

FMM is the medium pressure filter up to 22.000.000 Pa (220 bar- 3200 Psi); the range is composed of two different sizes with nominal flow rates up to 170 l/min. with threaded or flanged connections.

MATERIALS (housing)

Head	Aluminium
Bowl	Steel
Seals	N: Nitrilic (Buna-N) V: Fluoroelastomer (Viton)
By-pass valve	Brass
Reverse flow valve	Steel
Indicator	Brass

WORKING CONDITIONS

Filter pressure	Max working pressure: 22.000.000 Pa (220 bar) Testing pressure: 44.000.000 Pa (440 bar) Burst pressure: 66.000.000 Pa (660 bar)
Operating pressure	-20 a +95° c
Collapse pressure (Filter Element)	X series : 2.000.000 Pa (20 bar) Y series : 21.000.000 (210 bar)
By-pass valve setting pressure	600.000 Pa $\pm$ 10% (6 bar) (from opening)
Compatibility with hydraulic fluids ISO 2943	Compatible with mineral oils such as HH,HM,HR,HV,HG according to ISO 6743/4)



Flows have been calculated just in order to obtain a pressure drop $\Delta p \leq 120.000 \text{ Pa}$ (1.2 bar) with mineral oil kinematic viscosity 30 cSt and 860 kg/m³ density.

THREADED CONNECTIONS

Tipo / Type	A	E (depth 15mm)
	1/2" BSP	M 8
1	3/4" BSP	M 8
2	1/2" NPT	5/16" UNC
3	3/4" NPT	5/16" UNC
4	SAE8 - 3/4"-16UNF	5/16" UNC
5	SAE12- 1 1/16"- 12UN	5/16" UNC

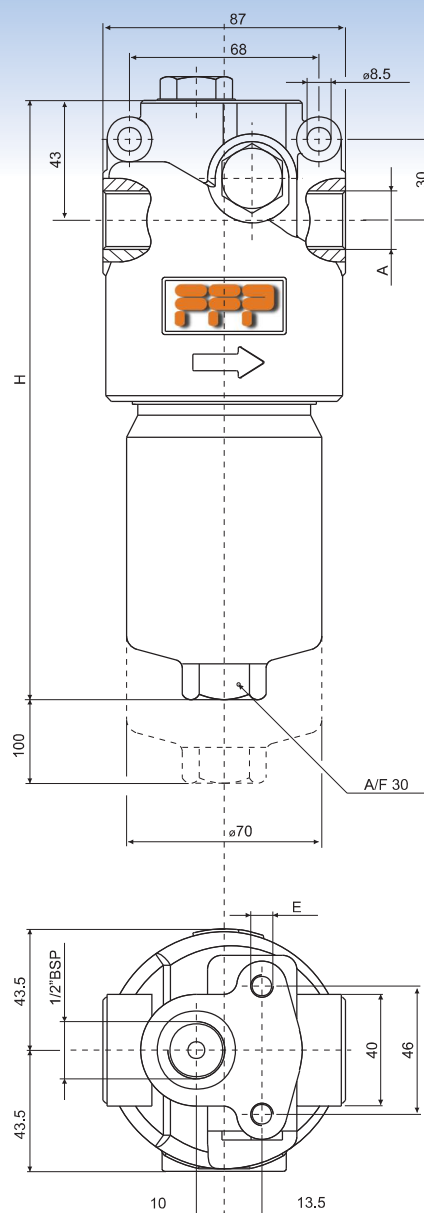
LENGTHS

Tipo / Type	H (mm)	Length
1	189	FMM281
2	219	FMM282
3	319	FMM283

RECOMMENDED FLOWS

(Glass fibre elements)

FMM	Replace element	Flow (L/min) X series	Flow (L/min) Y series	Weight (Kg)
281	F03	17	15	2,65
281	F06	20	18	2,65
281	F10	35	33	2,65
281	F25	50	47	2,65
282	F03	26	22	3,2
282	F06	40	29	3,2
282	F10	55	50	3,2
282	F25	80	70	3,2
283	F03	38	32	4,7
283	F06	50	40	4,7
283	F10	70	60	4,7
283	F25	95	85	4,7



Flows have been calculated just in order to obtain a pressure drop $\Delta p \leq 120.000 \text{ Pa}$ (1.2 bar) with mineral oil kinematic viscosity 30 cSt and 860 kg/m^3 density.

