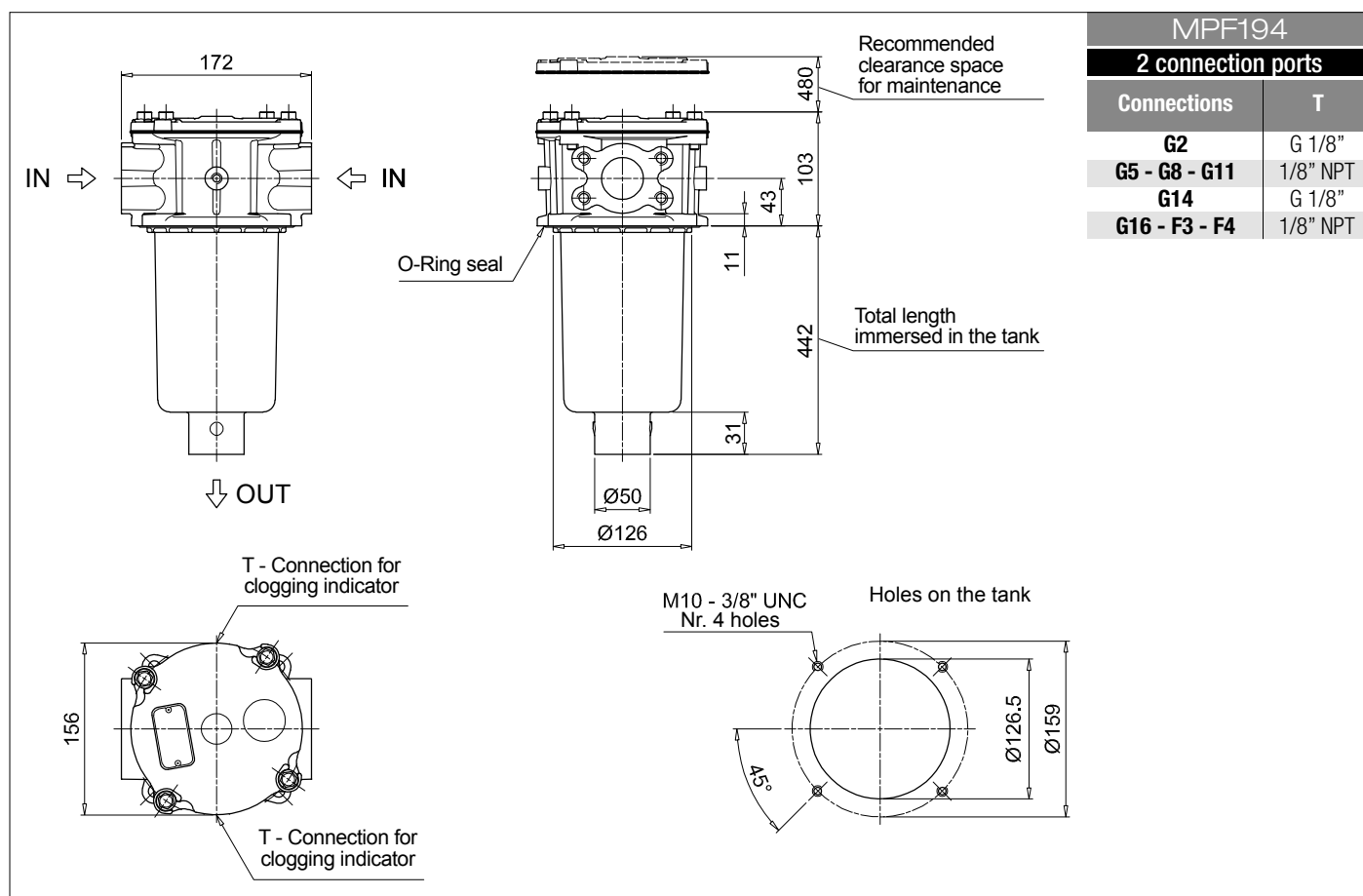
