

MPFX series

Maximum pressure up to 8 bar - Flow rate up to 750 l/min



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

The pressure drop calculation is performed by adding together the value of the housing with the value of the filter element. The pressure drop in the housing is proportional to the fluid density (kg/dm³); all the graphs in the catalogue are referred to mineral oil with density of 0.86 kg/dm³.

The filter element pressure drop is proportional to its viscosity (mm²/s), the corrective factor Y is related to an oil viscosity different than 30 mm²/s.

Sizing data for single cartridge, head at top

Δp_c = Filter housing pressure drop [bar]

Δp_e = Filter element pressure drop [bar]

Y = Multiplication factor Y (see correspondent table), depending on the filter element size, on the filter element length and on the filter media

Q = flow rate (l/min)

V1 reference viscosity = 30 mm²/s (cSt)

V2 = operating viscosity in mm²/s (cSt)

$\Delta p_e = Y : 1000 \times Q \times (V2/V1)$

$\Delta p_{Tot.} = \Delta p_c + \Delta p_e$

Calculation examples with HLP Mineral oil Variation in viscosity

Application data:

Top tank return filter

Filter with in-line connections

Pressure Pmax = 10 bar

Flow rate Q = 120 l/min

Viscosity V2 = 46 mm²/s (cSt)

Oil viscosity = 0.86 kg/dm³

Required filtration efficiency = 25 µm with absolute filtration

With bypass valve and 1 1/4" inlet connection

From the working pressure and the flow rate we understand it should be possible using the following top tank return filter series: MPT, MPH and FRI. Let's proceed with MPT series.

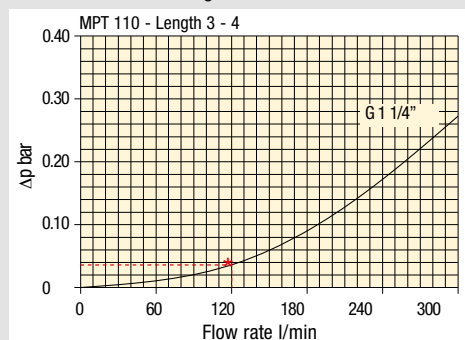
The size 20 doesn't achieve the required flow rate, therefore we have to consider the size 100. The final version of size 100 (101, 104, 110, 120 and 114) will be then defined in function of the mounting characteristics.

$\Delta p_c = 0.03 \text{ bar}$ (★ see graphic below, considering size 100 with the max available length to get the lowest pressure drop)

$\Delta p_e = (2.0 : 1000) \times 120 \times (46/30) = 0.37 \text{ bar}$

$\Delta p_{Tot.} = 0.03 + 0.37 = 0.4 \text{ bar}$

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



Filter housings Δp pressure drop.

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

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

Reference viscosity 30 mm²/s

Return filters

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

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

Reference viscosity 30 mm²/s

Suction filters

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

Return / Suction filters

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

Low & Medium pressure filters

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

FILTER SIZING Corrective factor

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

Reference viscosity 30 mm²/s

High pressure filters

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

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

Stainless steel high pressure filters

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

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

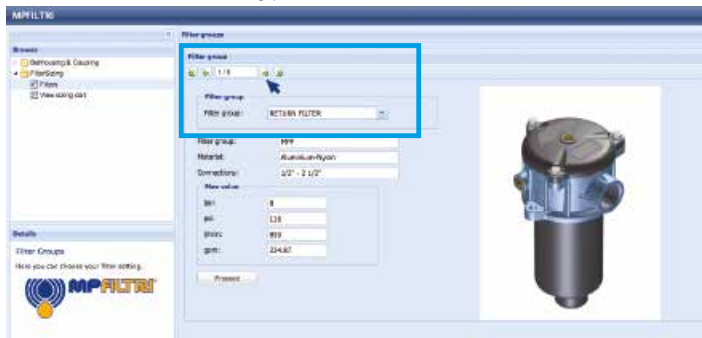
Step 1 Select "FILTERS"



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



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



Step 4 Push "PROCEED"



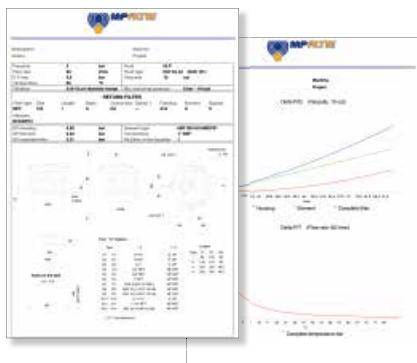
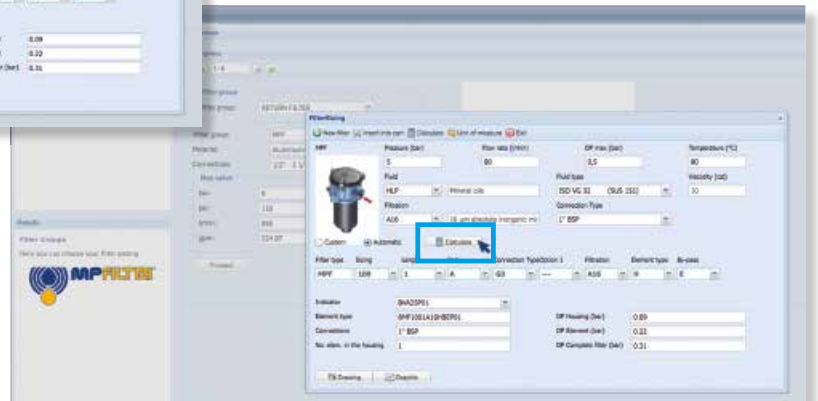
Step 5

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

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

Step 6

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



Step 7

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



THE NEW FILTER CONCEPT

MPFX
MPTX
MFBX
MFX
series

NEW FILTER ELEMENT WITH EXCLUSIVE INTERFACE CONNECTION

- ◆ **Protects the machine from improper use of non-original products.**
- ◆ **Safety of constant quality protection & reliability**

With exclusive filter element you are sure that only filter elements MP Filtri can be used, ensuring the best cleaning level of the oil due to the use of originals filter elements.



Filter element featuring our UNIQUE end cap with polygonal design.



UNIQUE polygonal spigot fitting within the filter bowl.

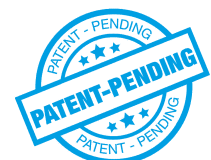
The products identified as MPFX, MPTX, MFBX and MFX are protected by one or more of the following patent applications:

European Patent Pending: n° 16181725.9

Italian Patent Pending: n° 102015000040473

US Patent Pending: n° 15/224,337

Canadian Patent Pending: n° 2,937,258



MPFX series

Maximum pressure up to 8 bar - Flow rate up to 750 l/min



MPFX GENERAL INFORMATION

Technical data

Return filter Maximum pressure up to 8 bar - Flow rate up to 750 l/min

Filter housing materials

- Head: Aluminium
- Cover: Nylon (only for: MPF 020-030-100-104-110)
Aluminium (the other insert assemblies)
- Bowl: Nylon

Seals

- Standard NBR series A
- Optional FPM series V

Pressure

Working pressure: up to 800 kPa (8 bar)

Temperature

From -25 °C to +110 °C

Bypass valve

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

Note

MPFX filters are provided for vertical mounting

Δp element type

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

Weights [kg] and volumes [dm³]

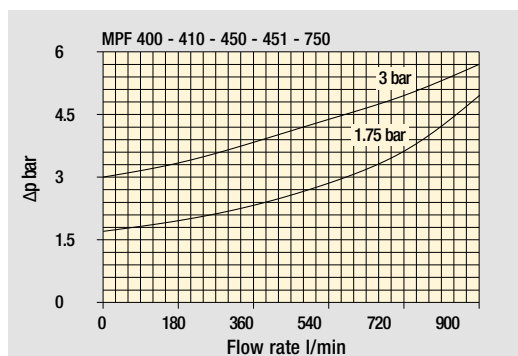
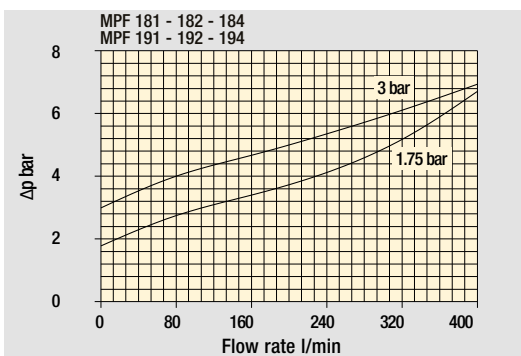
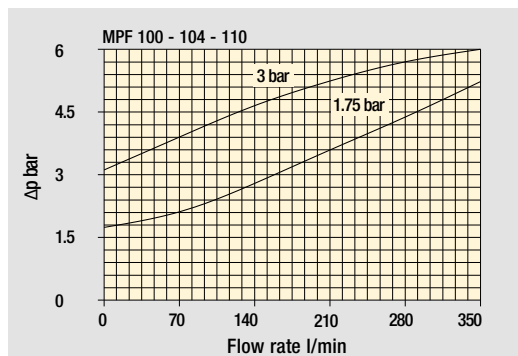
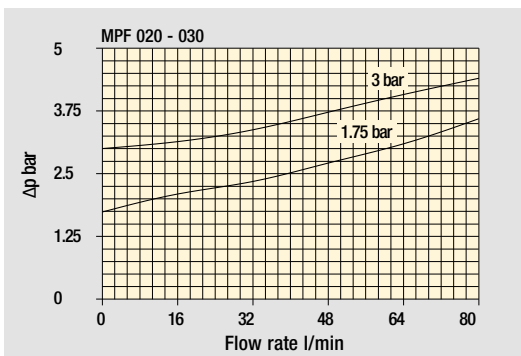
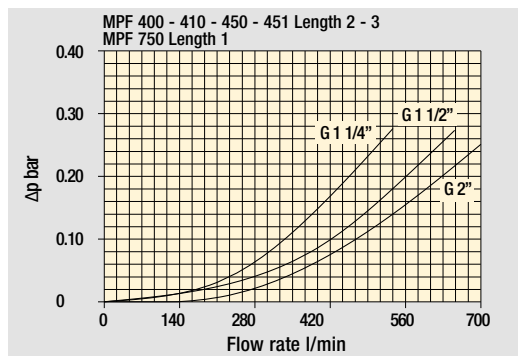
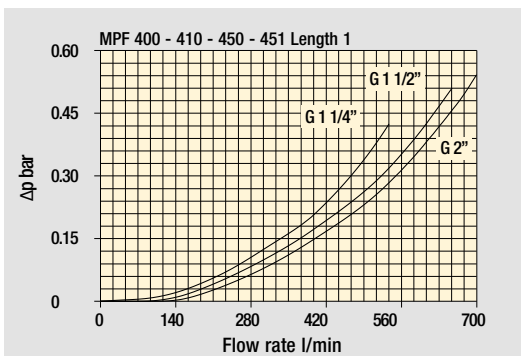
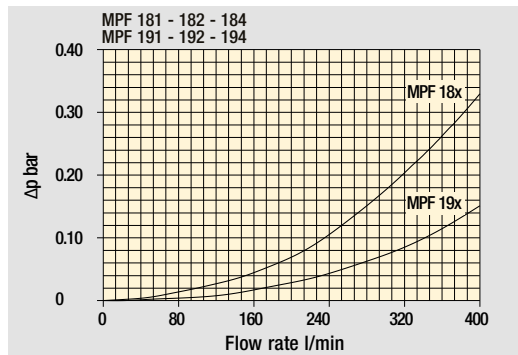
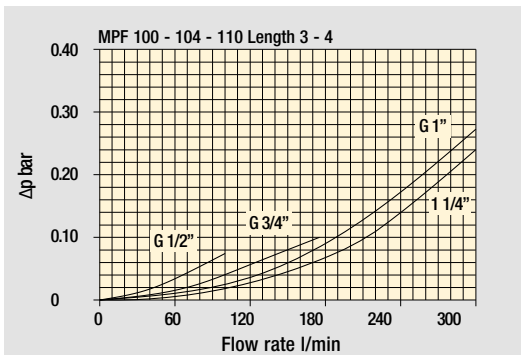
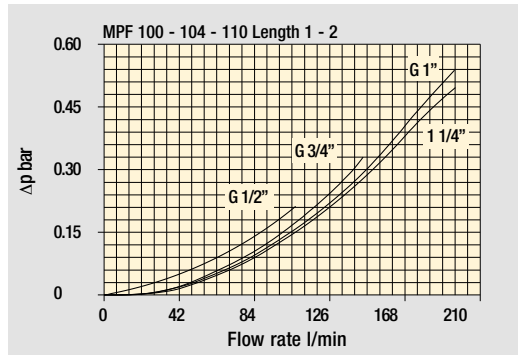
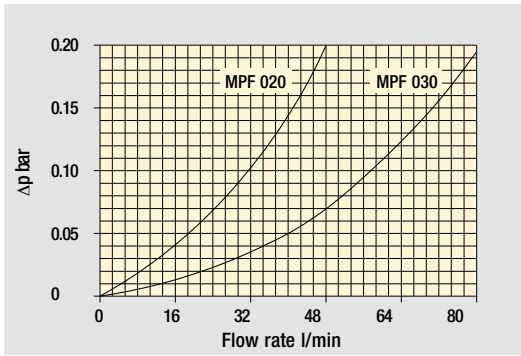
	Weights [kg]				Volumes [dm ³]					
	Lenght	1	2	3	4	Lenght	1	2	3	4
MPFX 030		0.40	-	-	-		0.29	-	-	-
MPFX 100		0.61	0.64	0.67	0.74		0.64	0.85	1.20	1.65
MPFX 104		0.82	0.96	1.02	1.25		0.64	0.85	1.20	1.65
MPFX 110		0.64	0.68	0.71	0.78					
MPFX 181		2.20	3.00	-	-		2.50	4.00	-	-
MPFX 182		2.30	3.10	-	-	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

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

Δp varies proportionally with density.

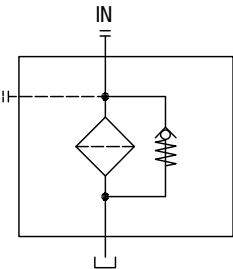
Pressure drop

Filter housings Δp pressure drop

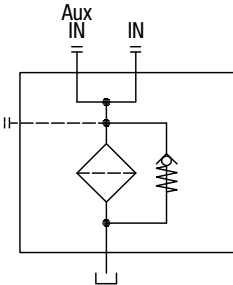


Bypass valve pressure drop

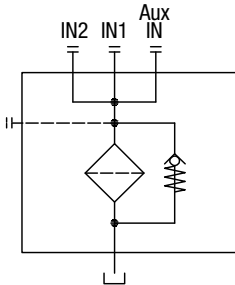
Style
1 connection



Style
2 connections



Style
3 connections



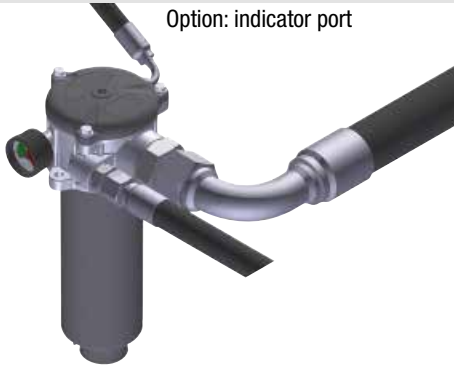
Standard - Single IN port



Double IN port
Option: double indicator port



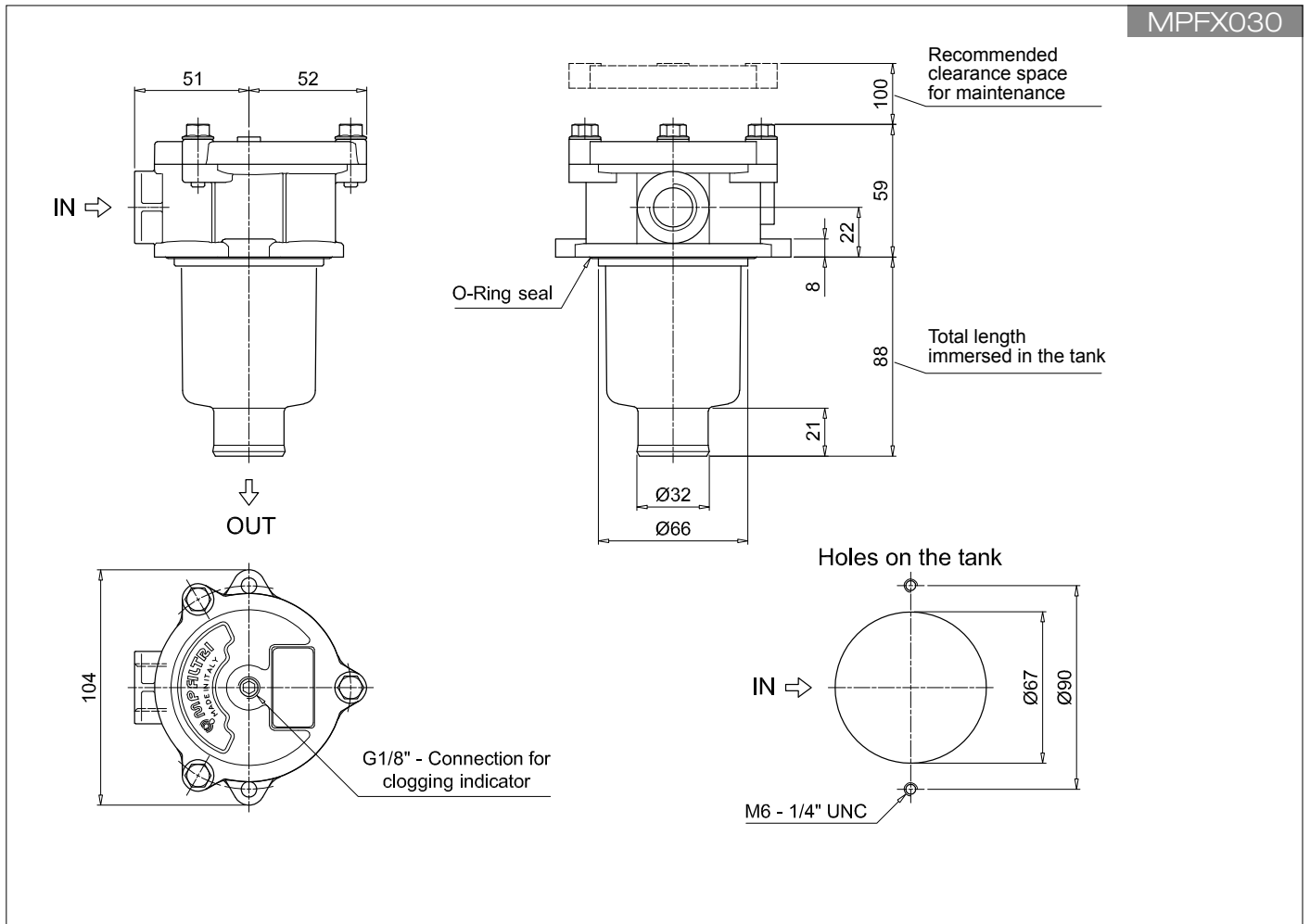
Double IN port - Drain port
Option: indicator port



