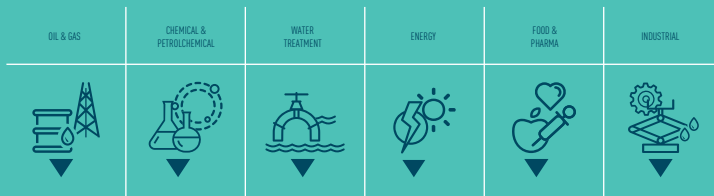


CARTRIDGES

All welded cartridges are available in both smooth cylindrical and pleated configurations, with various type of Media.

The smooth cylindrical design provides a simple sleeve of filter medium supported by a central core.

The pleated design uses pleated media, again supported by the central support core, this time providing over twice the effective filtration area of the cylindrical cartridge.



Applications

Oil & Gas

- Refinery Process Fluids • Gas Treatment • Recover Catalysts • Off-shore Water Injection • Ammine Filtration

Chemical & Petrochemical

- Process Fluids • Gas Treatment • Recover Catalysts • Reagent • Solvent

Water Treatment

- Pre-filtration • Industrial Water Filtration • Drinking Water Filtration • Waste Water • Softening System Protection

Power Generation

- Process Fluids • Gas Separation & Treatment • Water Treatment

Food & Farma

- Cosmetic • Fermentation • Pre-Prefiltration • Beverage And Water • Dairy

Industrial

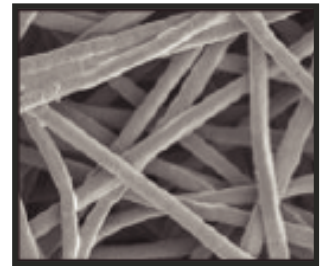
- Steel Production • Paints And Inks Production • Mechanic Industry • Paper Mills • Textile Industry

Filter Media and Elements:

FIBERX

Manufactured from random laid metal fibres, sinter bonded to form a uniform high porosity filter medium, FIBERX demonstrates a significantly low-pressure drop, high permeability and excellent dirt holding capacity.

FIBERX offers long life and minimal maintenance cost. Available in grades 0.3 to 60 microns absolute.

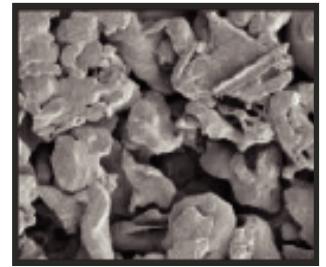


POWDERX

A robust filter material manufactured from sinter bonded metal powders, POWDERX offers depth filtration and a high resistance to corrosion.

Its self-supporting construction eliminates the need for additional hardware, producing an efficient, cost effective filter.

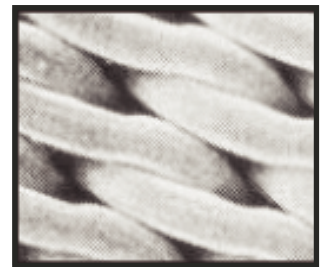
Available in grades 0.4 to 60 microns absolute



TRUEMESHX

A sintered woven metal mesh providing very high strength, good permeability filter medium with a tightly controlled pore size. Available in single or multi layered, laminated structures and various alloys, TRUEMESHX can be pleated to reduce envelope size.

Available in grades 3.5 to 60 microns absolute for complex types.



Available filtration grades (microns)

FIBERX		POWDERX		TRUEMESHX	
Liquid filtration	Gas filtration	Liquid filtration	Gas filtration	Liquid filtration	Gas filtration
3	0.3	6	0.4	5	3.5
5	1.3	10	0.7	8	6
10	2.5	15	1.2	10	8
15	4	25	3.1	15	13
20	5	30	4.5	20	16
30	8	40	6	30	20
40	10	60	10	35	22
60	15			70	55

Features and Benefits:

- Cleanable 316 stainless steel filter cartridge.
- High surface area from pleated filtration medium.
- Robust, all-welded construction.
- High dirt holding capacity.
- Filtration ratings available from 1 to 450 micron absolute.
- High flow rate capability.
- Outer stainless steel support cage for added strength in reverse direction.
- Available in sintered fibre, mesh and powder configurations.

