

Technical data

High Pressure filters **Maximum pressure up to 320 bar - Flow rate up to 475 l/min**

Filter housing materials

- Head: Phosphatized cast iron
- Housing: Phosphatized steel
- Bypass valve: Brass
- Reverse Flow: Steel (only for series FMP 320)
- Check valve: Steel

Pressure

- Working pressure: 32 MPa (320 bar)
- Test pressure: 48 MPa (480 bar)
- Burst pressure: 96 MPa (960 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 32 MPa (320 bar)

Bypass valve

- Opening pressure 600 kPa (6 bar)
- Other opening pressures on request.

Δp element type

- Microfibre filter elements - series N-R: 20 bar
- Microfibre filter elements - series H-S: 210 bar
- Wire mesh filter elements - series N: 20 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

Connections

In-line Inlet/Outlet

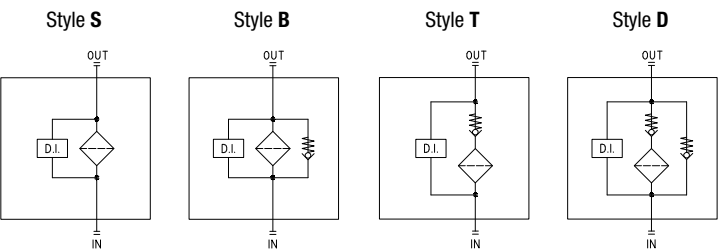
Note

FMP filters are provided for vertical mounting

Weights [kg] and volumes [dm³]

	Weights [kg]					Volumes [dm ³]				
	Lenght	1	2	3	4	Lenght	1	2	3	4
FMP 065		3.26	3.62	4.83	-		0.36	0.47	0.84	-
FMP 135		5.61	7.21	8.27	-		0.45	0.78	1.00	-
FMP 320		10.95	13.08	15.37	17.85		1.03	1.75	2.52	3.35

Hydraulic symbols

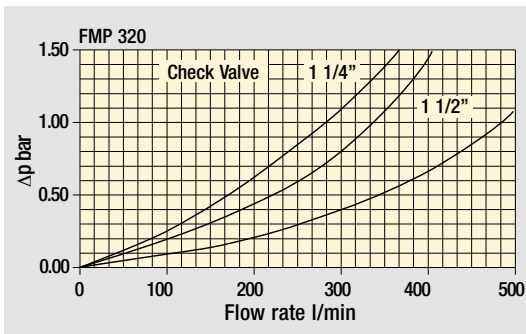
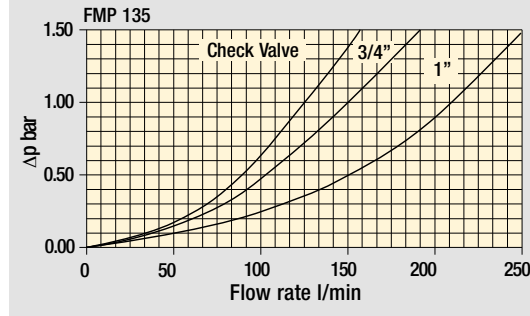
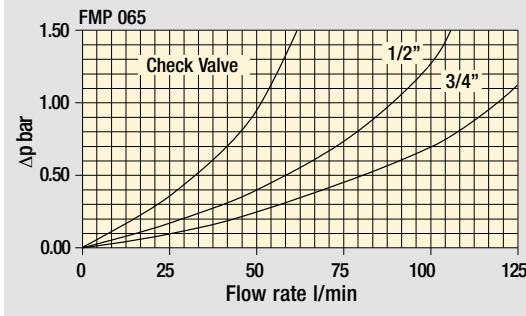


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968.

