

# MFBX series

BOWL ASSEMBLY



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/dm<sup>3</sup>); all the graphs in the catalogue are referred to mineral oil with density of 0.86 kg/dm<sup>3</sup>.

The filter element pressure drop is proportional to its viscosity (mm<sup>2</sup>/s), the corrective factor Y is related to an oil viscosity different than 30 mm<sup>2</sup>/s.

### Sizing data for single cartridge, head at top

$\Delta p_c$  = Filter housing pressure drop [bar]

$\Delta p_e$  = Filter element pressure drop [bar]

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

Q = flow rate (l/min)

V1 reference viscosity = 30 mm<sup>2</sup>/s (cSt)

V2 = operating viscosity in mm<sup>2</sup>/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 mm<sup>2</sup>/s (cSt)

Oil viscosity = 0.86 kg/dm<sup>3</sup>

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 lenght 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 lenght.



### Filter housings $\Delta p$ pressure drop.

The curves are plotted using mineral oil with density of 0.86 kg/dm<sup>3</sup> in compliance with ISO 3968.  $\Delta p$  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 lenght and to the filter media.**

Reference viscosity 30 mm<sup>2</sup>/s

### Return filters

Filter element Type	Absolute filtration H Series					Nominal filtration N Series			
	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 mm<sup>2</sup>/s

## Suction filters

Filter element	Nominal filtration N Series	
	P10	P25
<b>SF 250</b>	65	21

## Return / Suction filters

Filter element	Absolute filtration			
	A10	A16	A25	
<b>RSX 116</b>	1	5.12	4.33	3.85
	2	2.22	1.87	1.22
<b>RSX 165</b>	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
<b>CU 110</b>	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
<b>CU 210</b>	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
<b>DN</b>	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
<b>CU 400</b>	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
	<b>CU 900</b>	1	0.86	0.63	0.32	0.30	0.21	-	-
<b>CU 950</b>	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
<b>MR 630</b>	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 mm<sup>2</sup>/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"



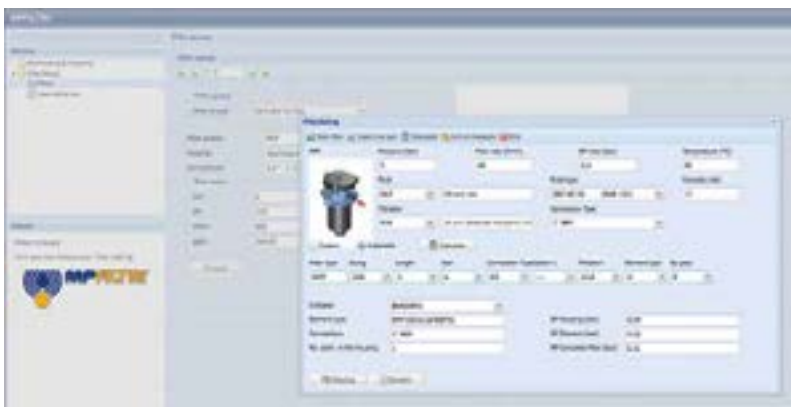
**Step 2** Choose filter group (Return Filter, Pressure Filter, etc.)