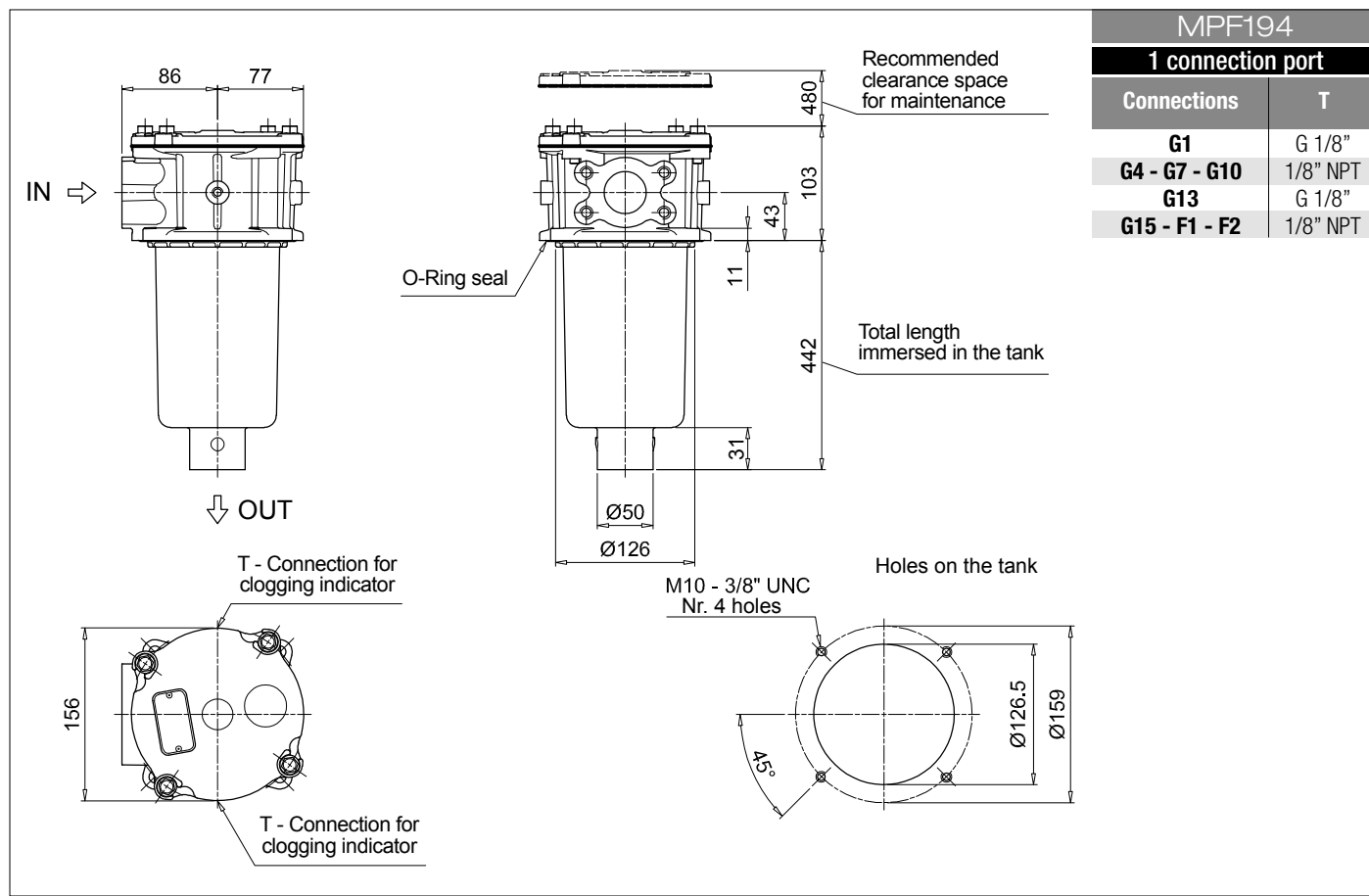
ACCESSORIES