Double IN port - Double drain port



MPFX030



MPFX MPFX100 - MPFX104

Designation & Ordering code

COMPLETE FILTER

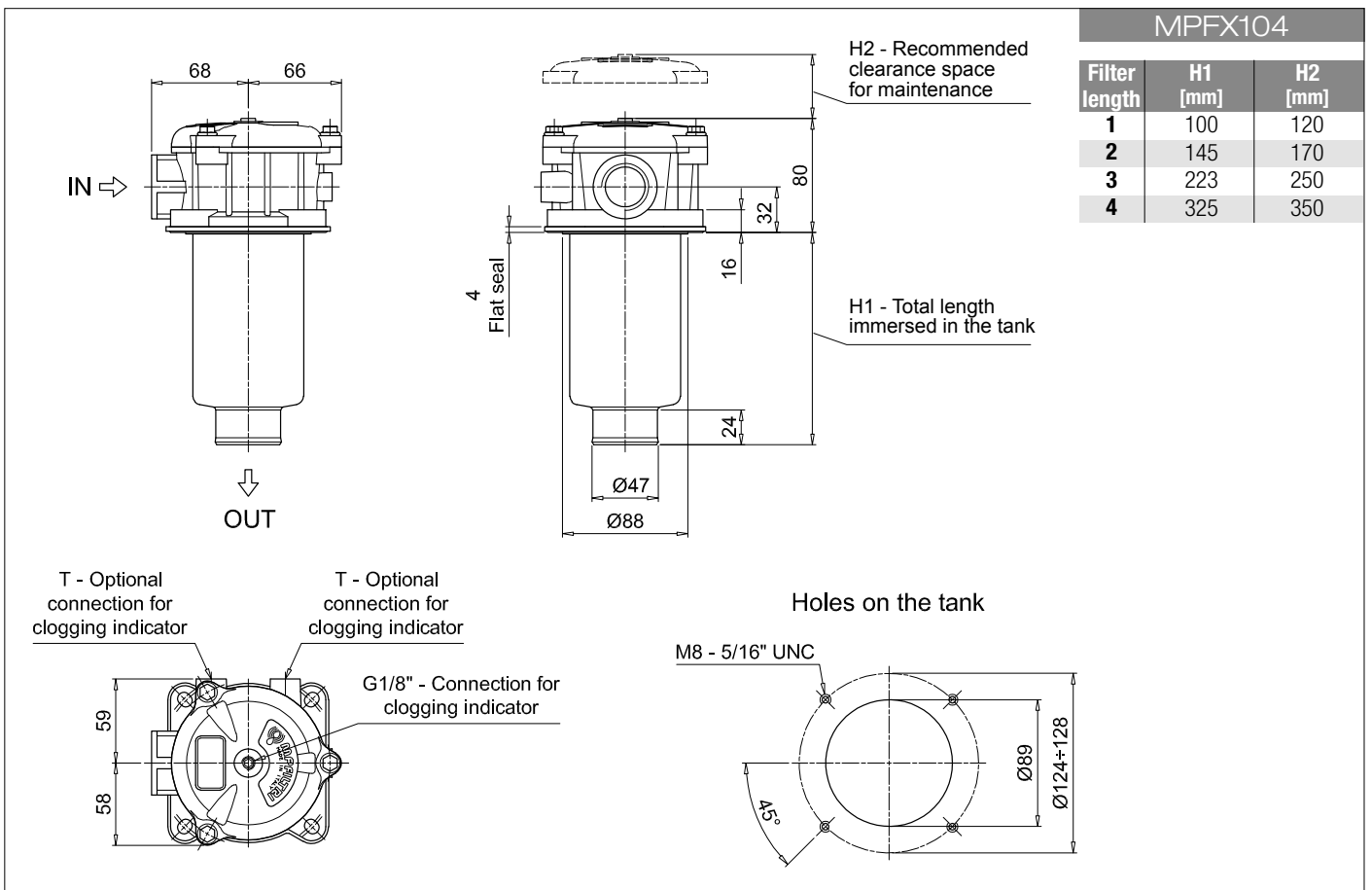
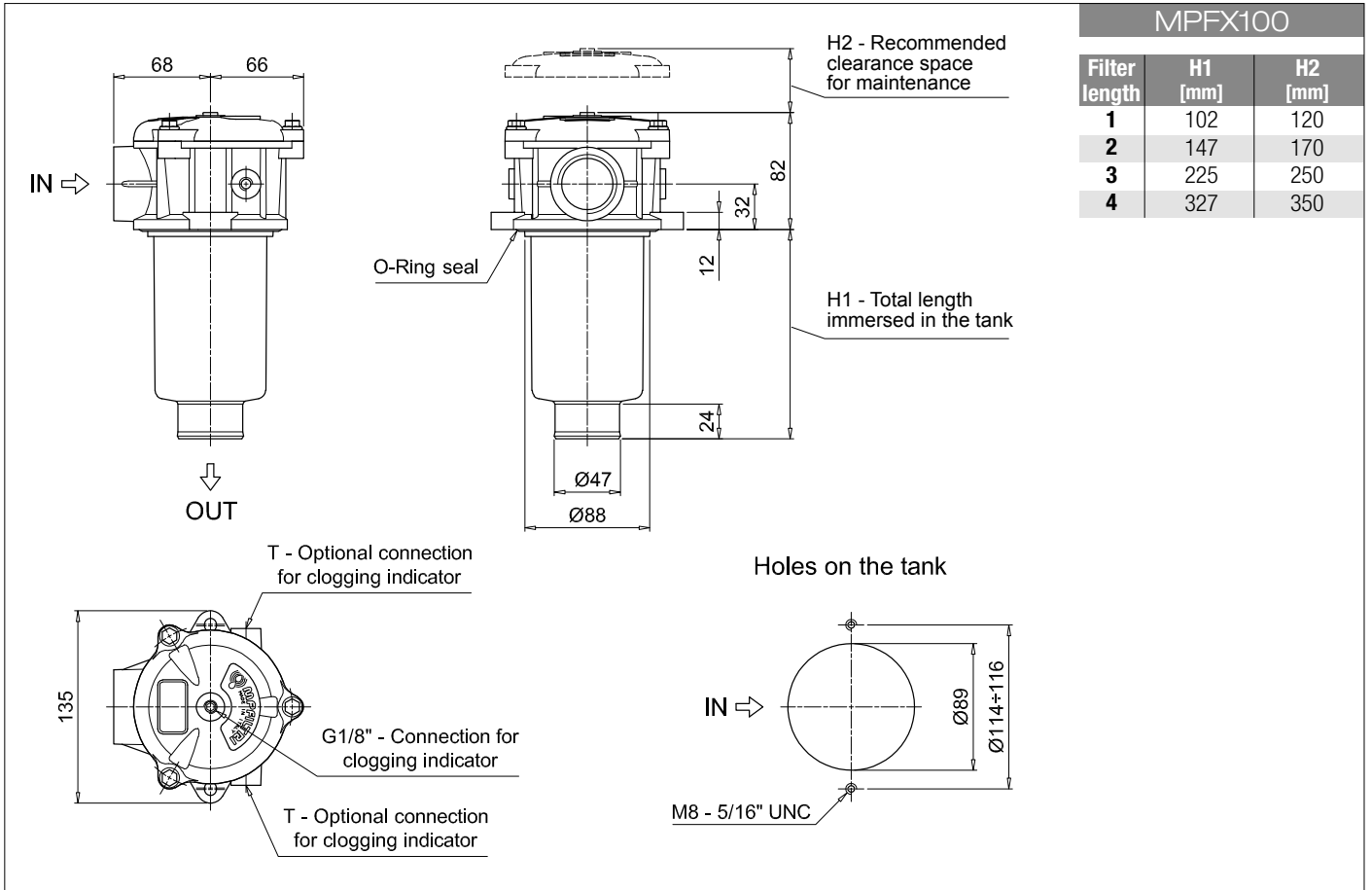
Series and size		Configuration example 1: MPFX100 2 W G3 A06 W B P01										
MPFX100 MPFX104 Filter element with private spigot		Configuration example 2: MPFX104 4 A G8 P10 N E P01										
Length												
1 2 3 4												
Seals and treatments												
A NBR												
V FPM												
W NBR head anodized												
Z FPM head anodized												
Connections		Size 100		Size 104		Connections		Size 100		Size 104		
G1 G1/2"		•		•		G7 SAE 8 - 3/4" - 16 UNF		•		•		
G2 G3/4"		•		•		G8 SAE 12 - 1 1/16" - 12 UN		•		•		
G3 G1"		•		•		G9 SAE 16 - 1 5/16" - 12 UN		•		•		
G4 1/2" NPT		•		•		G10 G1 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								

FILTER ELEMENT

Element series and size		Configuration example 1: MPFX100 2 A06 W B P01										
MPFX100 Filter element with private spigot		Configuration example 2: MPFX100 4 P10 N B E 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										
		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		216	BEA Electrical pressure indicator		215
BVR Radial pressure gauge		216	BEM Electrical pressure indicator		215
BVP Visual pressure indicator with automatic reset		217	BLA Electrical / visual pressure indicator		215-216
BVQ Visual pressure indicator with manual reset		217			
Additional features		page		page	
TE Extension tube		224	T5 Filler plug M30x1.5		225
DFS Diffuser with fast lock connection		225	DPT Dipstick		225



Designation & Ordering code

COMPLETE FILTER

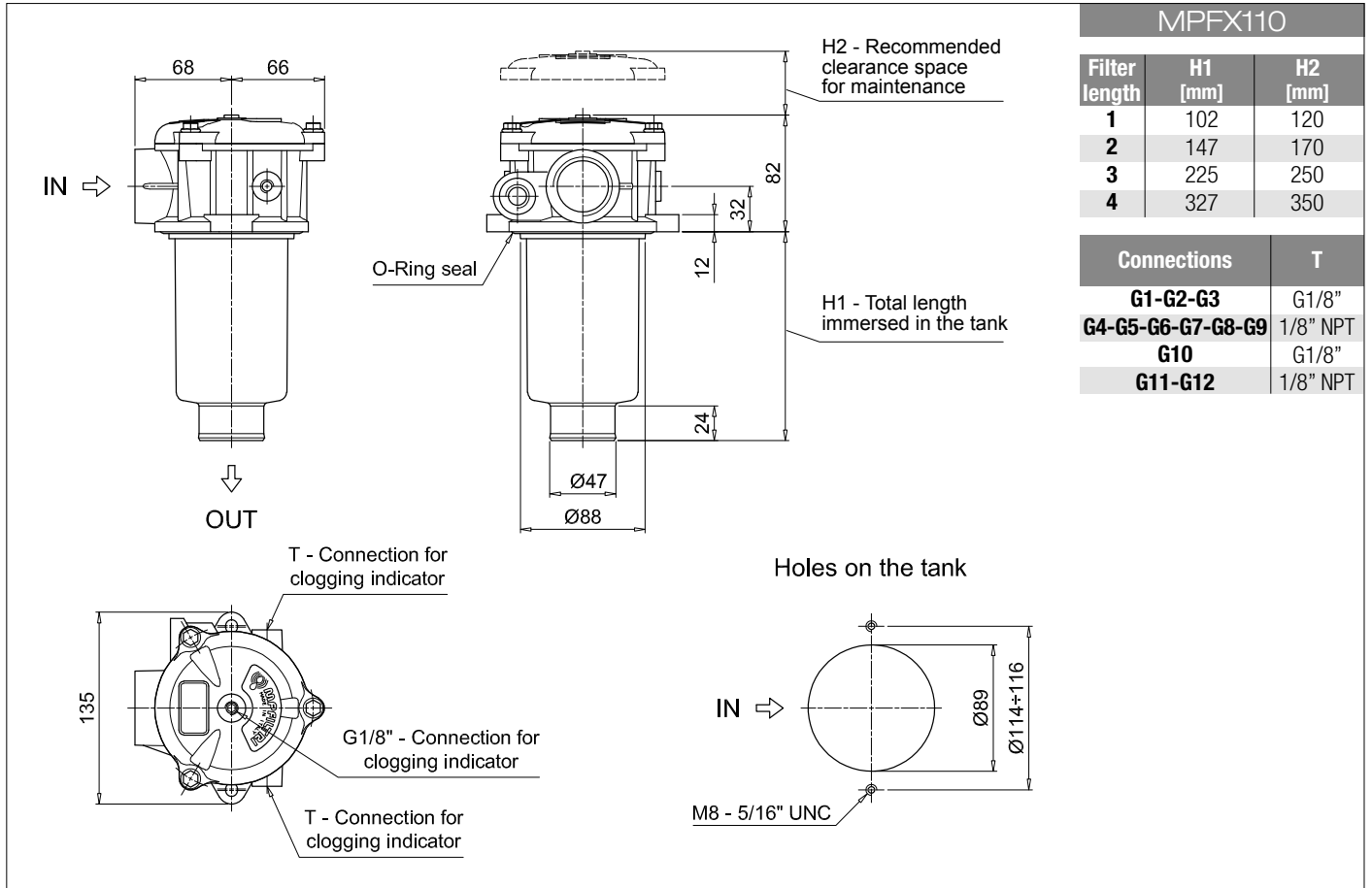
Series and size			Configuration example 1: MPFX110 3 Z G4 2 M25 W B P01								
MPFX110 Filter element with private spigot			Configuration example 2: MPFX110 4 A G8 1 P10 N E P01								
Length											
1 2 3 4											
Seals and treatments											
A NBR			W NBR head anodized								
V FPM			Z FPM head anodized								
Main Connections			Main Connections			Aux size 1			Aux size 2		
G1 G1/2"			G7 SAE 8 - 3/4" - 16 UNF			SAE 6 - 9/16" - 18 UNF			SAE 8 - 3/4" - 16 UNF		
G2 G3/4"			G8 SAE 12 - 1 1/16" - 12 UN			SAE 6 - 9/16" - 18 UNF			SAE 8 - 3/4" - 16 UNF		
G3 G1"			G9 SAE 16 - 1 5/16" - 12 UN			SAE 6 - 9/16" - 18 UNF			SAE 8 - 3/4" - 16 UNF		
G4 1/2" NPT			G10 G1 1/4"			G3/8"			G1/2"		
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			Bypass valve			Execution		
N 10 bar			Axx Mxx Pxx			E 3 bar			P01 MP Filtri standard		
H 10 bar			•			B 1.75 bar			Pxx Customized		
W 10 bar, compatible with fluids HFA, HFB and HFC			• •								

FILTER ELEMENT

Element series and size			Configuration example 1: MPFX100 3 M25 W V P01											
MPFX100 Filter element with private spigot			Configuration example 2: MPFX100 4 P10 N B E 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			B 1.75 bar			Pxx Customized		
W 10 bar, compatible with fluids HFA, HFB and HFC			• •											

ACCESSORIES

Indicators		page			page
BVA Axial pressure gauge		216	BEA Electrical pressure indicator		215
BVR Radial pressure gauge		216	BEM Electrical pressure indicator		215
BVP Visual pressure indicator with automatic reset		217	BLA Electrical / visual pressure indicator		215-216
BVQ Visual pressure indicator with manual reset		217			
Additional features		page			page
TE Extension tube		224	T5 Filler plug M30x1.5		225
DFS Diffuser with fast lock connection		225	DPT Dipstick		225



MPFX MPFX181 - MPFX191

Designation & Ordering code

COMPLETE FILTER

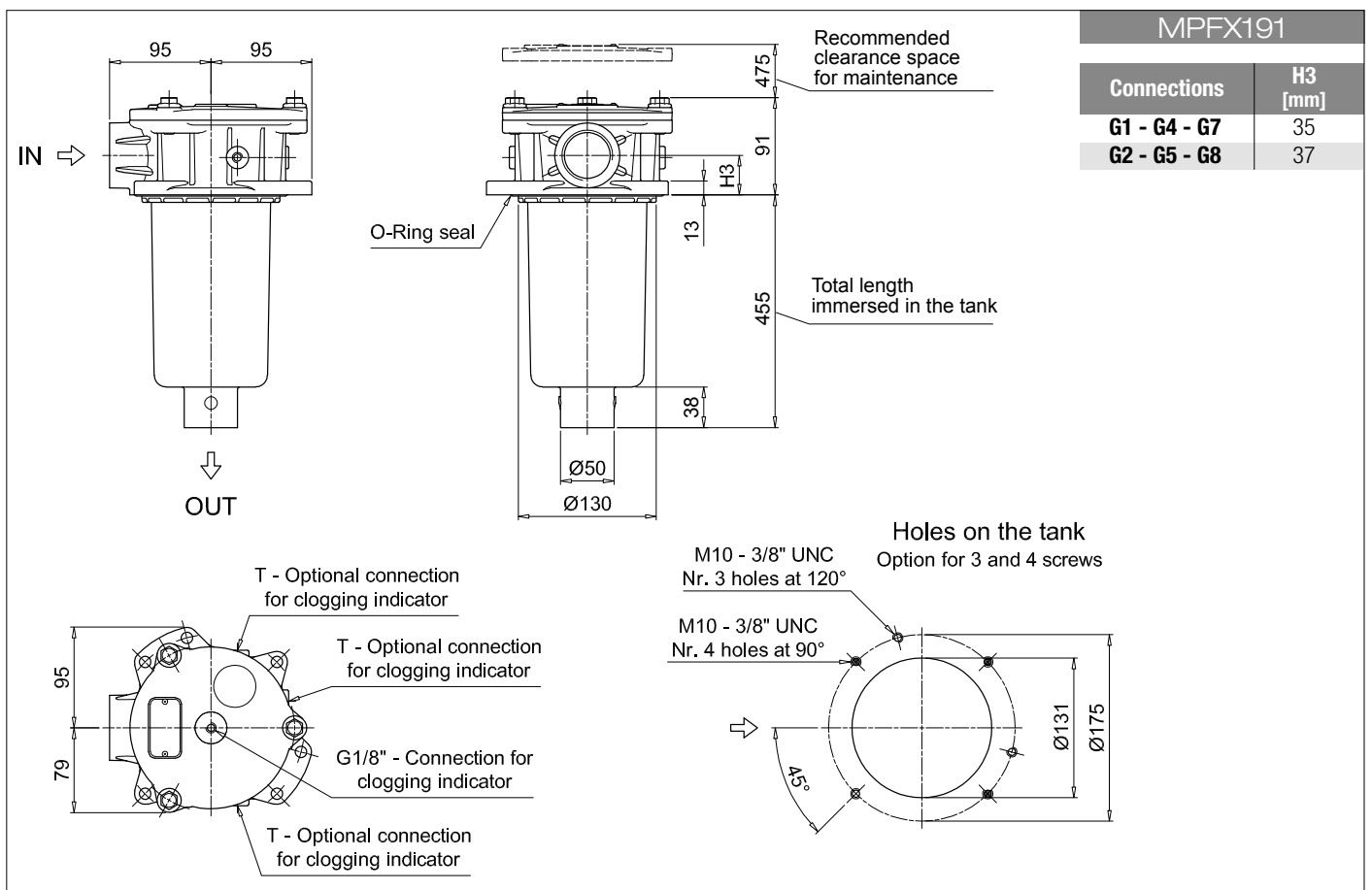
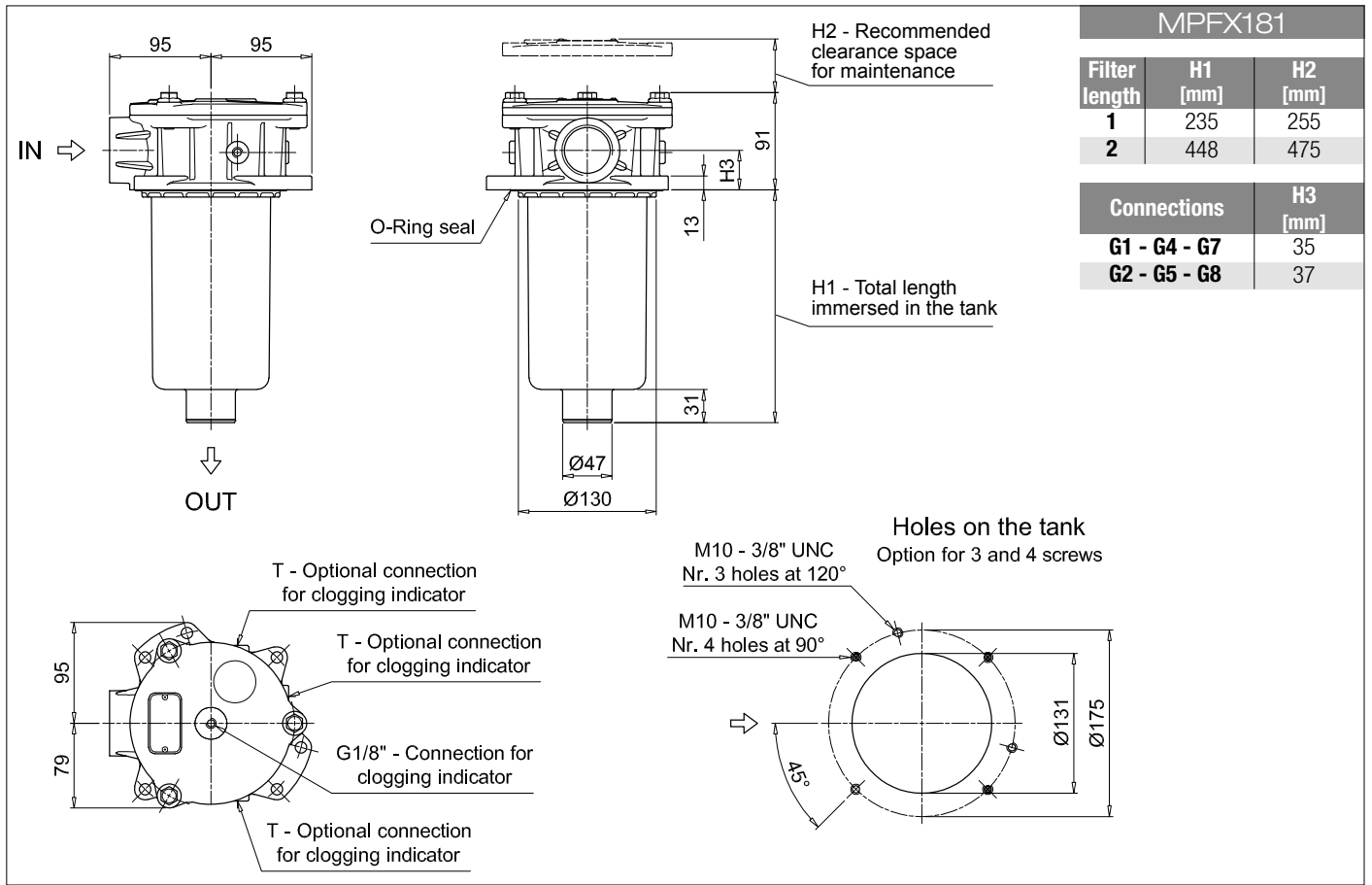
Series and size			Configuration example 1: MPFX181 1 A G1 A25 H E P01								
MPFX181 MPFX191 Filter element with private spigot			Configuration example 2: MPFX191 2 V G2 P10 N B P01								
Length		Size 181	Size 191								
1		•									
2		•	•								
Seals and treatments											
A NBR			B NBR flat 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 G1 1/4"			G5 1 1/2" NPT								
G2 G1 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								
	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: MFX180 1 A25 H B E P01								
MFX180 Filter element with private spigot			Configuration example 2: MFX180 2 P10 N V P01								
Element length											
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		216	BEA Electrical pressure indicator		215
BVR Radial pressure gauge		216	BEM Electrical pressure indicator		215
BVP Visual pressure indicator with automatic reset		217	BLA Electrical / visual pressure indicator		215-216
BVQ Visual pressure indicator with manual reset		217			
Additional features		page			
TE Extension tube		224			
T5 Filler plug M30x1.5		225			