THREADED CONNECTIONS

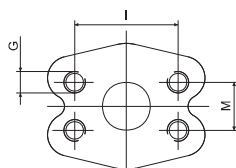
Type	A	E (depth 15mm)
	3/4" BSP	M 10
1	1" BSP	M 10
2	3/4" NPT	3/8" UNC
3	1" NPT	3/8" UNC
4	SAE12 - 1 1/16"-12UN	3/8" UNC
5	SAE16 - 1 5/16"-12UN	3/8" UNC

FLANGED CONNECTIONS

Type	Connection	I	M	G	E (depth 15mm)
6	3/4"SAE-3000 PSI/M	47.6	22.5	M 10	M 10
7	1"SAE-3000 PSI/M	52.4	26.2	M 10	M 10
8	3/4"SAE-3000 PSI/UNC	47.6	22.5	3/8" UNC	3/8" UNC
9	1"SAE-3000 PSI/UNC	52.4	26.2	3/8" UNC	3/8" UNC

LENGTH

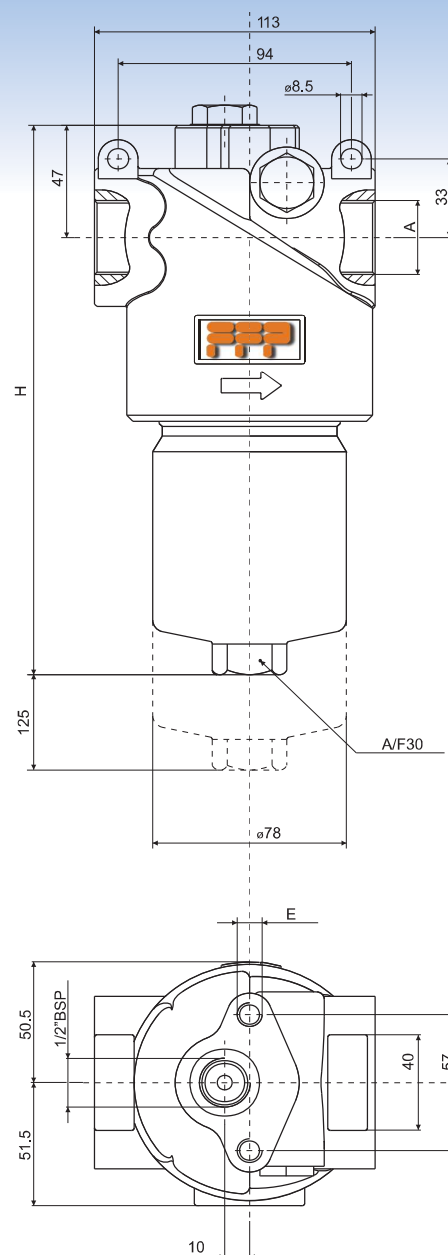
Type	H (mm)	Length
1	277	FHM421
2	390	FHM422



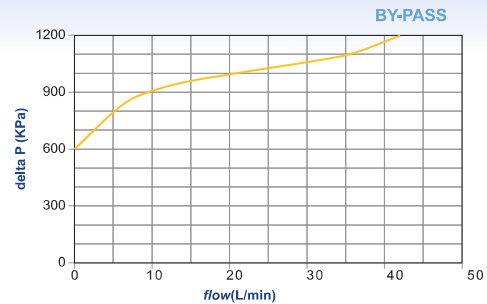
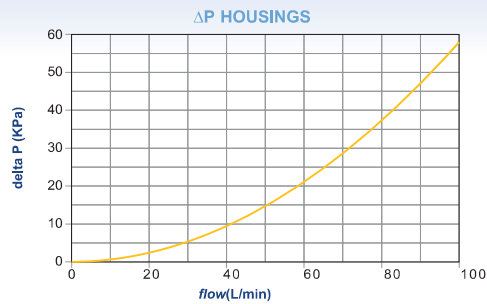
RECOMMENDED FLOWS