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 MPF184 - MPF194

Dimensions

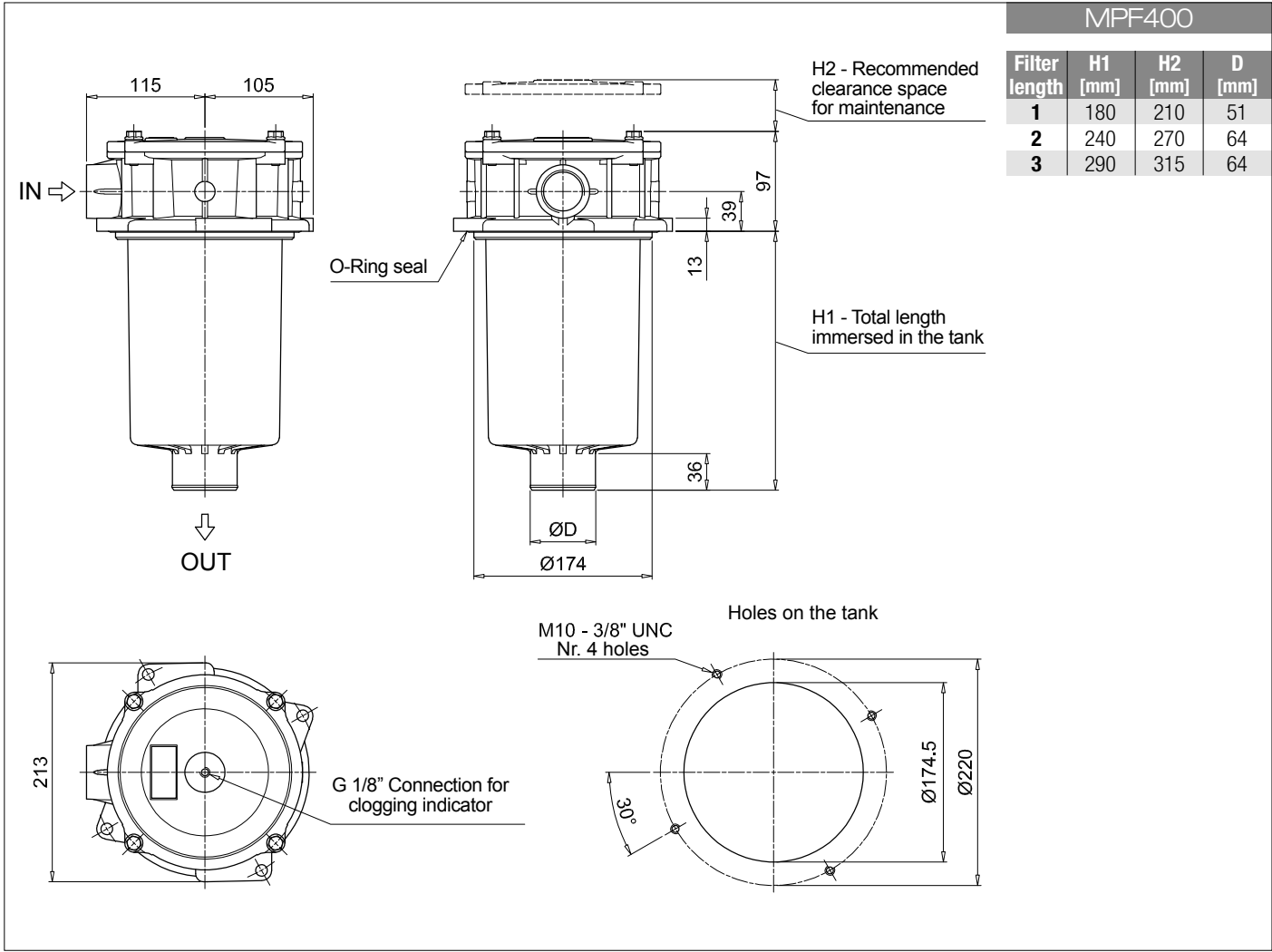


Series and size		Configuration example 1:		MPF400	1	A	G9	A25	H	B	P01	
MPF400 Filter element with standard spigot		Configuration example 2:		MPF400	2	V	G4	P10	N	E	P01	
Length												
1 2 3												
Seals and treatments												
A NBR												
V FPM												
W NBR head anodized												
Z FPM head anodized												
Connections												
G1 G 1 1/4"		G6 2" NPT										
G2 G 1 1/2"		G7 SAE 20 - 1 5/8" - 12 UN										
G3 G 2"		G8 SAE 24 - 1 7/8" - 12 UN										
G4 1 1/4" NPT		G9 SAE 32 - 2 1/2" - 12 UN										
G5 1 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										
Element Δp		Filter media										
		Axx	Mxx	Pxx								
N 10 bar			•	•								
H 10 bar		•										
W 10 bar, compatible with fluids HFA, HFB and HFC		•	•									
		Bypass valve										
		E 3 bar										
		B 1.75 bar										
		Execution										
		P01 MP Filtri standard										
		Pxx Customized										

