

- Pressure drop of filter assembly equal to Δp 0,5 bar.
- Oil kinematic viscosity 30 mm²/s (cSt).
- Density 0,86 kg/dm³.

	Length	A03	A06	A10	A16	A25	P10	P25	M25	M60
MPF020	1	6	9	15	16	25	26	27	30	30
MPF030	1	7	10	20	21	37	38	39	40	40
MPF100/104	1	18	26	50	55	110	110	130	250	250
	2	31	40	80	90	160	170	190	360	360
	3	50	65	135	150	240	260	280	360	360
	4	93	110	190	220	275	300	330	380	380
MPF180/184	1	120	135	215	230	300	320	380	445	445
	2	210	235	330	350	385	385	390	445	445
MPF190/194	2	250	290	445	460	530	400	500	600	600
MPF400	1	150	175	335	340	550	385	600	680	680
	2	230	250	440	455	660	550	690	750	750
	3	250	295	470	480	680	700	750	800	800
MPF450	1	150	175	335	340	550	385	600	680	680
	2	230	250	440	455	660	550	690	750	750
	3	250	295	470	480	680	700	750	800	800
MPF750	1	390	450	625	700	780	700	750	900	900

Technical data

MPF

Filter housing (Materials)

- Head: Aluminium (Nylon only MPF 020)
- Cover: Zytel (MPF 020/030/100/104)
Aluminium (MPF 180/184/190/194/400/450/750)
- Bowl: Nylon

Pressure

- Working pressure: 8 bar (0,8 MPa)

Temperature

- From -25 °C to +110 °C

Bypass valve

- Opening pressure 1,75 bar $\pm 10\%$
- Opening pressure 3 bar $\pm 10\%$

Δp Elements type

- Series N and H elements: 10 bar
- Oil flow from exterior to interior.

Seals

- Standard NBR series A
- Optional FPM series V

Weights (kg)

Length	1	2	3	4
• MPF 020	0,30	-	-	-
• MPF 030	0,40	-	-	-
• MPF 100	0,76	0,85	0,98	1,10
• MPF 104	0,82	0,96	1,02	1,25
• MPF 180	2,16	2,97	-	-
• MPF 184	2,55	3,45	-	-
• MPF 190	-	2,97	-	-
• MPF 194	-	3,45	-	-
• MPF 400	3,35	3,65	3,90	-
• MPF 450/451	3,95	4,25	4,50	-
• MPF 750	6,30	-	-	-

Volumes (dm³)

Length	1	2	3	4
• MPF 020	0,26	-	-	-
• MPF 030	0,29	-	-	-
• MPF 100	0,64	0,85	1,20	1,65
• MPF 104	0,64	0,85	1,20	1,65
• MPF 180	2,50	4,00	-	-
• MPF 184	2,65	4,45	-	-
• MPF 190	-	4,25	-	-
• MPF 194	-	4,45	-	-
• MPF 400	3,70	4,60	5,40	-
• MPF 450/451	3,70	4,60	5,40	-
• MPF 750	8,45	-	-	-

Compatibility

- Housings compatible with:
Mineral oils to ISO 2943 - aqueous emulsions
synthetic fluids, water and glycol.
- The filter elements are compatible with:
Mineral oils to ISO 2943, Synthetic fluids
Aqueous emulsions, water and glycol
(series W required).
- NBR seals series A, compatible with:
Mineral oils to ISO 2943 - aqueous emulsions
synthetic fluids, water and glycol.
- FPM seals series V, compatible with:
Synthetic fluids type HS-HFDR-HFDS-HFDU
To ISO 2943

