

MPF series

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



FILTER SIZING

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THE CORRECT FILTER SIZING HAVE TO BE BASED ON THE TOTAL PRESSURE DROP DEPENDING BY THE APPLICATION.

FOR EXAMPLE, THE MAXIMUM TOTAL PRESSURE DROP ALLOWED BY A NEW AND CLEAN RETURN FILTER HAVE TO BE IN THE RANGE $0.4 \div 0.6$ 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 Δp_c of the housing is proportional to the fluid density (kg/dm^3); all the graphs in the catalogue are referred to mineral oil with density of 0.86 kg/dm^3 .

The filter element pressure drop Δp_e is proportional to its viscosity (mm^2/s), the corrective factor Y have to be used in case of an oil viscosity different than $30 \text{ mm}^2/\text{s}$ (cSt).

Sizing data for single filter element, head at top

Δp_c = Filter housing pressure drop [bar]

Δp_e = Filter element pressure drop [bar]

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

Q = flow rate (l/min)

V1 reference oil viscosity = $30 \text{ mm}^2/\text{s}$ (cSt)

V2 = operating oil viscosity in mm^2/s (cSt)

Filter element pressure drop calculation with an oil viscosity different than $30 \text{ mm}^2/\text{s}$ (cSt)

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

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

Verification formula

$\Delta p_{\text{Tot.}} \leq \Delta p_{\text{max allowed}}$

Maximum total pressure drop (Δp_{max}) allowed by a new and clean filter

Application	Range (bar)
Suction filters	$0.08 \div 0.10$
Return filters	$0.4 \div 0.6$
	$0.4 \div 0.6$ return lines
	$0.3 \div 0.5$ lubrication lines
Low & Medium Pressure filters	$0.3 \div 0.4$ off-line in power systems
	$0.1 \div 0.3$ off-line in test benches
	$0.4 \div 0.6$ over-boost
High Pressure filters	$0.8 \div 1.5$
Stainless Steel filters	$0.8 \div 1.5$

Generic filter calculation example

Application data:

Tank top return filter

Pressure $P_{\text{max}} = 10$ bar

Flow rate $Q = 120$ l/min

Viscosity $V2 = 46 \text{ mm}^2/\text{s}$ (cSt)

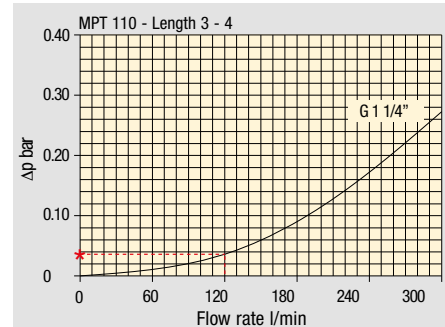
Oil density = 0.86 kg/dm^3

Required filtration efficiency = $25 \mu\text{m}$ with absolute filtration

With bypass valve and G 1 1/4" inlet connection

Calculation:

$\Delta p_c = 0.03$ bar (see graphic below)



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

$\Delta p_e = (2.00 : 1000) \times 120 \times (46 : 30) = 0.37$ bar

Filter element	Absolute filtration H Series					Nominal filtration N Series		
	A03	A06	A10	A16	A25	P10	P25	M25 M60 M90
Return filters								
MF 020	2	74.00	50.08	20.00	16.00	9.00	6.43	5.51
	3	29.20	24.12	8.00	7.22	5.00	3.33	2.85
	4	22.00	19.00	6.56	5.33	4.33	1.68	1.44
MF 030 MFX 030	1	74.00	50.08	20.00	16.00	9.00	6.43	5.51
	2	28.20	24.40	8.67	8.17	6.88	4.62	3.96
	3	17.33	12.50	6.86	5.70	4.00	3.05	2.47
MF 100 MFX 100	1	10.25	9.00	3.65	3.33	2.50	1.63	1.32
	2	6.10	5.40	2.30	2.20	2.00	1.19	0.96
	3							0.82

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

The selection is correct because the total pressure drop value is inside the admissible range for top tank return filters.

In case the allowed max total pressure drop is not verified, it is necessary to repeat the calculation changing the filter length/size.

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 length and to the filter media.
Reference oil 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
MLX 250	2	3.00	3.04	1.46	1.25	1.17	-	-	M25 0.20
MLX 660	2	1.29	1.26	0.52	0.44	0.38	-	-	M25 0.10
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

Return / Suction filters

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

Filter element		Absolute filtration N Series							
Type		A03	A06	A10	A16	A25	P10	P25	M25 M60 M90
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	4.16	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

Low & Medium pressure filters

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

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 oil viscosity 30 mm²/s

High pressure filters

Filter element		Absolute filtration N - R Series					Nominal filtration N Series
Type		A03	A06	A10	A16	A25	M25
HP 011	1	332.71	250.07	184.32	152.36	128.36	-
	2	220.28	165.56	74.08	59.13	37.05	-
	3	123.24	92.68	41.48	33.08	20.72	-
	4	77.76	58.52	28.37	22.67	16.17	-
HP 039	2	70.66	53.20	25.77	20.57	14.67	4.90
	3	36.57	32.28	18.00	13.38	8.00	2.90
	4	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 150	1	17.53	15.91	7.48	6.96	5.94	1.07
	2	8.60	8.37	3.54	3.38	3.15	0.58
	3	6.53	5.90	2.93	2.79	2.12	0.49
HP 320	1	10.88	9.73	5.02	3.73	2.54	1.04
	2	4.40	3.83	1.75	1.48	0.88	0.71
	3	2.75	2.11	1.05	0.87	0.77	0.61
	4	2.12	1.77	0.98	0.78	0.55	0.47
HP 500	1	4.44	3.67	2.30	2.10	1.65	0.15
	2	3.37	2.77	1.78	1.68	1.24	0.10
	3	2.22	1.98	1.11	1.09	0.75	0.08
	4	1.81	1.33	0.93	0.86	0.68	0.05
	5	1.33	1.15	0.77	0.68	0.48	0.04

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

Suction filters

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

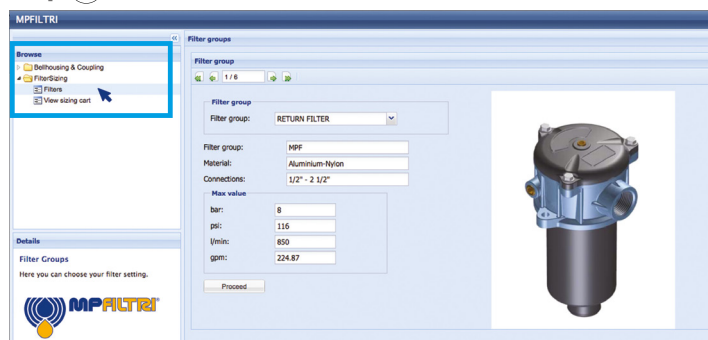
Stainless steel high pressure filters

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	8.80	5.58
HP 050	1	31.75	30.30	13.16	12.3	7.29
	2	24.25	21.26	11.70	9.09	4.90
	3	17.37	16.25	8.90	7.18	3.63
	4	12.12	10.75	6.10	5.75	3.08
	5	7.00	6.56	3.60	3.10	2.25
HP 135	1	20.33	18.80	9.71	8.66	4.78
	2	11.14	10.16	6.60	6.38	2.22
	3	6.48	6.33	3.38	3.16	2.14

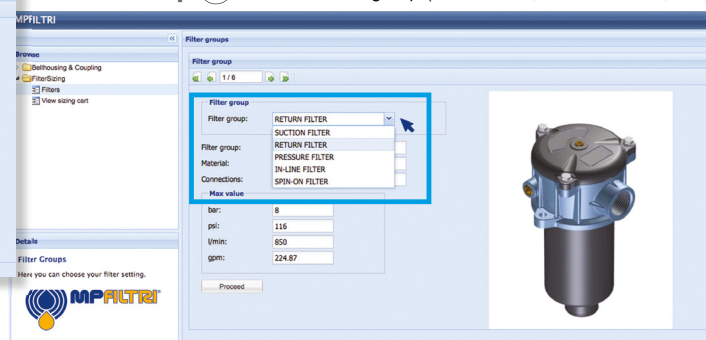
Filter element		Absolute filtration H - U Series				
Type		A03	A06	A10	A16	A25
HP 011	1	424.58	319.74	235.17	194.44	163.78
	2	281.06	211.25	94.53	75.45	47.26
	3	130.14	97.50	43.63	34.82	21.81
	4	109.39	82.25	36.79	29.37	18.40
HP 039	2	73.00	57.00	28.00	24.00	17.20
	3	40.90	36.33	21.88	18.80	11.20
	4	31.50	28.22	17.22	9.30	6.70
HP 050	1	47.33	34.25	21.50	20.50	14.71
	2	29.10	25.95	14.04	10.90	5.88
	3	20.85	19.50	10.68	8.61	4.36
	4	14.55	12.90	7.32	6.90	3.69
	5	9.86	9.34	6.40	4.80	2.50
HP 135	1	29.16	25.33	13.00	12.47	5.92
	2	14.28	11.04	7.86	7.60	4.44
	3	8.96	7.46	4.89	4.16	3.07

FILTER SIZING Selection Software

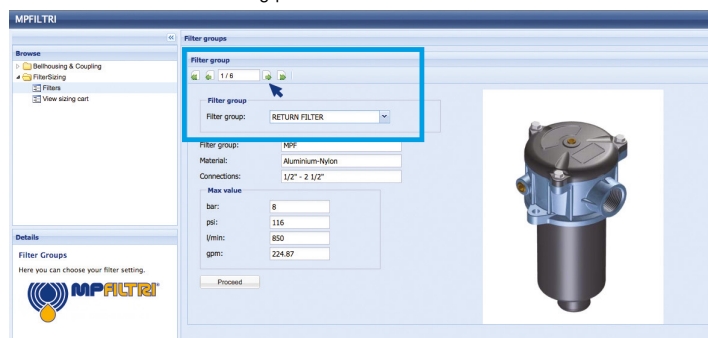
Step 1 Select "FILTERS"



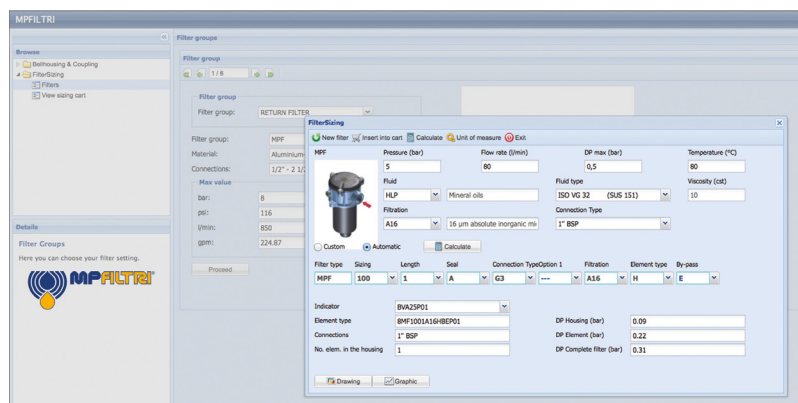
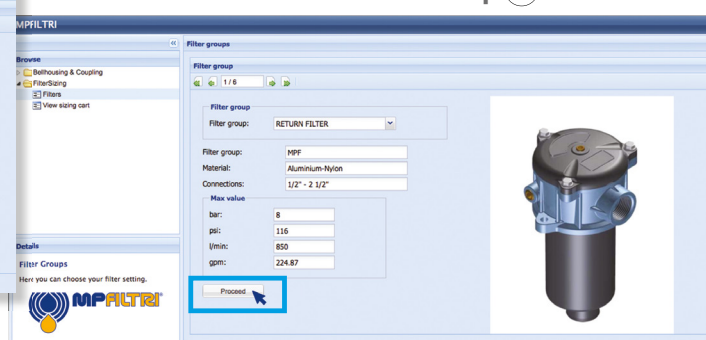
Step 2 Choose filter group (Return Filter, Pressure Filter, etc.)