Element series and size	Configuration example 1:						MF400	1	A25	H	B		P01
MF400 Filter element with standard spigot	Configuration example 2:						MF400	2	P10	N	V	E	P01
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												
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												

Indicators		page
BVA	Axial pressure gauge	240
BVR	Radial pressure gauge	240
BVP	Visual pressure indicator with automatic reset	241
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



Designation & Ordering code

COMPLETE FILTER

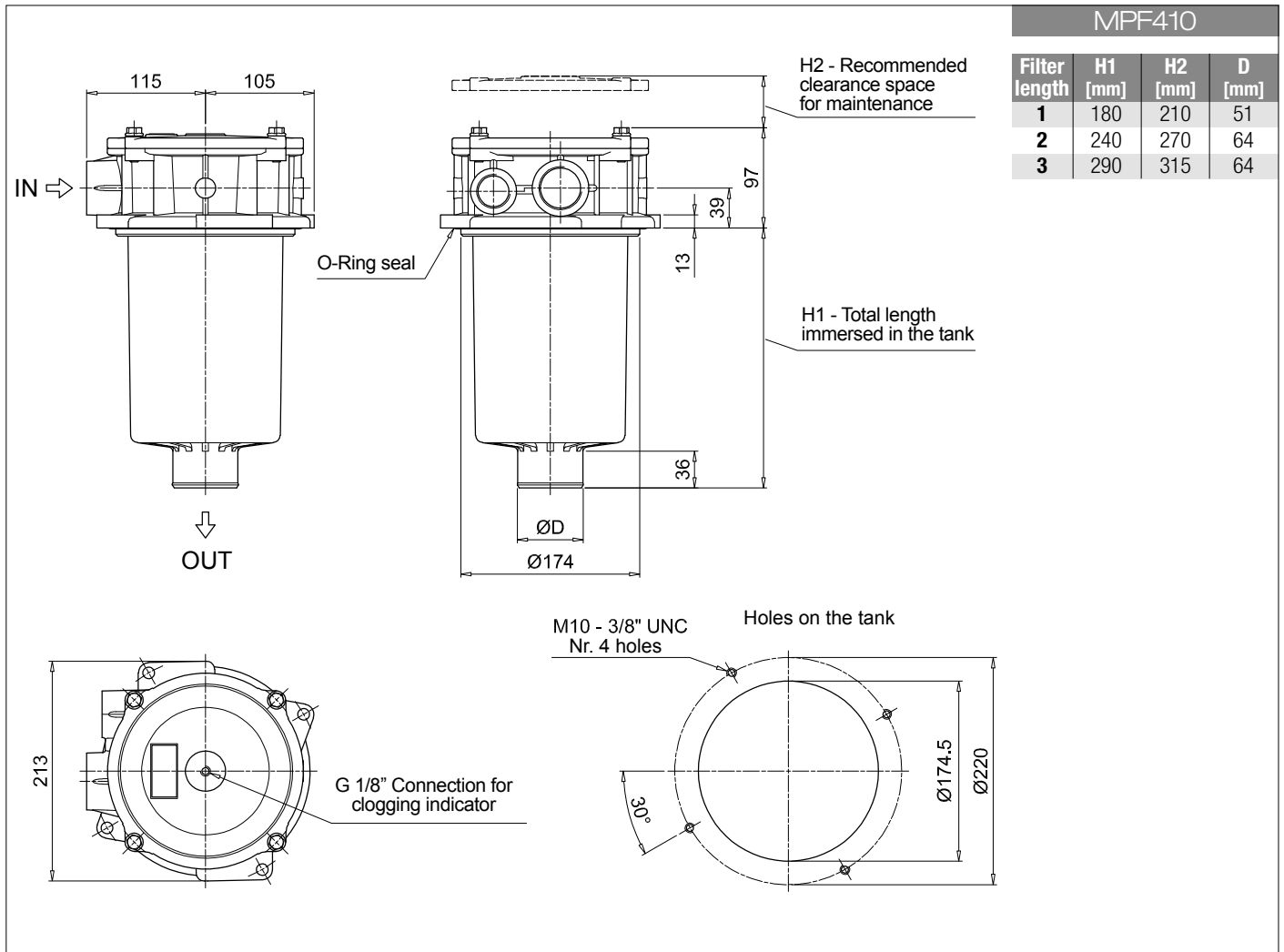
Series and size	Configuration example 1:	MPF410	1	A	G1	1	A25	H	B	P01
MPF410 Filter element with standard spigot	Configuration example 2:	MPF410	1	V	G4	1	P10	N	E	P01
Length										
1 2 3										
Seals and treatments										
A NBR										
V FPM										
W NBR head anodized										
Z FPM head anodized										
Main Connections	Aux size 1									
G1 G 1 1/4"	G 1"									
G4 1 1/4" NPT	1" NPT									
G7 SAE 20 - 1 5/8" - 12 UN	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	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		•	•							
	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	1	A25	H	B		P01
MF400 Filter element with standard spigot	Configuration example 2:	MF400	1	P10	N	V	E	P01
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	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			



