



## PROSTEEL A Filter Cartridges

- liquid filters
- 316L stainless steel

PROSTEEL A filters provide the ideal solution in applications where traditional polymer based filters are limited by compatibility, exposure time or a combination of high temperature and viscosity.

They are ideally suited to filtration of the solvents used in a wide range of process industries from pharmaceuticals, food and beverage and electronics through to paints and inks. The Parker domnick hunter range of stainless steel filters provides a solution to compatibility issues while maintaining absolute retention ratings down to 3.0 micron. 316L stainless steel fibres are sintered together into a graded pore structure.

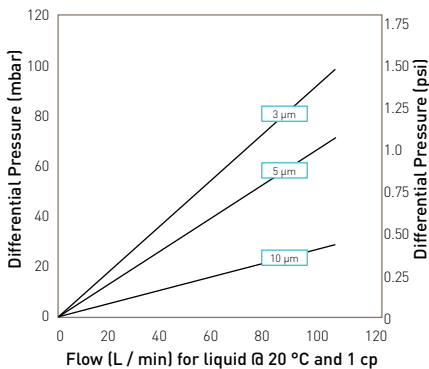
The efficiency of the media increases through the filtration bed resulting in excellent dirt holding capacity while maintaining high relative flow rates compared to alternative technology such as sintered powder tubes and metal membranes. The filters are available in two formats both using the same filtration media but one manufactured in a pleated construction and one in a cylindrical wrap. This allows a cost-effective selection depending on flow rate and dirt holding requirements.

### Features and Benefits

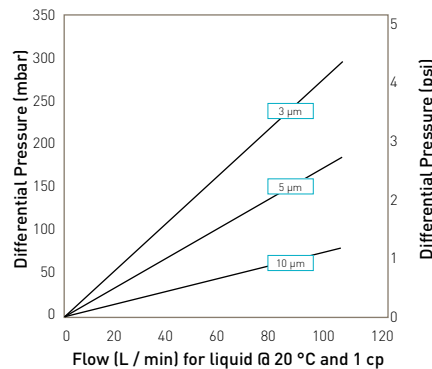
- Absolute rated stainless steel liquid filters
- Ideal for aggressive solvents, viscous and hot solutions
- Removal rating 3, 5 and 10 microns
- Compatible with most solvents
- Graded density metal fibre technology provides exceptional dirt holding capacity while retaining excellent flow rates
- Available in two formats; pleated and wrapped, for complete system optimisation



### Performance Characteristics



Pleated cartridge flow rates  
10" Size (250 mm) Cartridge



Cylindrically wrapped cartridge flow rates  
10" Size (250 mm) Cartridge

## Specifications

### Materials of Construction

- Filtration Media: 316L Stainless Steel
- Inner Support Core: 316L Stainless Steel
- Outer Protection Cage: 316L Stainless Steel
- End Caps: 316L Stainless Steel
- Standard o-rings/gaskets\*: EPDM
- Assembly Method: TIG Welded

\*All o-rings are manufactured for FDA approved compounds.

### Recommended Operating Conditions

Operating Temperature		Maximum Forward DP		Maximum Reverse DP	
°C	°F	(bar)	(psi)	(bar)	(psi)
200	392	25	364	3	44

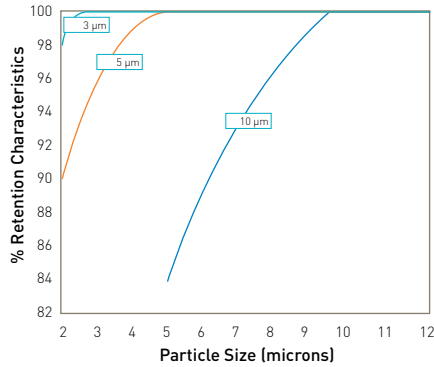
Note: The maximum operating temperature is dependant on o-ring selection and properties of the liquid being filtered.

### Effective Filtration Area (EFA)

- ZCCF Cylindrical Wrap
  - 10" (250 mm) 0.05 m<sup>2</sup> (0.53 ft<sup>2</sup>)
- ZCMF Pleated
  - 10" (250 mm) 0.13 m<sup>2</sup> (1.39 ft<sup>2</sup>)

### Retention Characteristics

The retention characteristics of the stainless steel filters are determined using ACFTD in accordance with the single pass test ASTM 795-88.



### Dirt Holding Capacity

The table below gives an indication of dirt holding capacity in grams when tested in accordance with the Multipass method ISO 168892.

Type	Micron Rating		
	3.0	5.0	10.0
ZCCF	3.0	3.5	4.0
ZCMF	7.0	7.6	8.4

Change Differential Pressure (dP) = 8 x initial dP.

### Integrity Test Data

The general condition of the cartridge can be tested via the bubble point method. Typical values are detailed in the table below.

Micron Rating		3.0	5.0	10.0
		Bubble Point	(mbar)	125.0
in Water	(psig)	1.78	1.1	0.54

## Ordering Information

Code   Type	Code   Length (Nominal)	Code   Micron	Code   Endcap (10")	Code   O-rings
CF   Wrapped	B   2.5" (65 mm)	003   3.0 µm	B   dh DOE	E   EPDM
MF   Pleated	A   5" (125 mm)	005   5.0 µm	C   BF / 226 Bayonet	P   PTFE Encapsulated Silicone
	1   10" (250 mm)	010   10.0 µm	T   TRUESEAL	S   Silicone
	2   20" (500 mm)			V   Viton
	3   30" (750 mm)			Z   Demi A & B Std

Parker dominick hunter has a continuous policy of product development and although the Company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's Standard conditions of sale.