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



Step 4 Push "PROCEED"



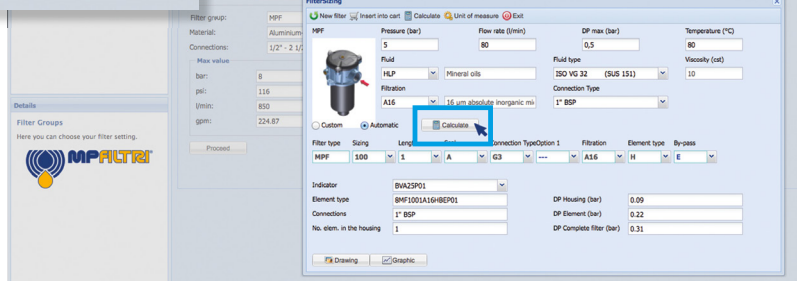
Step 5

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 MP Filtri filter elements 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 Italian Patent n° 102015000040473 and by one or more of the following patent applications:

European Patent Pending: n° 16181725.9

US Patent Pending: n° 15/224,337

Canadian Patent Pending: n° 2,937,258



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

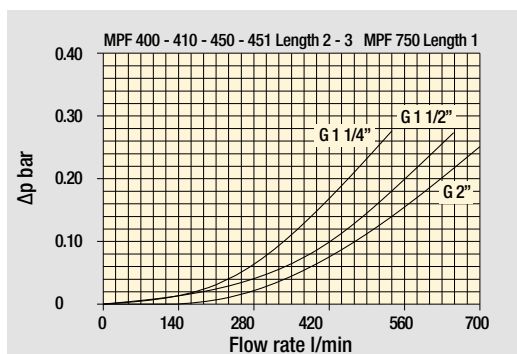
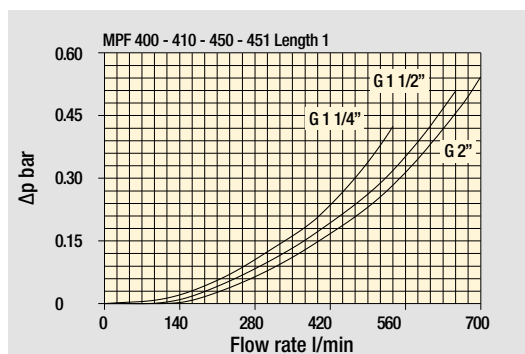
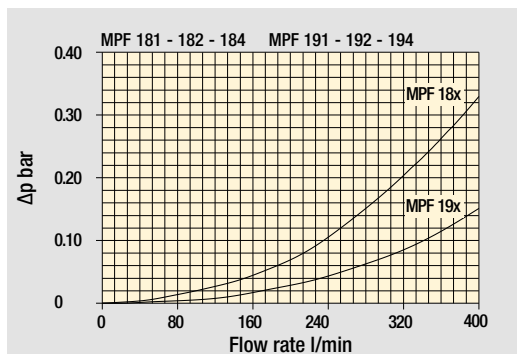
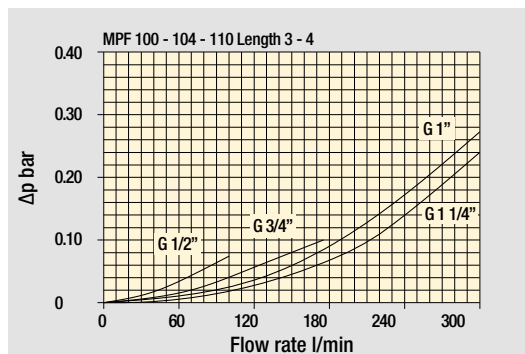
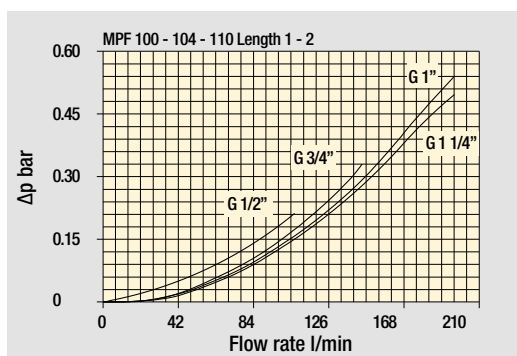
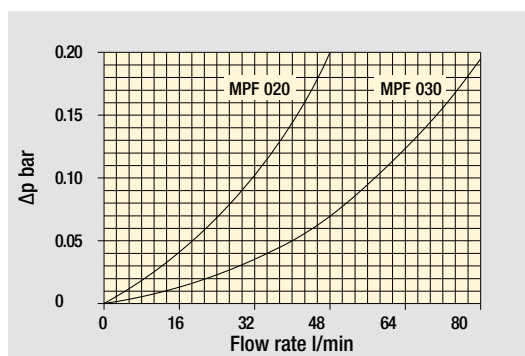
MPF filters are provided for vertical mounting



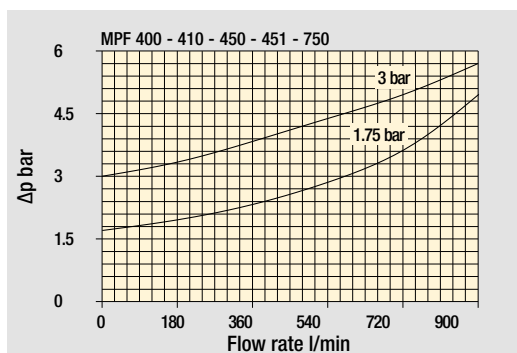
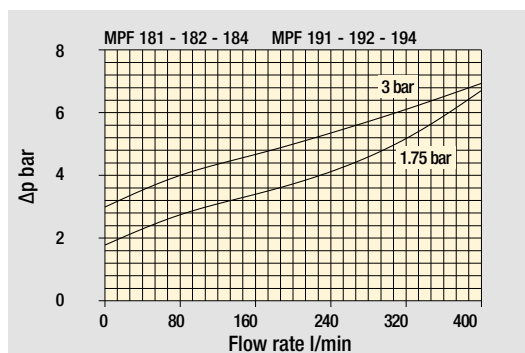
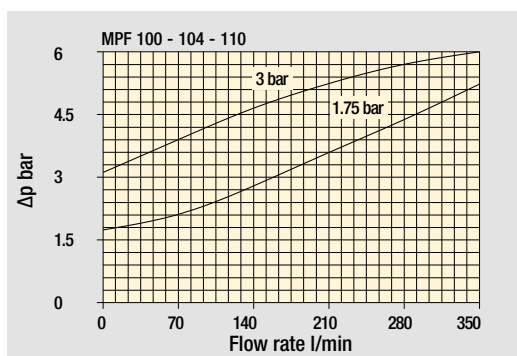
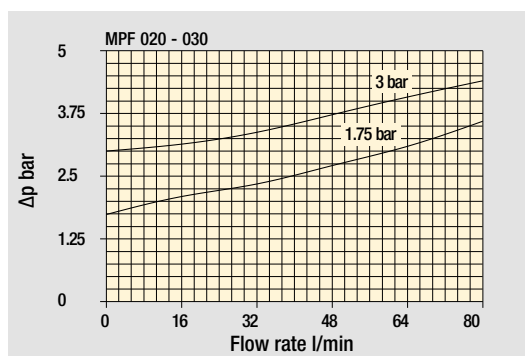
Weights [kg] and volumes [dm³]

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.

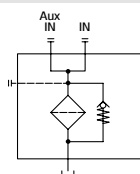
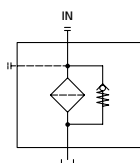
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

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

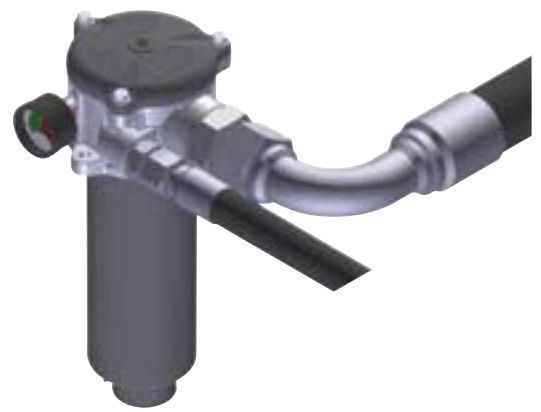
Filter series	Style 1 connection	Style 2 connections
MPF 020	•	
MPF 030	•	
MPF 100	•	
MPF 104	•	
MPF 110		•
MPF 181	•	
MPF 182		•
MPF 184	•	•
MPF 191	•	
MPF 192	•	
MPF 194	•	•
MPF 400	•	
MPF 410		•
MPF 450	•	
MPF 451		•
MPF 750	•	



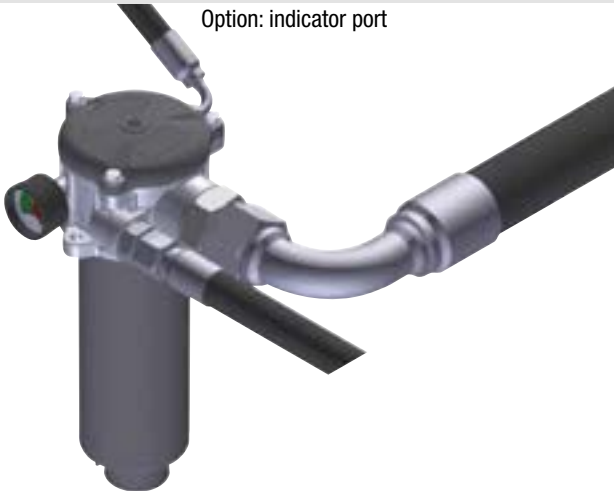
Standard - Single IN port



Double IN port
Option: double indicator port



Double IN port - Drain port
Option: indicator port



Double IN port - Double drain port



Designation & Ordering code

COMPLETE FILTER

Series and size			Configuration example 1:		MPF020	1	A	P1	A10	H	E	P01
MPF020 MPF030 Filter element with standard spigot			Configuration example 2:		MPF030	1	V	G1	M25	N	B	P01
Length												
1												
Seals and treatments												
A NBR												
V FPM												
W NBR head anodized												
Z FPM head anodized												
Connections			Size 20	Size 30								
P1 Hose barb ø12			•									
G1 G 1/2"				•								
G4 1/2" NPT				•								
G7 SAE 8 - 3/4" - 16 UNF				•								
Filtration rating (filter media)												
A03 Inorganic microfiber 3 µm			M25 Wire mesh 25 µm									
A06 Inorganic microfiber 6 µm			M60 Wire mesh 60 µm									
A10 Inorganic microfiber 10 µm			M90 Wire mesh 90 µm									
A16 Inorganic microfiber 16 µm			P10 Resin impregnated paper 10 µm									
A25 Inorganic microfiber 25 µm			P25 Resin impregnated paper 25 µm									
			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

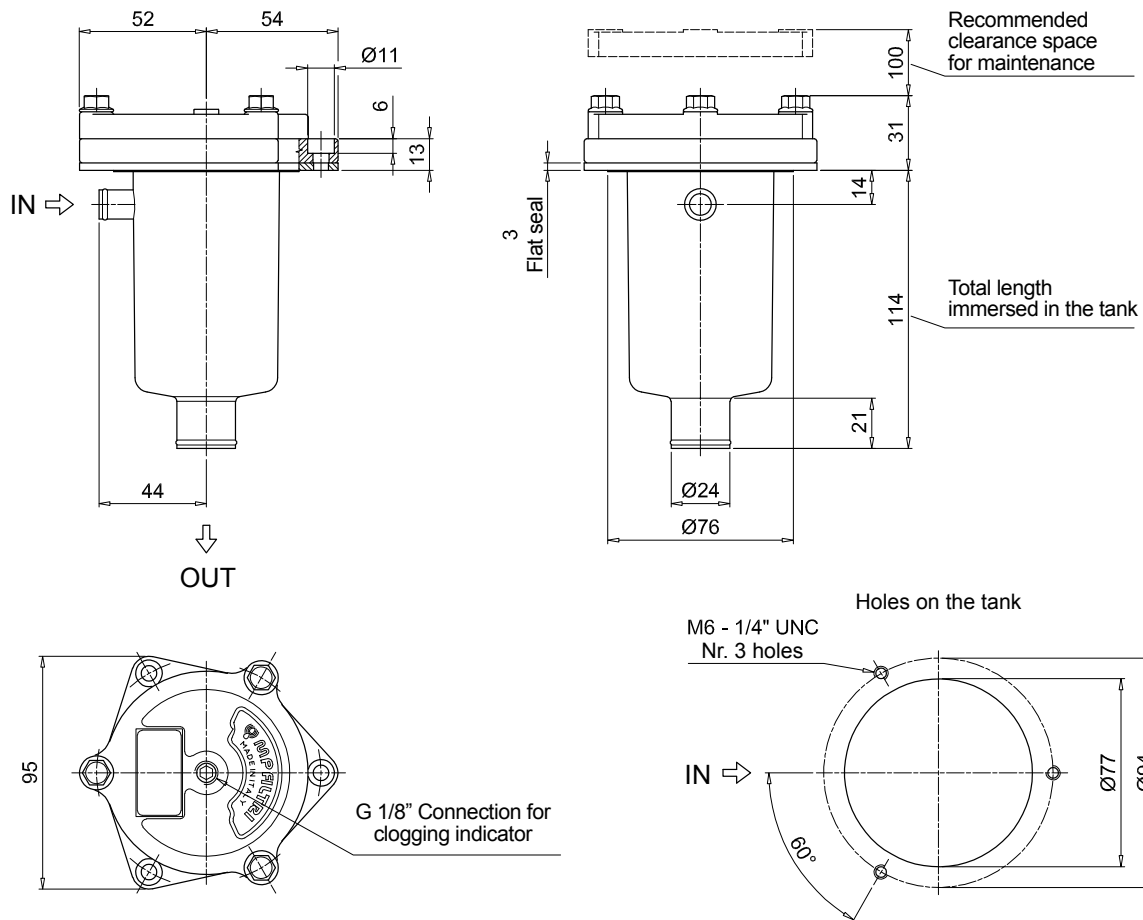
Element series and size				Configuration example 1:		MF030	1	A10	H	B	E	P01
MF030 Filter element with standard spigot				Configuration example 2:		MF030	1	M25	N	V		P01
Element length												
1												
Filtration rating (filter media)												
A03 Inorganic microfiber 3 µm		M25 Wire mesh 25 µm										
A06 Inorganic microfiber 6 µm		M60 Wire mesh 60 µm										
A10 Inorganic microfiber 10 µm		M90 Wire mesh 90 µm										
A16 Inorganic microfiber 16 µm		P10 Resin impregnated paper 10 µm										
A25 Inorganic microfiber 25 µm		P25 Resin impregnated paper 25 µm										
				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

