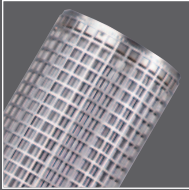
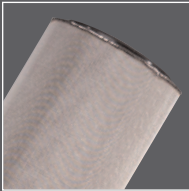


PROSTEEL A



- Absolute rated stainless steel liquid filters
- Ideal for aggressive solvents, viscous and hot solutions
- Removal rating from 3 to 10 microns



- Graded density metal fibre technology provides exceptional dirt holding capacity while retaining excellent flow rates
- Compatible with most solvents
- Available in two formats; pleated and wrapped, for complete system optimisation

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 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.

available formats



Technical 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*	:	Silicone, EPDM, Viton, FEP
Assembly method	:	TIG Welded

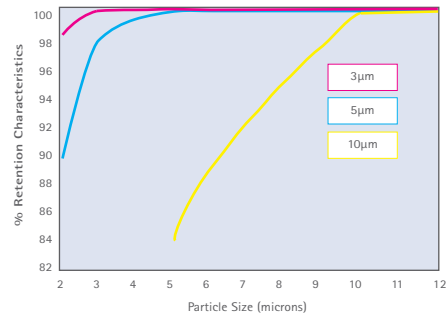
* all o-rings are manufactured for FDA approved compounds

Effective Filtration Area

ZCCF Cylindrical Wrap	:	0.05m ² (0.55ft ²) per 250mm (10") module
ZCMF Pleated	:	0.13m ² (1.4ft ²) per 250mm (10") module

Retention Characteristics

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



Recommended Operating Conditions

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

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

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

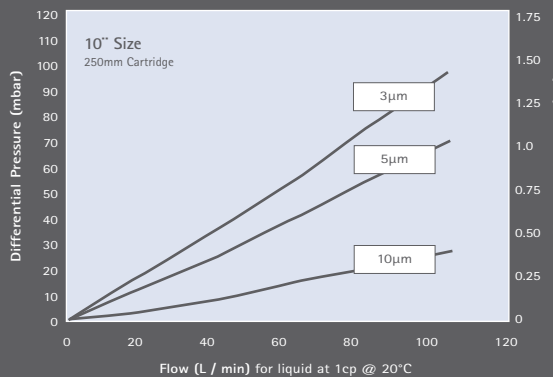
Differential pressure = 8 x initial differential pressure.

Integrity Test Data

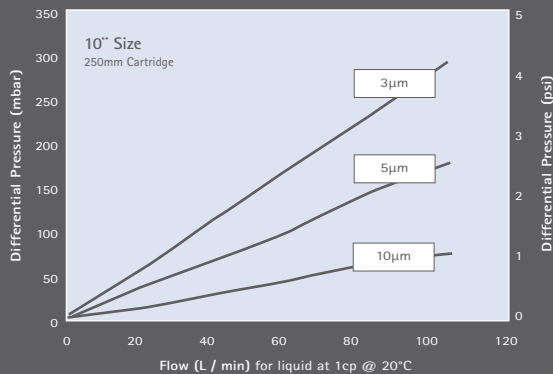
The general condition of the cartridge can be tested via the bubble point method. Typical values are detailed in the table below.

Micron Rating		3.0	5.0	10.0
Bubble Point in Water	(barg)	125	76	37
	(psig)	1.78	1.1	0.54

Pleated Cartridge Flow Rates



Cylindrically Wrapped Cartridge Flow Rates



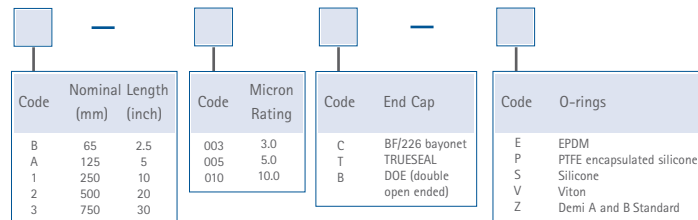
Cartridges

Metal Wrapped

ZCCF

Metal Pleated

ZCMF



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