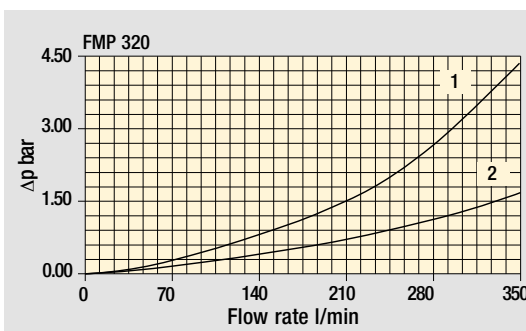
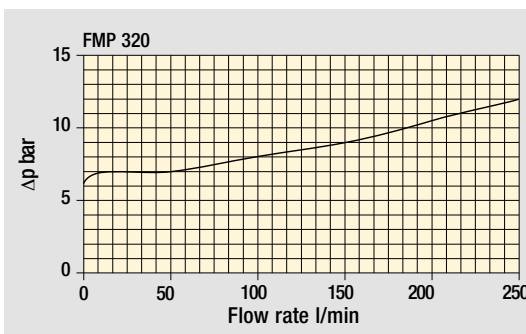
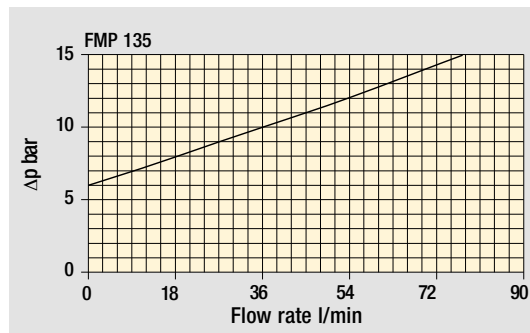
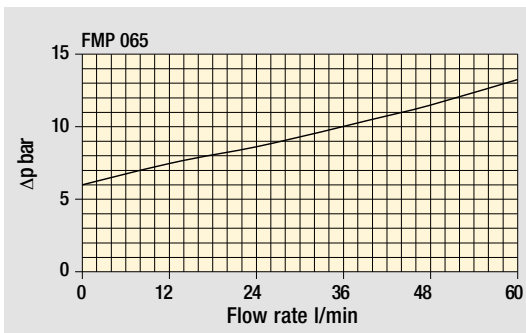
Δp varies proportionally with density.