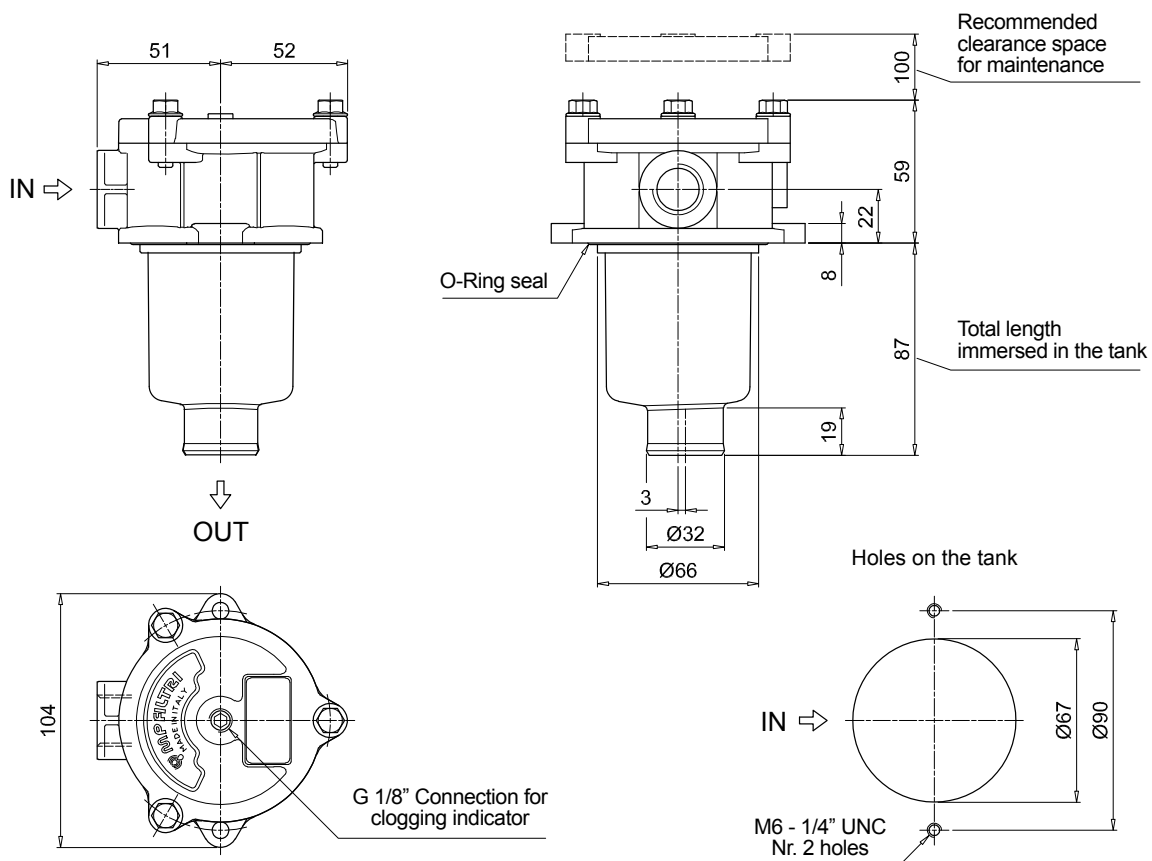
Indicators		page
BVA	Axial pressure gauge	240
BVR	Radial pressure gauge	240
BVP	Visual pressure indicator with automatic reset	241
BVQ	Visual pressure indicator with manual reset	241
Additional features		page
TE	Extension tube	248
T5	Filler plug M30x1.5	249

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

MPF020



MPF030



MPF MPF100 - MPF104

Designation & Ordering code

COMPLETE FILTER

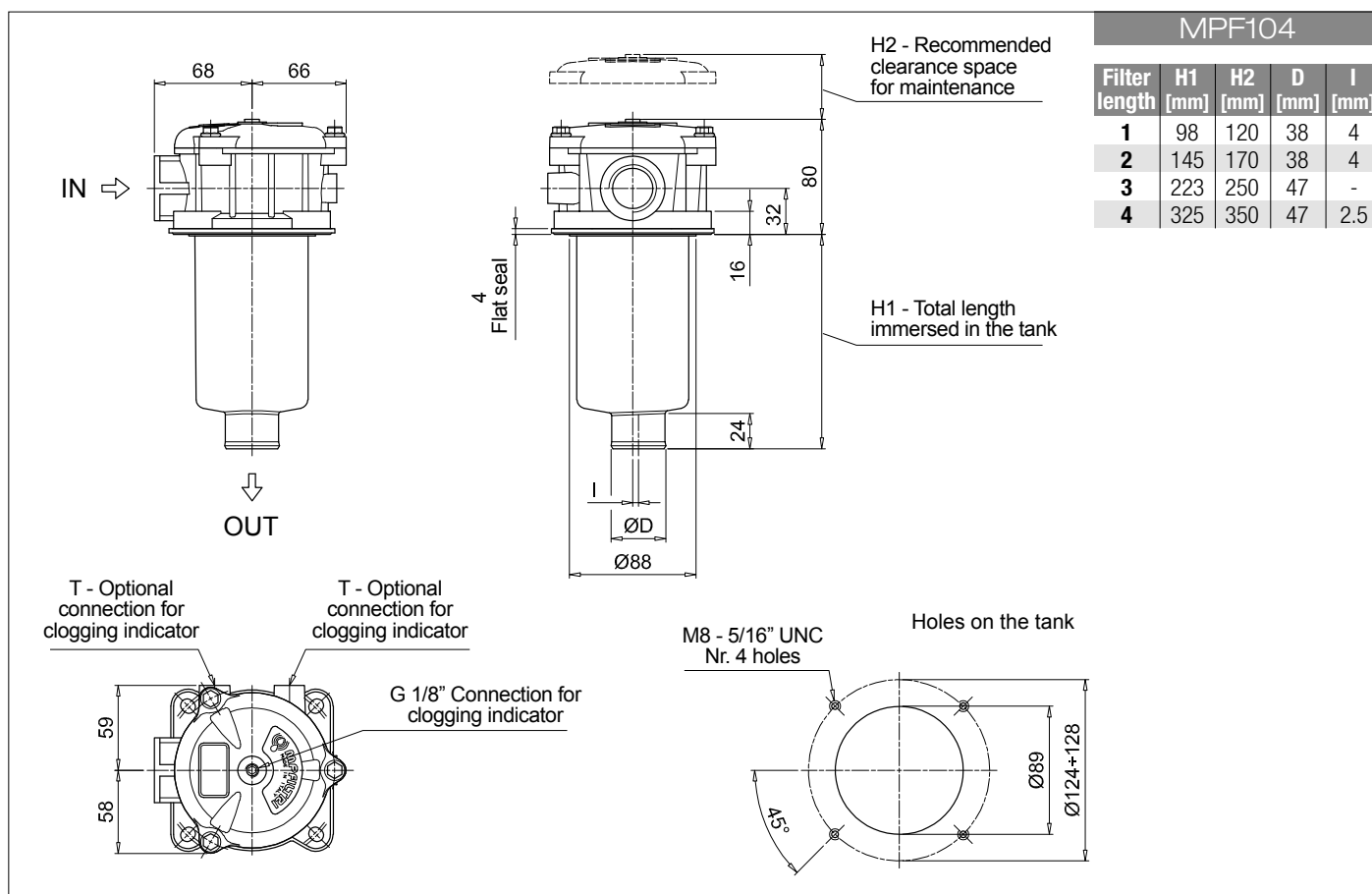
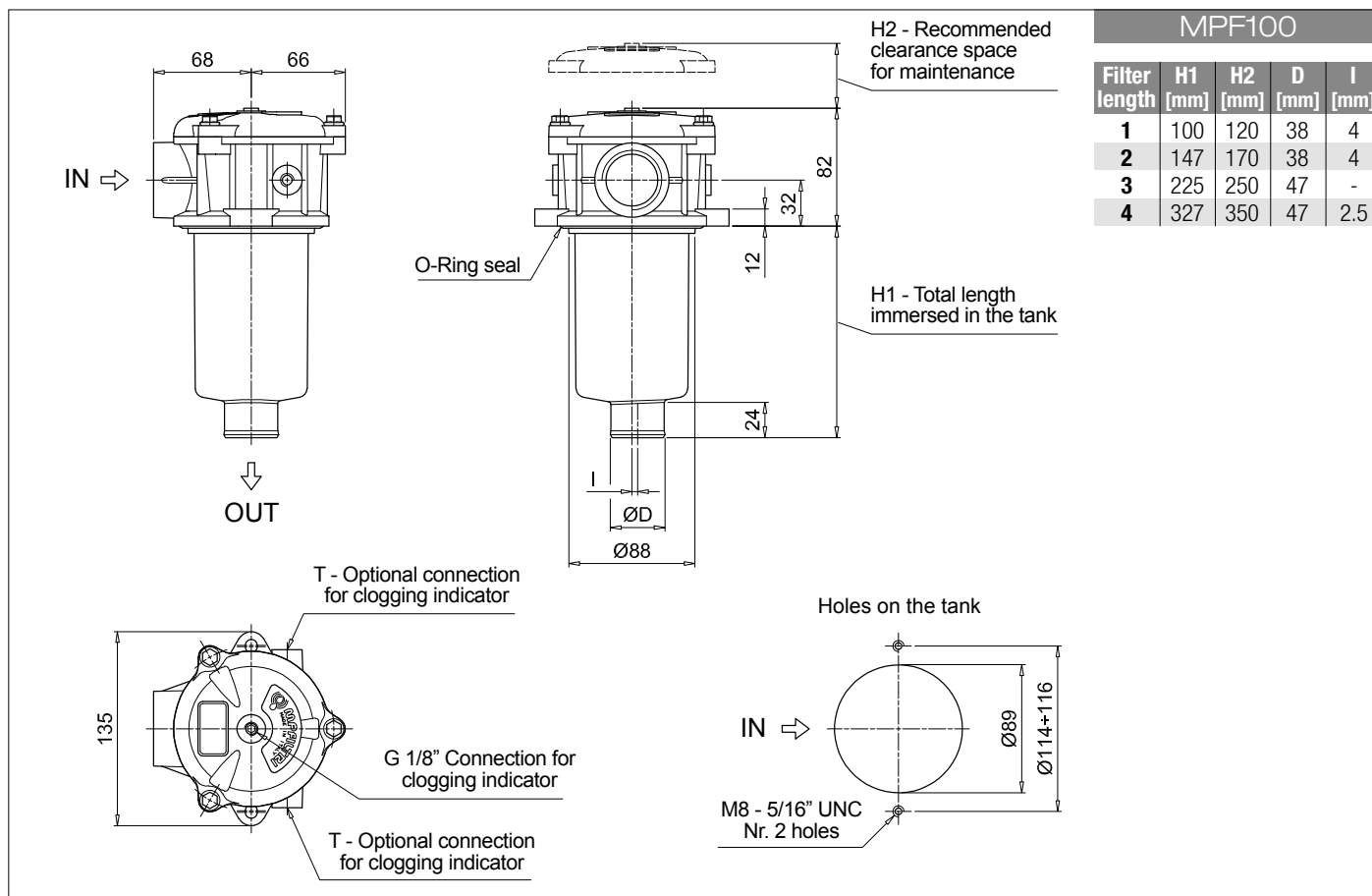
Series and size			Configuration example 1:									
MPF100 MPF104 Filter element with standard spigot			MPF100		2	W	G3	A06	W	B	P01	
			Configuration example 2:		MPF104	4	A	G8	P10	N	E	P01
Length												
1 2 3 4												
Seals and treatments												
A NBR												
V FPM												
W NBR head anodized												
Z FPM head anodized												
Connections		Size 100	Size 104	Connections		Size 100	Size 104					
G1 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					

