



Metal High Flow Filters

LARGER FILTER AREA, LONGER FILTER LIFE

'Pall' 'Rigimesh' and 'PMF' range of cleanable metal cartridges has been extended to include a high area, large bore version. These are specifically designed to provide a very high surface area, up to 4.1 m², for handling large flow rates. Manufactured from **Rigimesh** or **PMF** medium to give very low clean differential pressure drops. Absolute removal from 2.5 micron up to 105 micron in liquids and .25 to 85 micron in gases.

Typical Applications

- Used where high flowrates combined with high temperatures preclude the use of polymeric products.
- Gas compressor inlets to reduce the effects of fouling.
- Catalyst protection, to increase catalyst life.
- Heat exchanger protection to reduce energy costs.
- Pump protection to increase pump life.



Features

- Large diameter
High Surface Area
- More flow per cartridge
- Absolute removal ratings from 2.5 up to 225 µm
- Cleanable

Benefits

- Low clean differential pressure
High Dirt Capacity
Longer Filter Life
Can replace up to 30 conventional metal filters
- Smaller systems
Quicker changeout
- Offers consistent and reproducible filtration throughout filter life. Single housing offers wide variety of removal solutions
- Easier to clean than conventional metal filters

Cartridge Dimensions

Nominal length	380 mm (15") 762 mm (30")
Outer diameter	190 mm (7.45")
Inner diameter	100 mm (6.3")

Operating Characteristics

Maximum Differential Pressure Conventional Flow Out to In*	Operating Temperature
12 bard	250°C
17 bard	21°C
Maximum Differential Pressure Reverse Flow In to Out	
0.7 bard	21°C

*For fluids compatible with the filter element at the stated temperature

To correct for different viscosity formula as follows: -

GAS Differential Pressure X $\frac{\text{Gas viscosity}}{.018}$

LIQUID Differential Pressure X Viscosity

NB. These values are for the media only.

You will need to add the tubesheet Δp as follows: -

GASES The differential pressure caused by the connections is negligible at .001mbar and can be ignored

LIQUIDS The differential pressure caused by the connections can be taken as constant for each application at 55 mbar

Ordering Information

LB - - 24

Code	Length (ins)
1	15"
2	30"

Clean Calculated Media Differential Pressure Drops per Standard Cartridge

PMF

GRADE	Gas (mbar/Sm3hr)		Liquid (mbar/lpm)	
	15 ins	30 ins	15 ins	30 ins
025	.039	.02	.178	.087
050	.009	.004	.043	.021
080	.007	.003	.03	.015
100	.004	.002	.02	.01
150	.002	.001	.01	.005
200	.001	.00025	.005	.0025
250	.001	.00025	.004	.0019
300	.001	.00025	.0035	.0017
400	.001	.00025	.0025	.0012

RIGIMESH

GRADE	Gas (mbar/Sm3hr)		Liquid (mbar/lpm)	
	15 ins	30 ins	15 ins	30 ins
S	.00009	.00004	.00009	.00004
R	.00013	.00007	.00013	.00007
M	.0003	.0002	.00035	.0002

NB. These values are for Air and Water only

Media Code	Absolute (100%) Removal Rating μm	Liquids	
		Liquids	Gases
Rigimesh	RM	45	25
	RR	70	55
	RS	105	85
PMF*	FH025	2.5	0.25
	FH050	5.0	0.5
	FH080	8.0	0.8
	FH100	10	1.0
	FH150	15	1.5
	FH200	20	2.0
	FH250	25	2.5
	FH300	30	3.0
	FH400	40	4.0

*Gas ratings are calculated values



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