Filter Element Area

Filter element in stainless steel mesh
Length

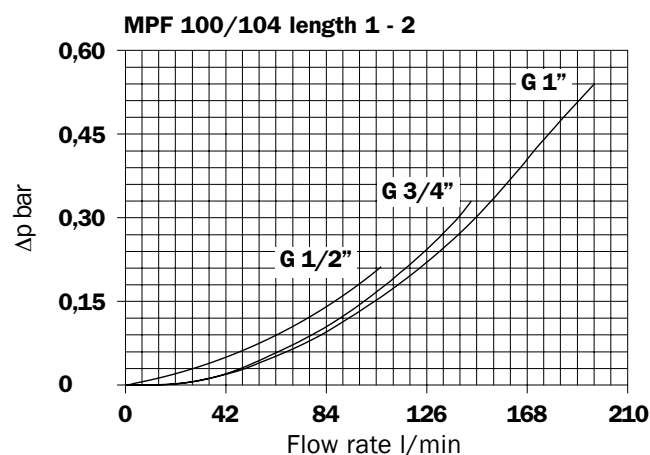
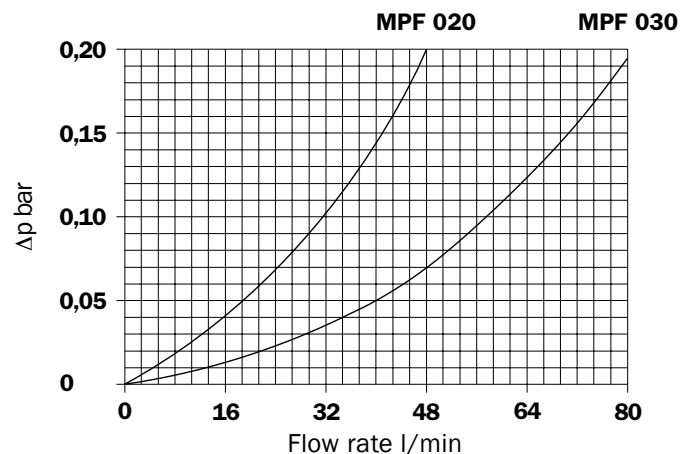
Type	1	2	3	4
MF 030	336	-	-	-
MF 100	493	781	1286	1933
MF 180	2496	5342	-	-
MF 190	-	5342	-	-
MF 400/450	2701	3885	4713	-
MF 750	8059	-	-	-

Values expressed in cm²

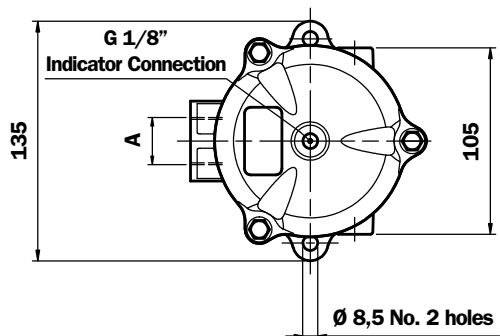
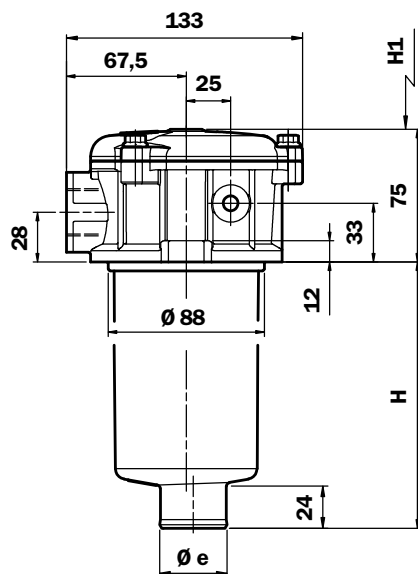
Filter housings Δp pressure drop

The curves are plotted utilising mineral oil with density of 0.86 kg/dm³ to ISO 3968.

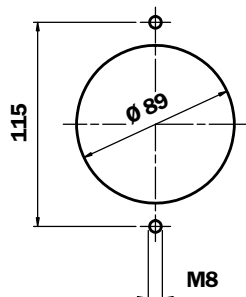
Δp varies proportionally with density.



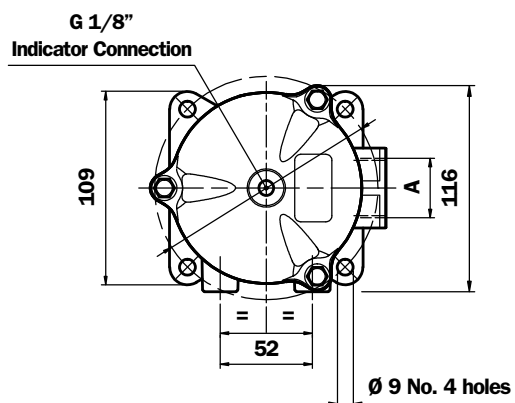
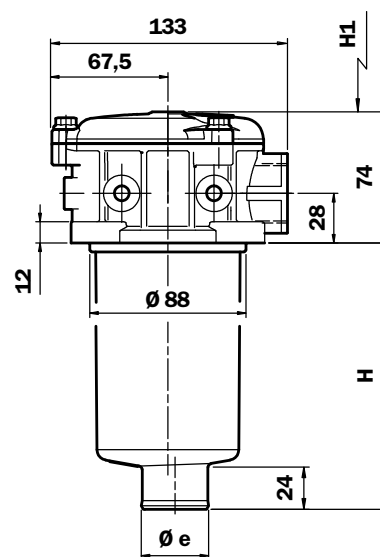
MPF 100