MPFX MPFX182 - MPFX192

Designation & Ordering code

COMPLETE FILTER

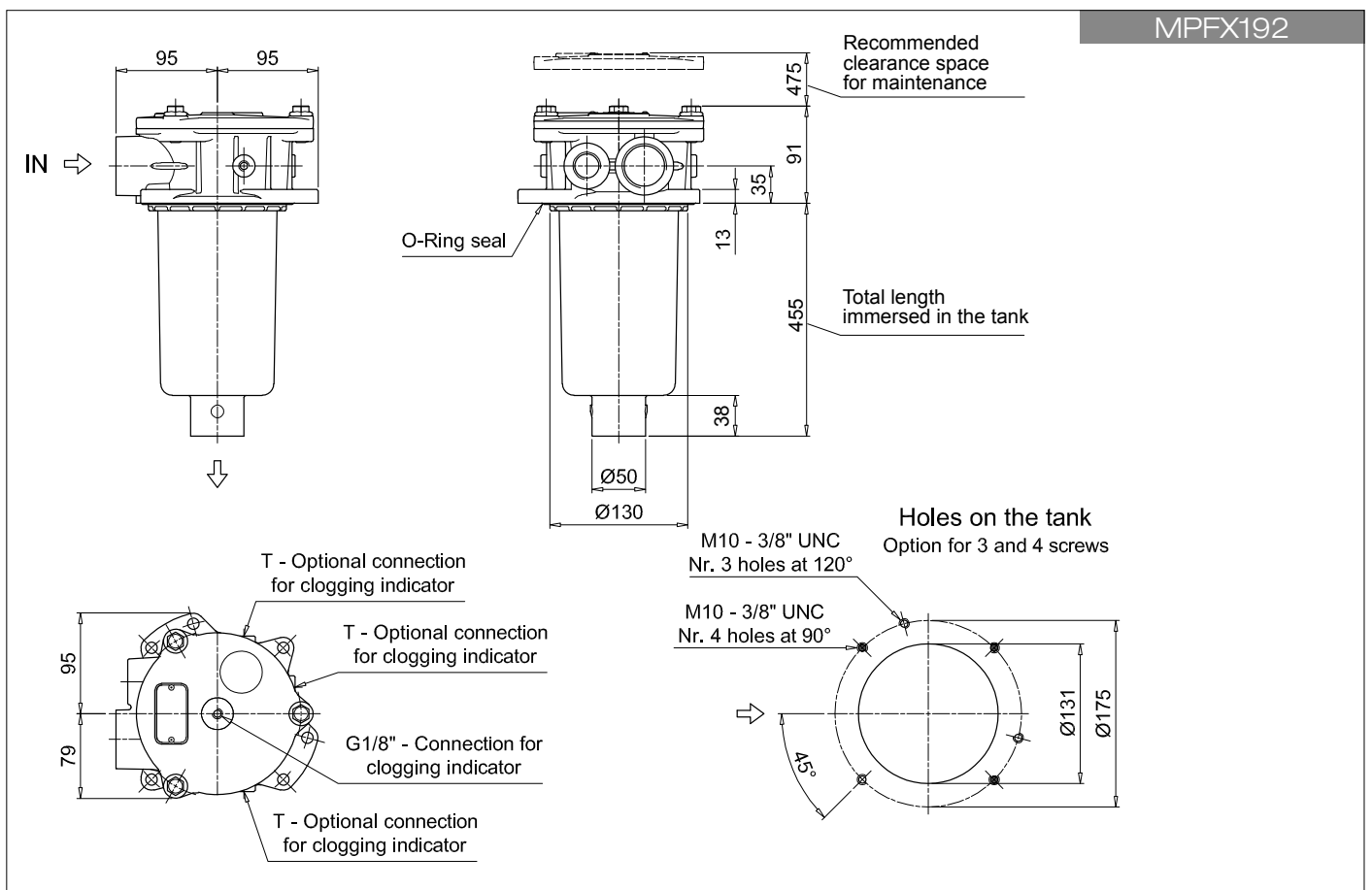
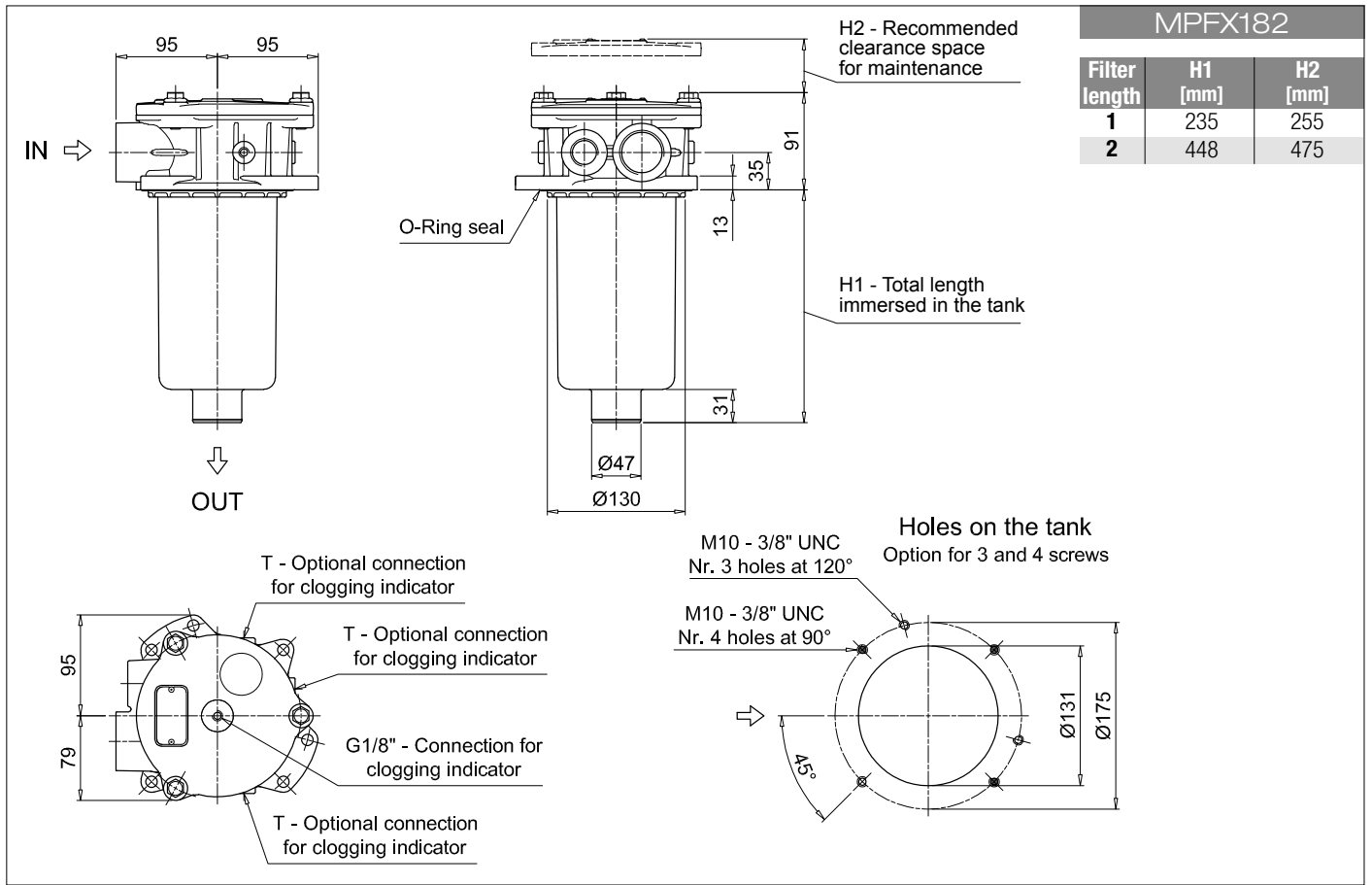
Series and size		Configuration example 1: MPFX182 1 A G1 1 A25 H E P01										
MPFX182 MPFX192 Filter element with private spigot		Configuration example 2: MPFX192 2 V G2 2 P10 N B P01										
Length	Size 182	Size 192										
1	•											
2	•	•										
Seals and treatments												
A NBR	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 G1 1/4"	G1/2"	G3/4"										
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: MFX180 1 A25 H B E P01									
MFX180 Filter element with private spigot		Configuration example 2: MFX180 2 P10 N V P01									
Element length											
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	216				BEA Electrical pressure indicator				215
BVR Radial pressure gauge	216				BEM Electrical pressure indicator				215
BVP Visual pressure indicator with automatic reset	217				BLA Electrical / visual pressure indicator				215-216
BVQ Visual pressure indicator with manual reset	217								
Additional features	page								
TE Extension tube	224								
T5 Filler plug M30x1.5	225								



MPFX MPFX184 - MPFX194

Designation & Ordering code

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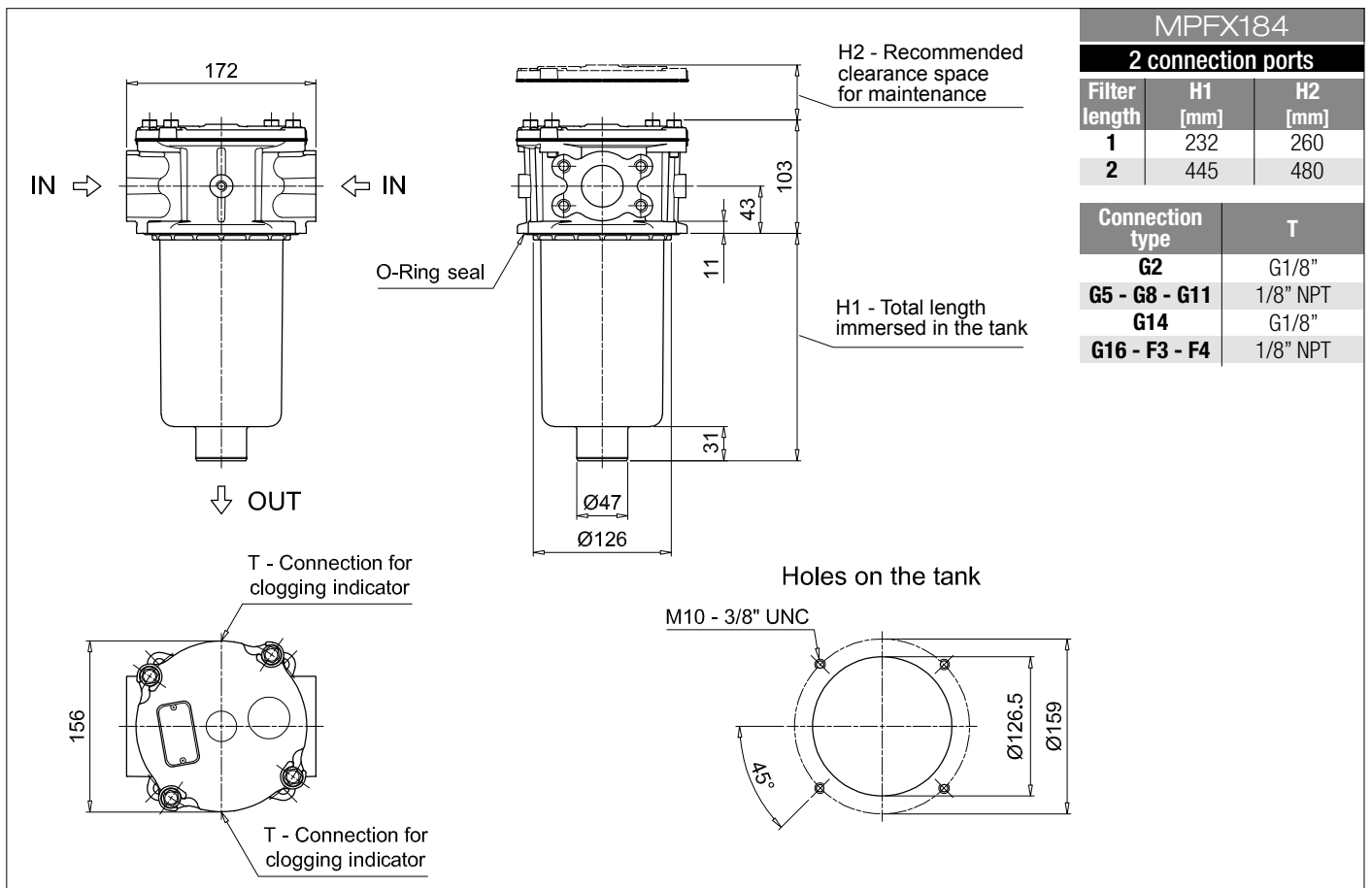
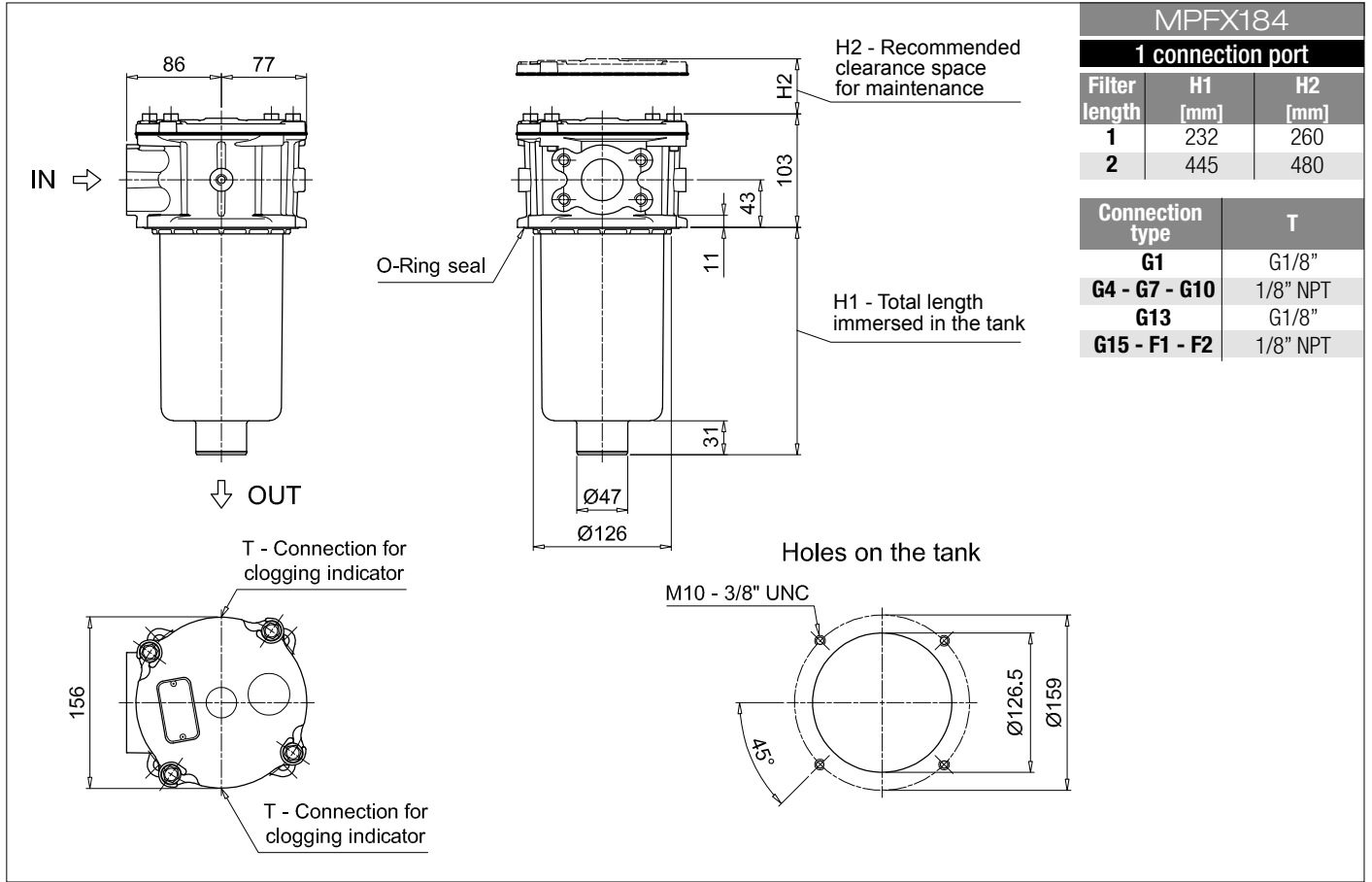
Series and size		Configuration example 1: MPFX184		1	A	G1	A25	H	E	P01
MPFX184 MPFX194 Filter element with private spigot		Configuration example 2: MPFX194		2	V	F3	P10	N	B	P01
Length		Size 184	Size 194							
1		•								
2		•	•							
Seals and treatments										
A NBR	W NBR	head anodized								
V FPM	Z FPM	head anodized								
Main Connections		Rear connections		Main Connections		Rear connections				
G1 G1 1/4"	-		G13 G1 1/2"	-						
G2 G1 1/4"	G1 1/4"		G14 G1 1/2"	G1 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								
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: MPFX180		1	A25	H	B	E	P01	
MPFX180 Filter element with private spigot		Configuration example 2: MPFX180		2	P10	N	V		P01	
Element length										
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				

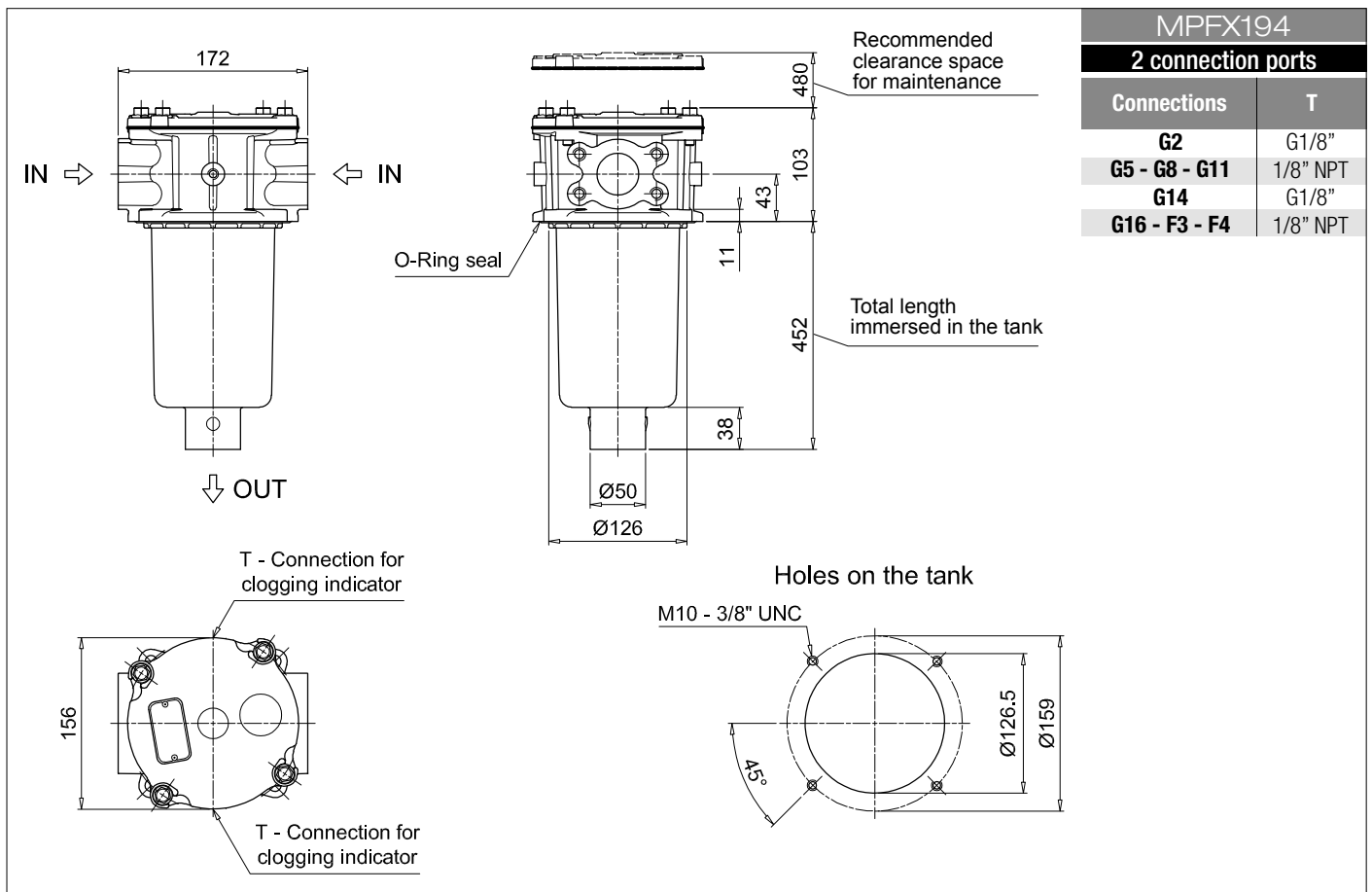
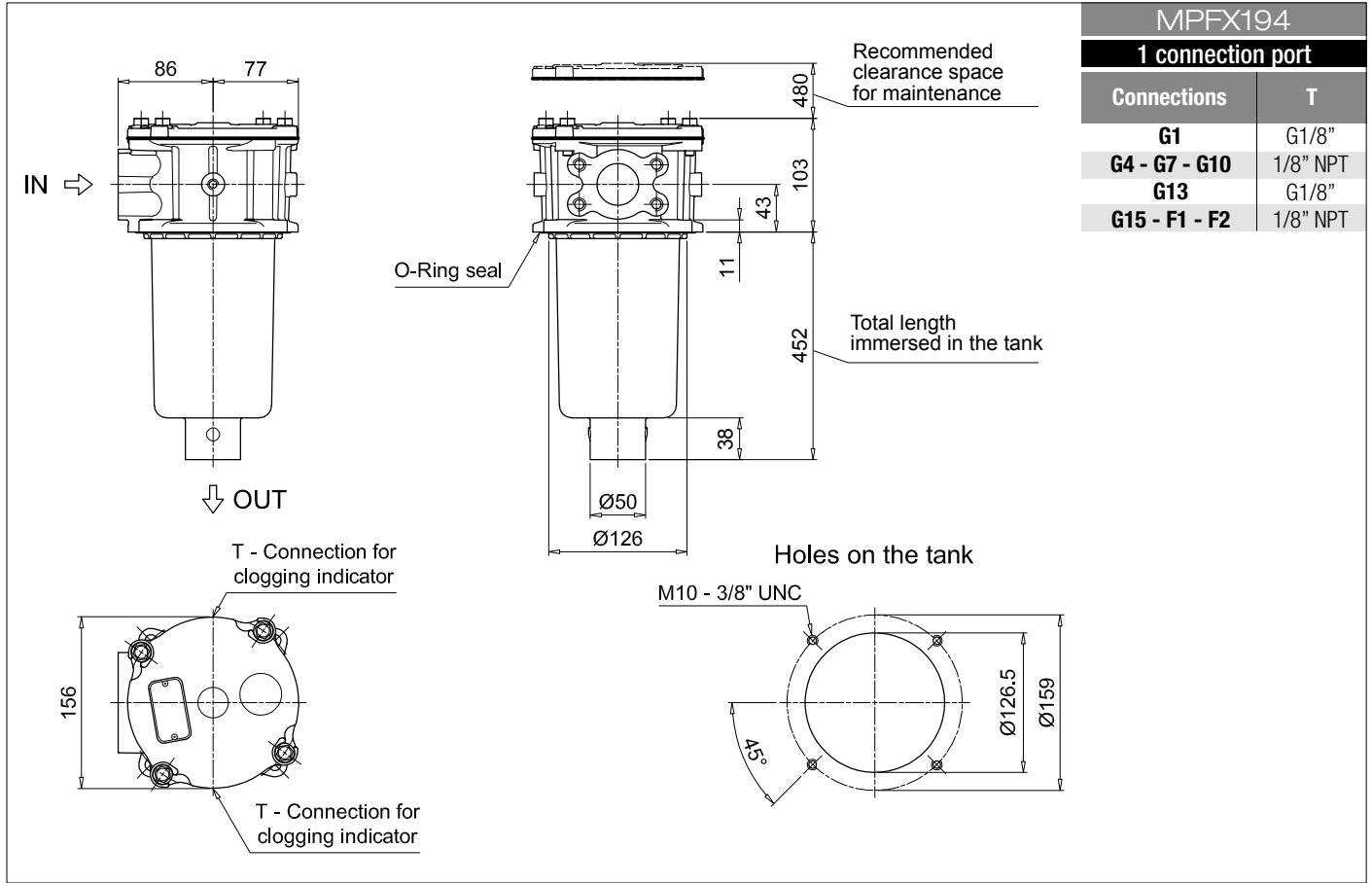
ACCESSORIES

