



FILTALLOY TECHNOLOGY

# PLEATED METAL FILTER





# ABOUT US

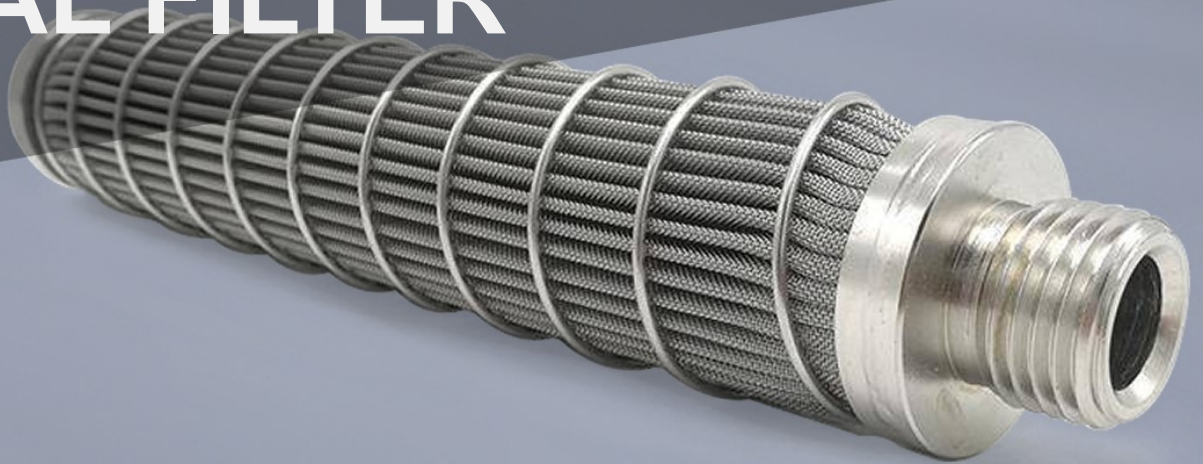
## Fitalloy Technology Limited

Fitalloy is an advanced metal filter elements manufacturer & supplier, with more than 20 years of experience. We have introduced the state of art machines and employed experienced technicians to supply high-performance, innovative materials, and solutions for applications in filtration and separation. Our products include:

- | Sintered Mesh Filter
- | Sintered Plate Filter
- | Pleated Metal Filter
- | Sintered Fiber Felt
- | Polymer Filter Elements
- | Polymer Leaf Disc
- | Polymer Extruder Screen
- | Sintered Powder Filter
- | Asymmetric Sintered Metal Filter
- | Hot Gas Filtration Elements
- | Filter Leaf
- | SPL Filter

Our products are widely used in numerous industries including aerospace, oil and gas, petrochemical, water, mine, polymer, food & beverage, automotive, and many other filtration and separation industries. With so many applications, we have built the R&D, design, machining, sales, and quality control departments. With the design and tailored solutions, we then translate them into high-level products. And our team has been learning about the forefront of filtration technology from industrial leading companies. Here customers could get high-quality products at an economic price!

# PLEATED METAL FILTER



The pleated layer is constructed with some layers of metal woven mesh or metal woven mesh together with metal fiber.

## Features:

- ✓ High filter area, high flow rate
- ✓ High dirt holding capacity
- ✓ Robust construction to resist high pressure drop
- ✓ Cleanable: backwash or ultrasound
- ✓ Stainless steel sintering technology

<b>MATERIAL</b>	SS304, 316
<b>FILTRATION</b>	0.5-200um
<b>LENGTH</b>	16" - 60" (406.4mm-1524mm)
<b>DIFFERENTIAL PRESSURE</b>	Max. 10bar (145PSI)
<b>TEMPRESURE</b>	Max. 400°C





**Pleated Metal Filter for Aerospace Application**



**Pleated Metal Filter for Hydraulic Oil Filter**



**Pleated Metal Filter for Hydraulic Oil Filter**



**Customized Pleated Metal Filters**



**Flow Rate and Pressure Drop Formulas**

Clean DP = Flow Rate x Viscosity x Flow Factor/(Length Factor)