Glass fibre elements

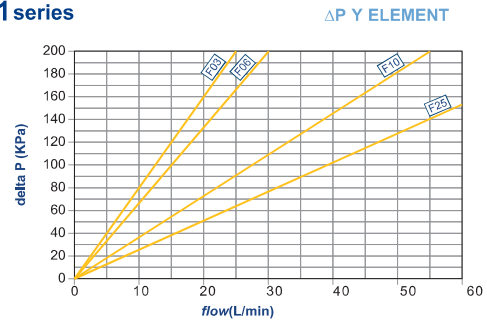
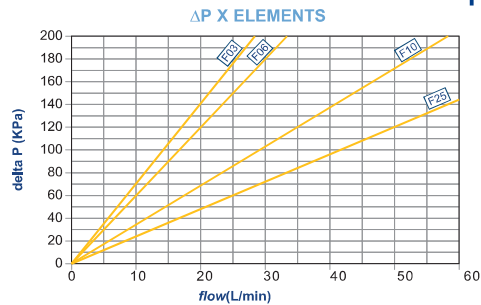
FMM	Replace element	Flow (L/min) X series	Flow (L/min) Y series	Weight (Kg)
421	F03	55	38	3,9
421	F06	65	55	3,9
421	F10	80	60	3,9
421	F25	104	75	3,9
422	F03	100	80	5,6
422	F06	113	90	5,6
422	F10	135	115	5,6
422	F25	170	145	5,6



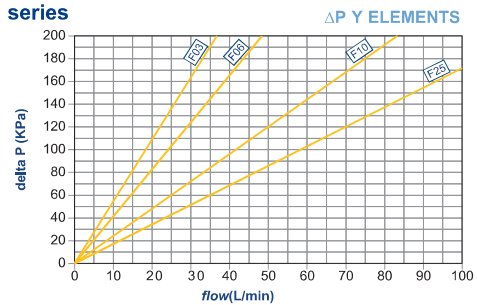
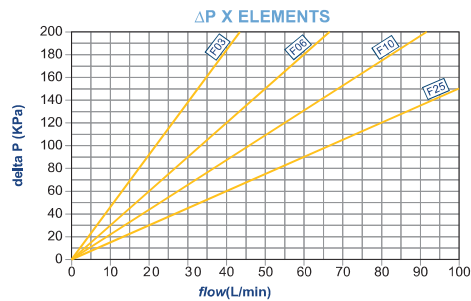
FMM series 28



FMM 281 series



FMM 282 series

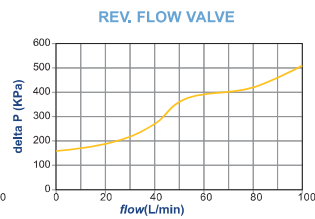
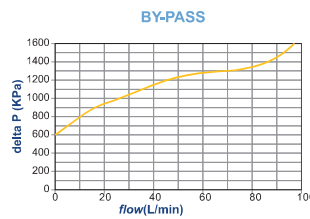
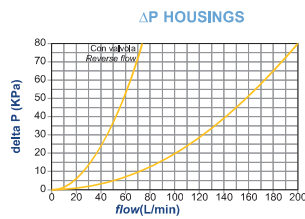
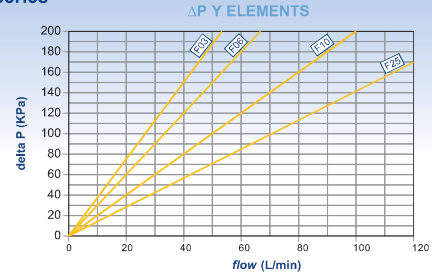
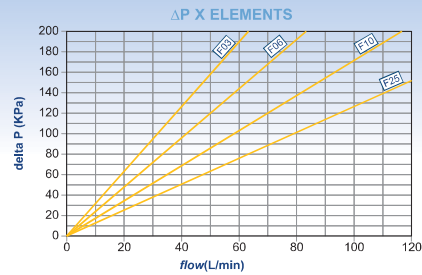


HIGH PRESSURE FILTERS

FMM

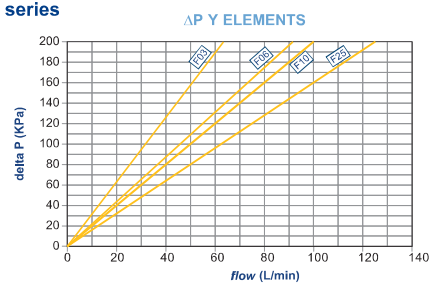
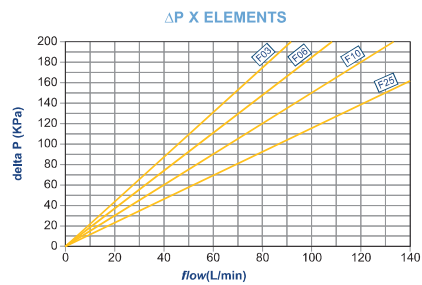
Pressure Drops
(according to ISO 3968)