MPF MPF450 - MPF451 - MPF750

Designation & Ordering code

COMPLETE FILTER

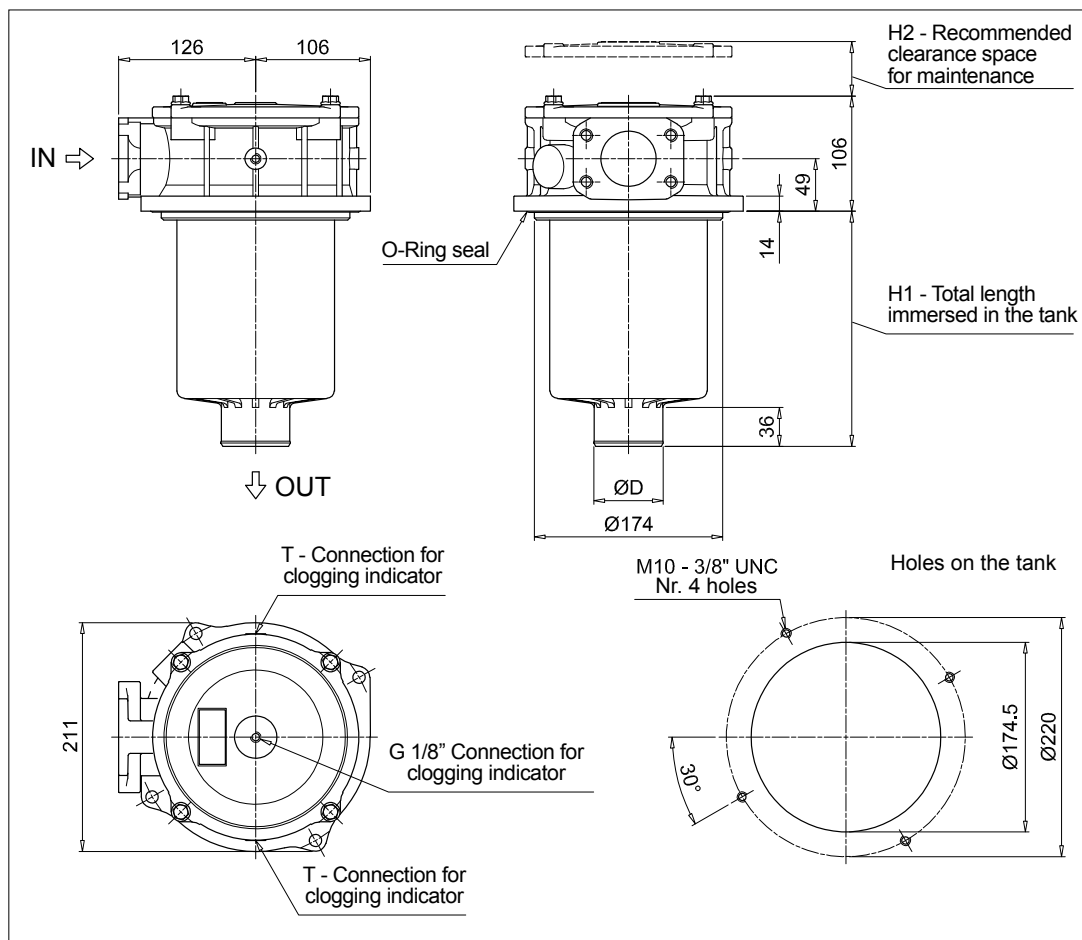
Series and size				Configuration example 1:							
MPF450	MPF451	MPF750	Filter element with standard spigot	Configuration example 2:							
				MPF450	1	A	G1	A25	H	B	P01
					1	V	F2	P10	N	E	P01
Length				MPF 450	MPF 451	MPF 750					
1				•	•	•					
2				•	•						
3				•	•						
Seals and treatments											
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 1 A25 H B P01							
MF400	MF750	Filter element with standard spigot		Configuration example 2: MFX750 1 P10 N V E P01							
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									
		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