Indicators	page			page
BVA Axial pressure gauge	216	BEA Electrical pressure indicator		215
BVR Radial pressure gauge	216	BEM Electrical pressure indicator		215
BVP Visual pressure indicator with automatic reset	217	BLA Electrical / visual pressure indicator		215-216
BVQ Visual pressure indicator with manual reset	217			
Additional features	page			
TE Extension tube	224			
T5 Filler plug M30x1.5	225			



MPFX MPFX184 - MPFX194

Dimensions



Designation & Ordering code

COMPLETE FILTER

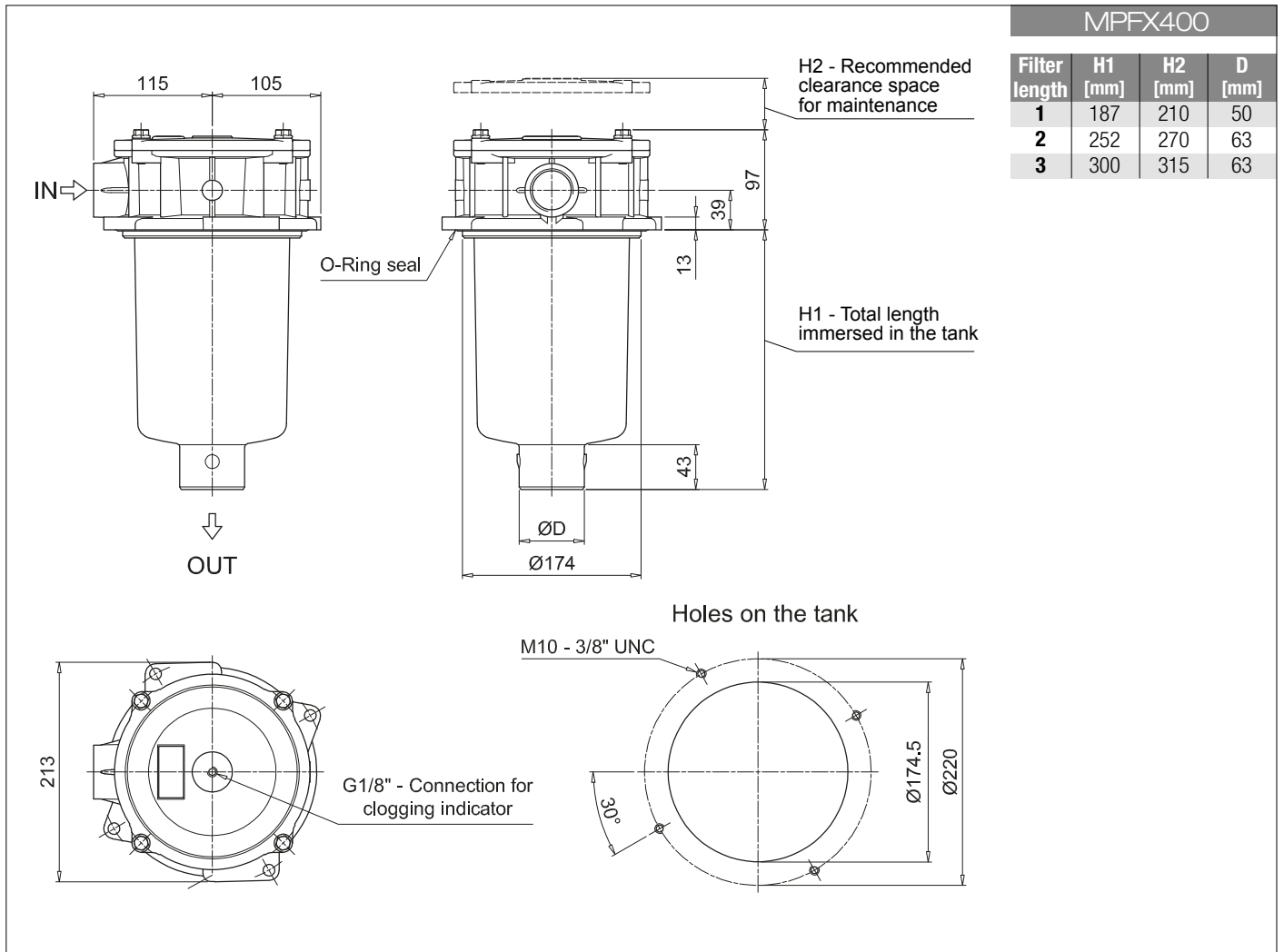
Series and size	Configuration example 1: MPFX400 1 A G9 A25 H B P01							
MPFX400 Filter element with private spigot	Configuration example 2: MPFX400 2 V G4 P10 N E P01							
Length	1 2 3							
Seals and treatments								
A NBR								
V FPM								
W NBR head anodized								
Z FPM head anodized								
Connections								
G1 G1 1/4"	G6 2" NPT							
G2 G1 1/2"	G7 SAE 20 - 1 5/8" - 12 UN							
G3 G2"	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	Execution			
				E 3 bar	P01 MP Filtri standard			
				B 1.75 bar	Pxx Customized			

FILTER ELEMENT

Element series and size	Configuration example 1: MFX400 1 A25 H B P01							
MFX400 Filter element with private spigot	Configuration example 2: MFX400 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							
	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	216	BEA Electrical pressure indicator	215
BVR Radial pressure gauge	216	BEM Electrical pressure indicator	215
BVP Visual pressure indicator with automatic reset	217	BLA Electrical / visual pressure indicator	215-216
BVQ Visual pressure indicator with manual reset	217		
Additional features	page		
T5 Filler plug M30x1.5	225		



MPFX MPFX410

Designation & Ordering code

COMPLETE FILTER

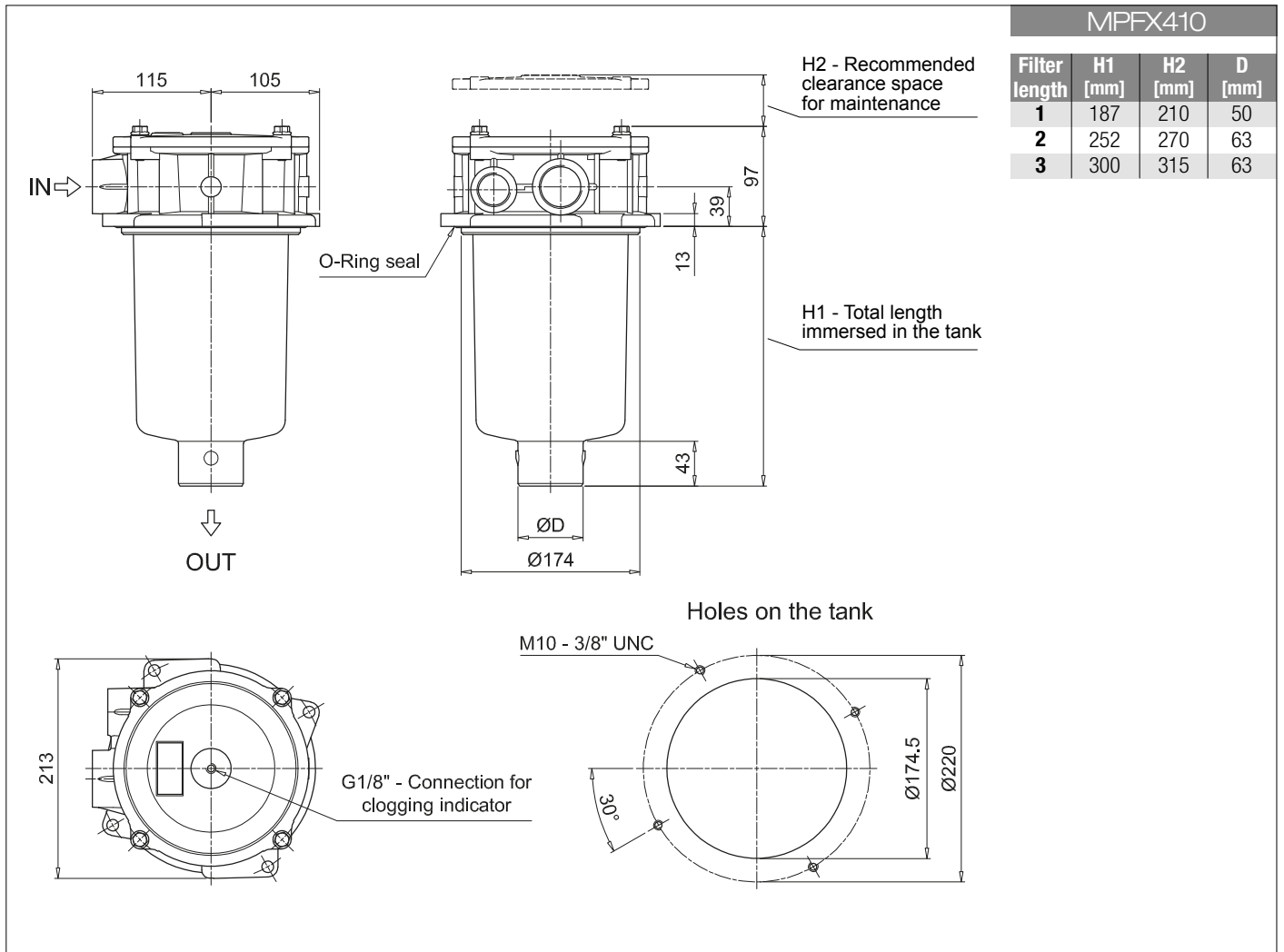
Series and size MPFX410 Filter element with private spigot	Configuration example 1: MPFX410 1 V G4 1 P10 N E P01
	Configuration example 2: MPFX410 1 A G9 1 A25 H B P01
Length 1 2 3	
Seals and treatments A NBR V FPM W NBR head anodized Z FPM head anodized	
Main Connections	Aux size 1
G1 G1 1/4"	G1"
G4 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
N 10 bar	Axx Mxx Pxx
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

FILTER ELEMENT

Element series and size MFX400 Filter element with private spigot	Configuration example 1: MFX400 1 P10 N V E P01
	Configuration example 2: MFX400 1 A25 H B 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
	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	216	BEA Electrical pressure indicator	215
BVR Radial pressure gauge	216	BEM Electrical pressure indicator	215
BVP Visual pressure indicator with automatic reset	217	BLA Electrical / visual pressure indicator	215-216
BVQ Visual pressure indicator with manual reset	217		
Additional features	page		
T5 Filler plug M30x1.5	225		



MPFX MPFX450 - MPFX451 - MPFX750

Designation & Ordering code

COMPLETE FILTER

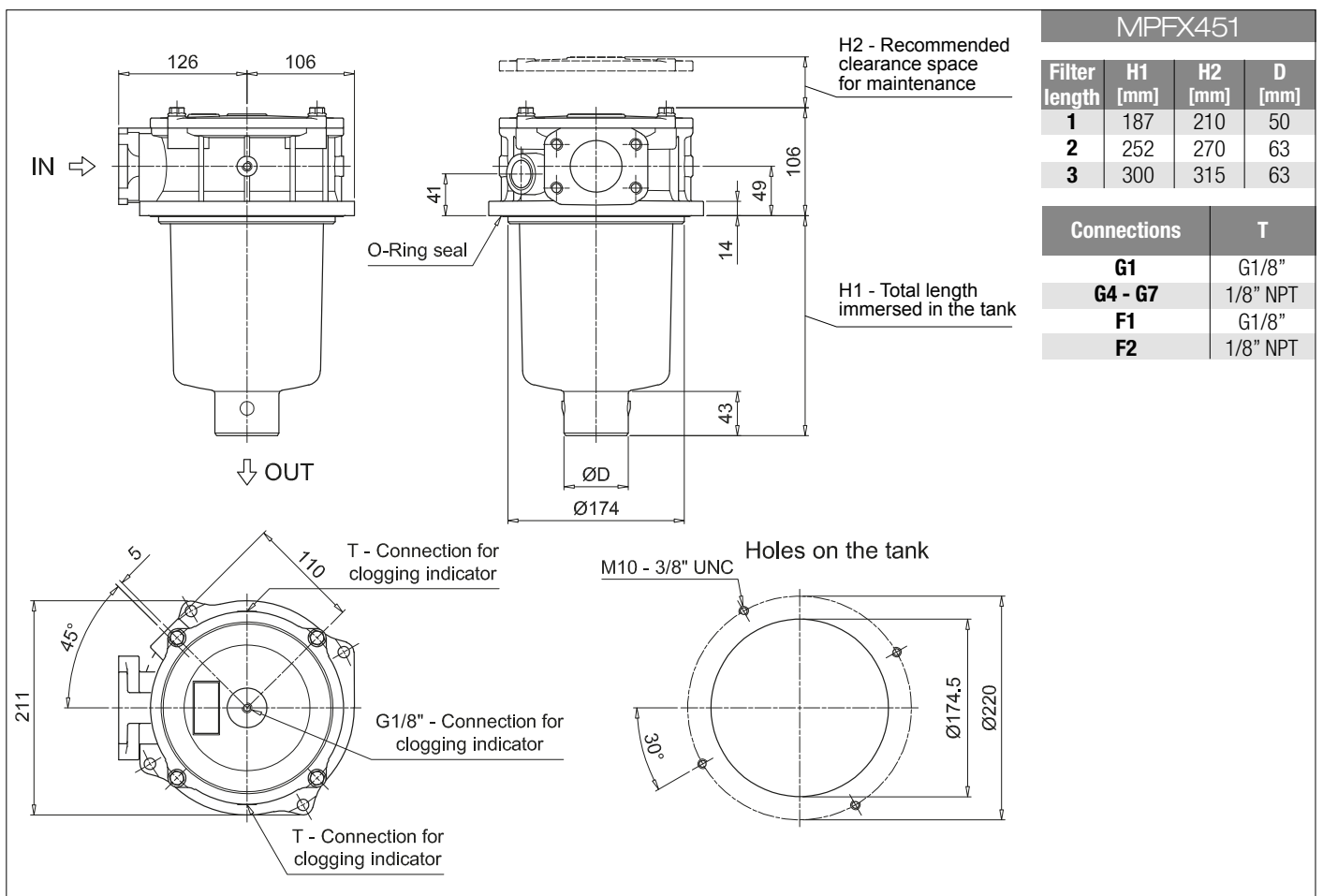
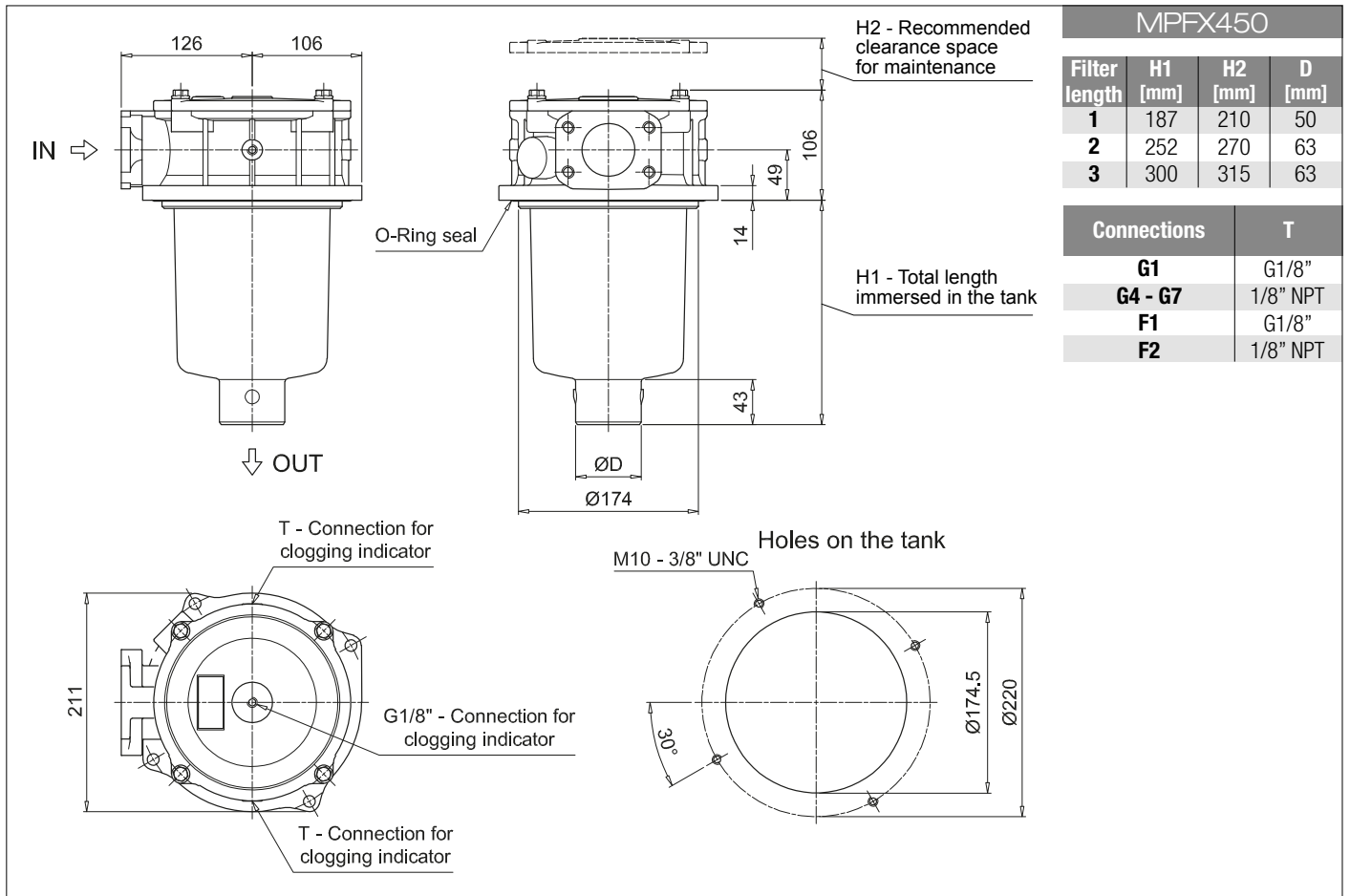
Series and size				Configuration example 1: MPFX450 1 A G1 A25 H B P01							
MPFX450 MPFX451 MPFX750 Filter element with private spigot				Configuration example 2: MPFX750 1 V F P10 N E P01							
Length		MPFX 450	MPFX 451	MPFX 750							
1		•	•	•							
2		•	•								
3		•	•								
Seals and treatments											
A NBR		W NBR head anodized									
V FPM		Z FPM head anodized									
Connections				Aux (only size 451)							
G1 G2"		G3/4"									
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		G3/4"									
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: MFx400 1 A25 H B P01							
MFx400 MFx750 Filter element with private spigot				Configuration example 2: MFx750 1 P10 N V E P01							
Element length		MPFX 450	MPFX 451	MPFX 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									
				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

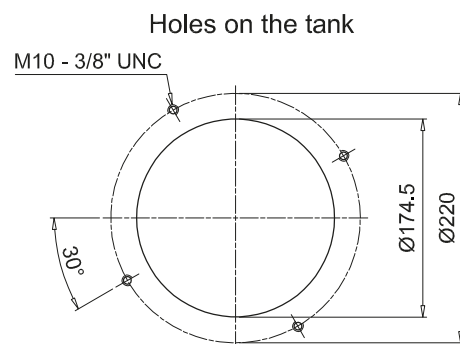
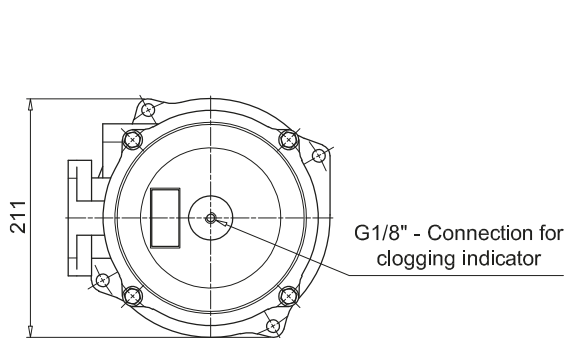
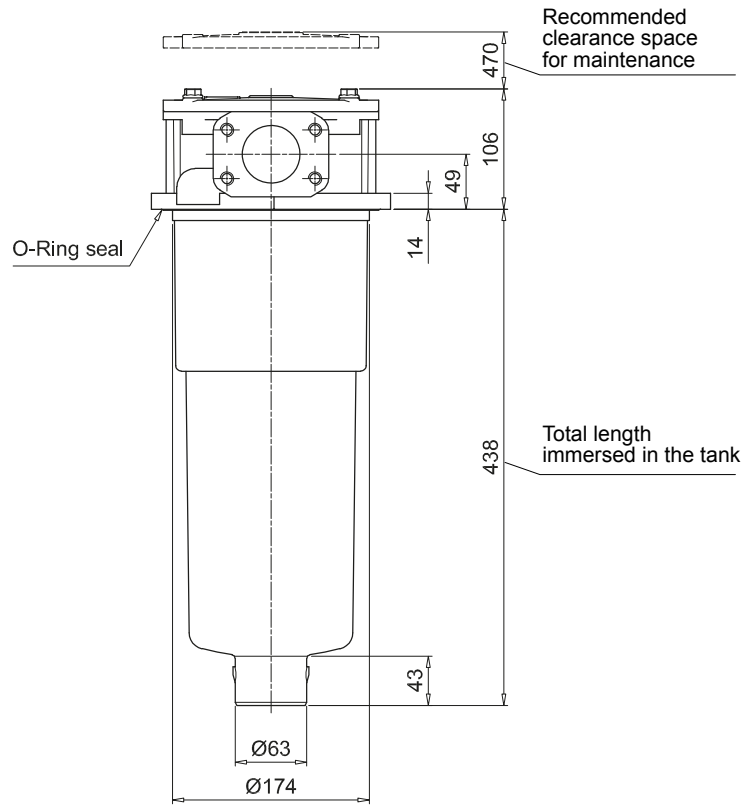
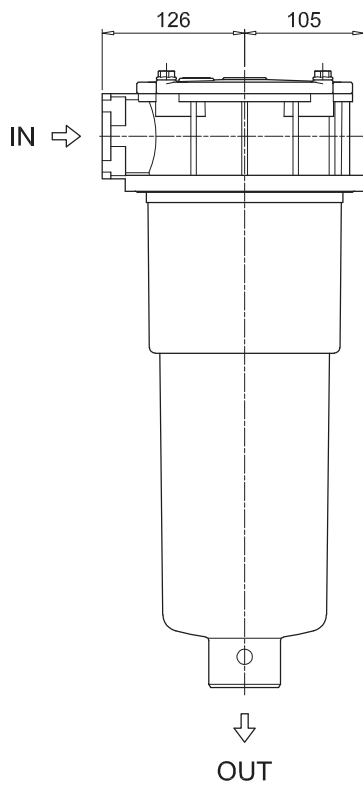
Indicators		page			page
BVA	Axial pressure gauge	216	BEA	Electrical pressure indicator	215
BVR	Radial pressure gauge	216	BEM	Electrical pressure indicator	215
BVP	Visual pressure indicator with automatic reset	217	BLA	Electrical / visual pressure indicator	215-216
BVQ	Visual pressure indicator with manual reset	217			
Additional features		page			
T5	Filler plug M30x1.5	225			