Pressure drop

Filter housings Δp pressure drop



Bypass valve pressure drop



Filter housing with check valve

- 1 - Reverse flow
- 2 - In filter direction

Valves

FMP FMP065 - FMP135 - FMP320

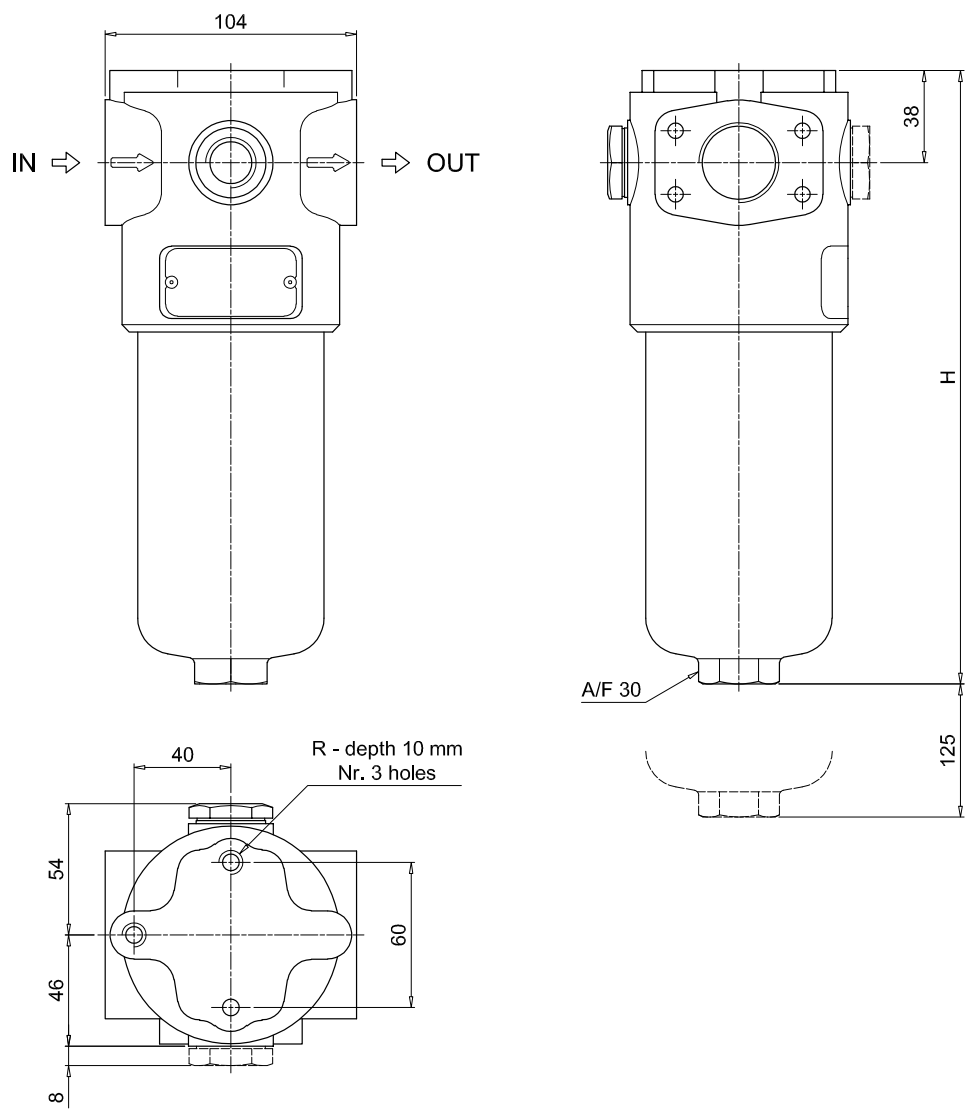
Designation & Ordering code

COMPLETE FILTER

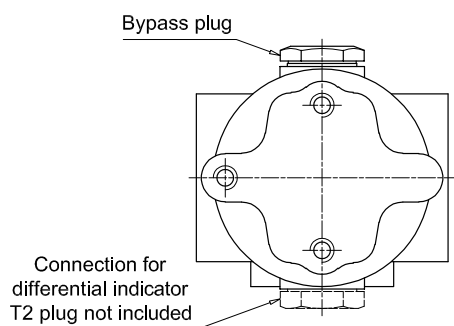
Series and size				Configuration example: FMP065 3 T A G1 M25 S P01										
FMP065 FMP135 FMP320														
Length		FMP065	FMP135	FMP320										
1		•	•	•										
2		•	•	•										
3		•	•	•										
4				•										
Valves														
S Without bypass				C With bypass 6 bar, plug on the opposite side										
E Without bypass, plug on the opposite side				T With check valve, without bypass										
B With bypass 6 bar				D With check valve, with bypass										
Seals														
A NBR				V FPM										
Connections		FMP065	FMP135	FMP320										
G1		G1/2"	G3/4"	G1 1/4"										
G2		G3/4"	G1"	G1 1/2"										
G3		1/2" NPT	3/4" NPT	1 1/4" NPT										
G4		3/4" NPT	1" NPT	1 1/2" NPT										
G5		SAE 8 - 3/4" - 16 UNF	SAE 12 - 1 1/16" - 12 UN	SAE 20 - 1 5/8" - 12 UN										
G6		SAE 12 - 1 1/16" - 12 UN	SAE 16 - 1 5/16" - 12 UN	SAE 24 - 1 7/8" - 12 UN										
F1		-	3/4" SAE 3000 psi/M	1 1/4" SAE 3000 psi/M										
F2		-	1" SAE 3000 psi/M	1 1/2" SAE 3000 psi/M										
F3		-	3/4" SAE 3000 psi/UNC	1 1/4" SAE 3000 psi/UNC										
F4		-	1" SAE 3000 psi/UNC	1 1/2" SAE 3000 psi/UNC										
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											
				Valves							Filter length			
Element Δp				S	E	B	C	T	D	1	2	3	4	
N 20 bar						•	•				•	•	•	•
R 20 bar									•					•
H 210 bar				•	•									
S 210 bar								•						
Execution														
P01 MP Filtri standard														
P02 Maintenance from the bottom of the housing														
Pxx Customized														