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									
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		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
DFS Diffuser with fast lock connection		249	DPT Dipstick		249



Designation & Ordering code

COMPLETE FILTER

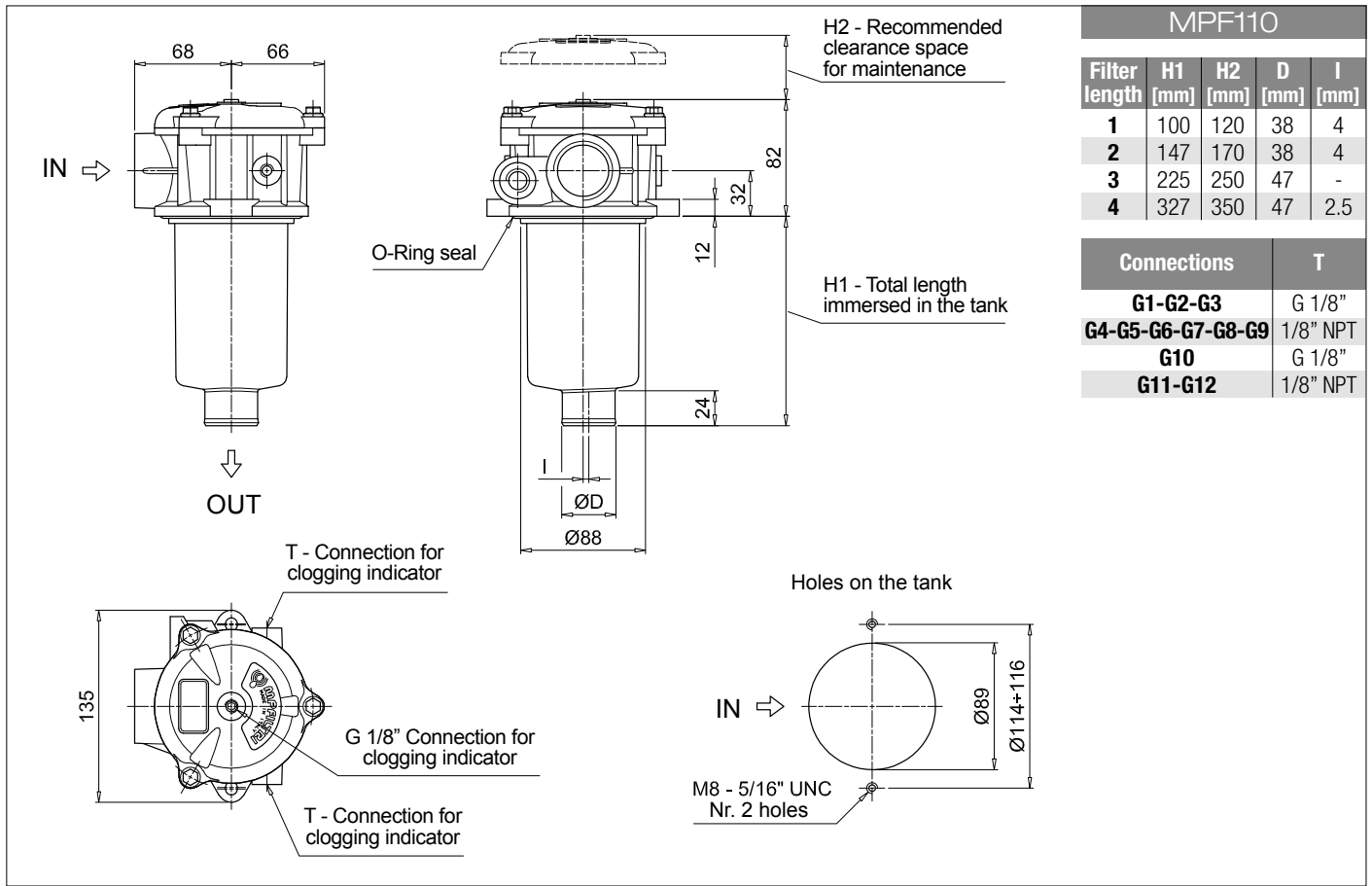
Series and size			Configuration example 1:									
MPF110 Filter element with standard spigot			Configuration example 2:									
			MPF110	2	A	G2	1	A16	H	E	P01	
			MPF110	4	V	G12	1	M60	N	B	P01	
Length												
1 2 3 4												
Seals and treatments												
A NBR			W NBR head anodized									
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												
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									
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			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

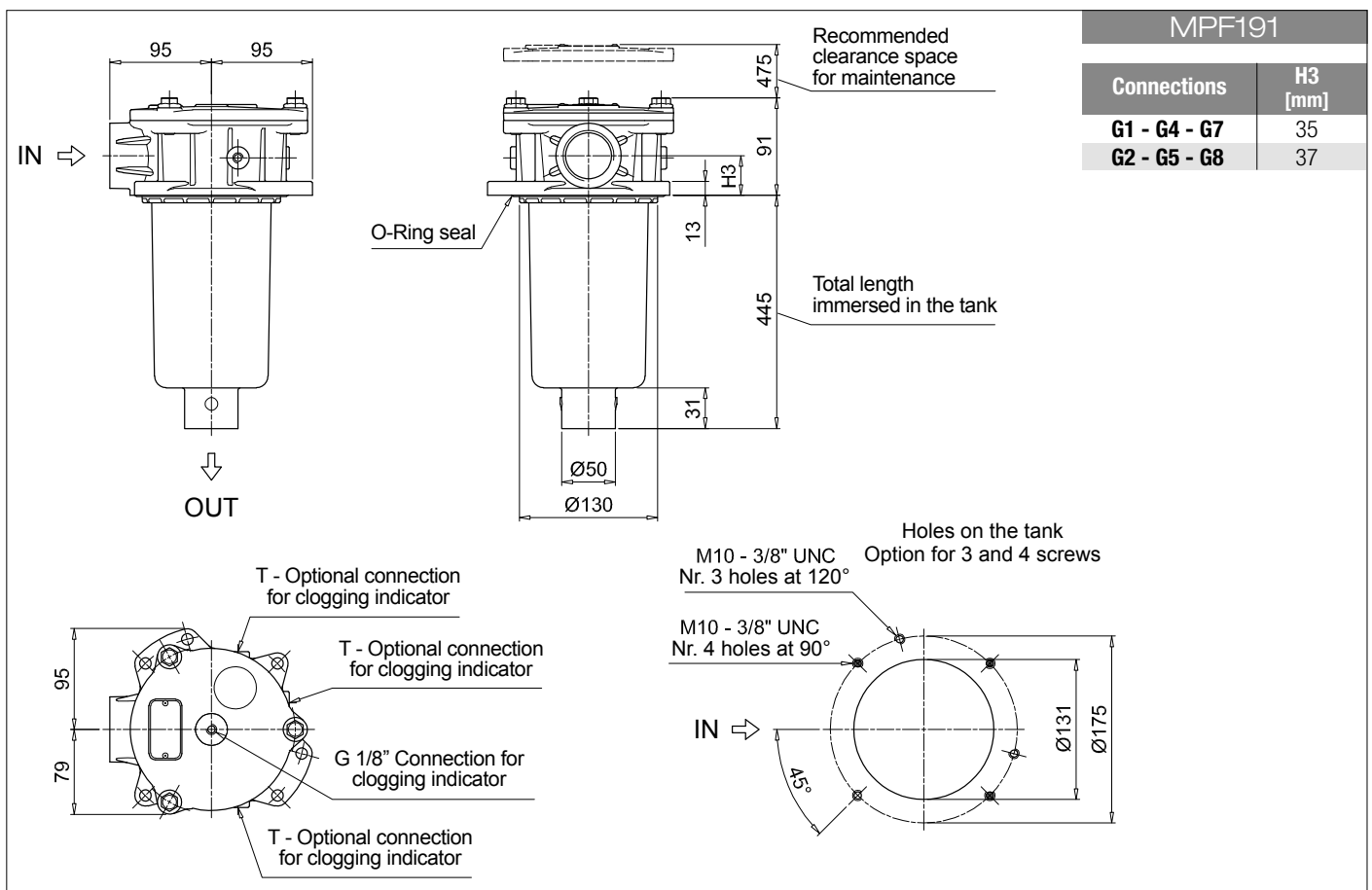
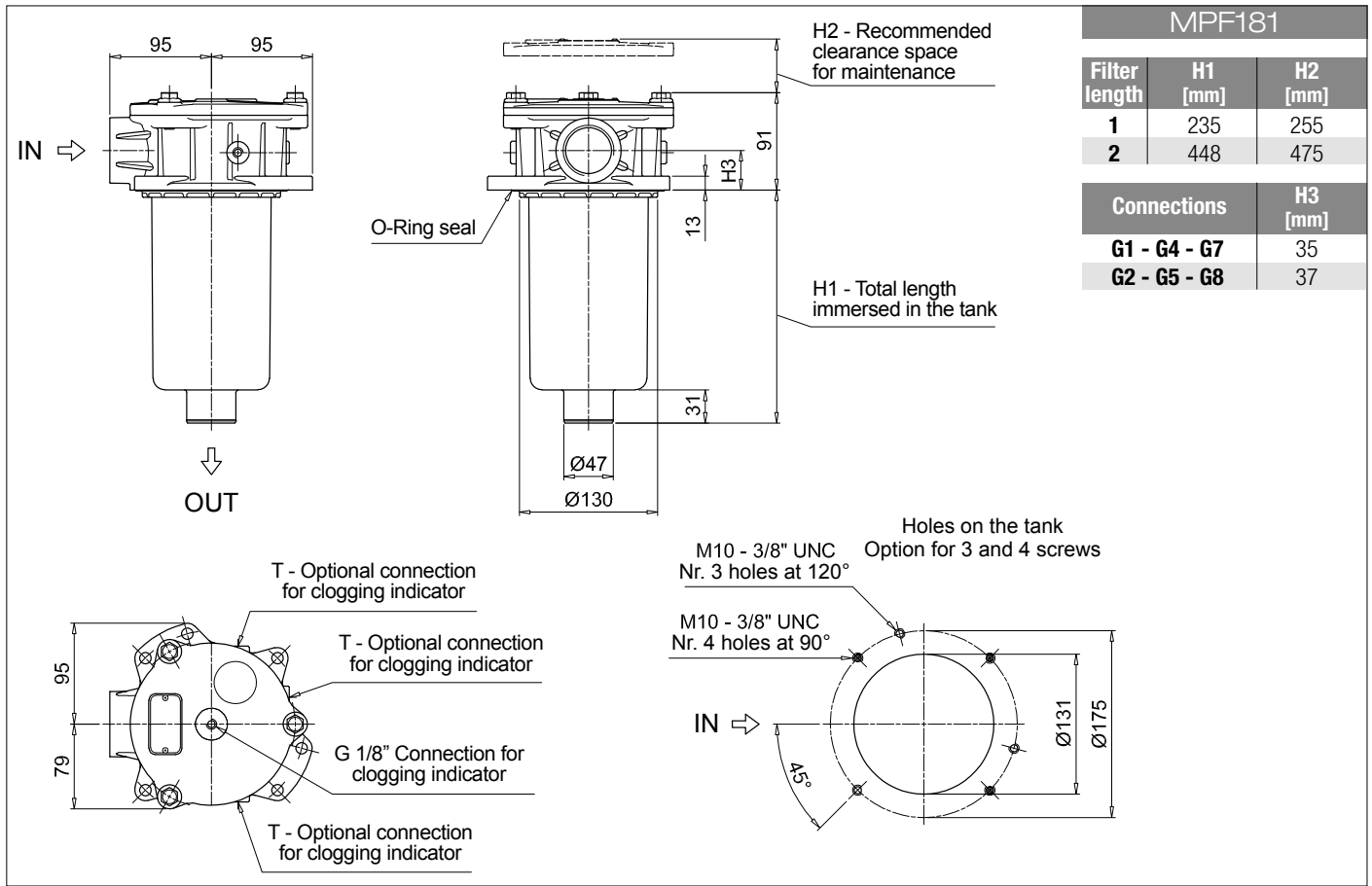
Series and size			Configuration example 1:									
MPF181 MPF191			Filter element with standard spigot									
			Configuration example 2:									
Length			Size 181		Size 191							
1			•									
2			•		•							
Seals and treatments												
A NBR			B NBR flat seal on head									
V FPM			D FPM 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			•	•								