MPFX MPFX450 - MPFX451 - MPFX750

Dimensions

MPFX750



MPFX 100

MPFX 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
MPFX 030	See order table	02050675	02050676
MPFX 100-110		02050677	02050678
MPFX 181-182		02050681	02050682
MPFX 184		02050685	02050686
MPFX 191-192		02050683	02050684
MPFX 194		02050687	02050688
MPFX 400-410		02050695	02050696
MPFX 450-451		02050697	02050698
MPFX 750		02050699	02050700

MPFX 104

MPFX 181

FLAT SEAL			
	Q.ty: 1 pc.	Q.ty: 1 pc.	
Item:	2	3 (3a ÷ 3d)	
Filter series	Filter element	Seal Kit code number	
		NBR	FPM
MPFX 104	See order table	02050679	02050680
MPFX 181-182		02050691	02050692
MPFX 191-192		02050693	02050694

MPF series

Maximum pressure up to 8 bar - Flow rate up to 750 l/min



Technical data

Return filter Maximum pressure up to 8 bar - Flow rate up to 750 l/min

Filter housing materials

- Head: Aluminium
- Cover: Nylon (only for: MPF 020-030-100-104-110)
Aluminium (the other insert assemblies)
- Bowl: Nylon

Seals

- Standard NBR series A
- Optional FPM series V

Pressure

Working pressure: up to 800 kPa (8 bar)

Temperature

From -25 °C to +110 °C

Bypass valve

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

Note

MPF filters are provided for vertical mounting

Δp element type

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

Weights [kg] and volumes [dm³]

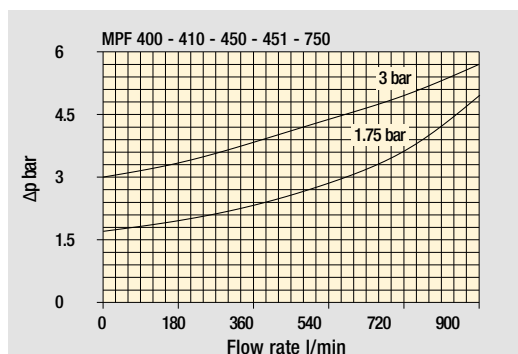
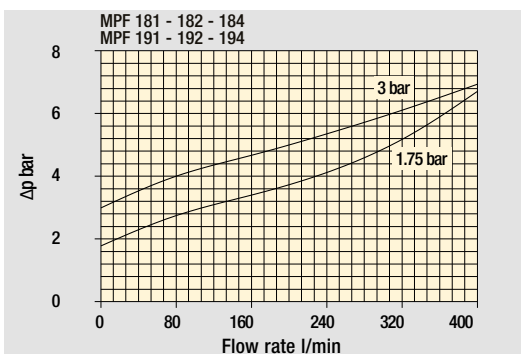
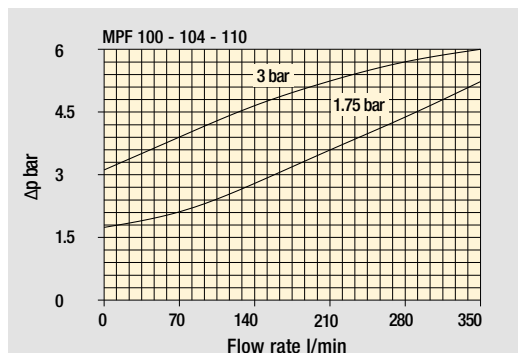
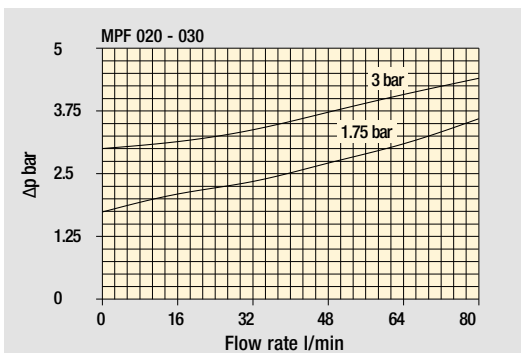
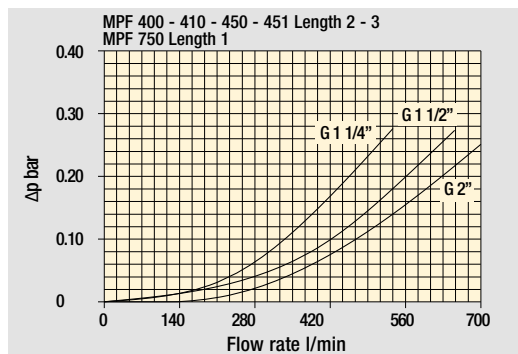
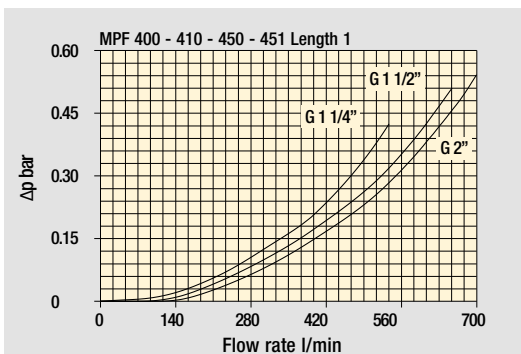
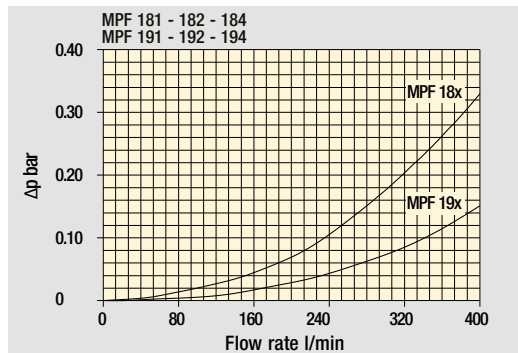
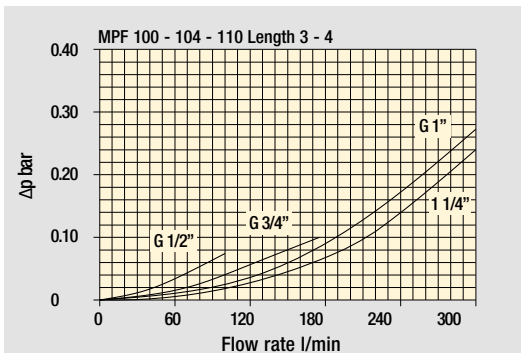
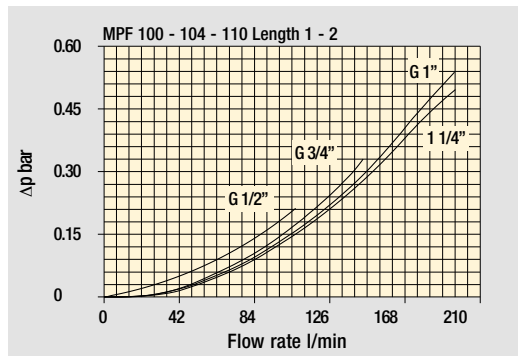
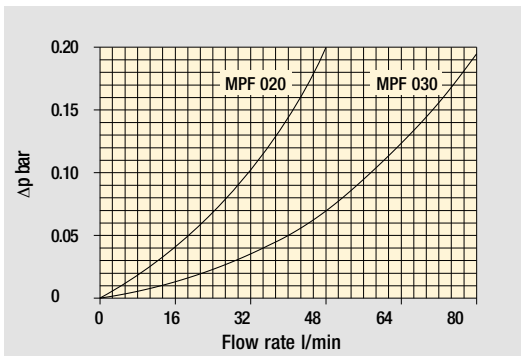
	Weights [kg]				Volumes [dm ³]					
	Lenght	1	2	3	4	Lenght	1	2	3	4
MPF 020		0.30	-	-	-		0.26	-	-	-
MPF 030		0.40	-	-	-		0.29	-	-	-
MPF 100		0.61	0.64	0.67	0.74		0.64	0.85	1.20	1.65
MPF 104		0.82	0.96	1.02	1.25		0.64	0.85	1.20	1.65
MPF 110		0.64	0.68	0.71	0.78					
MPF 181		2.20	3.00	-	-		2.50	4.00	-	-
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	-	-	-

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

Δp varies proportionally with density.

Pressure drop

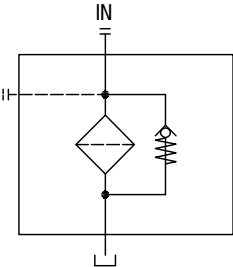
Filter housings Δp pressure drop



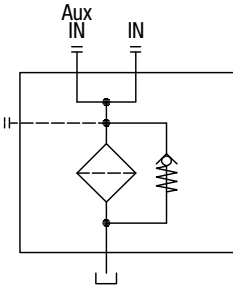
Bypass valve pressure drop

Hydraulic symbols

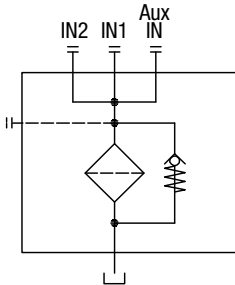
Style
1 connection



Style
2 connections



Style
3 connections



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 G1/2"		•							
G4 1/2" NPT		•							
G7 SAE 8 - 3/4" - 16 UNF		•							
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	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				

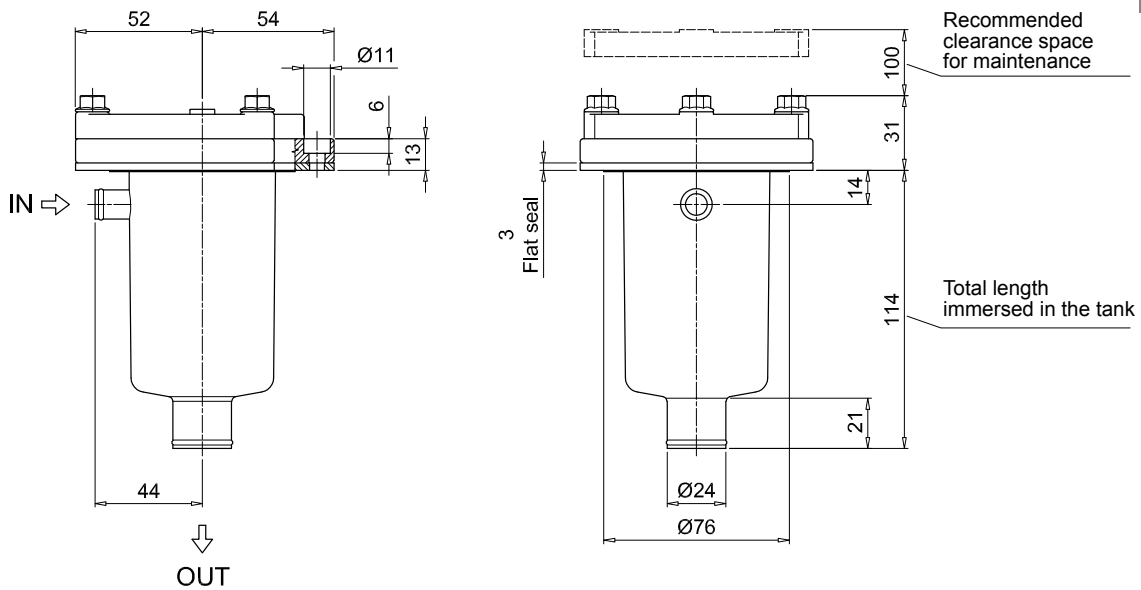
FILTER ELEMENT

Element series and size	Configuration example 1:	MF030	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								
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	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		

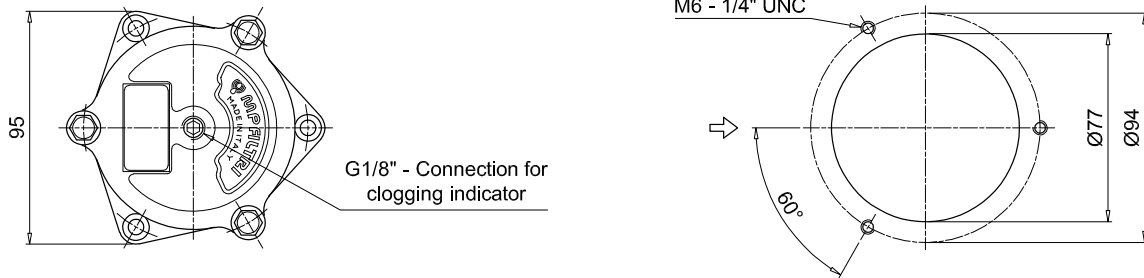
ACCESSORIES

Indicators	page		page
BVA Axial pressure gauge	216	BEA Electrical pressure indicator	215
BVR Radial pressure gauge	216	BEM Electrical pressure indicator	215
BVP Visual pressure indicator with automatic reset	217	BLA Electrical / visual pressure indicator	215-216
BVQ Visual pressure indicator with manual reset	217		
Additional features	page		
TE Extension tube	224		
T5 Filler plug M30x1.5	225		