FMP FMP065 - FMP135 - FMP320

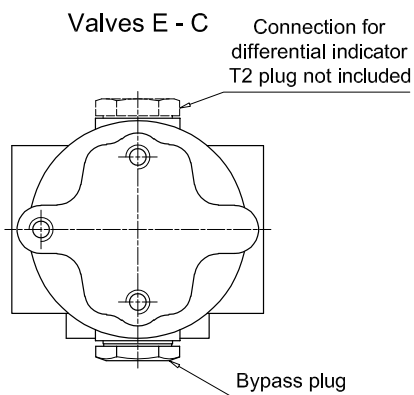
Dimensions



Valves S - B - T - D



Valves E - C



FMP135

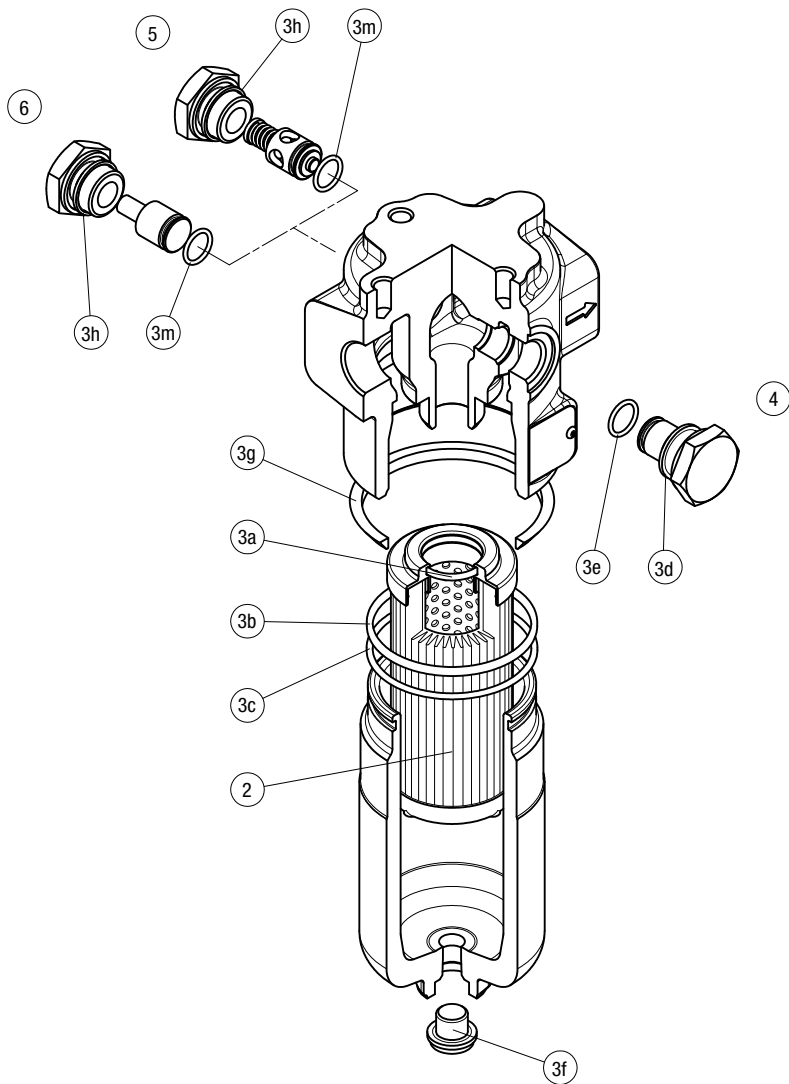
Filter length	H [mm]
1	221
2	334
3	409

Connections	R
G1-G2	M10
G3-G4-G5-G6	3/8" UNC
F1-F2	M10
F3-F4	3/8" UNC

FMP SPARE PARTS

Order number for spare parts

FMP 065 - 135 - 320



Item:		Q.ty: 1 pc.		Q.ty: 1 pc.		Q.ty: 1 pc.		Q.ty: 1 pc.	
		2		3 (3a ÷ 3m)		4		5	
Filter series	Filter element	Seal Kit code number		Indicator connection plug		Bypass assembly		Non-bypass assembly	
		NBR	FPM	NBR	FPM	NBR	FPM	NBR	FPM
FMP 065	See order table	02050267	02050278	T2H	T2V	02001312	02001385	02001314	02001386
FMP 135		02050293	02050294			02001312	02001385	02001314	02001386
FMP 320		02050274	02050285			02001396	02001397	02001398	02001399