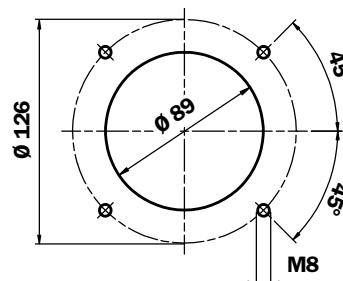
Holes on the tank



MPF 104



Holes on the tank



Thread connections

St.	A
G1	G 1/2"
G2	G 3/4"
G3	G 1"
G4	1/2" NPT
G5	3/4" NPT
G6	1" NPT
G7	SAE 8 3/4" 16 UNF
G8	SAE 12 1 1/16" 12 UN
G9	SAE 16 1 5/16" 12 UN

MPF 100/104

Length Filter	H mm	H1 mm	Ø e mm
1	103	120	38
2	150	170	38
3	228	250	46,5
4	330	350	46,5

Ordering information MPF

Filter assembly

MPF

	1	2	3	4	5	6	8	9a
								
Example 1: MPF	100	2	A	G3	A06	H	B	P01
Example 2: MPF	190	2	V	G1	M25	N	E	S60

Filter element

MF

	1	2	5	6	7	8	9b
							
Example 1: MF	100	2	A06	H	B		P01
Example 2: MF	190	2	M25	N	V	E	P01

1 - Style

Filter

020
030
100
104
180
184
190
194
400
450
451
750

Filter element

030
030
100
180
190
400
750

2 - Filter length

020
030
100
104
180
184
190
194
400
450
451
750

3 - Filter seals & Treatment

A	NBR
V	FPM
W*	NBR, head anodized
Z*	FPM, head anodized

4 - Connections

Type		MPF						
		030	100 / 104	180 / 190	184 / 194	400	450 / 451	750
G1	H1	G 1/2"	G 1/2"	G 1 1/4"	G 1 1/4"	G 1 1/4"	G 2"	G 2"
G2	H2	-	G 3/4"	-	G 1 1/4" 2 Connections	G 1 1/2"	-	-
G3	H3	-	G 1"	-	-	G 2"	-	-
G4	H4	1/2" NPT	1/2" NPT	1 1/4" NPT	1 1/4" NPT	1 1/4" NPT	2" NPT	2" NPT
G5	H5	-	3/4" NPT	-	1 1/4" NPT 2 Connections	1 1/2" NPT	-	-
G6	H6	-	1" NPT	-	-	2" NPT	-	-
G7	H7	SAE 8	SAE 8	SAE 20	SAE 20	SAE 20	SAE 32	SAE 32
G8	H8	-	SAE 12	-	SAE 20 2 Connections	SAE 24	-	-
G9	H9	-	SAE 16	-	SAE 16	SAE 32	-	-
F1	K1	-	-	-	1 1/2" SAE 3000 PSI/M	-	2" SAE 3000 PSI/M	2" SAE 3000 PSI/M
F2	K2	-	-	-	1 1/2" SAE 3000 PSI/UNC	-	2" SAE 3000 PSI/UNC	2" SAE 3000 PSI/UNC
F3	K3	-	-	-	2 x 1 1/2" SAE 3000 PSI/M	-	-	-
F4	K4	-	-	-	2 x 1 1/2" SAE 3000 PSI/UNC	-	-	-

➔ Filter with filler plug (T5)

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Ordering information MPF

5 - Filter element

A03	Inorganic microfibre 3 µ	Absolute filtration Inorganic Microfibre βx (c) ≥ 1000
A06	Inorganic microfibre 6 µ	
A10	Inorganic microfibre 10 µ	
A16	Inorganic microfibre 16 µ	
A25	Inorganic microfibre 25 µ	
M25	Wire mesh	Nominal Filtration Metal mesh
M60	Wire mesh	
M90	Wire mesh	
P10	Resin - Impregnated paper	Nominal Filtration Cellulose
P25	Resin - Impregnated paper	

6 - Δp Filter element

N	Δp 10 bar (only for filter element type Pxx and Mxx)
H	Δp 10 bar (only for filter element type Axx)
W*	Δp 10 bar (only for filter element type Axx and Mxx)

* Compatible with fluid HFA, HFB, HFC

7 - Filter element

B	NBR
V	FPM

8 - By-pass valve

B	1.75 bar ± 10%
E	3 bar ± 10%

9 - Option

a) Filter

P01	MP Filtri standard
Sxx	Filter assembly with steel extension tube mounted (only for MPF190, 194, 400, 450, 451, 750)

b) Filter element

P01	MP Filtri standard
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