

MMFPU Series



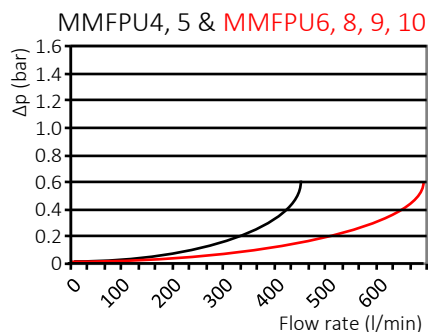
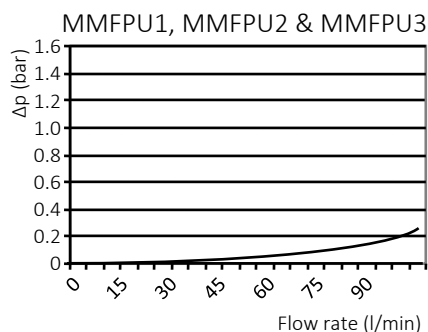
Technical specification

Application:	In-line high pressure filter
Port size:	½" to 1½" BSP & NPT, SAE DN20 6000 psi, SAE DN25 3000 psi SAE DN32 6000 psi, SAE DN32 3000 psi SAE DN40 3000 psi
Flow rate:	max. 400 l/min
Working pressure:	max. 420 bar
Burst pressure:	min. 1200 bar
Element collapse pressure:	21 or 210 bar
By-pass opening pressure:	Δp 6 bar $\pm$ 10%
Seals:	Perbunan (NBR, -10°C to 100°C)
Material:	S.G. cast iron head, forged 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)

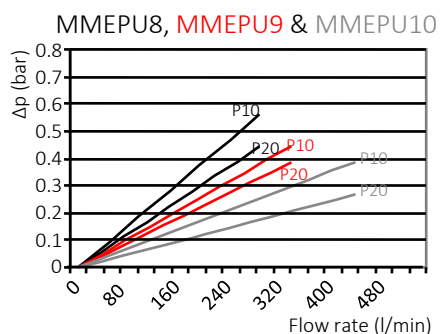
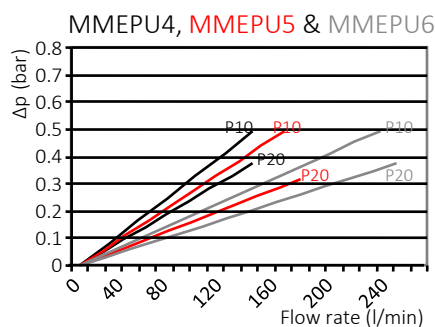
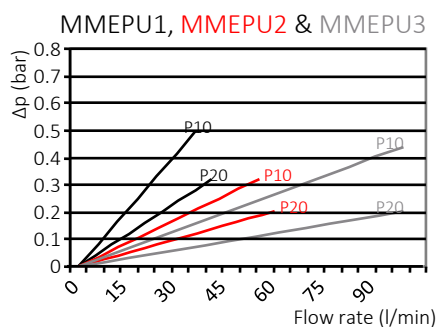
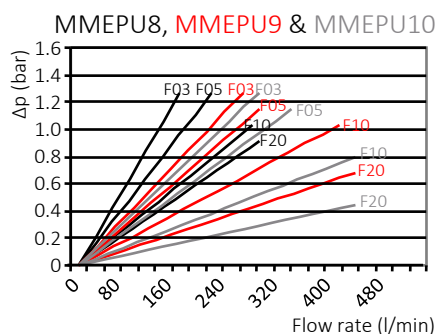
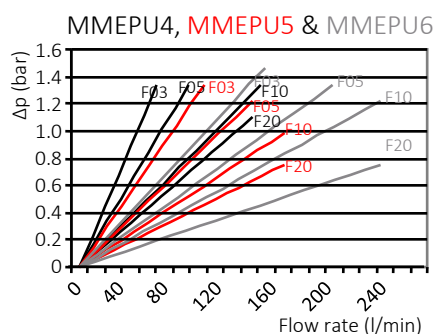
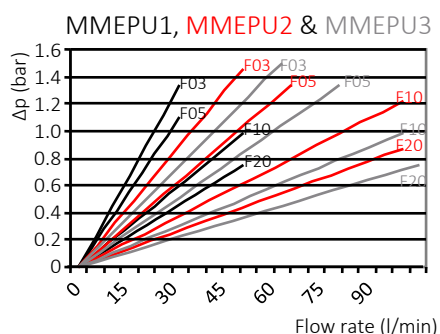
Technical specification subject to change without prior notice. Other specification on request 013/07/23