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



**Step 4** Push "PROCEED"



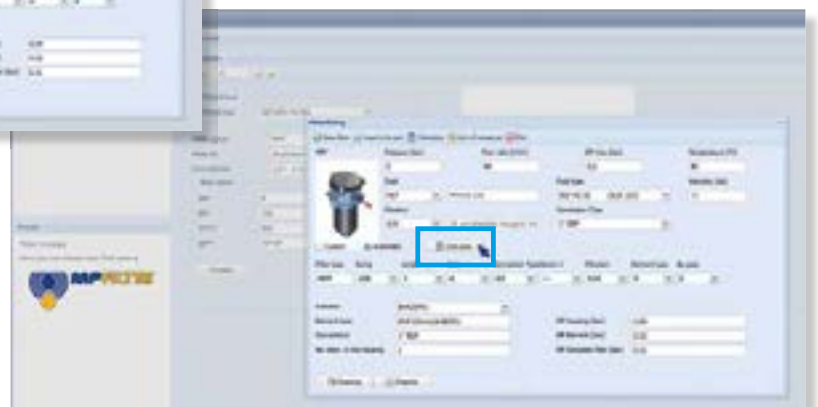
**Step 5**

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



# MFBX series

BOWL ASSEMBLY



## Designation & Ordering code

### COMPLETE FILTER

<b>Series and size</b>						Configuration example 1: <b>MFBX180</b>   <b>2</b>   <b>V</b>   <b>1</b>   <b>M25</b>   <b>H</b>   <b>B</b>   <b>P01</b>							
<b>MFBX020</b>   <b>MFBX030</b>   <b>MFBX100</b>   <b>MFBX180</b>   <b>MFBX190</b>						Configuration example 2: <b>MFBX100</b>   <b>1</b>   <b>A</b>   <b>2</b>   <b>A10</b>   <b>N</b>   <b>E</b>   <b>P01</b>							
Filter element with private spigot													
<b>Length</b>	MFBX020	MFBX030	MFBX100	MFBX180	MFBX190								
1	•	•	•	•									
2	•		•	•	•								
3	•		•										
4			•										
<b>Seals</b>													
<b>A</b> NBR													
<b>V</b> FPM													
<b>Version</b>													
<b>1</b> Without cover													
<b>2</b> With flanged cover type MPF													
<b>3</b> With threaded cover type MPT													
<b>Filtration rating (filter media)</b>													
<b>A03</b> Inorganic microfiber 3 µm		<b>M25</b> Wire mesh 25 µm											
<b>A06</b> Inorganic microfiber 6 µm		<b>M60</b> Wire mesh 60 µm											
<b>A10</b> Inorganic microfiber 10 µm		<b>M90</b> Wire mesh 90 µm											
<b>A16</b> Inorganic microfiber 16 µm		<b>P10</b> Resin impregnated paper 10 µm											
<b>A25</b> Inorganic microfiber 25 µm		<b>P25</b> Resin impregnated paper 25 µm											
<b>Element Δp</b>													
<b>N</b> 10 bar													
<b>H</b> 10 bar													
<b>W</b> 10 bar, compatible with fluids HFA, HFB and HFC													
										<b>Bypass valve</b>			
										<b>E</b> 3 bar			
										<b>B</b> 1.75 bar			
										<b>Execution</b>			
										<b>P01</b> MP Filtri standard			
										<b>Pxx</b> Customized			

### FILTER ELEMENT

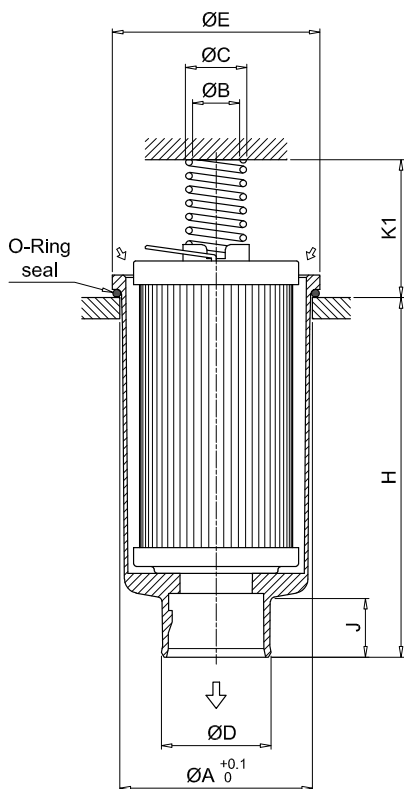
<b>Element series and size</b>						Configuration example 1: <b>MFX180</b>   <b>2</b>   <b>M25</b>   <b>H</b>   <b>V</b>   <b></b>   <b>P01</b>							
<b>MFX020</b>   <b>MFX030</b>   <b>MFX100</b>   <b>MFX180</b>						Configuration example 2: <b>MFX100</b>   <b>1</b>   <b>A10</b>   <b>N</b>   <b>B</b>   <b>E</b>   <b>P01</b>							
Filter element with private spigot													
<b>Element length</b>	MFX020	MFX030	MFX100	MFX180	MFX190								
1	•	•	•	•									
2	•		•	•	•								
3	•		•										
4			•										
<b>Filtration rating (filter media)</b>													
<b>A03</b> Inorganic microfiber 3 µm		<b>M25</b> Wire mesh 25 µm											
<b>A06</b> Inorganic microfiber 6 µm		<b>M60</b> Wire mesh 60 µm											
<b>A10</b> Inorganic microfiber 10 µm		<b>M90</b> Wire mesh 90 µm											
<b>A16</b> Inorganic microfiber 16 µm		<b>P10</b> Resin impregnated paper 10 µm											
<b>A25</b> Inorganic microfiber 25 µm		<b>P25</b> Resin impregnated paper 25 µm											
<b>Element Δp</b>													
<b>N</b> 10 bar													
<b>H</b> 10 bar													
										<b>Seals</b>			
										<b>B</b> NBR			
										<b>V</b> FPM			
										<b>Bypass valve</b>			
										<b>E</b> 3 bar			
										<b></b> 1.75 bar			
										<b>Execution</b>			
										<b>P01</b> MP Filtri standard			
										<b>Pxx</b> Customized			

