

Filtro MP ritorno Serie
MFBX



 HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL



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MFBX series

BOWL ASSEMBLY

Maximum working pressure up to 800 kPa (8 bar) - Flow rate up to 700 l/min



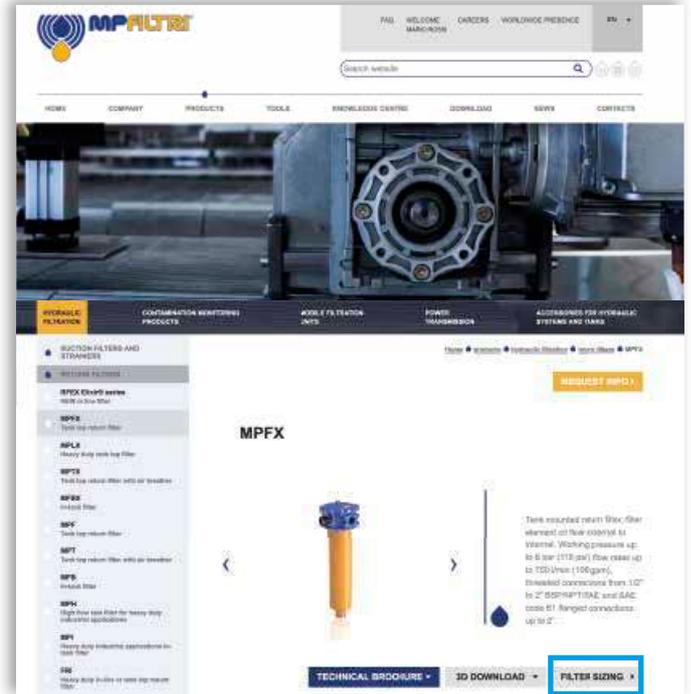
TYPICAL FILTER SIZING Selection Software

Step ①

Select "FILTER SIZING SOFTWARE" after login

OR

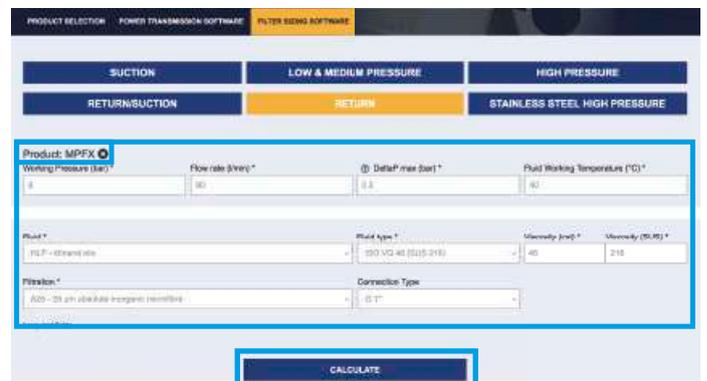
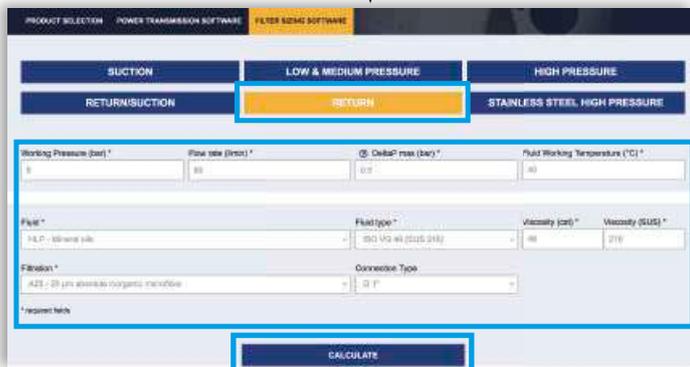
Select "FILTER SIZING" after login from a product page



Choose the type of filter family.
Enter the main data for sizing the filter
then push CALCULATE.