Pressure drop graphs (Δp)

Pressure drop of filter housing (mainly depending on port size)



Pressure drop of clean filter elements (by filter media)

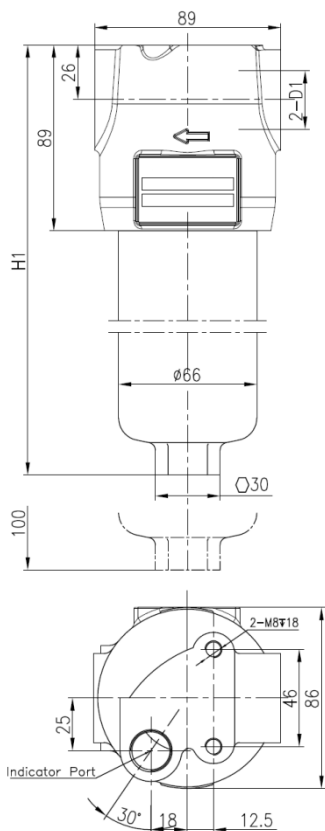


The test fluid has a density of 0.86 kg/dm³ and a kinematic viscosity of 30 mm²/s.

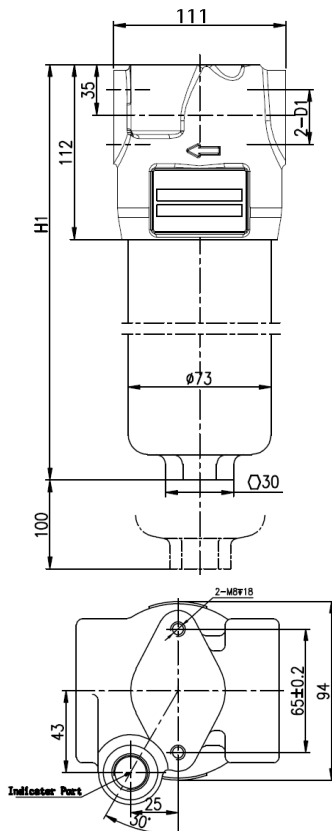
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Dimensional drawings

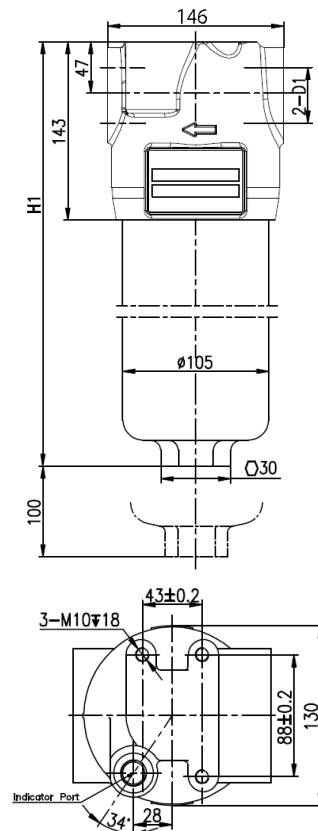
MMFPU1, 2 & 3



MMFPU4 & 5



MMFPU6, 8, 9 & 10



Type	D1	H1	kg
MMFPU1	½" – ¾"	166	4.3
MMFPU2	½" – ¾"	196	4.5
MMFPU3	½" – ¾"	296	5.2