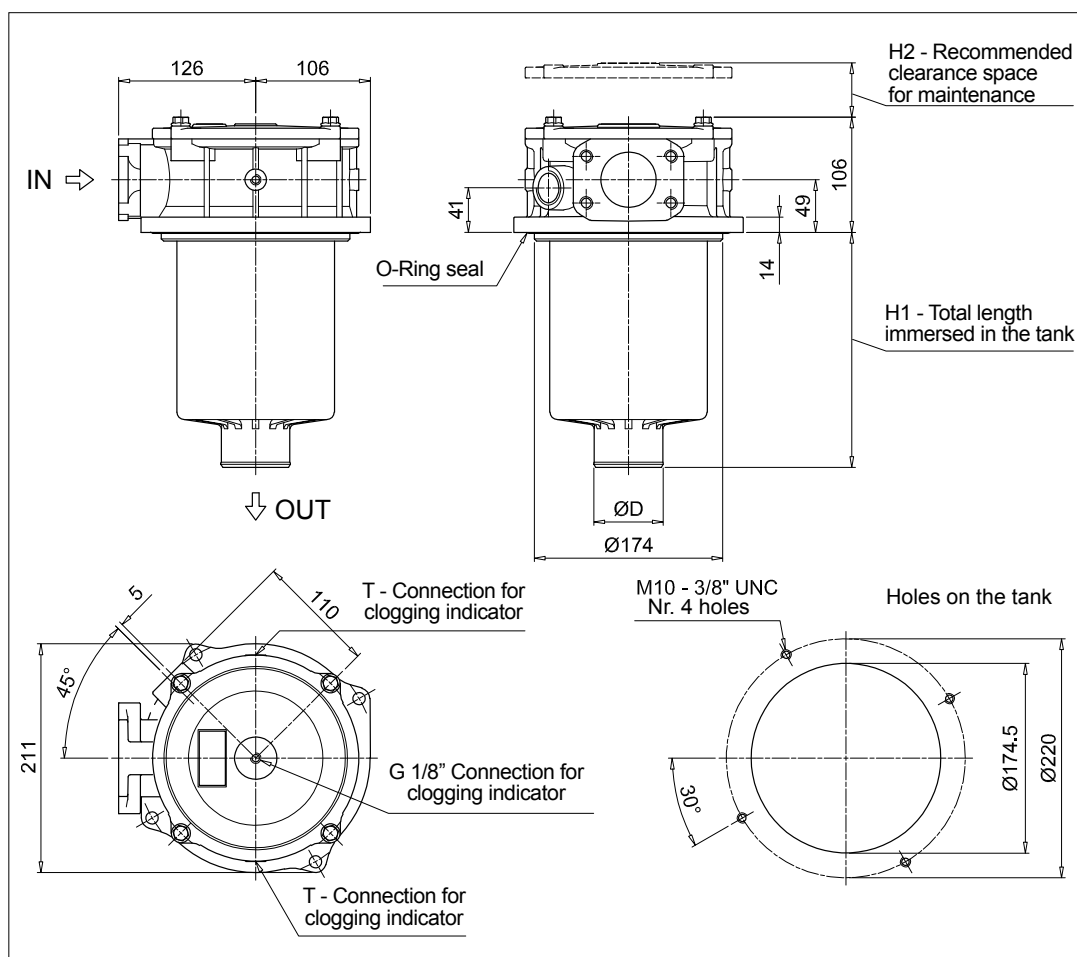
Indicators		page			page
BVA	Axial pressure gauge	240	BEA	Electrical pressure indicator	239
BVR	Radial pressure gauge	240	BEM	Electrical pressure indicator	239
BVP	Visual pressure indicator with automatic reset	241	BLA	Electrical / visual pressure indicator	239-240
BVQ	Visual pressure indicator with manual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