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 MPF182 - MPF192

Designation & Ordering code

COMPLETE FILTER

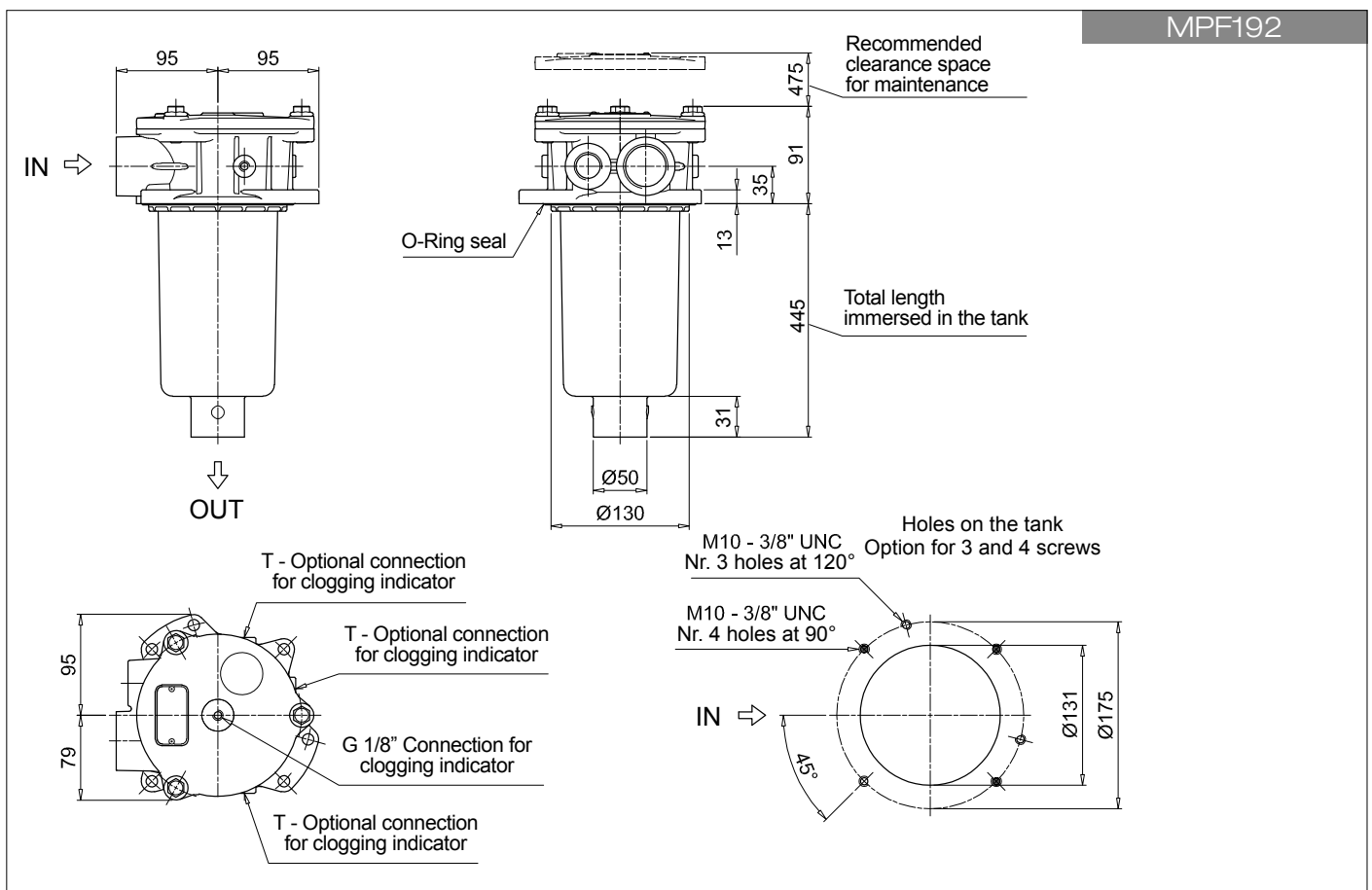
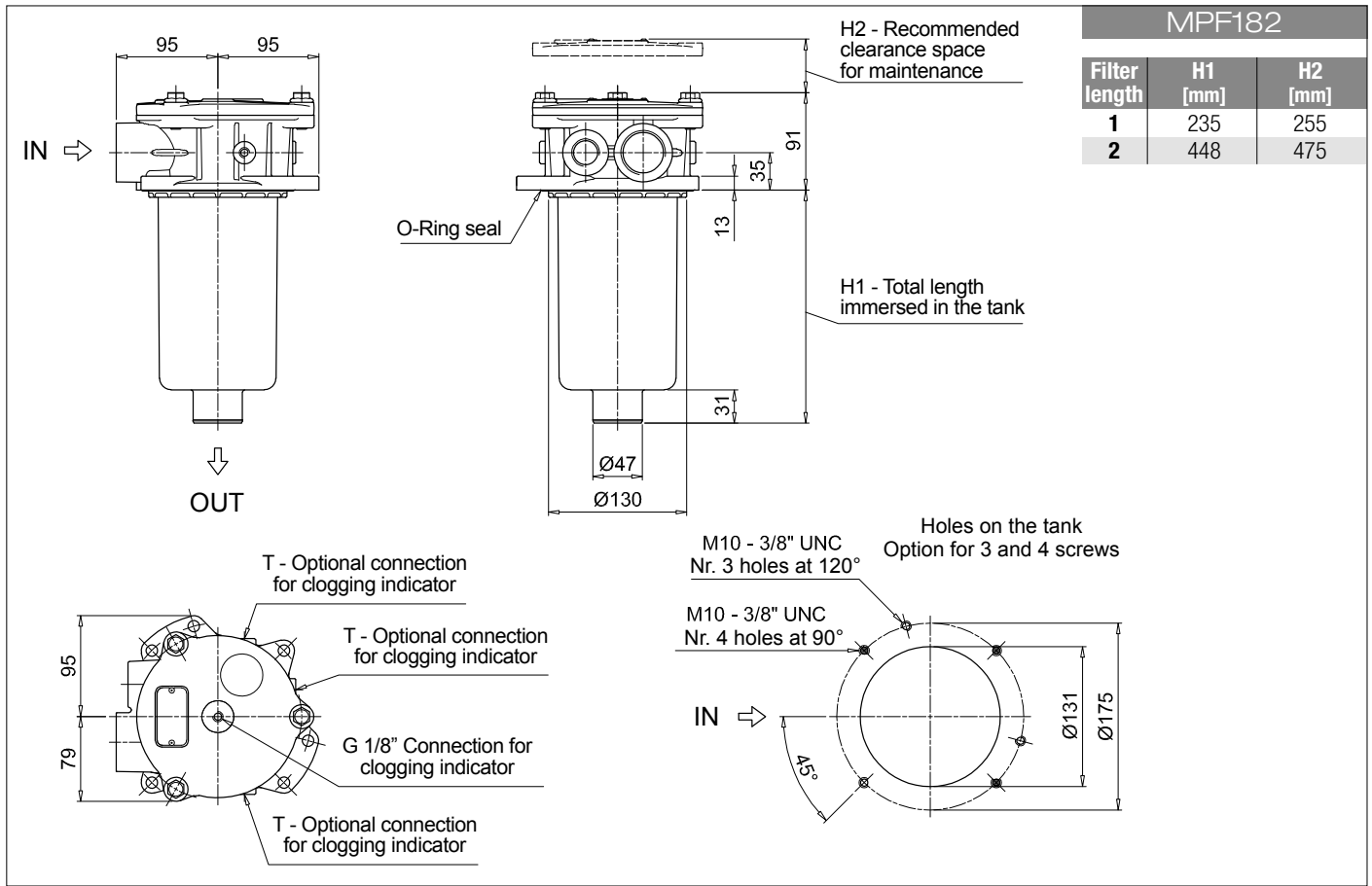
Series and size			Configuration example 1:																						
MPF182 MPF192			Filter element with standard spigot																						
Length			Size 182		Size 192		Configuration example 2:																		
1			•				MPF192		2		V		G4		2		P10		N		B		P01		
2			•		•																				
Seals and treatments																									
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 <td colspan="17"></td>																			
G1 G 1 1/4"			G 1/2"			G 3/4"																			
G4 1 1/4" NPT			1/2" NPT			3/4" NPT																			
G7 SAE 20 - 1 5/8" - 12 UN			SAE 8 - 3/16" - 16 UNF			SAE 12 - 1 1/16" - 12 UN																			
Aux connection - see previous table																									
1 Aux size 1			2 Aux size 2																						
Filtration rating (filter media)																									
A03 Inorganic microfiber 3 µm			M25 Wire mesh 25 µm																						
A06 Inorganic microfiber 6 µm			M60 Wire mesh 60 µm																						
A10 Inorganic microfiber 10 µm			M90 Wire mesh 90 µm																						
A16 Inorganic microfiber 16 µm			P10 Resin impregnated paper 10 µm																						
A25 Inorganic microfiber 25 µm			P25 Resin impregnated paper 25 µm																						
Element Δp			Filter media																						
N 10 bar			Axx			Mxx			Pxx																
H 10 bar			•			•			•																
W 10 bar, compatible with fluids HFA, HFB and HFC			•			•																			
Bypass valve										Execution															
E 3 bar										P01 MP Filtri standard															
B 1.75 bar										Pxx Customized															

FILTER ELEMENT

Element series and size			Configuration example 1: MF180 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