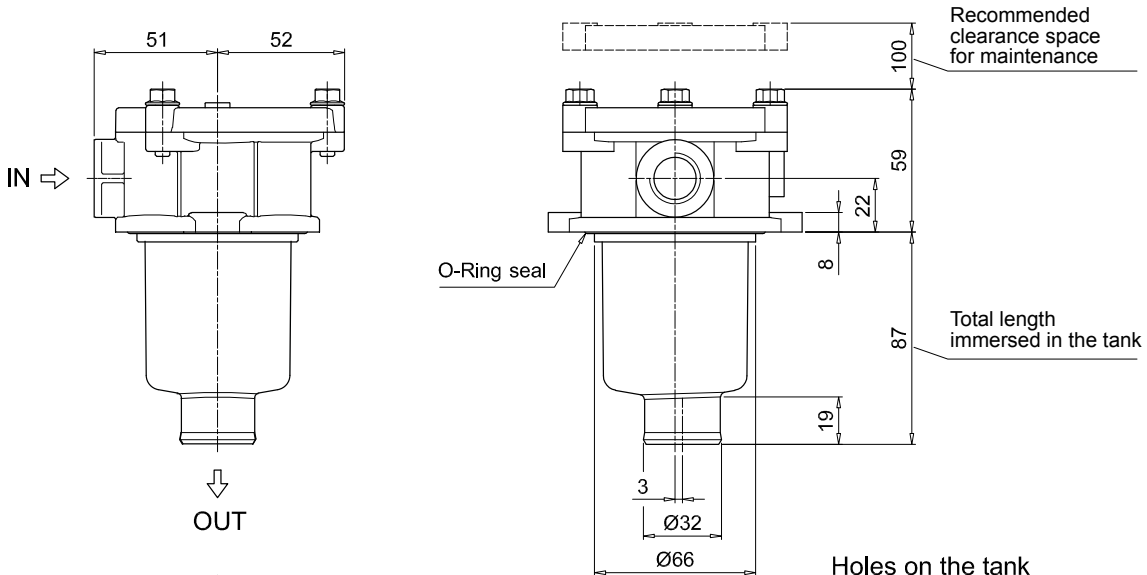
MPF020



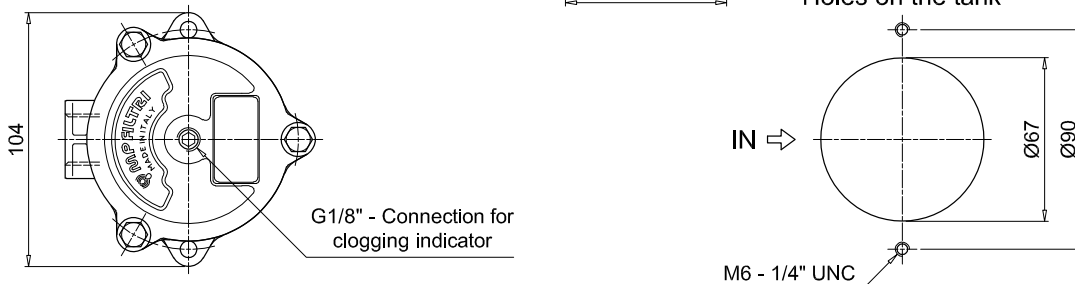
Holes on the tank



MPF030



Holes on the tank



MPF MPF100 - MPF104

Designation & Ordering code

COMPLETE FILTER

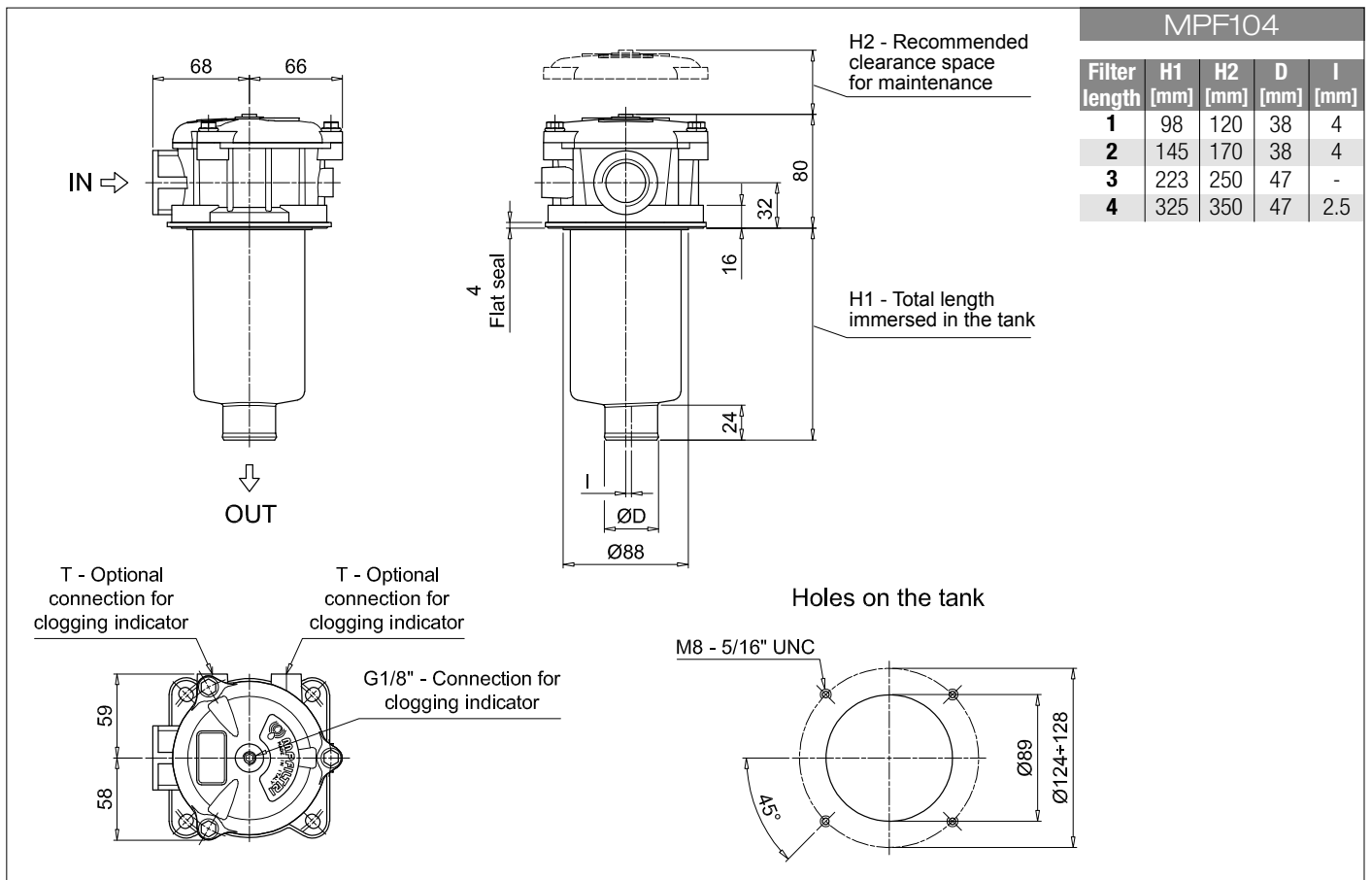
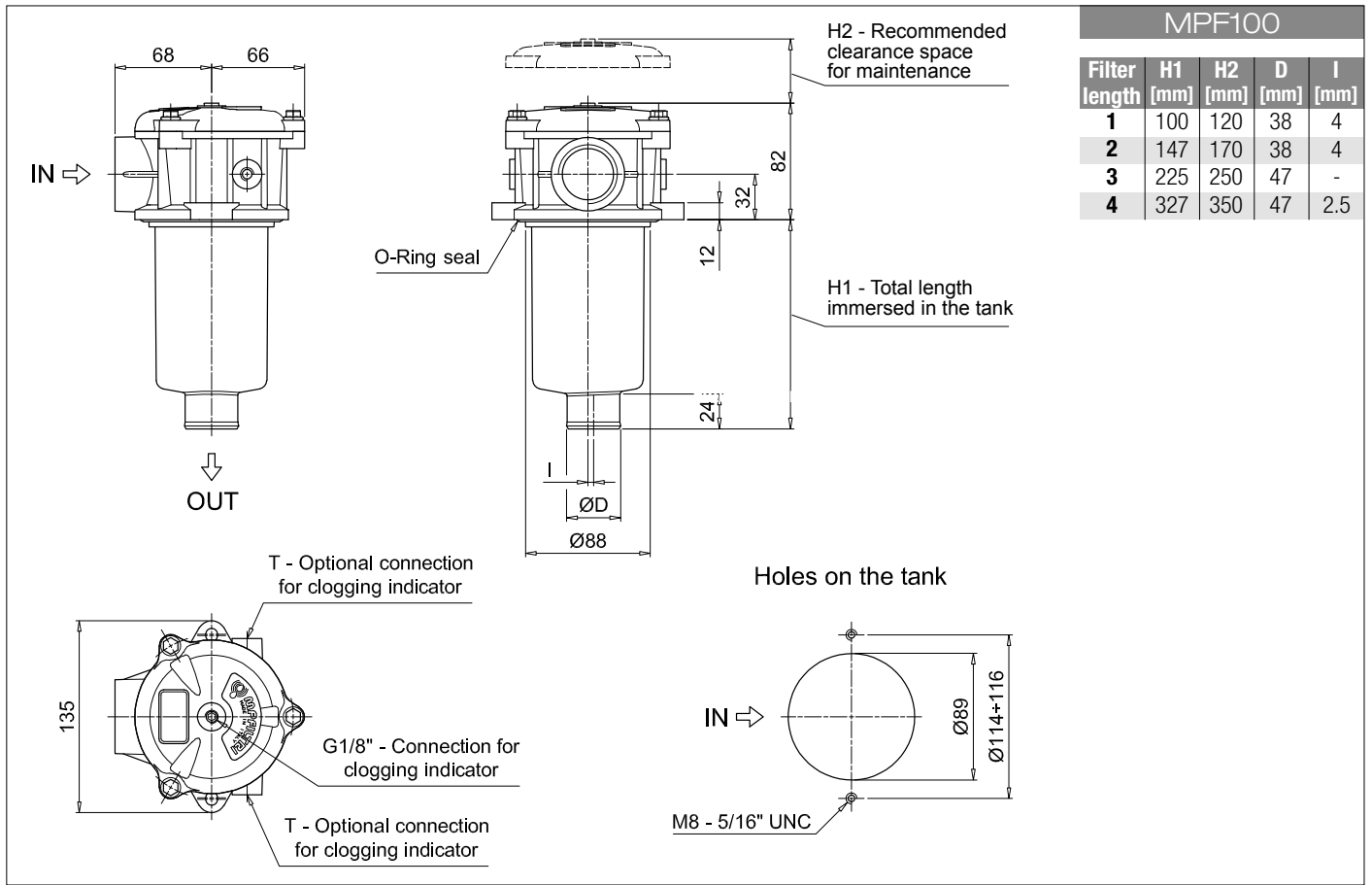
Series and size		Configuration example 1: MPF100 2 W G3 A06 W B P01									
MPF100 MPF104 Filter element with standard spigot		Configuration example 2: MPF104 4 A G8 P10 N E P01									
Length											
1 2 3 4											
Seals and treatments											
A NBR											
V FPM											
W NBR head anodized											
Z FPM head anodized											
Connections		Size 100		Size 104		Connections		Size 100		Size 104	
G1 G1/2"		•		•		G7 SAE 8 - 3/4" - 16 UNF		•		•	
G2 G3/4"		•		•		G8 SAE 12 - 1 1/16" - 12 UN		•		•	
G3 G1"		•		•		G9 SAE 16 - 1 5/16" - 12 UN		•		•	
G4 1/2" NPT		•		•		G10 G1 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							
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 2 A06 W B P01									
MF100 Filter element with standard spigot		Configuration example 2: MF100 4 P10 N B E 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		 1.75 bar	
										Execution	
										P01 MP Filtri standard	
										Pxx Customized	

ACCESSORIES

Indicators		page		page	
BVA Axial pressure gauge		216	BEA Electrical pressure indicator		215
BVR Radial pressure gauge		216	BEM Electrical pressure indicator		215
BVP Visual pressure indicator with automatic reset		217	BLA Electrical / visual pressure indicator		215-216
BVQ Visual pressure indicator with manual reset		217			
Additional features		page		page	
TE Extension tube		224	T5 Filler plug M30x1.5		225
DFS Diffuser with fast lock connection		225	DPT Dipstick		225



Designation & Ordering code

COMPLETE FILTER

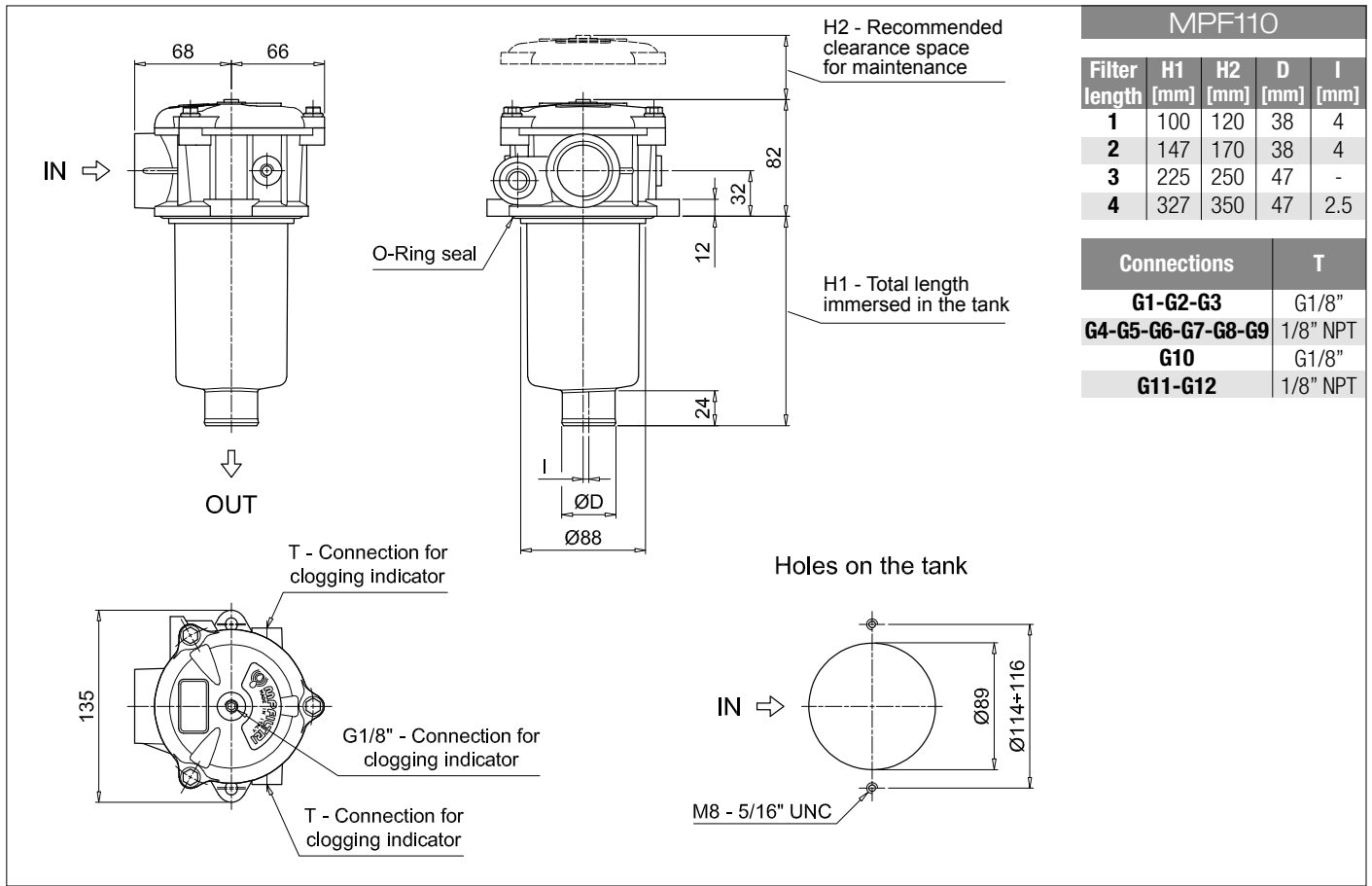
Series and size		Configuration example 1: MPF110 2 A G2 1 A16 H E P01									
MPF110 Filter element with standard spigot		Configuration example 2: MPF110 4 V G12 1 M60 N B P01									
Length											
1 2 3 4											
Seals and treatments											
A NBR		W NBR head anodized									
V FPM		Z FPM head anodized									
Main Connections		Aux size 1		Aux size 2		Main Connections		Aux size 1		Aux size 2	
G1 G1/2"		G3/8"		G1/2"		G7 SAE 8 - 3/4" - 16 UNF		SAE 6 - 9/16" - 18 UNF		SAE 8 - 3/4" - 16 UNF	
G2 G3/4"						G8 SAE 12 - 1 1/16" - 12 UN					
G3 G1"						G9 SAE 16 - 1 5/16" - 12 UN					
G4 1/2" NPT						G10 G1 1/4"		G3/8"		G1/2"	
G5 3/4" NPT		3/8" NPT		1/2" 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									
		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		216	BEA Electrical pressure indicator		215
BVR Radial pressure gauge		216	BEM Electrical pressure indicator		215
BVP Visual pressure indicator with automatic reset		217	BLA Electrical / visual pressure indicator		215-216
BVQ Visual pressure indicator with manual reset		217			
Additional features		page		page	
TE Extension tube		224	T5 Filler plug M30x1.5		225
DFS Diffuser with fast lock connection		225	DPT Dipstick		225



MPF110				
Filter length	H1 [mm]	H2 [mm]	D [mm]	I [mm]
1	100	120	38	4
2	147	170	38	4
3	225	250	47	-
4	327	350	47	2.5

Connections	T
G1-G2-G3	G1/8"
G4-G5-G6-G7-G8-G9	1/8" NPT
G10	G1/8"
G11-G12	1/8" NPT

MPF MPF181 - MPF191

Designation & Ordering code

COMPLETE FILTER

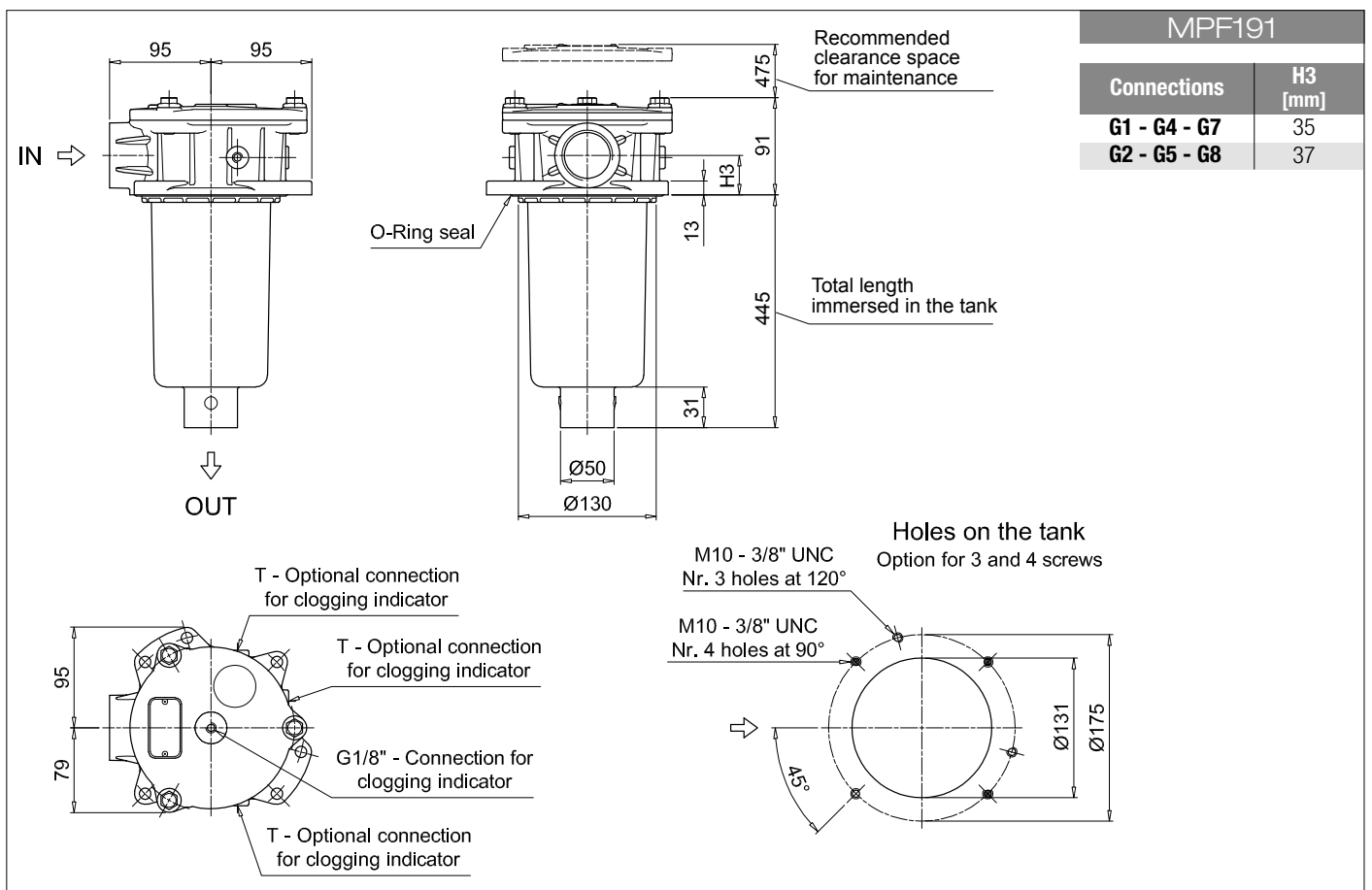
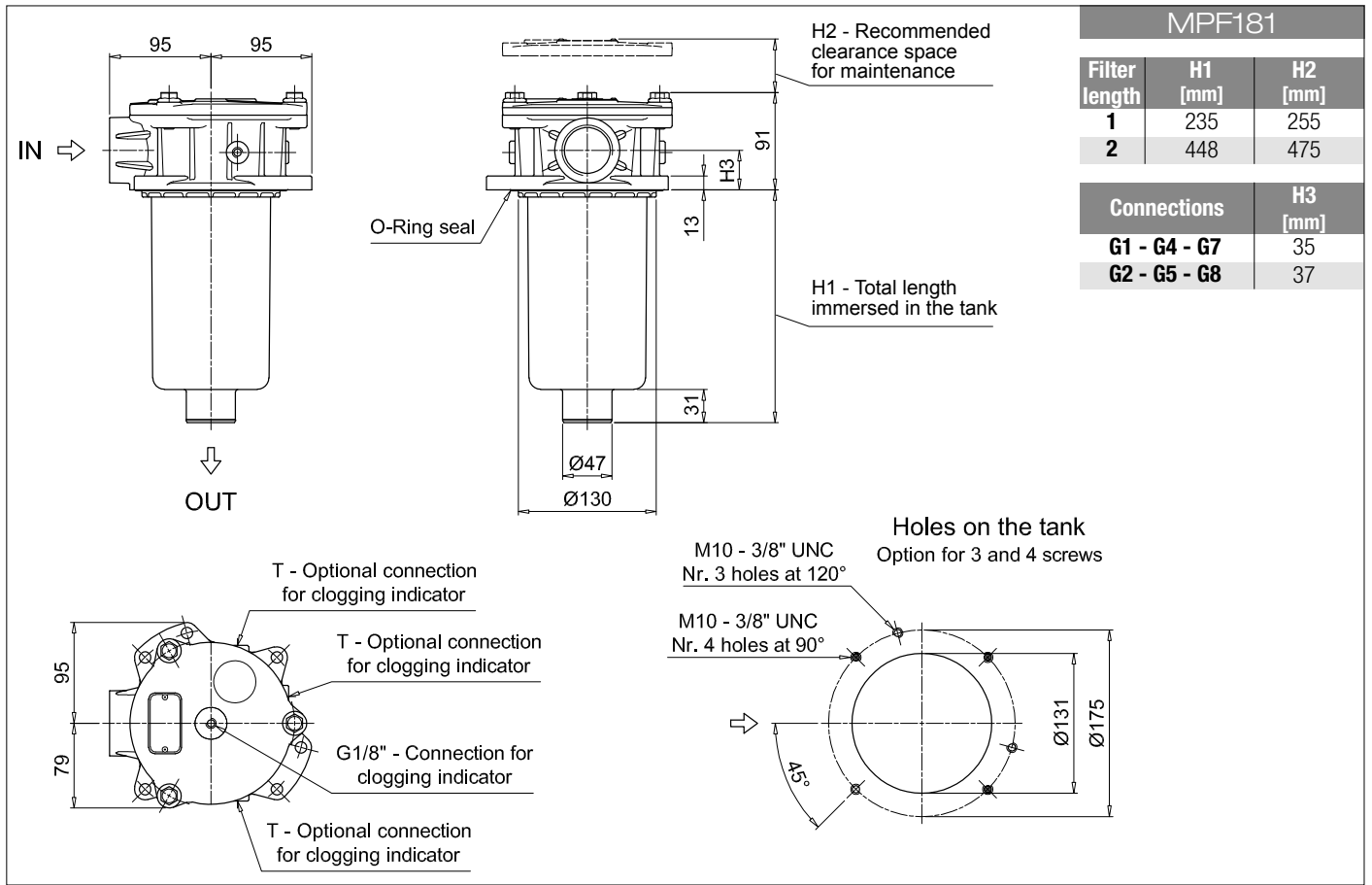
Series and size			Configuration example 1: MPF181 1 A G1 A25 H E P01								
MPF181 MPF191 Filter element with standard spigot			Configuration example 2: MPF191 2 V G2 P10 N B P01								
Length		Size 181	Size 191								
1		•									
2		•	•								
Seals and treatments											
A NBR	B NBR flat seal 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 G1 1/4"	G5 1 1/2" NPT										
G2 G1 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 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		216	BEA Electrical pressure indicator		215
BVR Radial pressure gauge		216	BEM Electrical pressure indicator		215
BVP Visual pressure indicator with automatic reset		217	BLA Electrical / visual pressure indicator		215-216
BVQ Visual pressure indicator with manual reset		217			
Additional features		page			
TE Extension tube		224			
Sxx Extension tube		224			
T5 Filler plug M30x1.5		225			