MPF450

Filter length	H1 [mm]	H2 [mm]	D [mm]
1	180	210	51
2	240	270	64
3	290	315	64

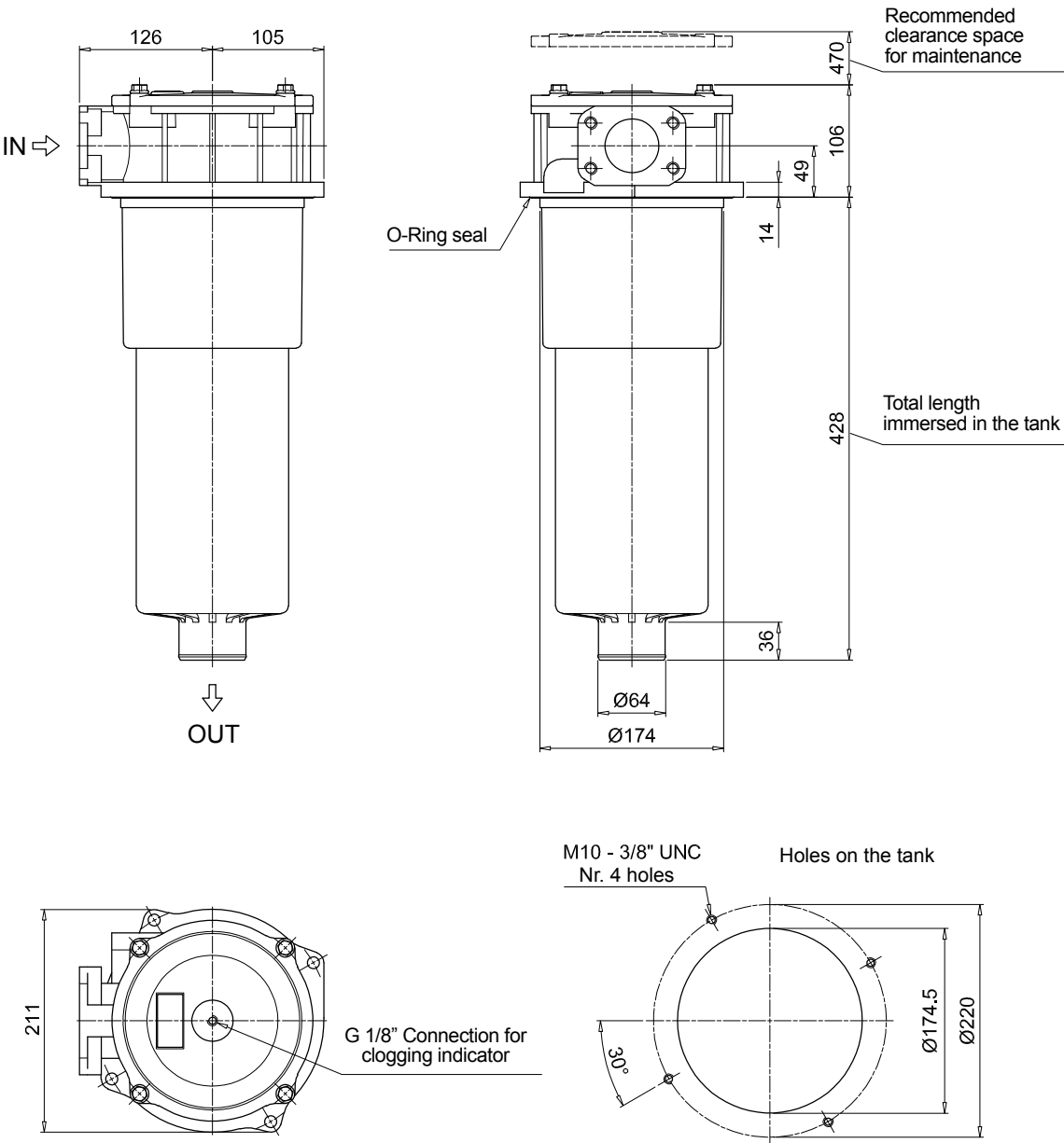
Connections	T
G1	G 1/8"
G4 - G7	1/8" NPT
F1	G 1/8"
F2	1/8" NPT