### ACCESSORIES

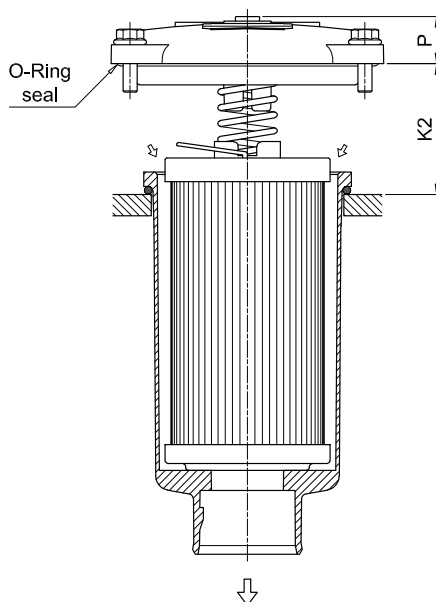
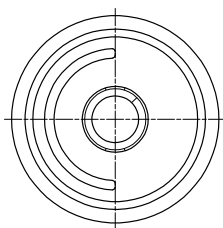
<b>Additional features</b>											page
						MFBX020	MFBX030	MFBX100	MFBX180	MFBX190	
<b>TE</b>	Extension tube	•	•	•	•	•					224
<b>DFS</b>	Diffuser with fast lock connection			•							225



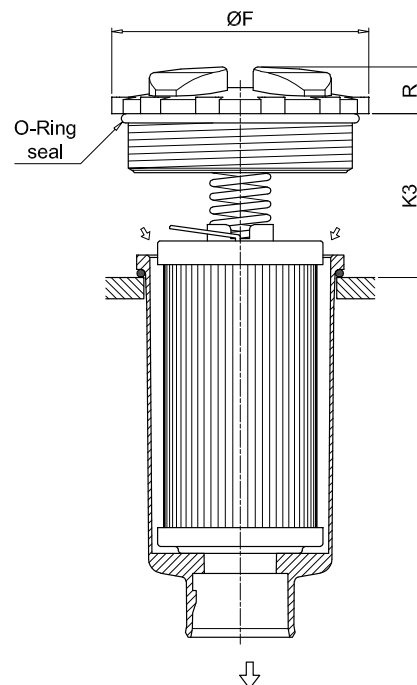
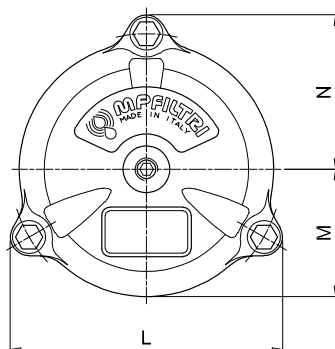
MFBX