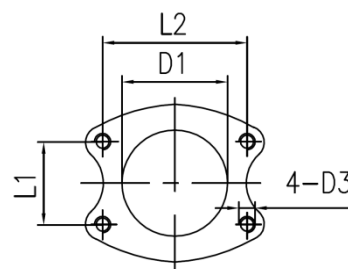
Type	D1	H1	kg
MMFPU4	¾" – 1"	226	6.5
MMFPU5	¾" – 1"	317	8.1

Type	D1	H1	kg
MMFPU6	1" – 1¼" – 1½"	245	11.0
MMFPU8	1" – 1¼" – 1½"	337	13.9
MMFPU9	1" – 1¼" – 1½"	457	17.2
MMFPU10	1" – 1¼" – 1½"	558	22.0

Flange mounting bolt dimensions (mm)

Type	Flange	D1	P _{max}	L1	L2	D1	T*
MMFPU4	SAE DN20 6000 psi	¾"	420 bar	23.8	50.8	M10	14
MMFPU5	SAE DN25 3000 psi	1"	210 bar	26.2	52.4	M10	14
MMFPU6	SAE DN32 6000 psi	1¼"	420 bar	31.8	66.7	M14	19
MMFPU8	SAE DN32 3000 psi	1¼"	210 bar	30.2	58.7	M10	19
MMFPU9	SAE DN40 3000 psi	1½"	210 bar	35.7	69.9	M12	19

* min. thread depth



Filter assembly part number

	Housing						Element		Accessories	
	Type	Size	Connection	By-pass	Seal		Media		Indicator	Special
	MMFPU	Table 1	Table 2	Table 3	Table 4		Table 5		Table 6	X
Example	MMFPU	2	BB	11	B	-	M03	-	V50	X

Element part number

	Element			
	Type	Size	Seal	Media
	MMEPU	Table 1	Table 4	Table 5
Example	MMEPU	2	B	M03

Tables

Size	Flow rate (l/min)
MMFPU1	30
MMFPU2	60
MMFPU3	110
MMFPU4	140
MMFPU5	160
MMFPU6	240
MMFPU8	280
MMFPU9	330
MMFPU10	400

By-pass	Open pressure
00	No by-pass
11	6.0 bar
X	Special

Seal	Material
B	Buna
V	Viton

Media	Material	Filtration	Collapse
P10	Cellulose	10 μm	21 bar
P20	Cellulose	20 μm	21 bar
M03	Fibreglass	3 μm	21 bar
M05	Fibreglass	5 μm	21 bar
M10	Fibreglass	10 μm	21 bar
M20	Fibreglass	20 μm	21 bar
H03	Fibreglass	3 μm	210 bar
H05	Fibreglass	5 μm	210 bar
H10	Fibreglass	10 μm	210 bar
H20	Fibreglass	20 μm	210 bar
Y25	Wire mesh	25 μm	21 bar
Y60	Wire mesh	60 μm	21 bar
Z25	Wire mesh	25 μm	210 bar
Z60	Wire mesh	60 μm	210 bar

Indicator	Pressure	Type
00	-	-
V50	5 bar	Visual
E50	5 bar	Visual / Electrical

Connection															Size
BB	NB	BC	NC	BD	ND	BE	NE	BF	NF	SB	FC	SD	FD	FE	
1/2" BSP	1/2" NPT	3/4" BSP	3/4" NPT	1" BSP	1" NPT	1 1/4" BSP	1 1/4" NPT	1 1/2" BSP	1 1/2" NPT	SAE DN20 6000 psi	SAE DN25 3000 psi	SAE DN32 6000 psi	SAE DN32 3000 psi	SAE DN40 3000 psi	MMFPU1
•	•	•	•												MMFPU2
•	•	•	•												MMFPU3
		•	•	•	•					•	•				MMFPU4
		•	•	•	•					•	•				MMFPU5
				•	•	•	•	•	•			•	•	•	MMFPU6
				•	•	•	•	•	•			•	•	•	MMFPU8
				•	•	•	•	•	•			•	•	•	MMFPU9
				•	•	•	•	•	•			•	•	•	MMFPU10