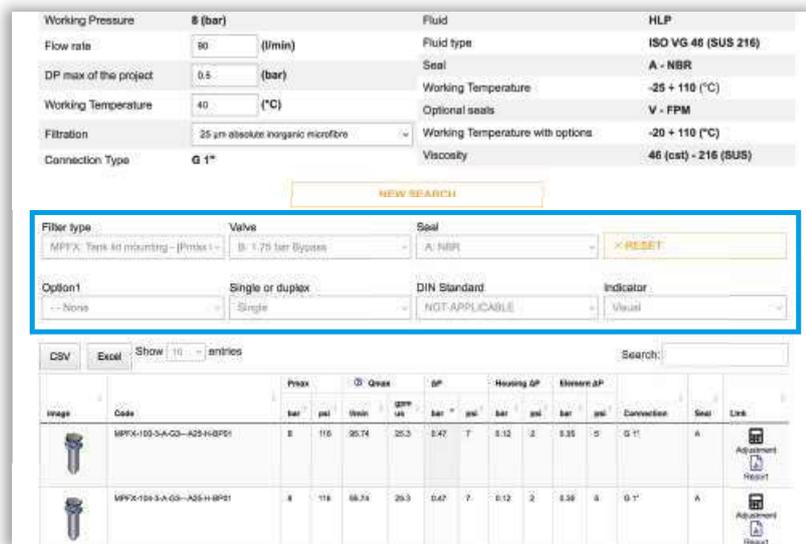
Step ②

Enter the main data for sizing the filter
then push CALCULATE.



Step ③

Select the desired options to choose the appropriate filter type for the application.



Step 4

Choose the most suitable filter from the proposed list.

Image	Code	Peak bar	Qmax psi	Qmax l/min	AP bar	Qmax psi	Housing AP bar	Element AP bar	Connection	Seal	Link			
	MPTX-103-3-A-Q3-A25-H-BPFI	8	116	25.74	25.3	0.47	7	0.12	2	0.35	5	G 1"	A	Adjustment Report
	MPTX-104-3-A-Q3-A25-H-BPFI	8	116	25.74	25.3	0.47	7	0.12	2	0.35	5	G 1"	A	Adjustment Report

Step 5

It is possible to change the filter modifying every parameter.



A SAVE YOUR FILTER'S REPORT



B MANUAL EDIT



SAVE IN YOUR ARCHIVE
typing your reference data and then SAVE AS PDF



A new browser window displays the pdf

see **A**

Close the report window



By clicking your WELCOME button, the SHOW REPORTS is displayed: select it to see your filters list.



THE NEW FILTER CONCEPT

MPFX
MPLX
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, MPLX, MPTX, MFBX and MFX are protected by:

- ◆ Italian Patent n° 102014902261205
- ◆ Canadian Patent n° 2,937,258
- ◆ European Patent n° 16181725.9
- ◆ US Patent n° 15/224,337

Return filter Bowl assembly

Maximum working pressure up to 800 kPa (8 bar)

Flow rate up to 700 l/min

MFBX is a range of return filter kits for protection of the reservoir against the system contamination.

They are directly integrated in the moulded reservoir in immersed or semi-immersed position to save space into the tank.

Treaded or flanged covers can be provided.

The filter output must be always immersed into the fluid to avoid aeration or foam generation into the reservoir.

Available features:

- 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
- 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)
- MyClean interface connection, to protect the product against non-original spare parts
- External protective wrap, to optimize the flow through the element and to save the element efficiency against non-proper handling

Common applications:

Mobile machines

Bowl assembly materials

- Cover
Nylon: MFBX 020-030-100
Aluminium: MFBX 180-190

- Bowl: Nylon

Filter element materials

- Caps: Nylon
- Spring: Spring steel

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

MFBX filters are provided for vertical mounting



Weights [kg] and volumes [dm³]

Filter series	Weights [kg]					Volumes [dm ³]				
	Length	1	2	3	4	Length	1	2	3	4
MFBX 020		0.25	0.35	0.40	-		0.10	0.15	0.20	-
MFBX 030		0.25	-	-	-		0.15	-	-	-
MFBX 100		0.50	0.60	0.75	0.95		0.35	0.50	0.80	1.10
MFBX 180		1.60	2.40	-	-		1.50	2.90	-	-
MFBX 190		-	2.40	-	-		-	3.00	-	-

Filter series	Length	Filter element design - H series					Filter element design - N series		
		A03	A06	A10	A16	A25	M25 M60 M90	P10	P25
MFBX 020	1	7	10	23	28	42	59	51	54
	2	17	20	45	48	56	72	64	67
	3	21	24	50	55	59	76	74	75
MFBX 030	1	7	10	24	29	47	84	60	66
MFBX 100	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
MFBX 180	1	127	148	235	243	278	441	285	299
	2	231	262	358	382	388	472	404	412
MFBX 190	2	261	305	489	528	546	696	583	598

Maximum flow rate for a complete return filter with a pressure drop $\Delta p = 0.5$ bar.