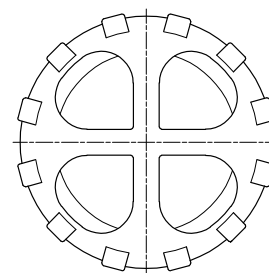
Version 1



Version 2



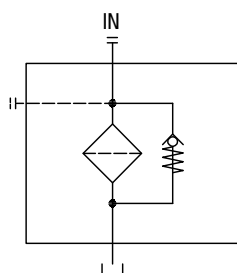
Version 3



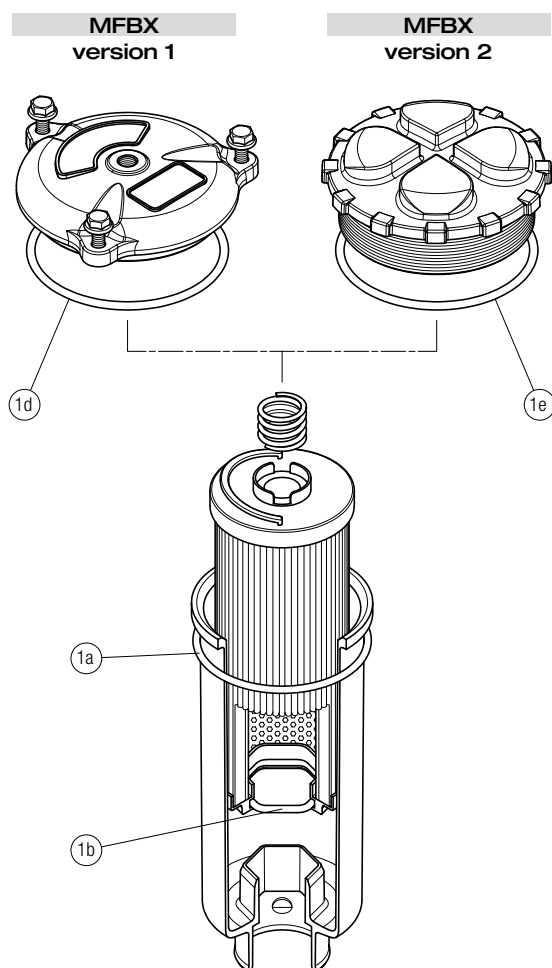
Filter size	Filter length	ø A [mm]	ø B [mm]	ø C [mm]	ø D [mm]	ø E [mm]	ø F [mm]	H [mm]	J [mm]	K1 [mm]	K2 [mm]	K3 [mm]	L [mm]	M [mm]	N [mm]	P [mm]	R [mm]
020	1	52	20.5	26	32	56	75	111	24	42	-	36	-	-	-	-	18
	2	52	20.5	26	32	56	75	175	24	42	-	36	-	-	-	-	18
	3	52	20.5	26	32	56	75	214	24	42	-	36	-	-	-	-	18
030	1	60.5	20	25.5	32	68	-	93	21	33	35	-	92	42	52	18	-
100	1	80.5	20	26	47	88	111	109	24	58	55	69	116	54	66	20	20
	2	80.5	20	26	47	88	111	154	24	58	55	69	116	54	66	20	20
	3	80.5	20	26	47	88	111	232	24	58	55	69	116	54	66	20	20
	4	80.5	20	26	47	88	111	334	24	58	55	69	116	54	66	20	20
180	1	112.5	26	33.5	47	121	-	234	31	58	69	-	159	76	95	21	-
	2	112.5	26	33.5	47	121	-	447	31	58	69	-	159	76	95	21	-
190	2	112.5	26	33.5	50	121	-	454	38	58	69	-	159	76	95	21	-

# MFBX GENERAL INFORMATION

## Hydraulic symbol



## Order number for spare parts



Q.ty: 1 pc.		
Item:	1 (1a ÷ 1d)	
Filter series	Seal Kit code number	
	NBR	FPM
<b>MFBX 020</b>	02050713	02050714
<b>MFBX 030</b>	02050715	02050716
<b>MFBX 100</b>	02050717	02050718
<b>MFBX 180-190</b>	02050719	02050720