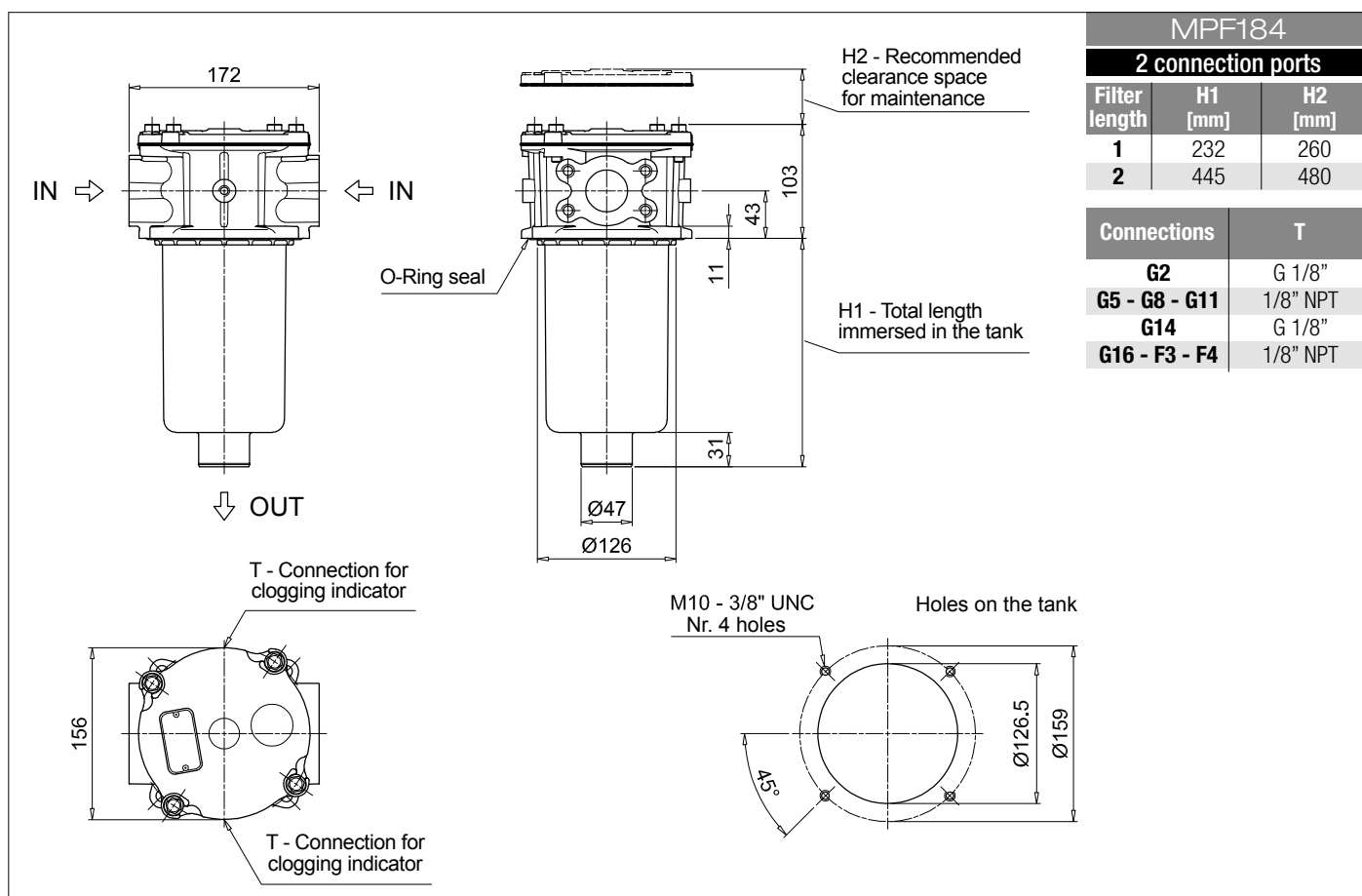
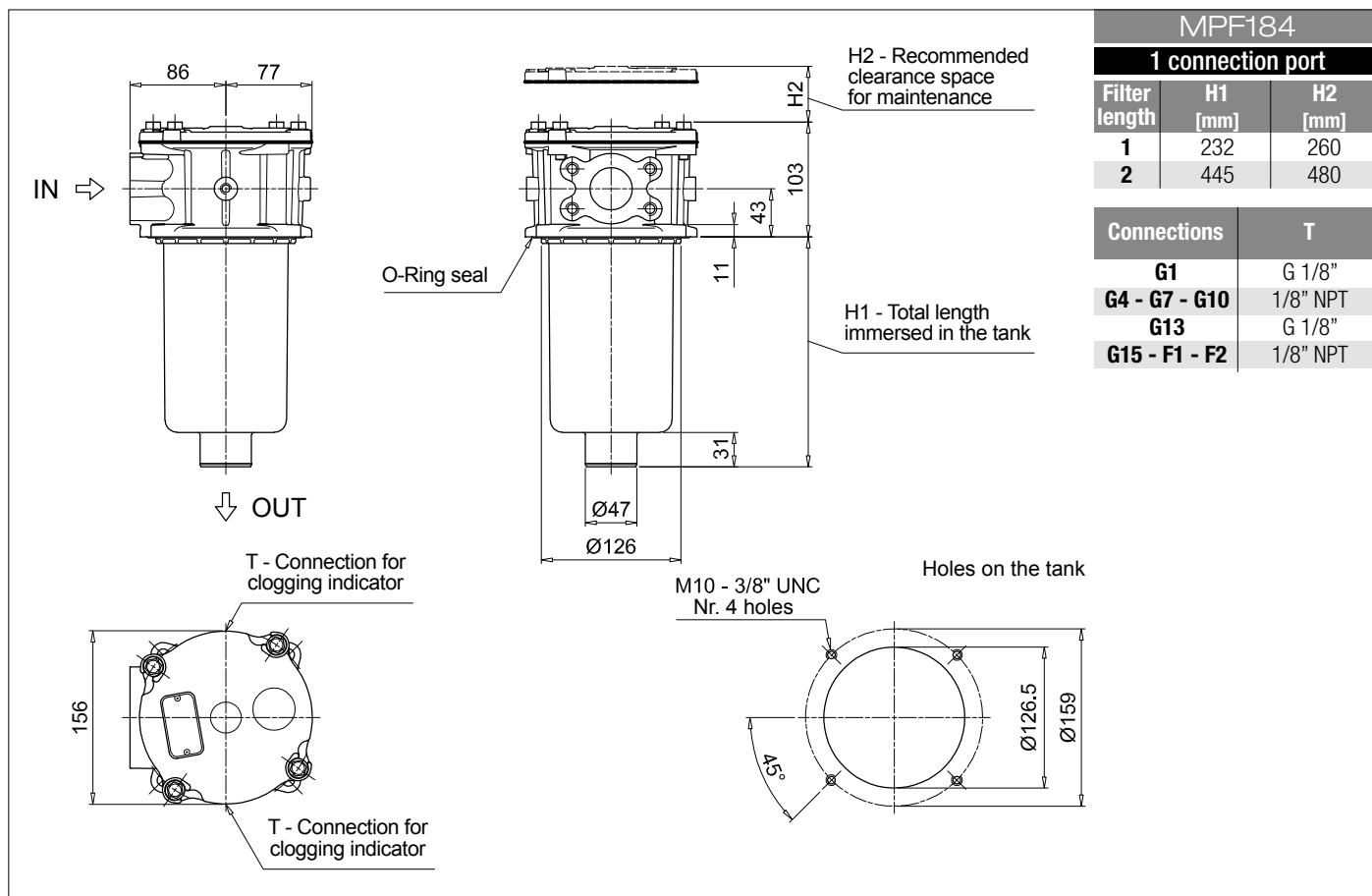
Series and size			Configuration example 1: MPF184 1 A G1 A25 H E P01									
MPF184 MPF194 Filter element with standard spigot			Configuration example 2: MPF194 2 V F3 P10 N B P01									
Length		Size 184	Size 194									
1		•										
2		•	•									
Seals and treatments												
A	NBR	W	NBR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

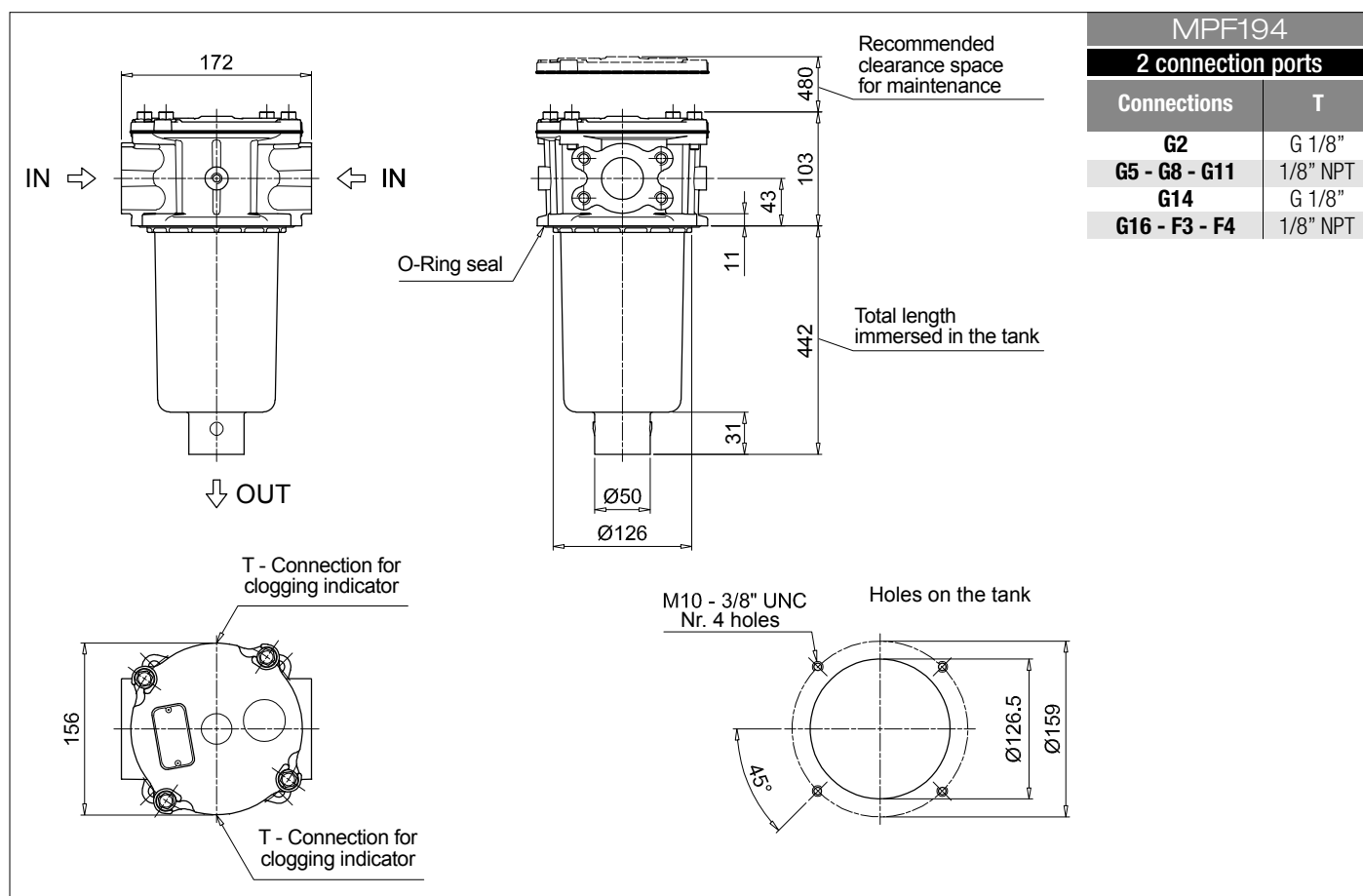
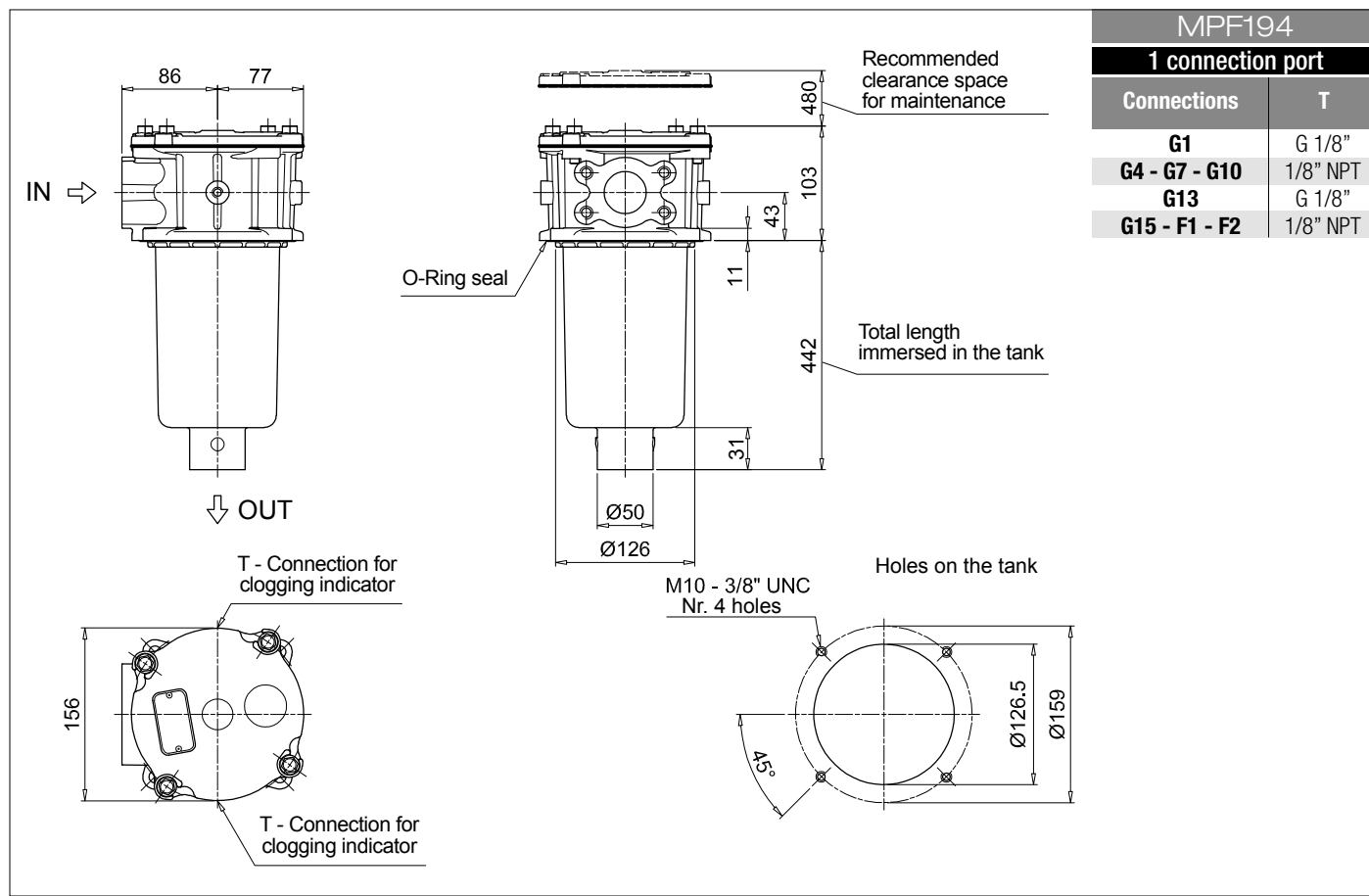
ACCESSORIES