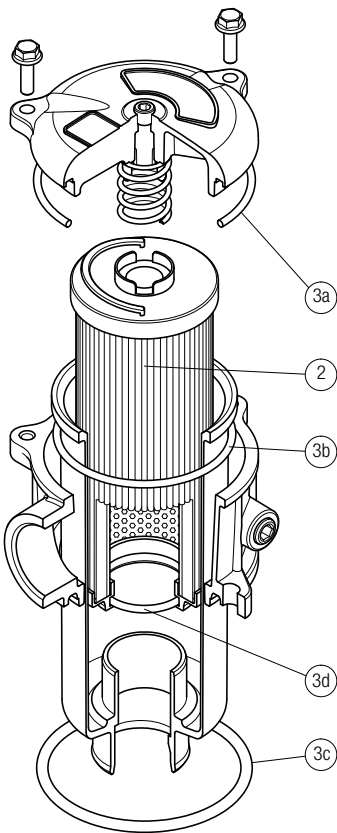
MPF451

Filter length	H1 [mm]	H2 [mm]	D [mm]
1	180	210	51
2	240	270	64
3	290	315	64

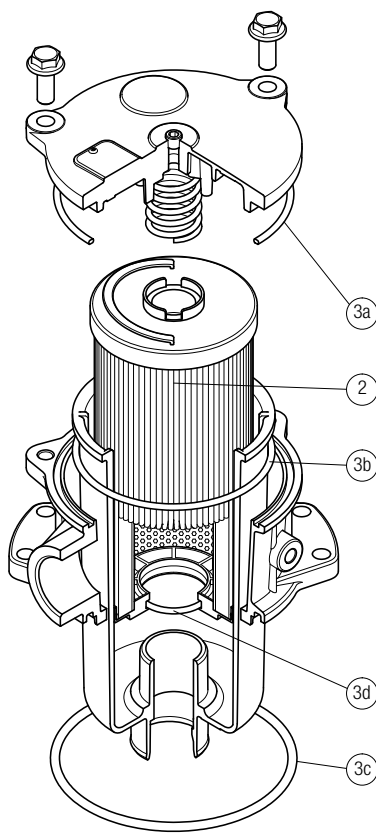
Connections	T
G1	G 1/8"
G4 - G7	1/8" NPT
F1	G 1/8"
F2	1/8" NPT



MPF 100



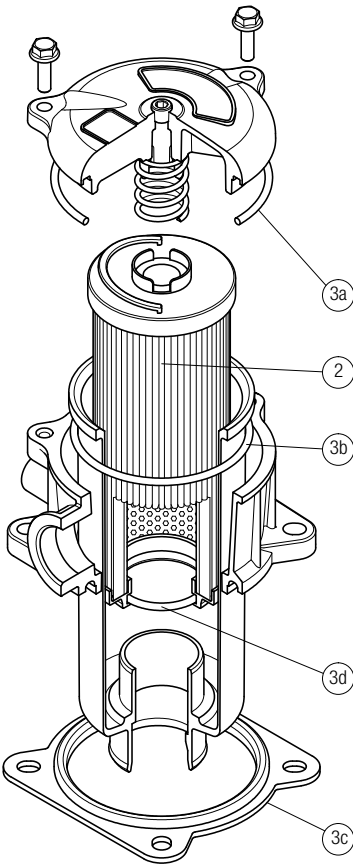
MPF 181



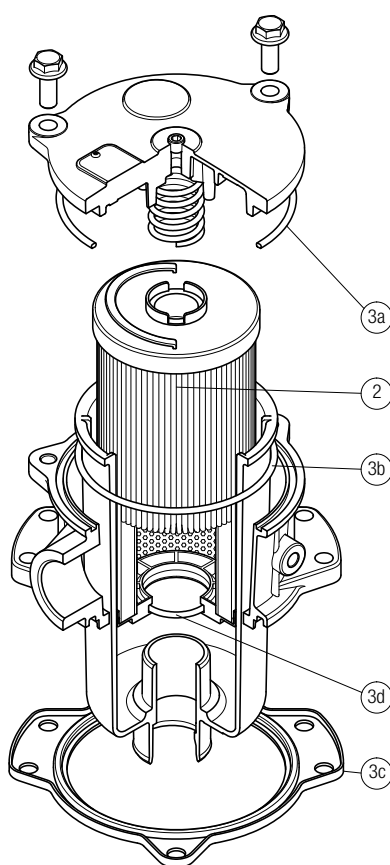
O-RING SEAL

Q.ty: 1 pc.		Q.ty: 1 pc.	
Item:	2	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.		Q.ty: 1 pc.	
		2		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		