# MFB series

BOWL ASSEMBLY



## Designation & Ordering code

### COMPLETE FILTER

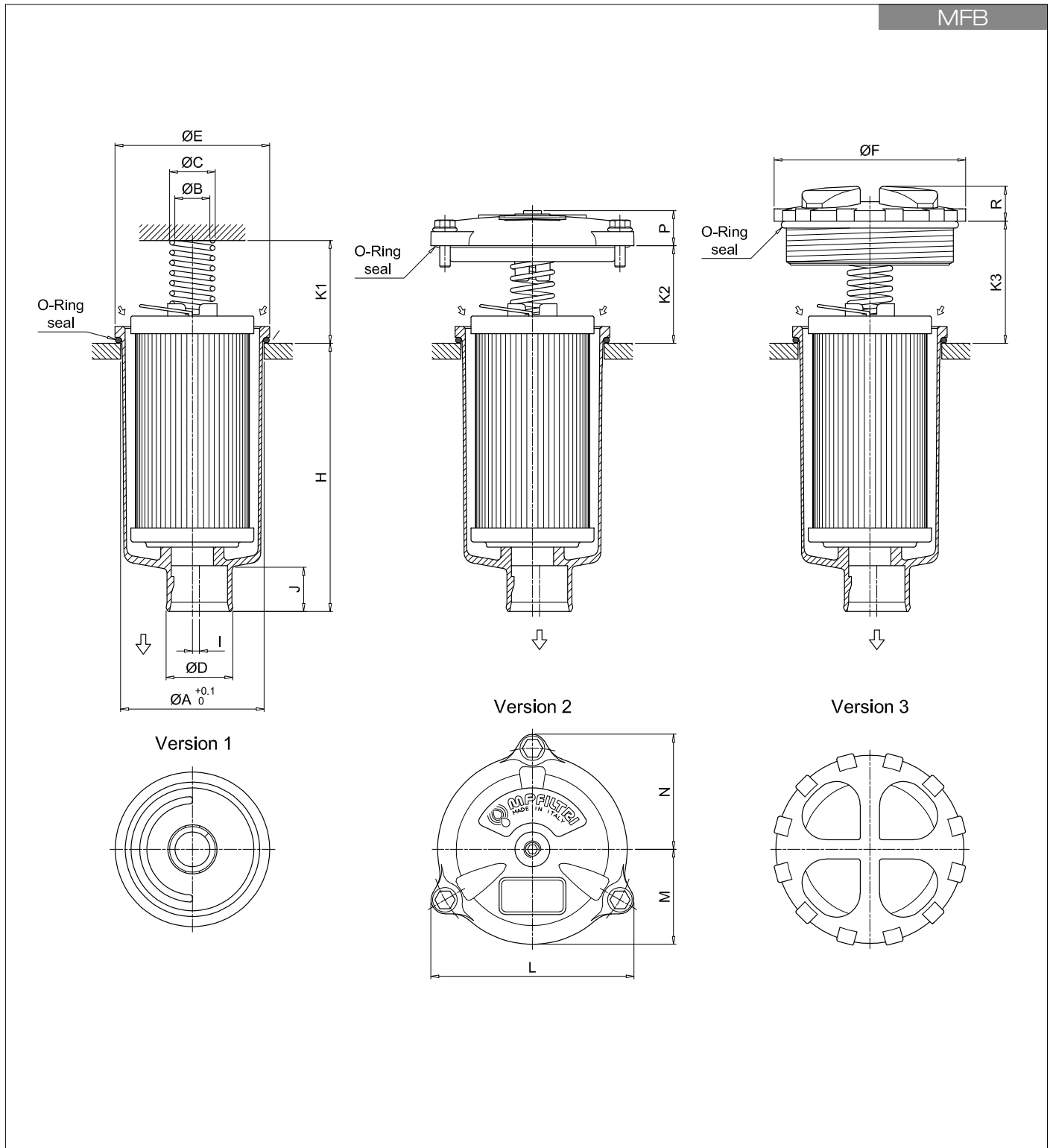
Series and size						Configuration example 1: <b>MFB100</b>   <b>1</b>   <b>A</b>   <b>2</b>   <b>A10</b>   <b>H</b>   <b>E</b>   <b>P01</b>										
<b>MFB020</b>	<b>MFB030</b>	<b>MFB100</b>	<b>MFB180</b>	<b>MFB190</b>		Configuration example 2: <b>MFB180</b>   <b>2</b>   <b>V</b>   <b>1</b>   <b>M25</b>   <b>N</b>   <b>B</b>   <b>P01</b>										
Filter element with private spigot																
Length		MFB020	MFB030	MFB100	MFB180	MFB190										
1		•	•	•	•											
2		•		•	•	•										
3		•		•												
4				•												
Seals																
<b>A</b> NBR																
<b>V</b> FPM																
Version		MFB020	MFB030	MFB100	MFB180	MFB190										
<b>1</b> Without cover		•	•	•	•	•										
<b>2</b> With flanged cover type MPF			•	•	•	•										
<b>3</b> With threaded cover type MPT		•		•												
Filtration rating (filter media)																
<b>A03</b> Inorganic microfiber 3 µm																
<b>A06</b> Inorganic microfiber 6 µm																
<b>A10</b> Inorganic microfiber 10 µm																
<b>A16</b> Inorganic microfiber 16 µm																
<b>A25</b> Inorganic microfiber 25 µm																
<b>M25</b> Wire mesh 25 µm																
<b>M60</b> Wire mesh 60 µm																
<b>M90</b> Wire mesh 90 µm																
<b>P10</b> Resin impregnated paper 10 µm																
<b>P25</b> Resin impregnated paper 25 µm																
Element Δp		Filter media														
		Axx	Mxx	Pxx												
<b>N</b> 10 bar			•	•												
<b>H</b> 10 bar			•													
<b>W</b> 10 bar, compatible with fluids HFA, HFB and HFC		•	•													
Bypass valve																
<b>E</b> 3 bar																
<b>B</b> 1.75 bar																
Execution																
<b>P01</b> MP Filtri standard																
<b>Pxx</b> Customized																

