

# Steelflow™ Filter Cartridges

All-316L stainless steel filter cartridge for microfiltration applications

The Steelflow™ filter cartridge was developed for microfiltration applications with extreme thermal ranges and differential pressures and provides extended service life with excellent dirt-holding capacity.

Steelflow's superior performance is due to its proprietary 421® filter medium, composed of 100%, 316L random fiber stainless steel. A unique calendaring process forms specialized filter media which provides consistently high porosities and large filtration areas. The sintered matrix is reinforced with woven wire screen to provide the mechanical strength necessary to withstand high differential pressures and exceptional flow characteristics. All other Steelflow components are 316L stainless steel which provides exceptional chemical and thermal resistance. Steelflow can be cleaned mechanically, chemically or thermally to allow cartridge reuse and are bubble point integrity tested for quality. Available in 0.5µm, 1.0µm, 5.0µm, 10µm, 20µm and 40µm. Liquid particle retention is typically 99.0% efficient at the stipulated pore size.



## Contact Information

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## Benefits

- 100% bubble point integrity tested
- 316L stainless steel construction
- Superior chemical compatibility
- Excellent mechanical strength
- Extended on-stream life
- High thermal tolerance
- Regenerable

## Applications

- Spargers
- Cryogenics
- Beverage Filtration
- Highly Viscous Fluids
- Corrosive Liquids and Gases
- Super-Heated Process Steam
- High Temperature Processing
- Recovery of Valuable Particulate

ENGINEERING YOUR SUCCESS.

# Steelflow™ Filter Cartridges

## SPECIFICATIONS

### Materials of Construction

Media: 316L Stainless Steel  
 Support Layers: 316L Stainless Steel  
 Structure: 316L Stainless Steel

### Maximum Differential Pressure

Forward:  
 250psid (17bar) @ 700°F (371°C)  
 Reverse:  
 50psid (3.4bar) @ 700°F (371°C)

### Chemical Compatibility

Steelflow is compatible with all chemicals that may be processed using stainless steel.

### Operating Temperature Range

Maximum: +700°F (371°C)  
 Minimum: -450°F (-268°C)

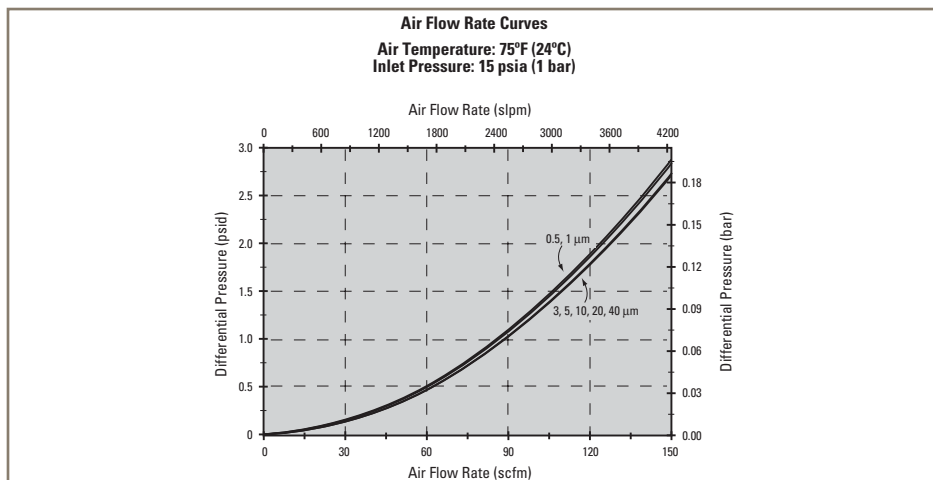
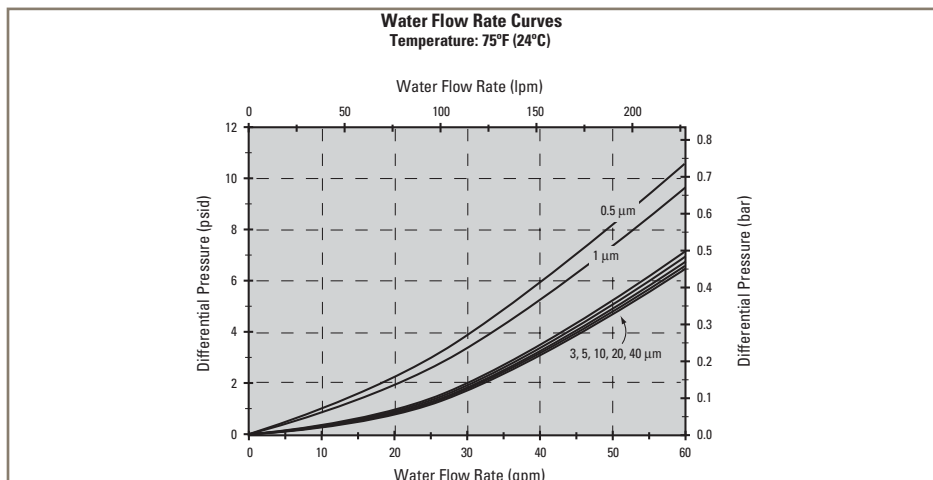
### Effective Filtration Area

1.8ft<sup>2</sup> (0.17m<sup>2</sup>) per nominal 10 inch (250mm) cartridge.

### Regenerable

May be cleaned chemically, mechanically or thermally.

## Performance Attributes



## Ordering Information

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End Fitting	
CODE	DESCRIPTION
1	DOE
2	226/Flat
3	222/Flat
7	226/Fin
8	222/Fin
A	SOE w/1" NPT
B	SOE w/1.5" NPT

Nominal Length	
CODE	LENGTH
10	10" (250mm)
20	20" (500mm)
30	30" (750mm)
40	40" (1000mm)

Filter Rating	
CODE	MICRON
005	0.5μm
010	1.0μm
030	3.0μm
050	5.0μm
100	10.0μm
200	20.0μm
400	40.0μm

O-Ring	
CODE	MATERIAL
0	Buna-N
1	EPDM
2	Silicone
4	Viton®
5*	FEP-Encapsulated Viton®
6*	FEP-Encapsulated Silicone
N	None

\*O-Rings Only

Gaskets	
CODE	THICKNESS
1	0.200" (5mm)
2	0.125" (3mm)
4	(1) 0.200" (5mm) (1) 0.125" (3mm)
N	No Gasket

Specifications are subject to change without notification.  
 For User Responsibility Statement, see [www.parker.com/safety](http://www.parker.com/safety)

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