MPF MPF182 - MPF192

Designation & Ordering code

COMPLETE FILTER

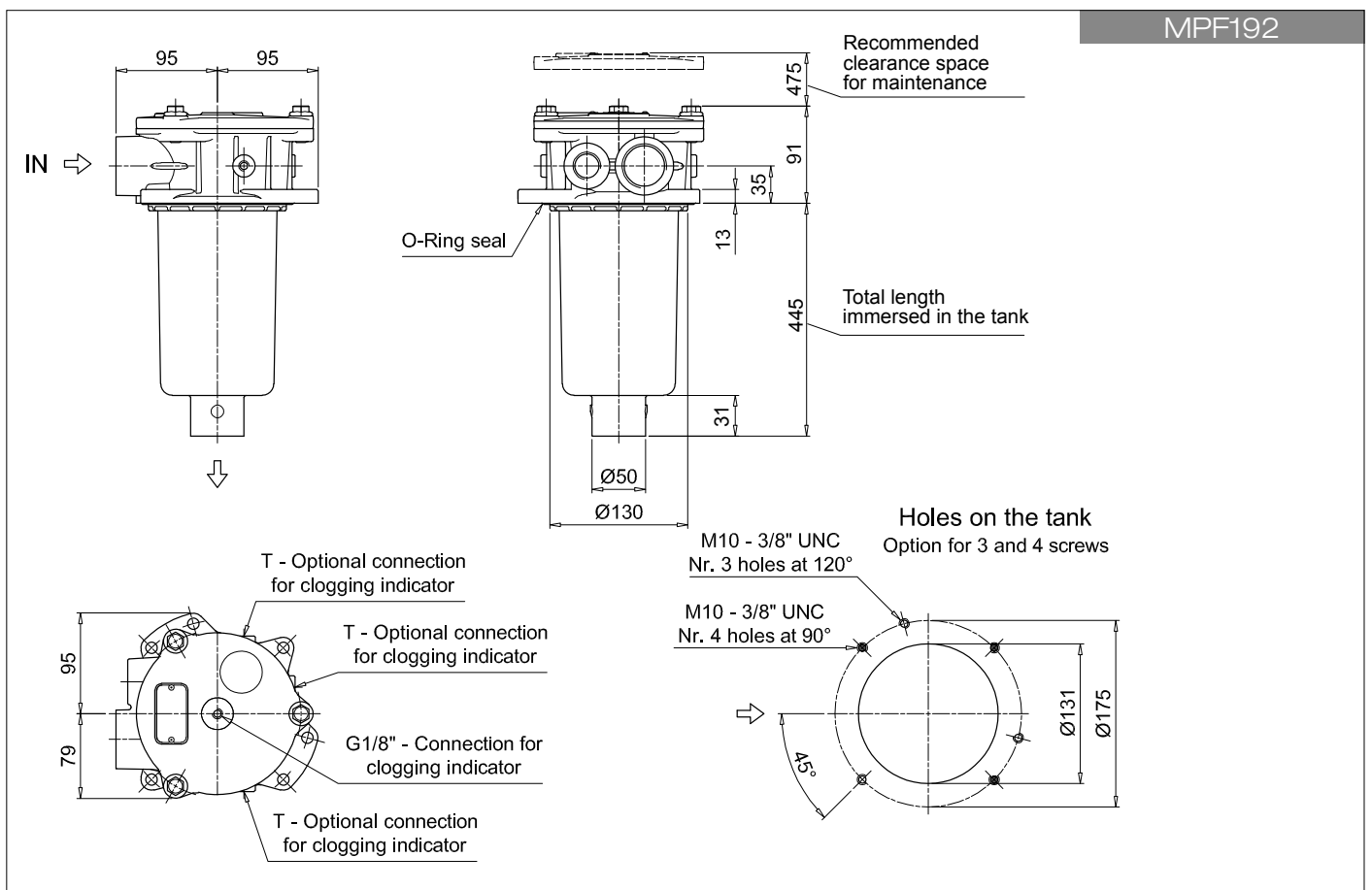
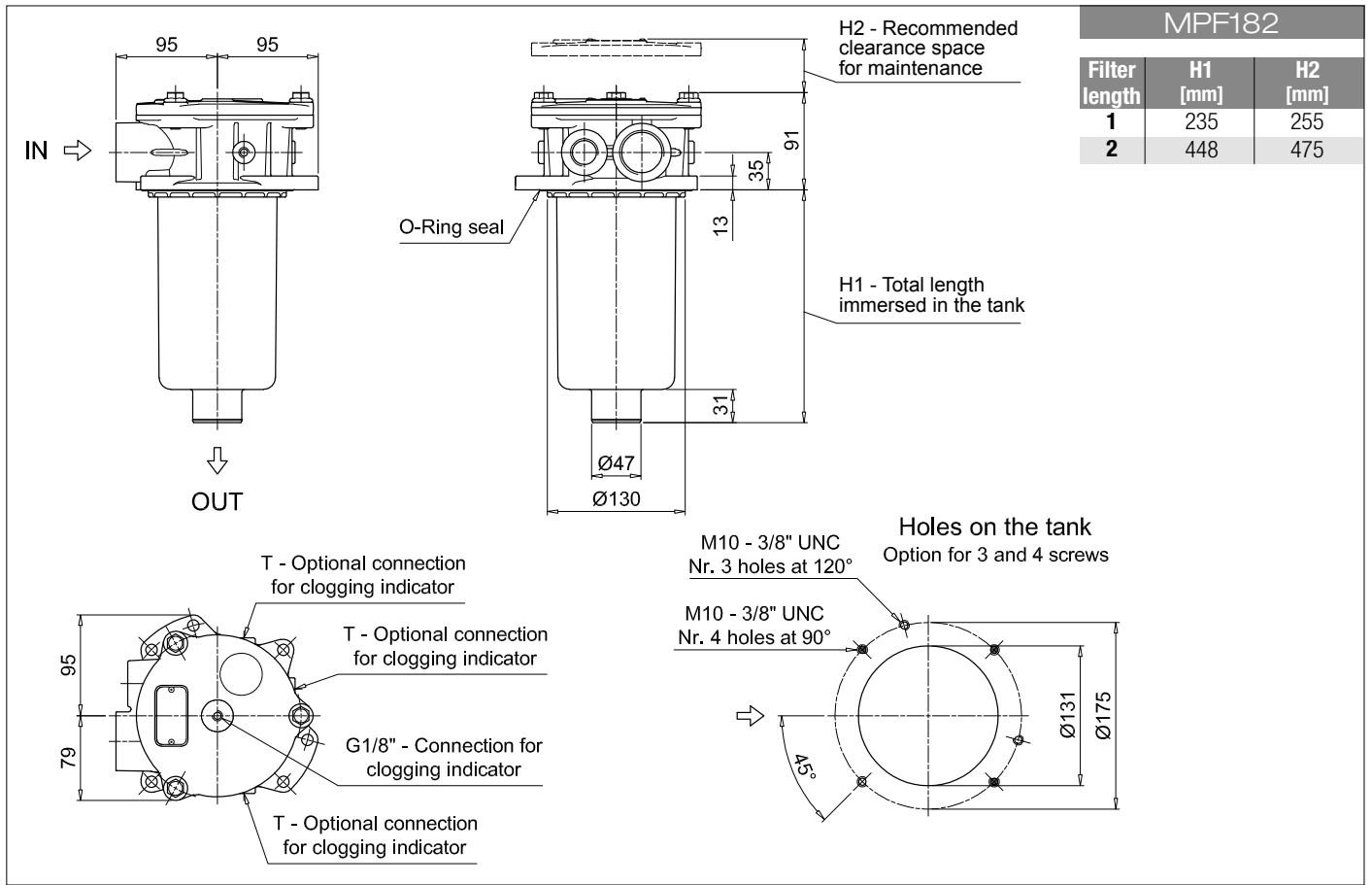
Series and size			Configuration example 1: MPF182 1 A G1 1 A25 H E P01								
MPF182 MPF192 Filter element with standard spigot			Configuration example 2: MPF192 2 V G2 2 P10 N B P01								
Length		Size 182	Size 192								
1		•									
2		•	•								
Seals and treatments											
A NBR			B NBR 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 G1 1/4"	G1/2"		G3/4"								
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								
	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		216	BEA Electrical pressure indicator		215
BVR Radial pressure gauge		216	BEM Electrical pressure indicator		215
BVP Visual pressure indicator with automatic reset		217	BLA Electrical / visual pressure indicator		215-216
BVQ Visual pressure indicator with manual reset		217			
Additional features		page			
TE Extension tube		224			
Sxx Extension tube		224			
T5 Filler plug M30x1.5		225			



MPF MPF184 - MPF194

Designation & Ordering code

COMPLETE FILTER

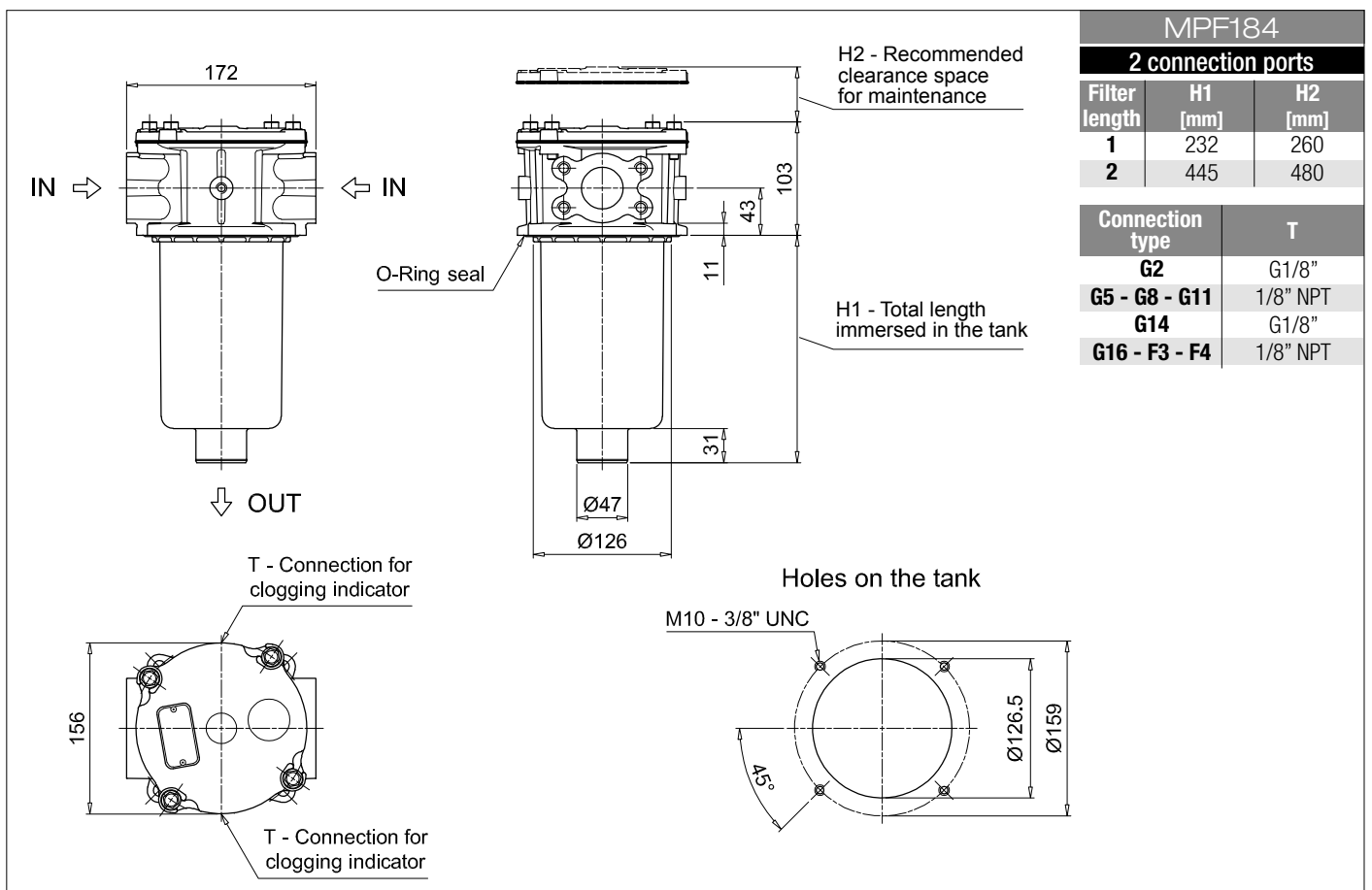
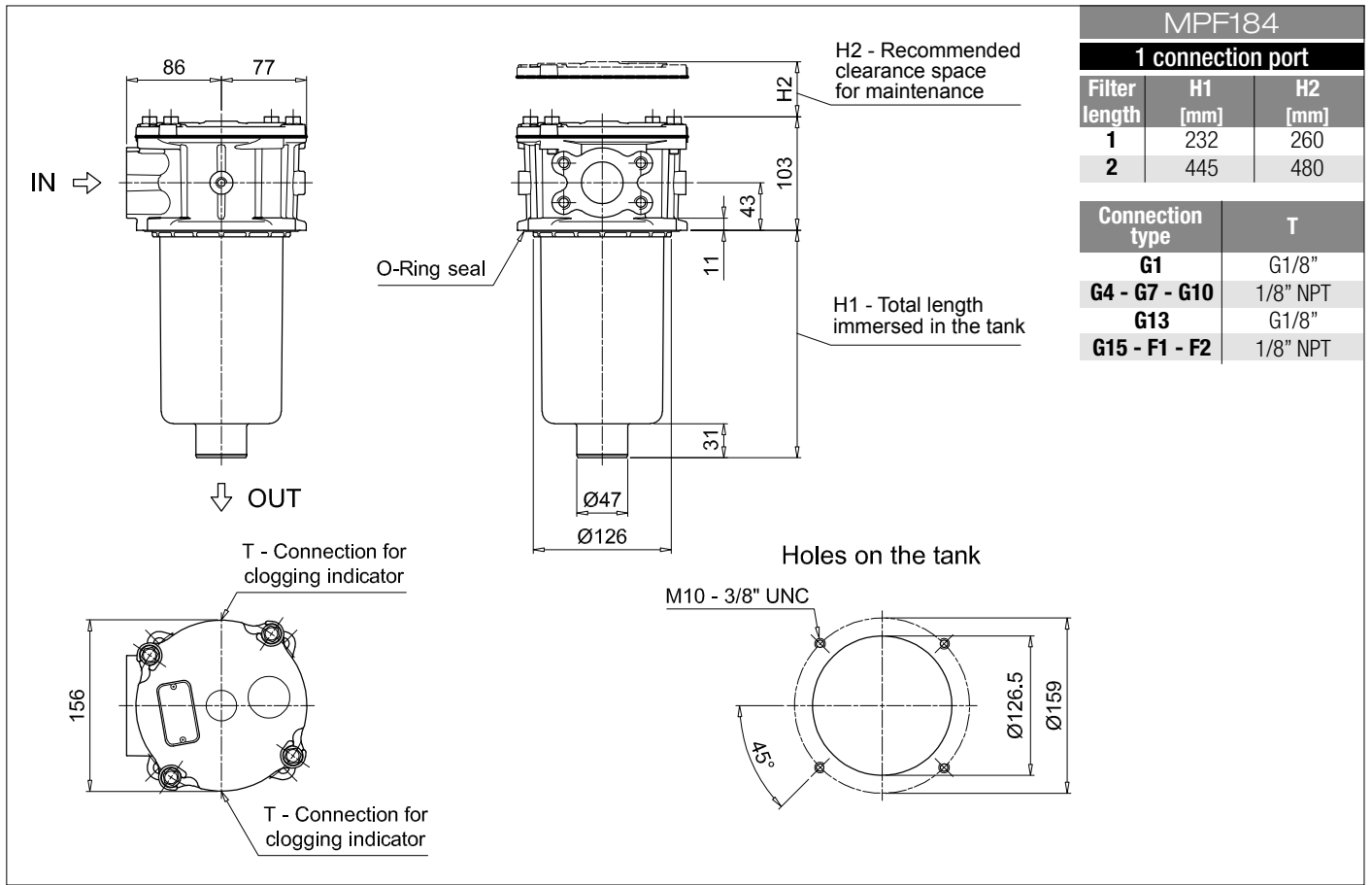
Series and size			Configuration example 1: MPF184 1 A G1 A25 H E P01								
MPF184 MPF194 Filter element with standard spigot			Configuration example 2: MPF194 2 V F3 P10 N B P01								
Length		Size 184	Size 194								
1		•									
2		•	•								
Seals and treatments											
A	NBR	W	NBR	head anodized							
V	FPM	Z	FPM	head anodized							
Main Connections		Rear connections		Main Connections		Rear connections					
G1	G1 1/4"	-		G13	G1 1/2"	-					
G2	G1 1/4"	G1 1/4"		G14	G1 1/2"	G1 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								
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 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				

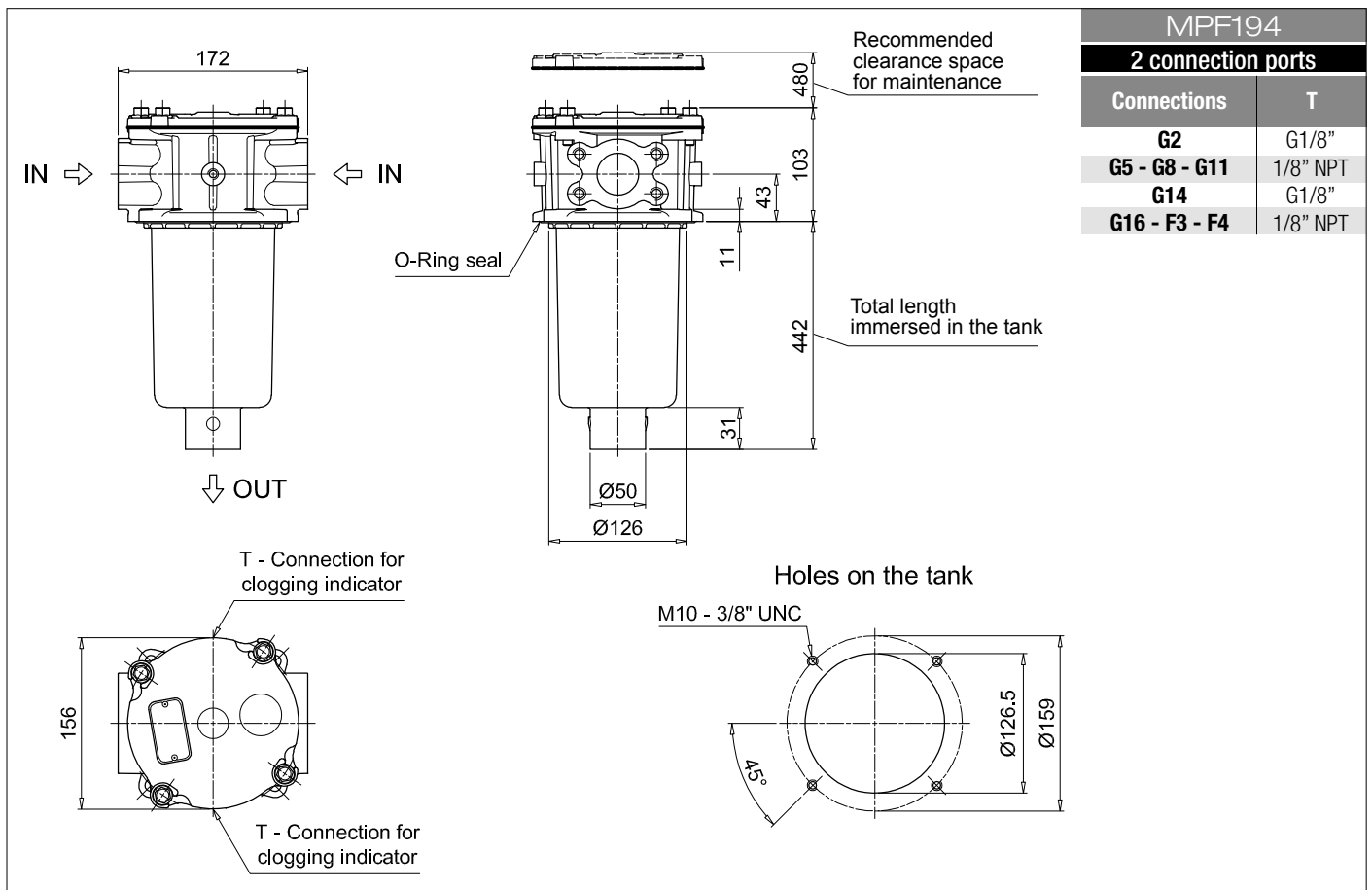
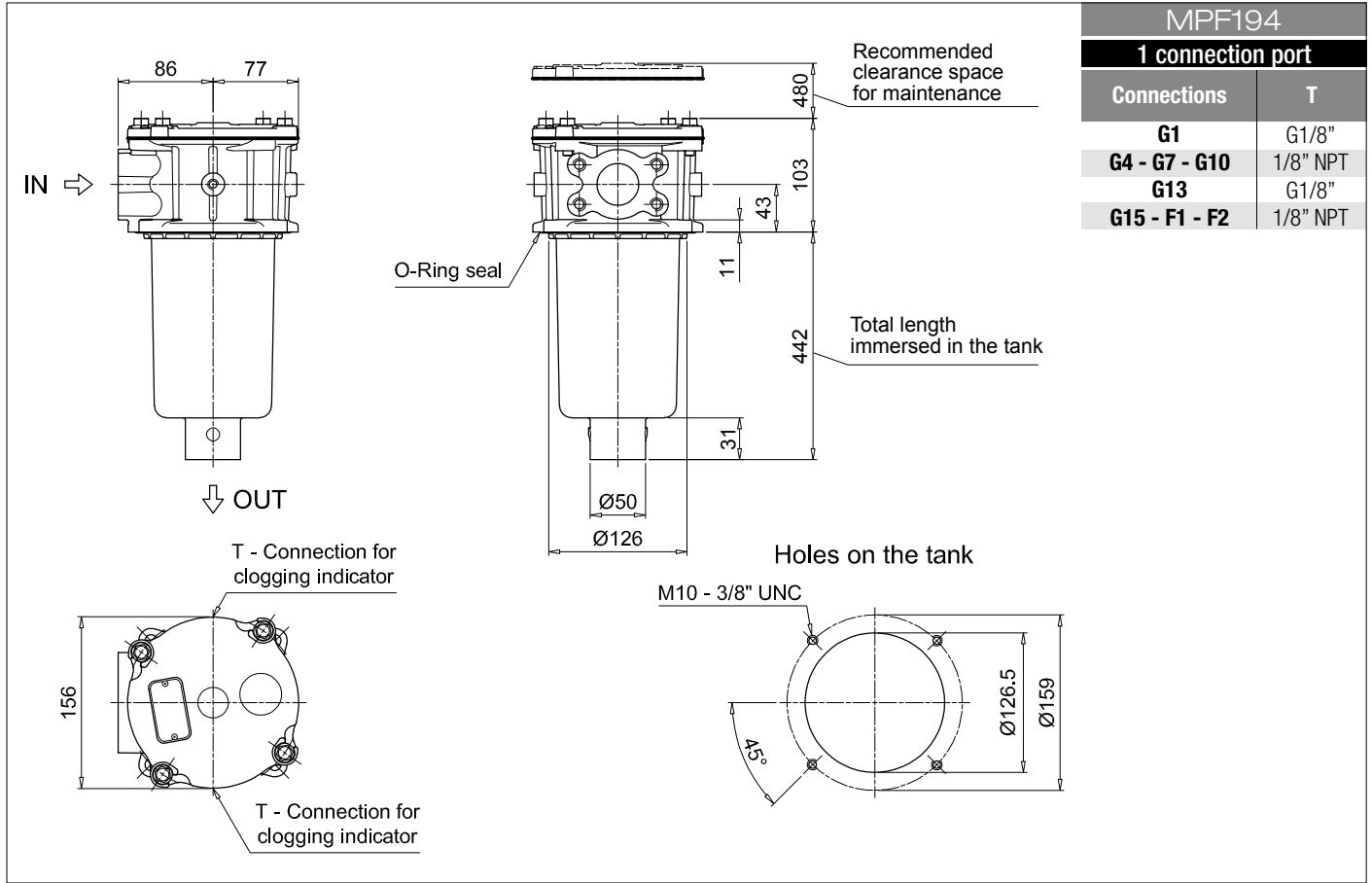
ACCESSORIES

Indicators		page			page
BVA	Axial pressure gauge	216	BEA	Electrical pressure indicator	215
BVR	Radial pressure gauge	216	BEM	Electrical pressure indicator	215
BVP	Visual pressure indicator with automatic reset	217	BLA	Electrical / visual pressure indicator	215-216
BVQ	Visual pressure indicator with manual reset	217			
Additional features		page			
TE	Extension tube	224			
Sxx	Extension tube	224			
T5	Filler plug M30x1.5	225			