### FILTER ELEMENT

Element series and size						Configuration example 1: <b>MF100</b>   <b>1</b>   <b>A10</b>   <b>H</b>   <b>B</b>   <b>E</b>   <b>P01</b>										
<b>MF020</b>	<b>MF030</b>	<b>MF100</b>	<b>MF180</b>	<b>MF190</b>		Configuration example 2: <b>MF180</b>   <b>2</b>   <b>M25</b>   <b>N</b>   <b>V</b>   <b></b>   <b>P01</b>										
Filter element with private spigot																
Element length		MF020	MF030	MF100	MF180	MF190										
1		•	•	•	•											
2		•		•	•	•										
3		•		•												
4				•												
Filtration rating (filter media)																
<b>A03</b> Inorganic microfiber 3 µm																
<b>A06</b> Inorganic microfiber 6 µm																
<b>A10</b> Inorganic microfiber 10 µm																
<b>A16</b> Inorganic microfiber 16 µm																
<b>A25</b> Inorganic microfiber 25 µm																
<b>M25</b> Wire mesh 25 µm																
<b>M60</b> Wire mesh 60 µm																
<b>M90</b> Wire mesh 90 µm																
<b>P10</b> Resin impregnated paper 10 µm																
<b>P25</b> Resin impregnated paper 25 µm																
Element Δp		Filter media														
		Axx	Mxx	Pxx												
<b>N</b> 10 bar			•	•												
<b>H</b> 10 bar			•													
Seals																
<b>B</b> NBR																
<b>V</b> FPM																
Bypass valve																
<b>E</b> 3 bar																
1.75 bar																
Execution																
<b>P01</b> MP Filtri standard																
<b>Pxx</b> Customized																