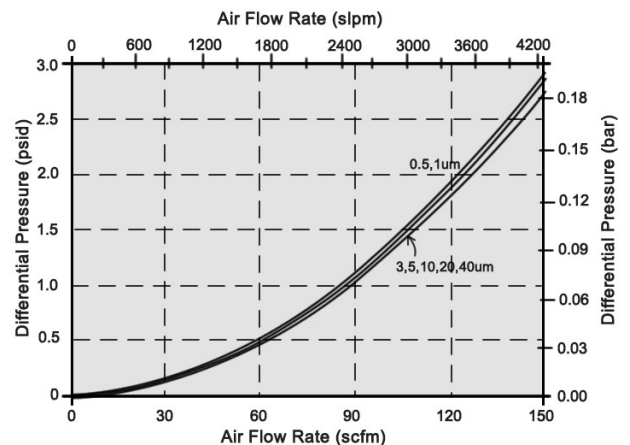
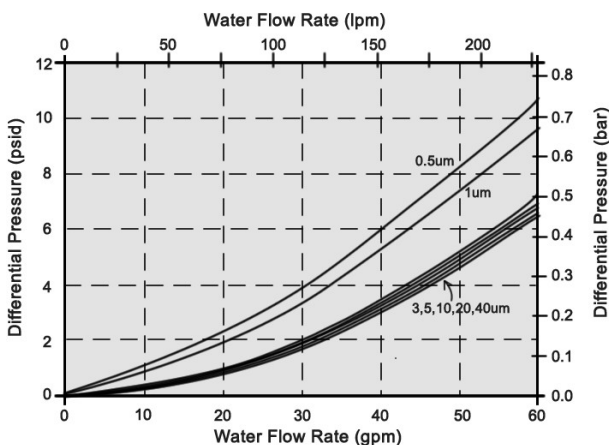
Flow Rate (gpm) = Clean DP x Length Factor/(Viscosity x Flow Factor)

**Notes:**

1. Clean DP is differential pressure initially, unit PSI.
2. Viscosity unit is centistokes (Cst) . If other units, pls convert to Cst.
3. Flow Factor is DP/GPM at 1 cks for 10 inch (or 250mm length tube).
4. Length Factors convert flow or DP from 10 inch (250mm length) to required cartridge length.

Length (inch)	Length (mm)	Flow Factor
10	254	0.00036
20	508	0.0076
30	762	0.0116

**Flow Rate and Differential Pressure Relationship Drawing**



**Note:** 1. Water temperature 75°F (24°C); 2. Air temperature 75°F (24°C), inlet prssure 1bar

# ORDER INFORMATION

## PSS - 2 - 4" - S4 - E - DOE - G

TABLE1 - TABLE2 - TABLE3 - TABLE4 - TABLE5 - TABLE6 - TABLE7

**TABLE1**

Cartridge Type
PSS=Pleated Stainless Steel
CSSC=Cylindrical SS Cartridge

**TABLE2**

Micron Rating (um)		
2	5	10
15	20	32
50	80	100
150	200	300
370	540	840

**TABLE3**

Cartridge Length
4"=102mm
9-3/4"=248mm
10"=254mm
20"=508mm
30"=762mm
40"=1016mm

**TABLE4**

Media Material
S4=Stainless Steel 304
S6=Stainless Steel 316

**TABLE5**

Seal Material
E=EPDM
F=PTFE
B=Buna N
V=Viton
S=Silicon
FV=FEP Encapsulated Viton
FS=FEP Encapsulated Silicon
X=No seal required

**TABLE5**

End Cap Configuration
DOE=Double open end
DOET=Double open end with extended tube
SNPT=Single open with 1" NPT male connector
SO =226 O ring flat
SR =222 O ring flat

**TABLE7**

Guard/Support Option
G=Guard
N=No

Micron Rating (um) and Mesh Count Table					
Micron Rating(um)	Mesh count	Percent Open Area	Micron Rating(um)	Mesh count	Percent Open Area
2	325×2300	—	100	30×150	31
5	200×1400	—	150	30×150	33
10	165×1400	—	200	14×88	41
20	165×800	—	300	12×64	35
32	120×400	—	370	40×40	36
50	50×250	—	540	30×30	45
80	40×200	35	840	20×20	52

**Note:** 2-32um micron rating is twill dutch weave mesh  
 50-300um micron rating is plain dutch weave mesh  
 370-840um micron rating is plain weave mesh

# FILTALLOY



FILTALLOY TECHNOLOGY LTD.

Web: [www.alloyfilter.com](http://www.alloyfilter.com)

TEL: +86 318 5821388

Mob: +86 13313087837 (Whatsapp)

+86 13833822572 (Whatsapp)

Email: [info@alloyfilter.com](mailto:info@alloyfilter.com)

Add: High-tech Industrial Zone, Hengshui, Hebei, China, 053000