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



Designation & Ordering code

COMPLETE FILTER

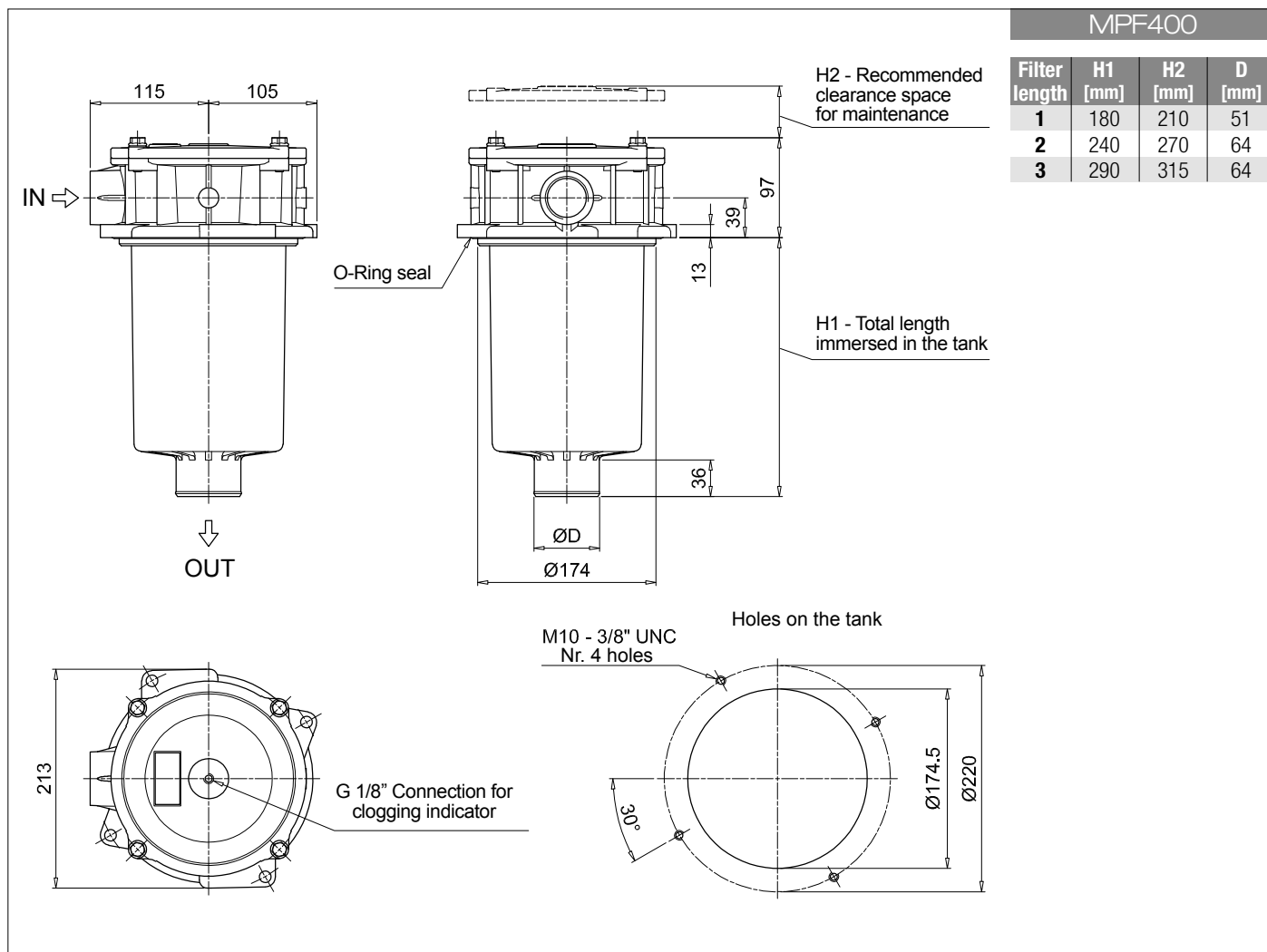
Series and size		Configuration example 1: MPF400 1 A G9 A25 H B P01							
MPF400 Filter element with standard spigot		Configuration example 2: MPF400 2 V G4 P10 N E P01							
Length									
1 2 3									
Seals and treatments									
A NBR									
V FPM									
W NBR head anodized									
Z FPM head anodized									
Connections									
G1 G 1 1/4"									
G2 G 1 1/2"									
G3 G 2"									
G4 1 1/4" NPT									
G5 1 1/2" NPT									
G6 2" NPT									
G7 SAE 20 - 1 5/8" - 12 UN									
G8 SAE 24 - 1 7/8" - 12 UN									
G9 SAE 32 - 2 1/2" - 12 UN									
Filtration rating (filter media)									
A03 Inorganic microfiber 3 µm									
A06 Inorganic microfiber 6 µm									
A10 Inorganic microfiber 10 µm									
A16 Inorganic microfiber 16 µm									
A25 Inorganic microfiber 25 µm									
M25 Wire mesh 25 µm									
M60 Wire mesh 60 µm									
M90 Wire mesh 90 µm									
P10 Resin impregnated paper 10 µm									
P25 Resin impregnated paper 25 µm									
Element Δp		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 Filter element with standard spigot		Configuration example 2:									
Element length											
1 2 3											
Filtration rating (filter media)											
A03 Inorganic microfiber 3 µm											
A06 Inorganic microfiber 6 µm											
A10 Inorganic microfiber 10 µm											
A16 Inorganic microfiber 16 µm											
A25 Inorganic microfiber 25 µm											
M25 Wire mesh 25 µm											
M60 Wire mesh 60 µm											
M90 Wire mesh 90 µm											
P10 Resin impregnated paper 10 µm											
P25 Resin impregnated paper 25 µm											
Element Δp		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			



Designation & Ordering code

COMPLETE FILTER

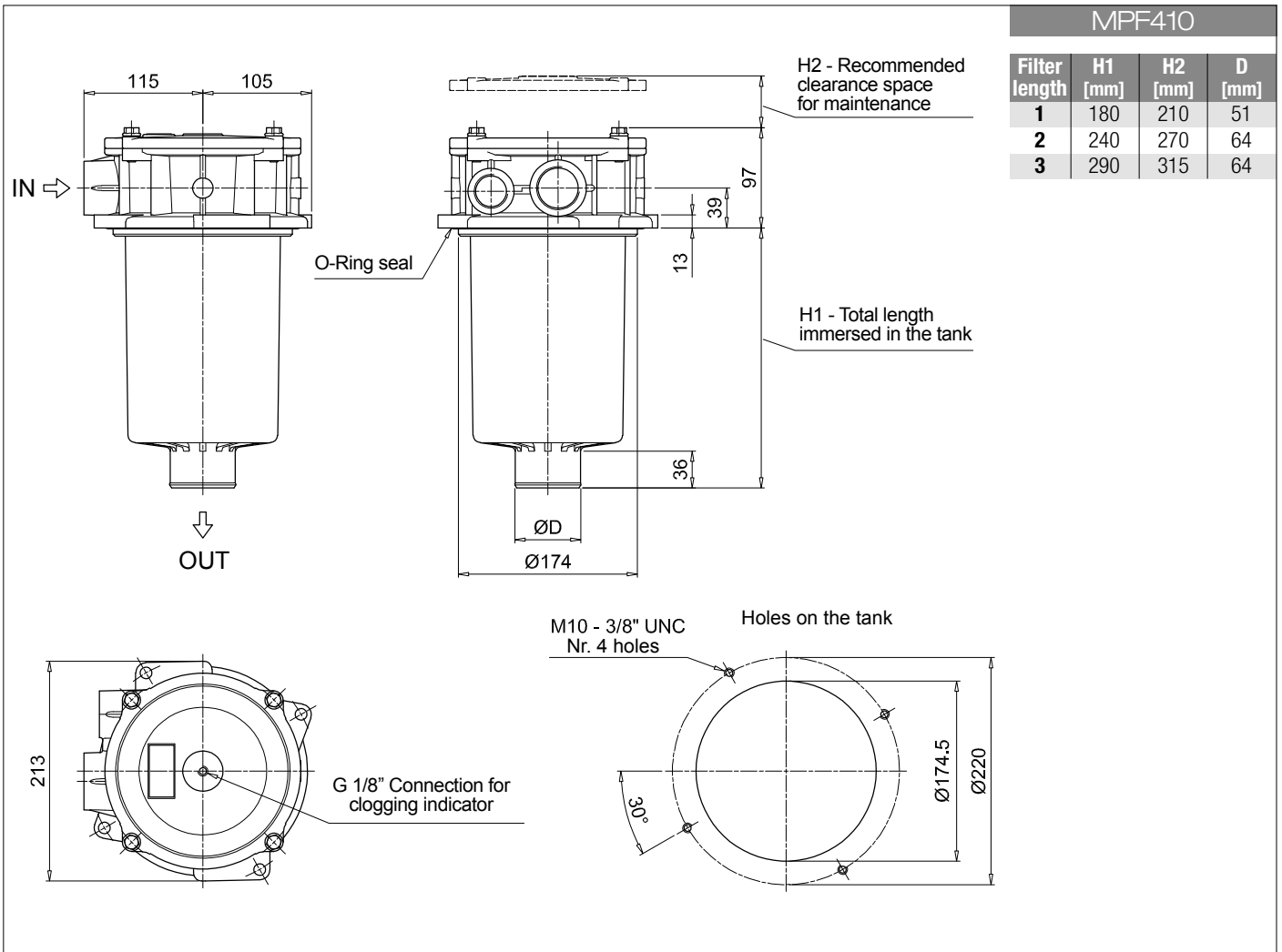
Series and size	Configuration example 1:	MPF410	1	A	G1	1	A25	H	B	P01
MPF410 Filter element with standard spigot	Configuration example 2:	MPF410	1	V	G4	1	P10	N	E	P01
Length										
1 2 3										
Seals and treatments										
A NBR										
V FPM										
W NBR head anodized										
Z FPM head 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

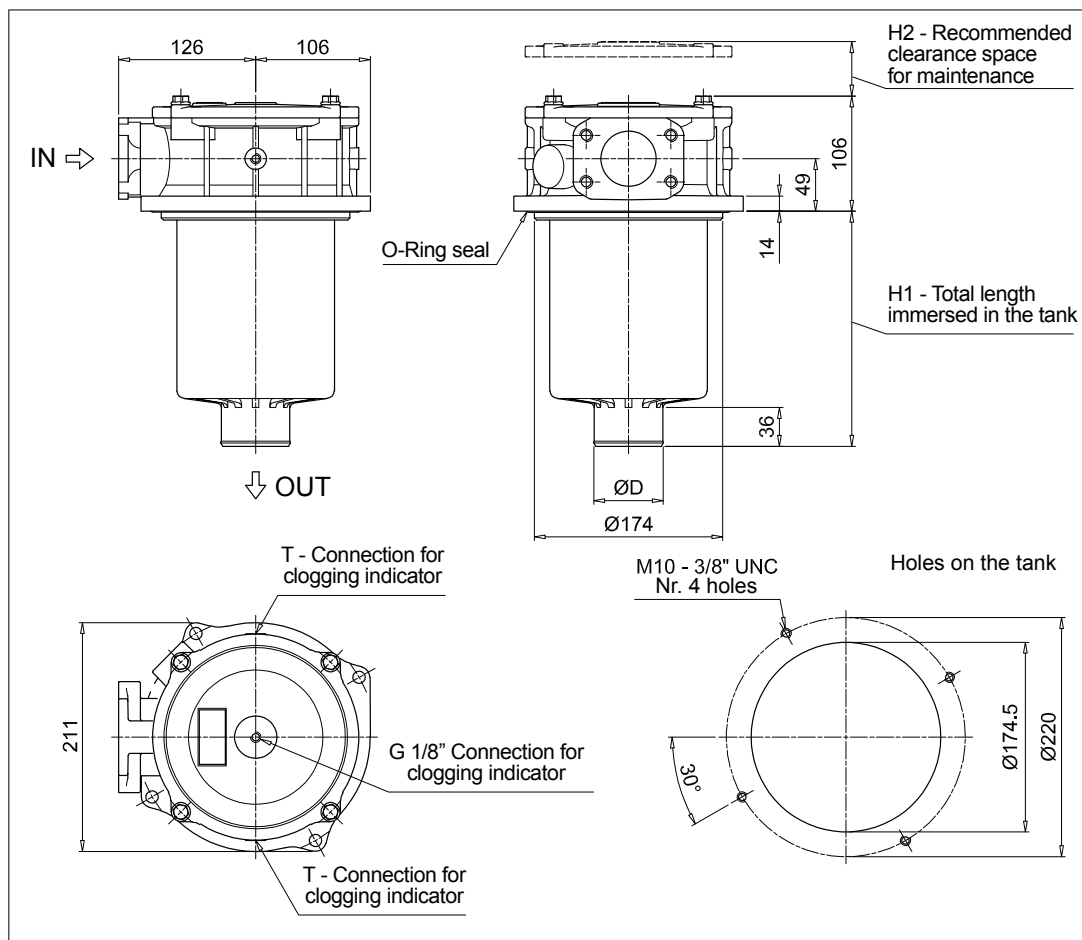
Series and size				Configuration example 1:							
MPF450 MPF451 MPF750				Configuration example 2:							
				MPF450	1	A	G1	A25	H	B	P01
Filter element with standard spigot				MPF750	1	V	F2	P10	N	E	P01
Length				MPF 450	MPF 451	MPF 750					
1				•	•	•					
2				•	•						
3				•	•						
Seals and treatments											
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									
N	10 bar	Axx	Mxx	Pxx							
H	10 bar		•	•							
W	10 bar, compatible with fluids HFA, HFB and HFC	•	•								
		Seals		Bypass valve		Execution					
		B	NBR	E	3 bar	P01	MP Filtri standard				
		V	FPM		1.75 bar	Pxx	Customized				

