MMFPF Low Pressure Spin-on Filter

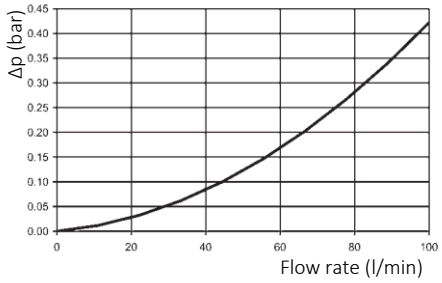
Technical specification

Application:	Low pressure spin-on filter
Port size:	¾" BSP & NPT to 1¼" BSP & NPT
Flow rate:	max. 180 l/min
Working pressure:	max. 35 bar for MMFPF3, 4, 5 & 6 max. 24 bar for MMFPF7 & 8
Burst pressure:	70 bar for MMFPF3, 4, 5 & 6 55 bar for MMFPF7 & 8
Element collapse pressure:	10 bar
By-pass opening pressure:	Δp 1.7 bar ± 10% or 3.5 bar ± 10%
Seals:	Perbunan (NBR, - 10 °C to 100° C)
Material:	Aluminium head, Steel bowl
Compatibility:	Suitable for mineral oils, lubrication oils, non-flam fluids, synthetic and rapidly biodegradable oils (for use with water, please contact our technical dept.)
Tested according to ISO standards:	ISO2941 Collapse/burst resistance ISO2942 Fabrication integrity ISO2943 Material compatibility integrity ISO3723 Method for end load test ISO3724 Flow fatigue characteristics ISO3968 Pressure drop vs. Flow ISO16889 Multi-pass (filtration performance)

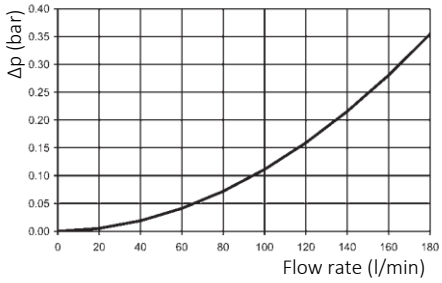
Pressure drop graphs (Δp)

Pressure drop for filter head (mainly depending on port size)

MMFPF3, MMFPF4, MMFPF5 & MMFPF6

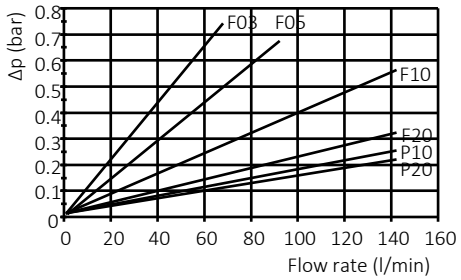


MMFPF7 & MMFPF8

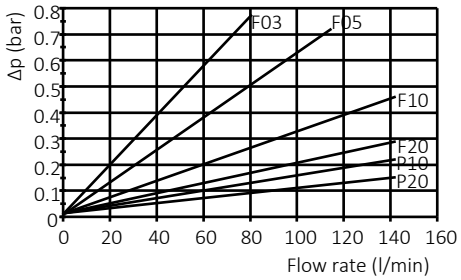


Pressure drop for clean filter elements (by filter media)