MPF MPF184 - MPF194

Dimensions



Designation & Ordering code

COMPLETE FILTER

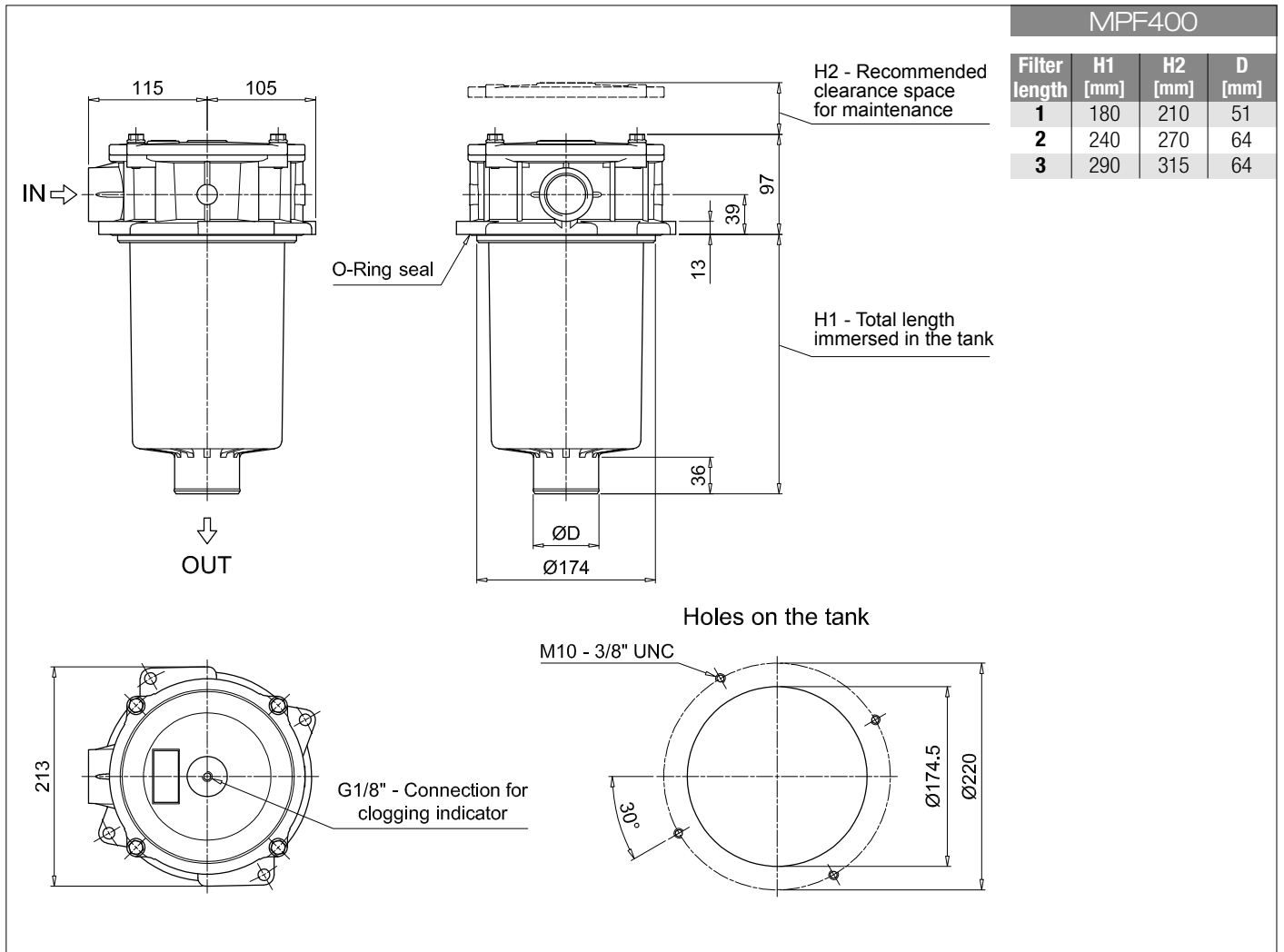
Series and size		Configuration example 1: MPF400 1 A G9 A25 H B P01								
MPF400 Filter element with standard spigot		Configuration example 2: MPF400 2 V G4 P10 N E P01								
Length										
1 2 3										
Seals and treatments										
A NBR										
V FPM										
W NBR head anodized										
Z FPM head anodized										
Connections										
G1 G1 1/4" G6 2" NPT										
G2 G1 1/2" G7 SAE 20 - 1 5/8" - 12 UN										
G3 G2" 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		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 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								
		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		216	BEA Electrical pressure indicator		215
BVR Radial pressure gauge		216	BEM Electrical pressure indicator		215
BVP Visual pressure indicator with automatic reset		217	BLA Electrical / visual pressure indicator		215-216
BVQ Visual pressure indicator with manual reset		217			
Additional features		page			
Sxx Extension tube		224			
T5 Filler plug M30x1.5		225			



Designation & Ordering code

COMPLETE FILTER

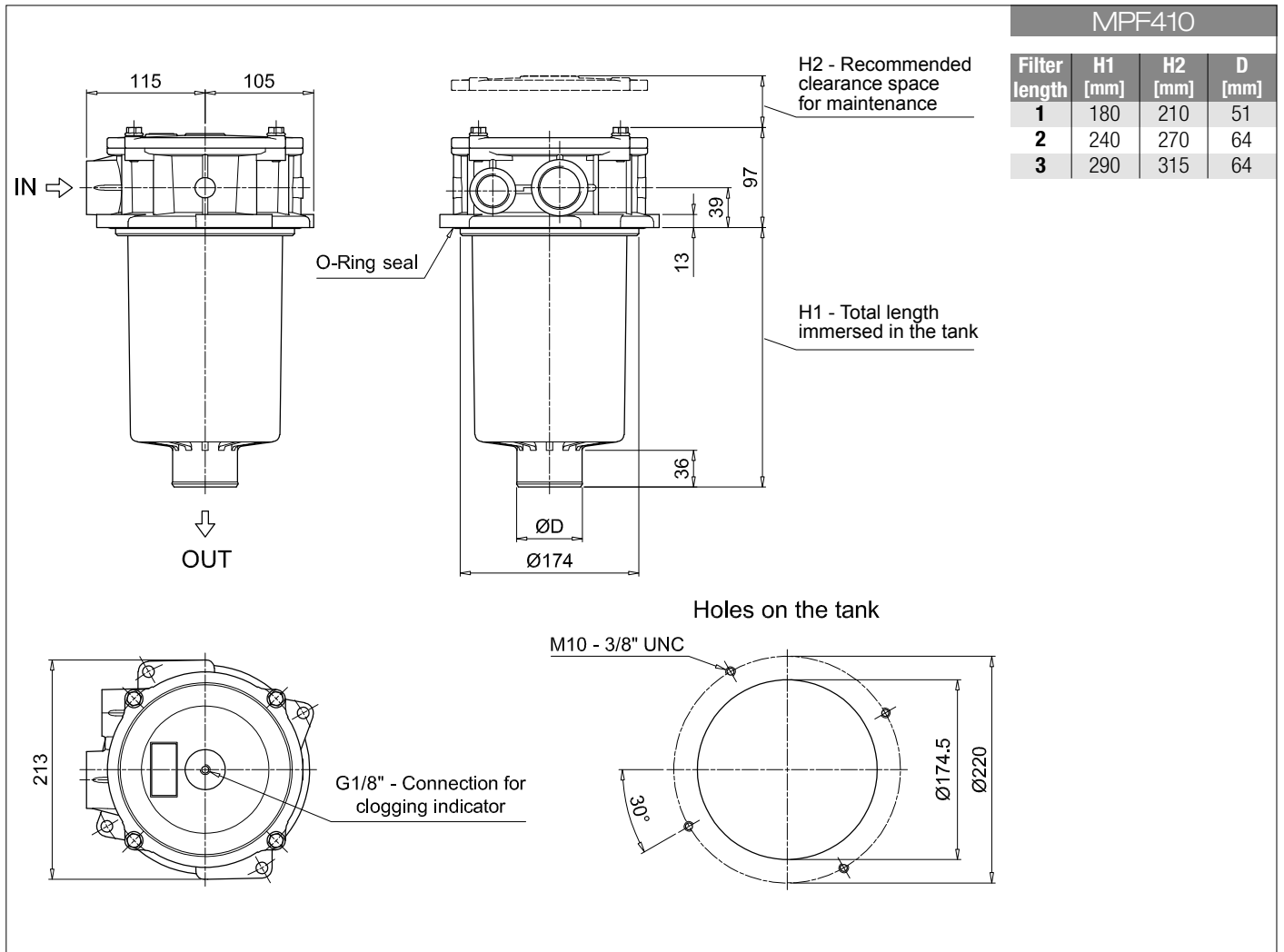
Series and size	Configuration example 1:	MPF410	1	A	G9	1	A25	H	B	P01
MPF410 Filter element with standard spigot	Configuration example 2:	MPF410	1	V	G4	1	P10	N	E	P01
Length										
1 2 3										
Seals and treatments										
A NBR										
V FPM										
W NBR head anodized										
Z FPM head anodized										
Main Connections										
G1 G1 1/4"	Aux size 1									
G4 1 1/4" NPT	G1"									
G7 SAE 20 - 1 5/8" - 12 UN	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	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	216	BEA Electrical pressure indicator	215
BVR Radial pressure gauge	216	BEM Electrical pressure indicator	215
BVP Visual pressure indicator with automatic reset	217	BLA Electrical / visual pressure indicator	215-216
BVQ Visual pressure indicator with manual reset	217		
Additional features	page		
Sxx Extension tube	224		
T5 Filler plug M30x1.5	225		



MPF MPF450 - MPF451 - MPF750

Designation & Ordering code

COMPLETE FILTER

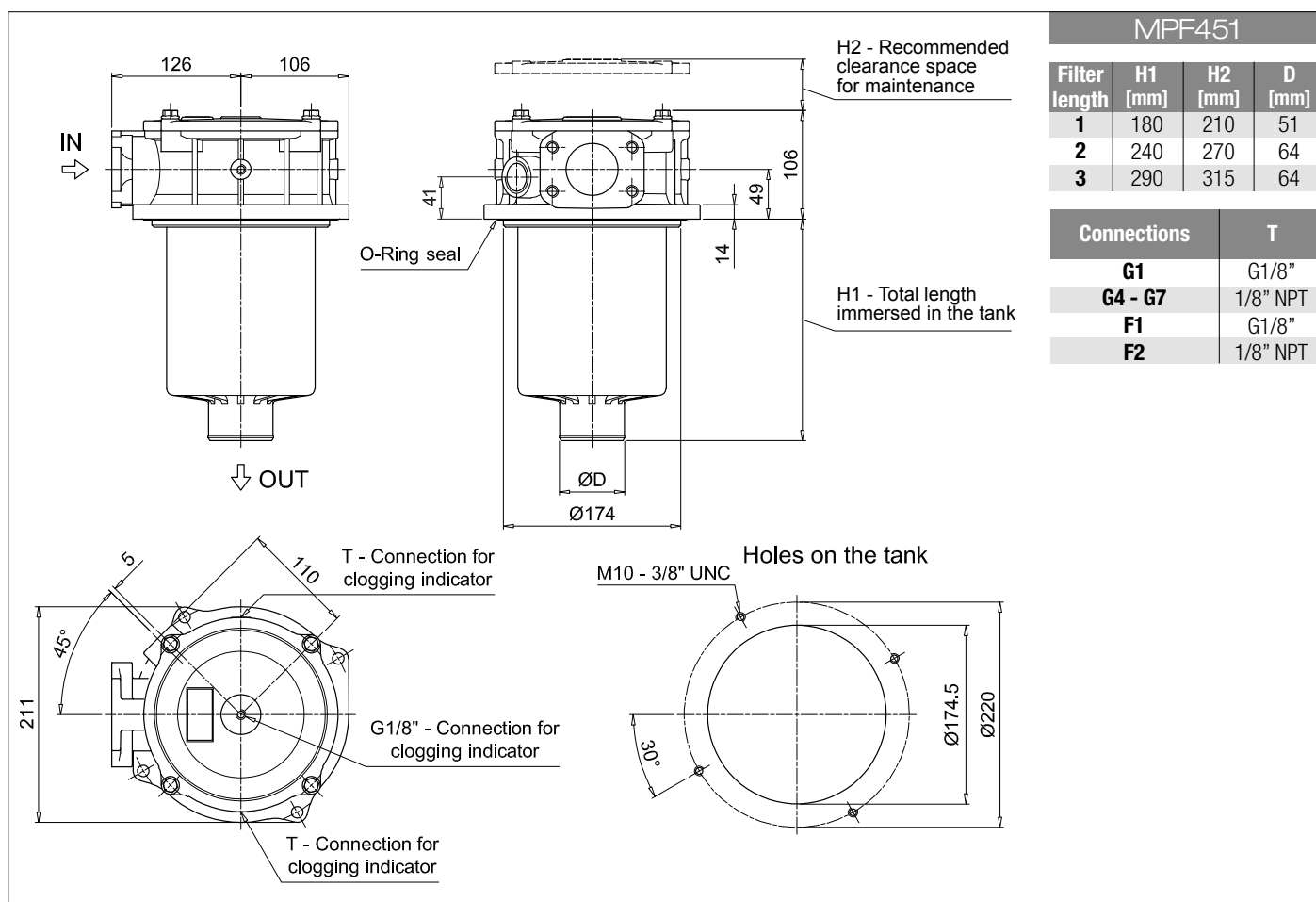
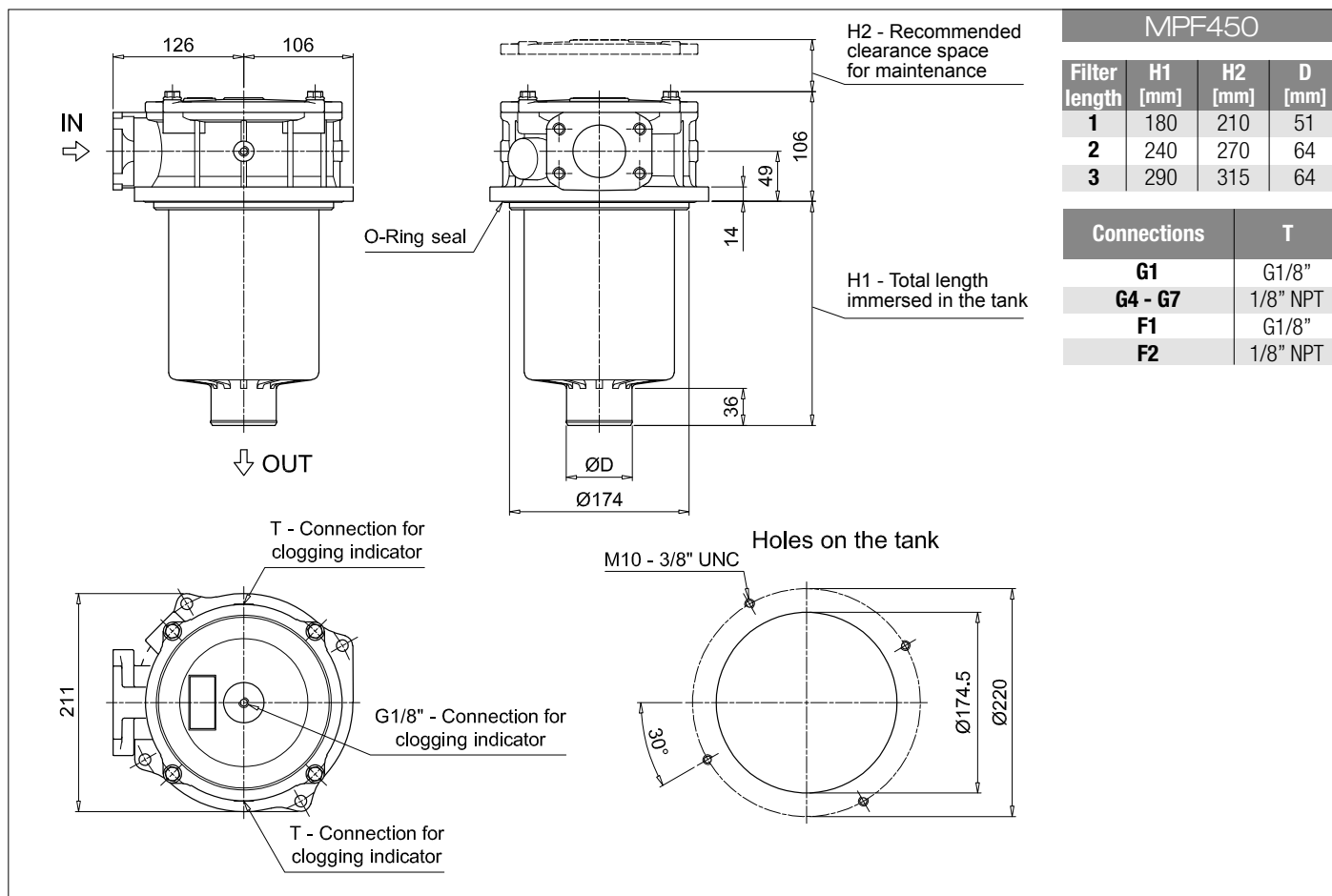
Series and size				Configuration example 1: MPF450 1 A G1 A25 H B P01									
MPF450 MPF451 MPF750	Filter element with standard spigot			Configuration example 2: MPF750 1 V F P10 N E P01									
Length		MPF 450	MPF 451	MPF 750									
1		•	•	•									
2		•	•										
3		•	•										
Seals and treatments													
A NBR	W NBR	head anodized											
V FPM	Z FPM	head anodized											
Connections		Aux (only size 451)											
G1 G2"	G3/4"												
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	G3/4"												
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												
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 MF750	Filter element with standard spigot			Configuration example 2: MFX50 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		B 1.75 bar		Pxx Customized					

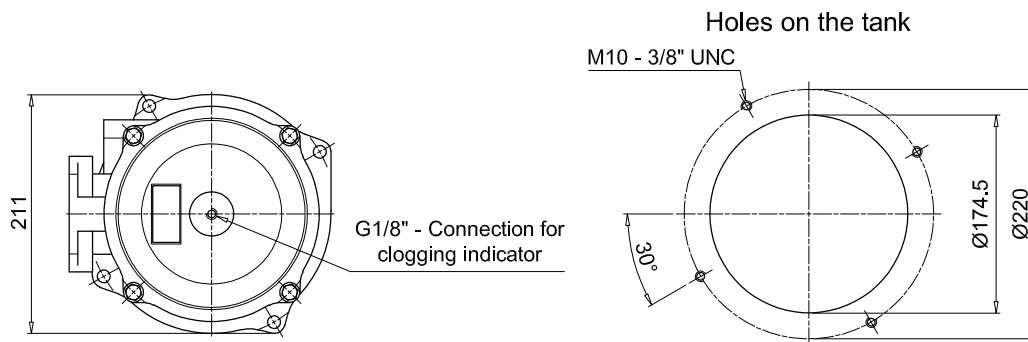
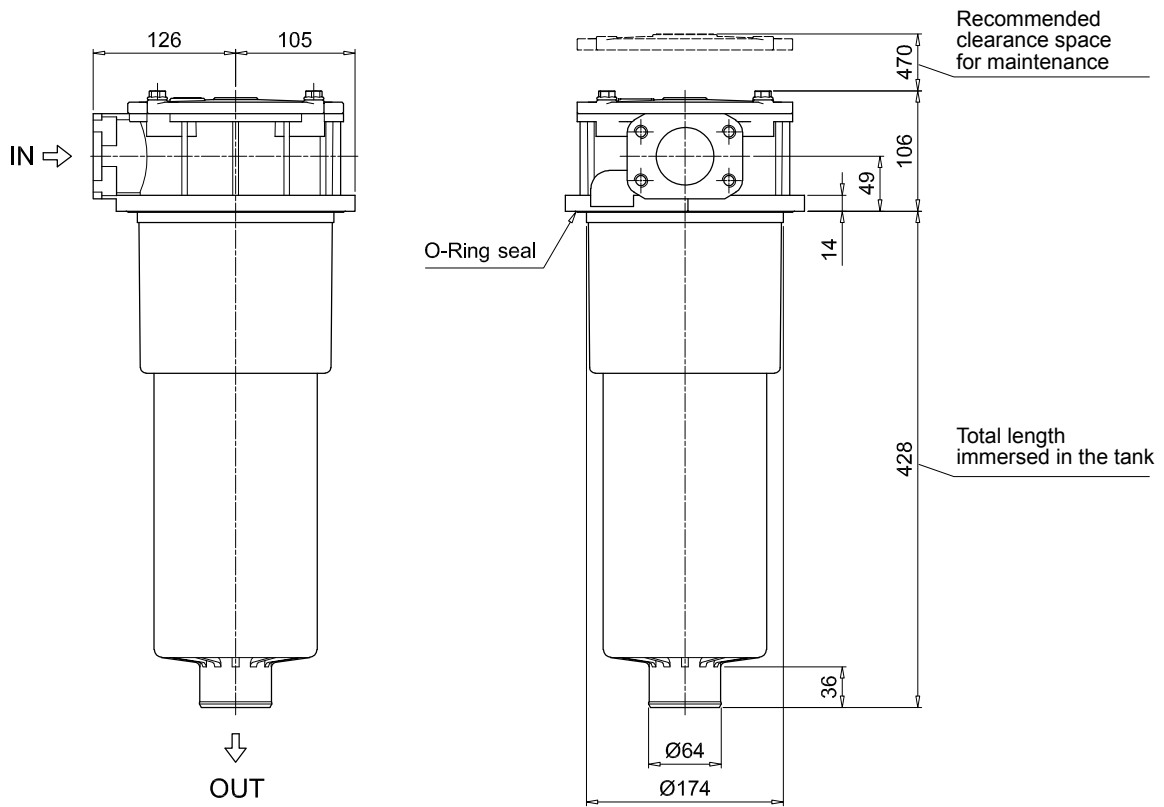
ACCESSORIES

Indicators	page		page
BVA Axial pressure gauge	216	BEA Electrical pressure indicator	215
BVR Radial pressure gauge	216	BEM Electrical pressure indicator	215
BVP Visual pressure indicator with automatic reset	217	BLA Electrical / visual pressure indicator	215-216
BVQ Visual pressure indicator with manual reset	217		
Additional features	page		
Sxx Extension tube	224		
T5 Filler plug M30x1.5	225		



Dimensions

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