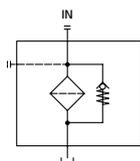
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

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

You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Hydraulic symbols

Filter series	Style 1 connection
MFBX 020	•
MFBX 030	•
MFBX 100	•
MFBX 180	•
MFBX 190	•



Designation & Ordering code

COMPLETE FILTER

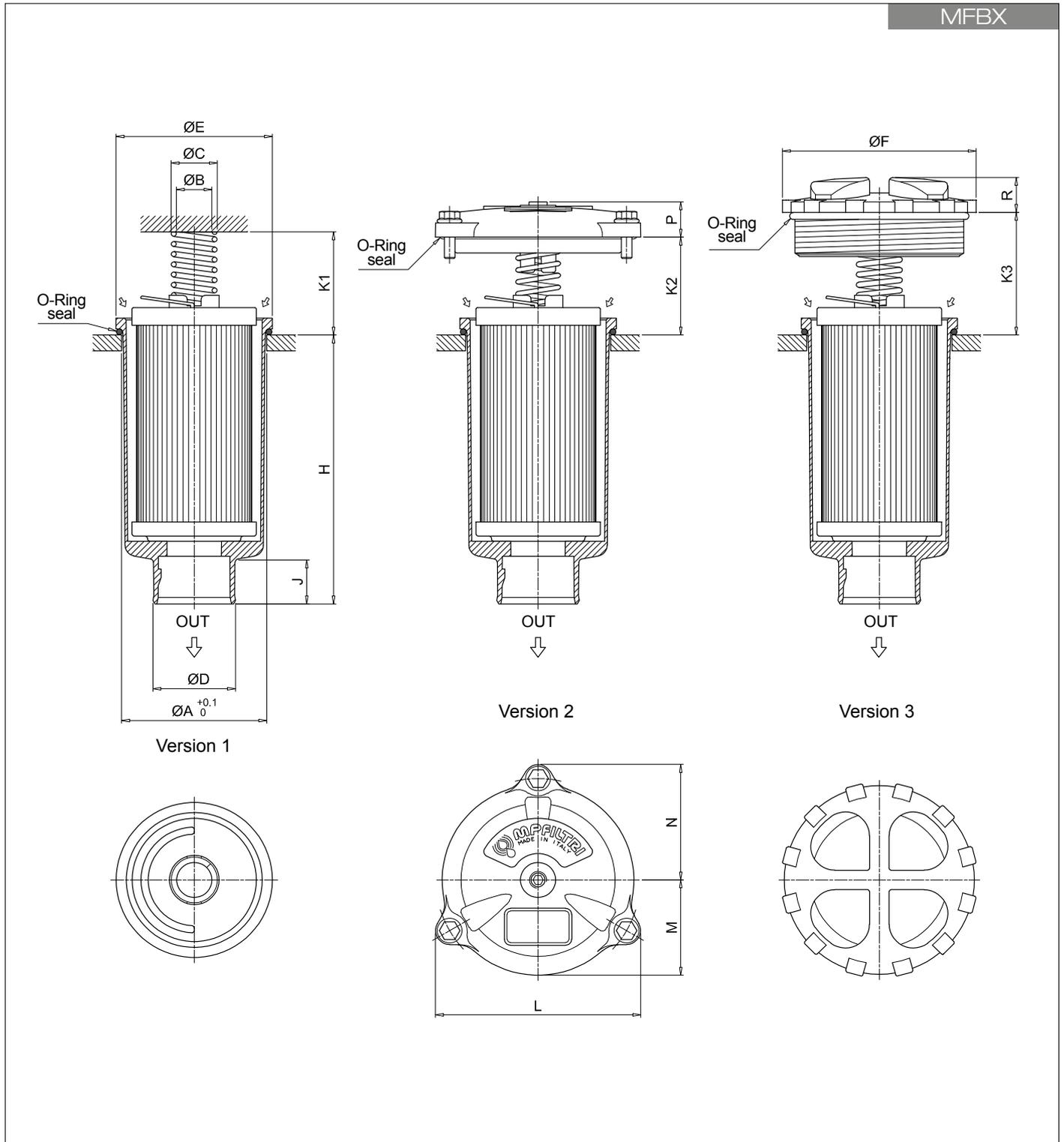
Series and size						Configuration example 1: MFBX100 1 A 2 A10 H E P01							
MFBX020 MFBX030 MFBX100 MFBX180 MFBX190						Configuration example 2: MFBX180 2 V 1 M25 N B P01							
Filter element with private spigot													
Length		MFBX020	MFBX030	MFBX100	MFBX180	MFBX190							
1		•	•	•	•								
2		•		•	•	•							
3		•		•									
4				•									
Seals													
A NBR													
V FPM													
Version		MFBX020	MFBX030	MFBX100	MFBX180	MFBX190							
1	Without cover	•	•	•	•	•							
2	With flanged cover type MPF		•	•	•	•							
3	With threaded cover type MPT	•		•									
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: MFX180 2 M25 H V P01								
MFX020 MFX030 MFX100 MFX180						Configuration example 2: MFX100 1 A10 N B E P01								
Filter element with private spigot														
Element length		MFX020	MFX030	MFX100	MFX180	MFX190								
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				•									
							Seals		Bypass valve		Execution			
							B NBR		E 3 bar		P01 MP Filtri standard			
							V FPM		1.75 bar		Pxx Customized			