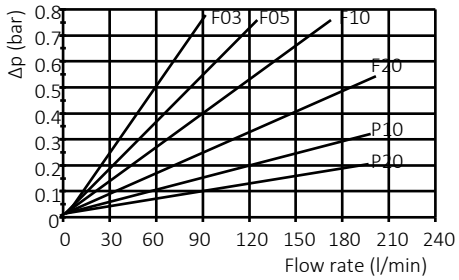
MMEPF3 & EMMEPF4



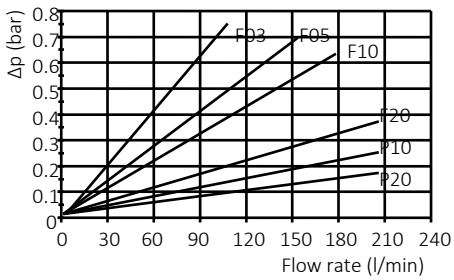
MMEPF5 & MMEPF6



MMEPF7

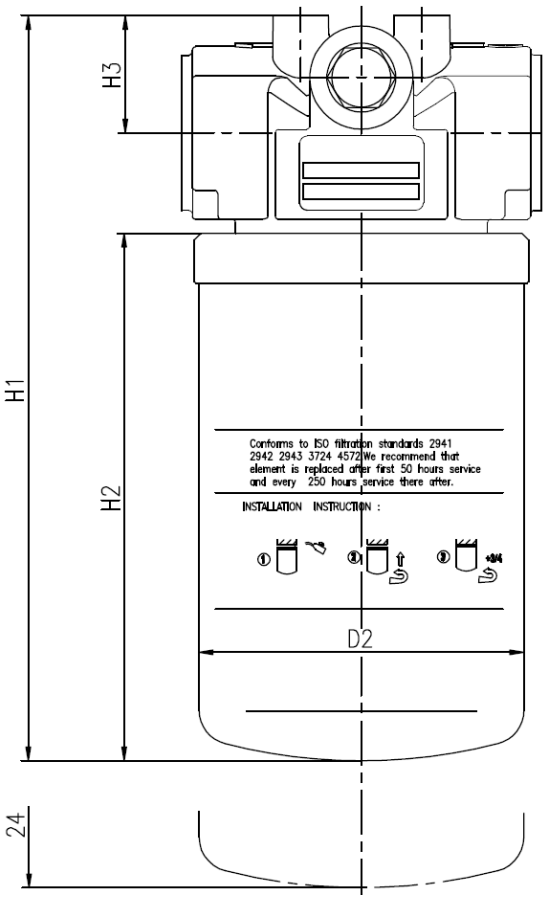


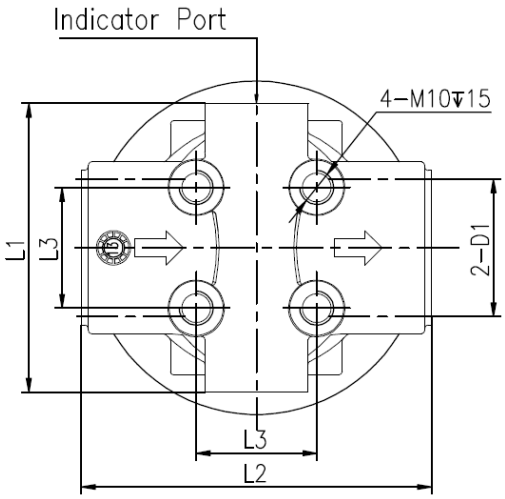
MMEPF8



The test fluid has a density of 0.86 kg/dm³ and a kinematic viscosity of 30 mm²/s.

Dimensional drawings

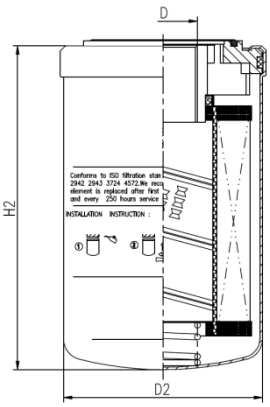




Type	D1	D2	H1	H2	H3	L1	L2	L3
MMFPF3	¾" BSP 1" BSP ¾" NPT 1" NPT	94	219	155	34	84	102	35
MMFPF4			246	182				
MMFPF5			292	228				
MMFPF6			304	240				
MMFPF7	1¼" BSP 1¼" NPT	117	369	294	40	92	127	47.5
MMFPF8			436	361				

Spin-on elements

Type	D2	D	H2
MMEPF3-UB	94	1˜ "-12 UNF- 2B	155
MMEPF4-UB			182
MMEPF5-UB			228
MMEPF6-UB			240
MMEPF7-UD	117	1¾"-12 UNF- 2B	294
MMEPF8-UD			361



Order information

Filter assembly part number

	Housing					Element			Accessories	
	Type	Size	Connection	By-pass		Seal	Media		Indicators	Special
	MMFPF	Table 1	Table 2	Table 3		Table 4	Table 5		Table 6	X
Example	MMFPF	3	BC	6	-	B	P10	-	V13	X

Element part number

	Element				
	Type	Size	Port	Media	Seal
	MMEPF	Table 1	See prev. page	Table 5	Table 4
Example	MMEPF	3	- UB	P10	B

Tables

Table 1

Size	Flow rate (l/min)
MMFPF3	80
MMFPF4	80
MMFPF5	130
MMFPF6	130
MMFPF7	180
MMFPF8	180

Table 2

Connection						Size
BC	NC	BD	ND	BE	NE	
¾" BSP	¾" NPT	1" BSP	1" NPT	1¼" BSP	1¼" NPT	
•	•	•	•			MMFPF3
•	•	•	•			MMFPF4
•	•	•	•			MMFPF5
•	•	•	•			MMFPF6
				•	•	MMFPF7
				•	•	MMFPF8

Table 3

By-pass	Open pressure
00	No by-pass
6	1.7 bar
9	3.5 bar

Table 4

Seal	Material
B	Buna
V	Viton

Table 5

Media	Material	Filtration	Collapse
P10	Cellulose	10 µm	10 bar
P20	Cellulose	20 µm	10 bar
F03	Fibreglass	3 µm	10 bar
F05	Fibreglass	5 µm	10 bar
F10	Fibreglass	10 µm	10 bar
F20	Fibreglass	20 µm	10 bar

Table 6

Indicator	Pressure	Type
00	-	No
V13	1.3 bar	Visual
E13	1.3 bar	Visual / Electrical
V25	2.5 bar	Visual
E25	2.5 bar	Visual / Electrical