FMM283 series

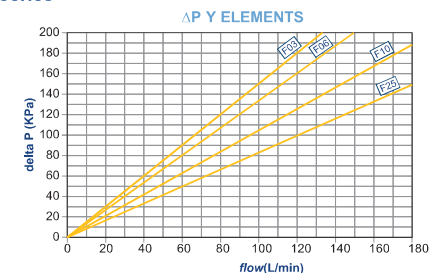
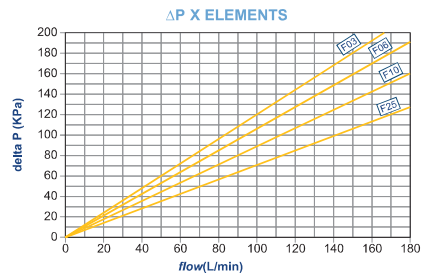


FMM series 42

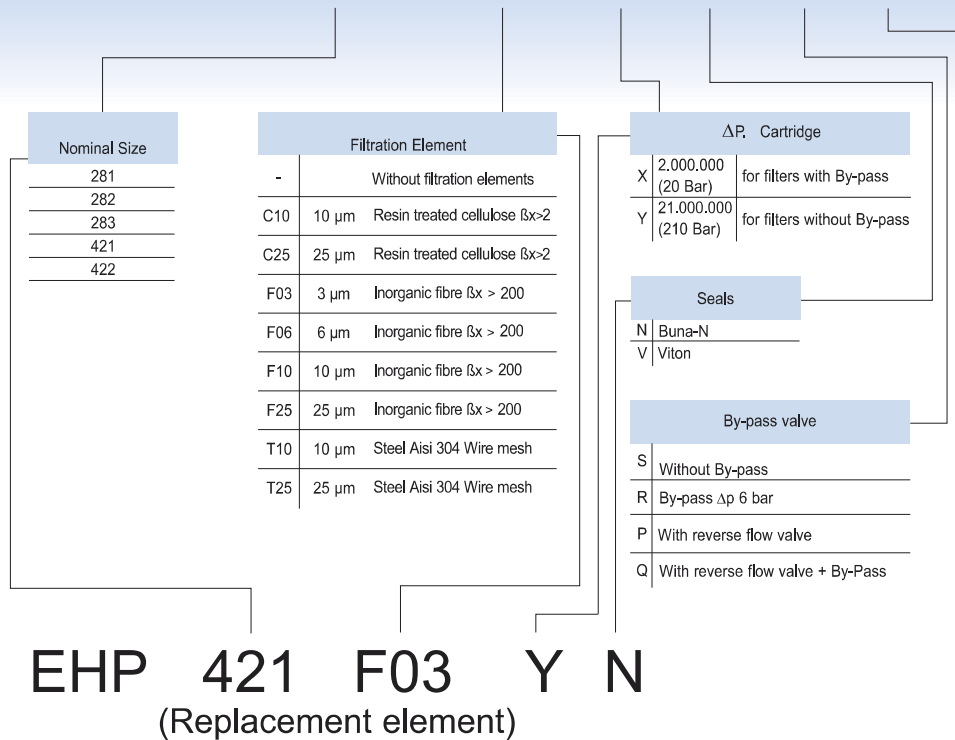
FMM 421 series



FMM422 series



F M M 281 T25 Y N S 3



CONNECTIONS

A	FMM28	FMM42
-	1/2" BSP	3/4" BSP
1	3/4" BSP	1" BSP
2	1/2" NPT	3/4" NPT
3	3/4" NPT	1" NPT
4	SAE8 3/4" - 16UNF	SAE12 1 1/16" - 12UN
5	SAE12 1 1/16" - 12UN	SAE16 1 5/16" - 12UN
6		3/4" SAE-3000PSI/M
7		1" SAE-3000PSI/M
8		3/4" SAE-3000PSI/UNC
9		1" SAE-3000PSI/UNC