ACCESSORIES

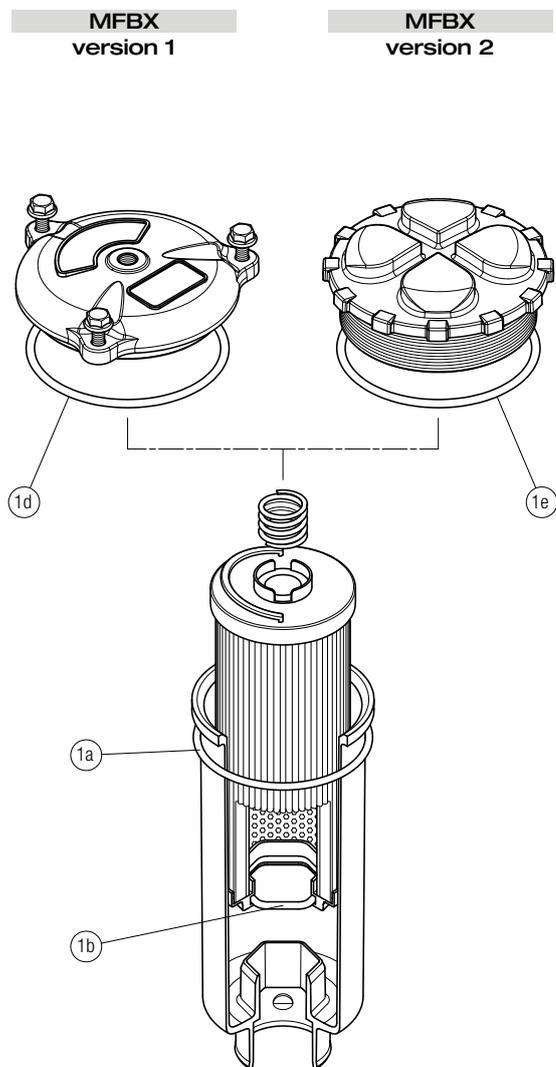
Additional features											page	
		MFBX020	MFBX030	MFBX100	MFBX180	MFBX190						
TE	Extension tube	•	•	•	•	•						248
DFS	Diffuser with fast lock connection			•								249



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	-
	2	80.5	20	26	47	88	111	109	24	58	55	69	116	54	66	20	20
100	1	80.5	20	26	47	88	111	154	24	58	55	69	116	54	66	20	20
	2	80.5	20	26	47	88	111	232	24	58	55	69	116	54	66	20	20
	3	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 SPARE PARTS

Order number for spare parts



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

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