### ACCESSORIES

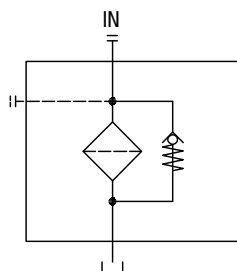
Additional features		MFB020	MFB030	MFB100	MFB180	MFB190	page
<b>TE</b>	Extension tube	•	•	•	•	•	224
<b>DFS</b>	Diffuser with fast lock connection			•			225



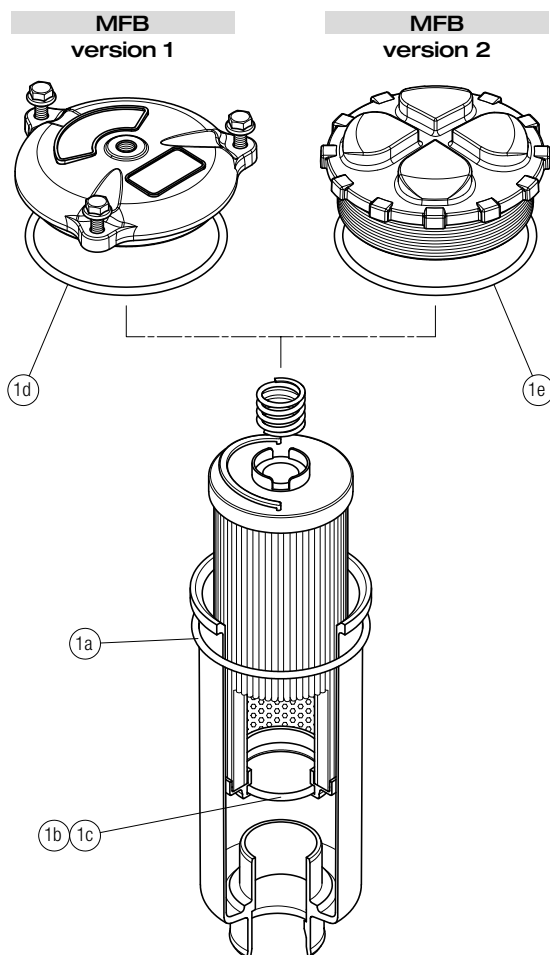
Filter size	Filter length	ø A [mm]	ø B [mm]	ø C [mm]	ø D [mm]	ø E [mm]	ø F [mm]	H [mm]	I [mm]	J [mm]	K1 [mm]	K2 [mm]	K3 [mm]	L [mm]	M [mm]	N [mm]	P [mm]	R [mm]
<b>020</b>	1	52	20.5	26	32	56	75	111	0	24	42	-	36	-	-	-	-	18
	2	52	20.5	26	32	56	75	175	0	24	42	-	36	-	-	-	-	18
	3	52	20.5	26	32	56	75	214	0	24	42	-	36	-	-	-	-	18
<b>030</b>	1	60.5	20	25.5	32	68	-	92	3	21	33	35	-	92	42	52	18	-
	1	80.5	20	26	38	88	111	107	4	24	58	55	69	116	54	66	20	20
	2	80.5	20	26	38	88	111	154	4	24	58	55	69	116	54	66	20	20
	3	80.5	20	26	47	88	111	232	0	24	58	55	69	116	54	66	20	20
<b>180</b>	4	80.5	20	26	47	88	111	334	2.5	24	58	55	69	116	54	66	20	20
	1	112.5	26	33.5	47	121	-	234	0	31	58	58	69	159	76	95	21	-
	2	112.5	26	33.5	47	121	-	447	0	31	58	58	69	159	76	95	21	-
<b>190</b>	2	112.5	26	33.5	50	121	-	454	0	38	58	58	69	159	76	95	21	-

# MFB GENERAL INFORMATION

## Hydraulic symbol



## Order number for spare parts



Q.ty: 1 pc.		
Item:	1 (1a ÷ 1e)	
Filter series	Seal Kit code number	
	NBR	FPM
<b>MFB 020</b>	02050572	02050573
<b>MFB 030</b>	02050574	02050575
<b>MFB 100</b>	02050555	02050556
<b>MFB 180</b>	02050576	02050577
<b>MFB 190</b>	02050578	02050579