ACCESSORIES

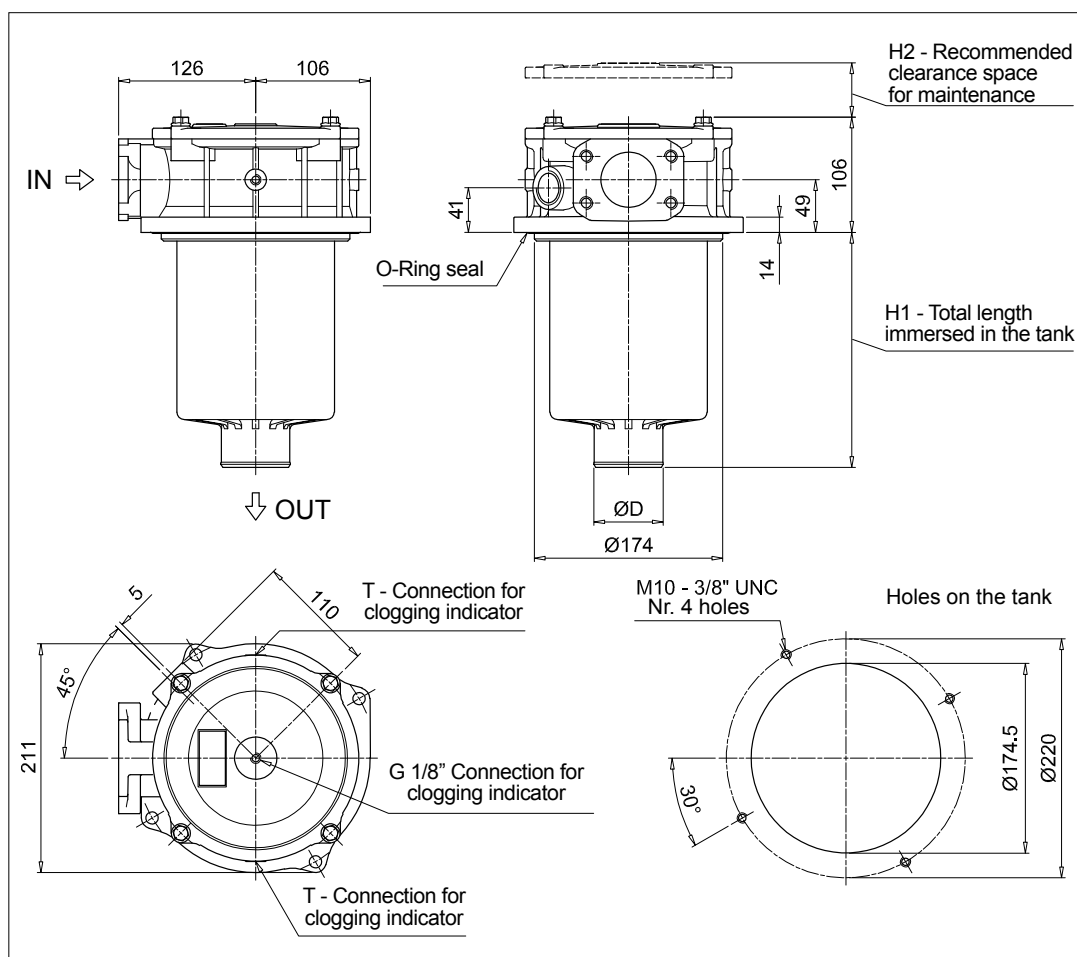
Indicators		page			page
BVA	Axial pressure gauge	240	BEA	Electrical pressure indicator	239
BVR	Radial pressure gauge	240	BEM	Electrical pressure indicator	239
BVP	Visual pressure indicator with automatic reset	241	BLA	Electrical / visual pressure indicator	239-240
BVQ	Visual pressure indicator with manual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



MPF450

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

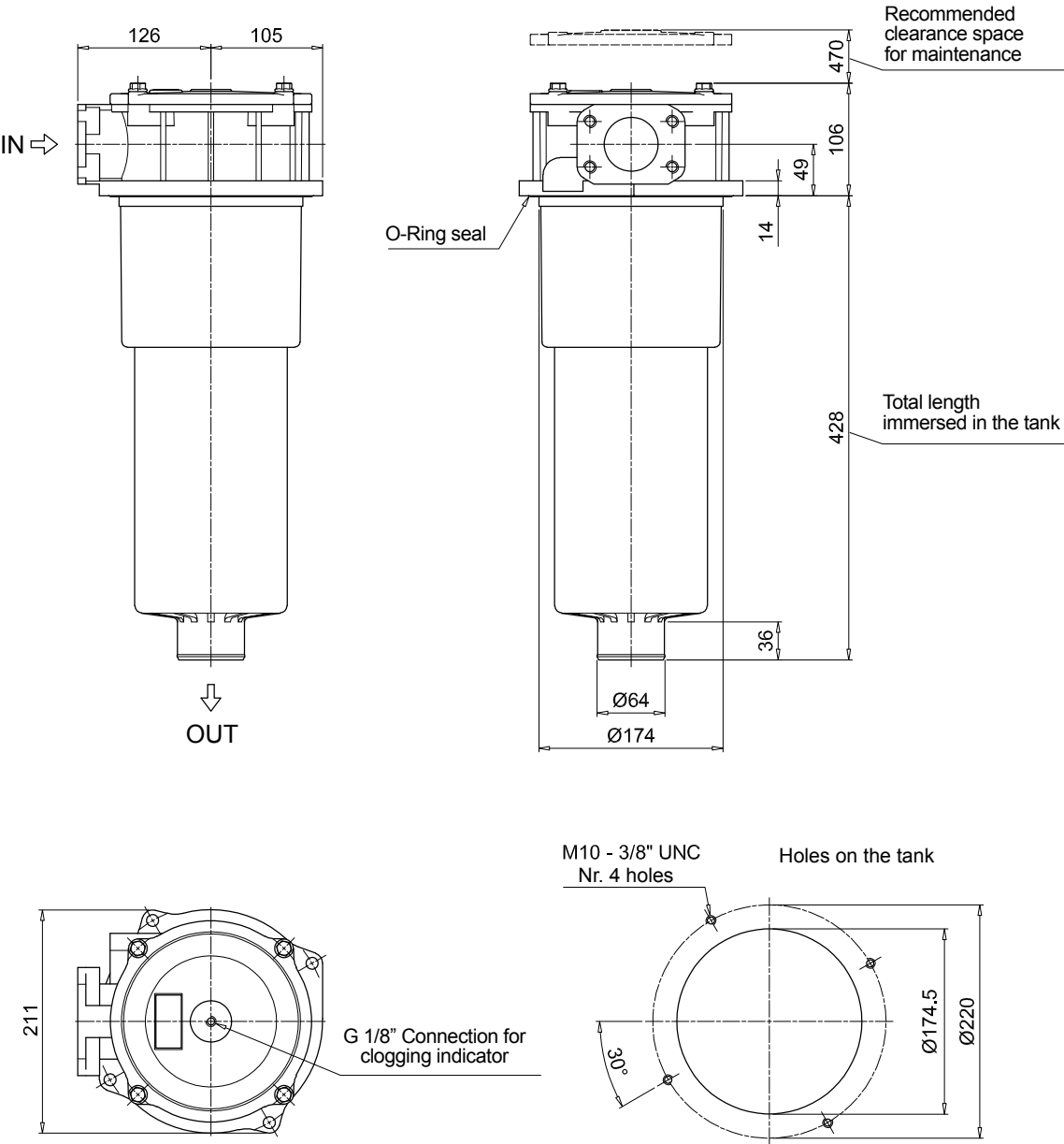
Connections	T
G1	G 1/8"
G4 - G7	1/8" NPT
F1	G 1/8"
F2	1/8" NPT



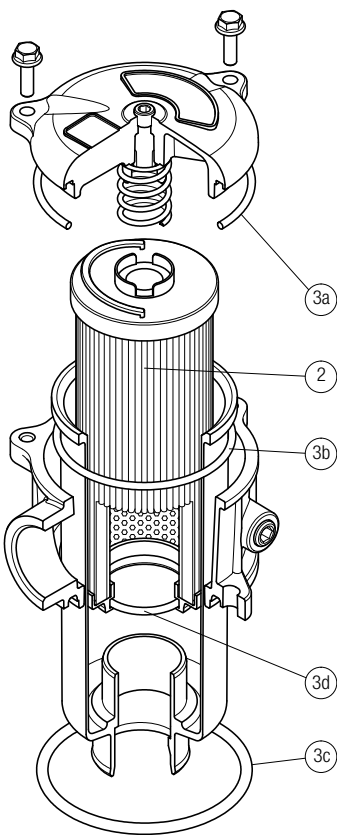
MPF451

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

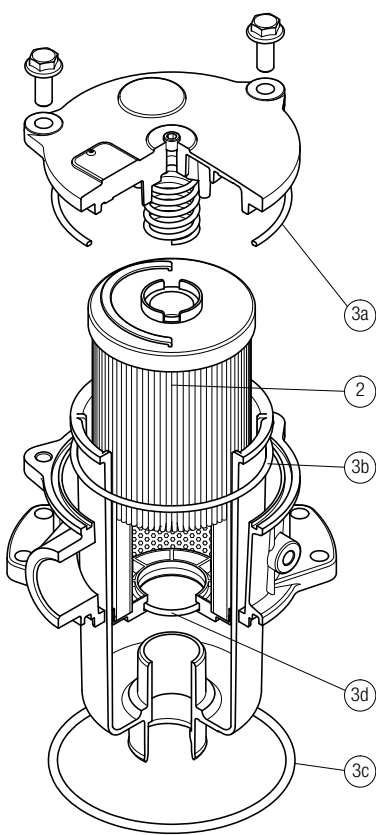
Connections	T
G1	G 1/8"
G4 - G7	1/8" NPT
F1	G 1/8"
F2	1/8" NPT



MPF 100



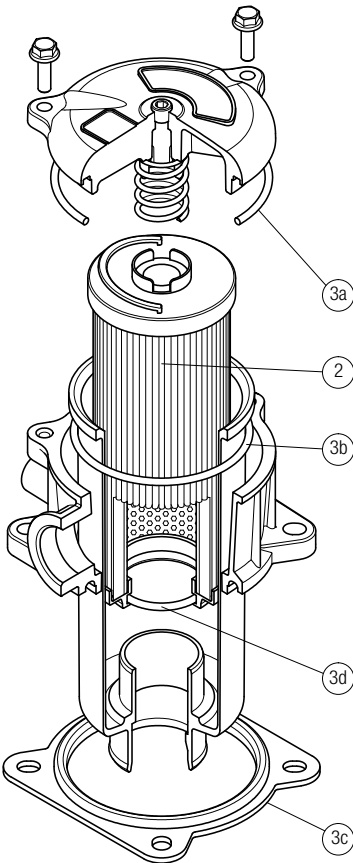
MPF 181



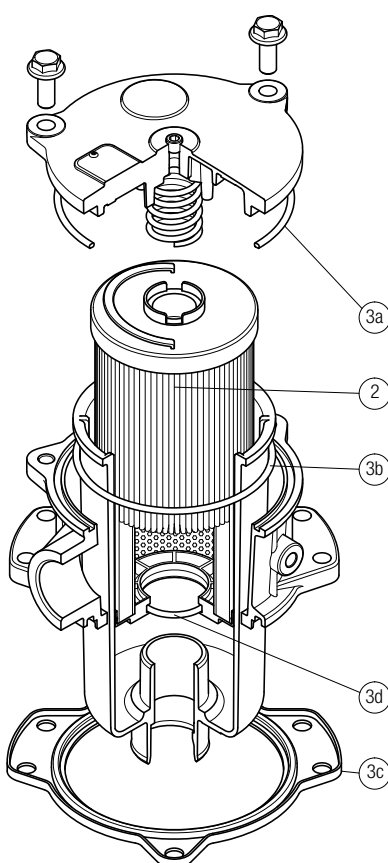
O-RING SEAL

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

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