Materials and manufacture:

Filter medium, protection mesh, support mesh, inner core, outer guard and end fittings, all grade 316L stainless steel.

Other grades include 304L and 310 stainless steel, Hastelloy® X, Inconel® 600/601/625 and Monel®.

Assembly by TiG welding.

Available in metal fibre, woven wire mesh and sintered powder.

Gaskets and O-Rings:

EPDM, Nitrile, PTFE, Silicone, Viton®, PTFE coated Viton®.

Also FDA approved Viton®, EPDM, Silicone or PTFE.

Cartridges dimensions:

Length:	05	125mm (5")
	10	250mm (10")
	20	498mm (20")
	30	745mm (30")
	40	1012mm (40")

End fittings:

Double ended , 222 (Single plug-in 'O' ring seal), 226 (twin plug-in 'O' ring seal) and threaded.

Operating temperature:

Maximum continuous 300°C (572°F).

Higher temperatures are available on application.

Effective filtration area:

(Each 250mm module)

Plain cylindrical: 0.05m² (0.55ft²) Pleated: 0.13m² (1.4ft²)

Max differential pressure:

Out to in (forward), all lengths: 10bar (145psi)

In to out (reverse), all lengths: 2bar (29psi)

FIBERX CARTRIDGE

Cylindrical Smooth and Pleated sintered metal fiber element.

Manufactured from randomly laid metal fibres and sinter-bonded to form a uniform high porosity filter medium, FIBERX demonstrates a significantly low pressure drop, high permeability and excellent dirt holding capacity.

Sintered metal fibre can be pleated to increase the available filtration area of a filter element, further increasing dirt holding capacity, minimising maintenance and maximising on-stream processing.

With the feasibility to formulate metal fibres to meet specific application requirements, combined with inherent durability, sintered metal fibre filters can be cleaned in situ without interrupting process flow, so providing the ultimate in process economics by reducing downtime to a minimum.

Typical applications:

- Catalyst recovery and retention
- Gasification and chemical production • Vent filters
- Agrochemical
- Steam filtration
 - Culinary steam
 - Process steam
- Pharmaceutical powder recovery
- Polymer melt,

Features and Benefits:

- Resistant to high temperatures and corrosive environments
- High void volume
- Excellent cleanability and dirt holding capacity
- Minimal maintenance costs
- Available in 316L as standard with other alloys
such as Inconel® 601, Hastelloy® X, NiCrMo Alloy 59 and Fecralloy® on request

Specifications:

Materials of Manufacture

316L stainless steel standard. Inconel®, Hastelloy®, NiCrMo Alloy 59 and Fecralloy® on request or by process selection. Additional alloys are available on request.

Element dimensions:

- Length:	05	125mm (5")
	10	250mm (10")
	20	498mm (20")
	30	745mm (30")
	40	1012mm (40")

Effective Filtration Area

Smooth:	0.05m ² (0.55ft ²) per 250mm (10") cartridge
Pleated:	0.13m ² (1.40ft ²) per 250mm (10") cartridge

Gaskets and O-Rings*

EPDM as standard, nitrile, PTFE, silicone, Viton®, FEP coated EPDM, FEP coated silicone, FEP coated Viton® available on request or by process selection.

* FDA approved seals are available.

Typical Maximum Differential Pressure* (all lengths)

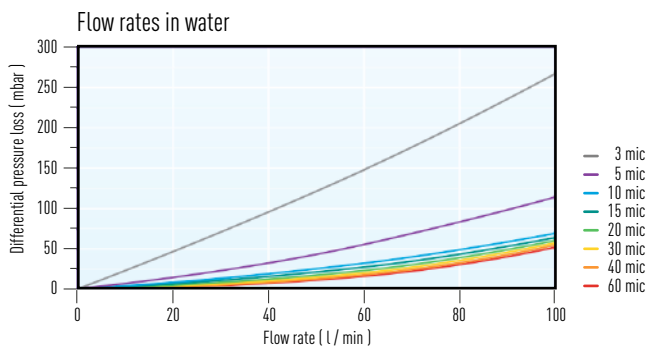
Normal flow direction:
Smooth 15bar (218psi) / Pleated 25bar (363psi)
Reverse flow direction:
Smooth/Pleated 3bar (44psi)

Operating Temperature

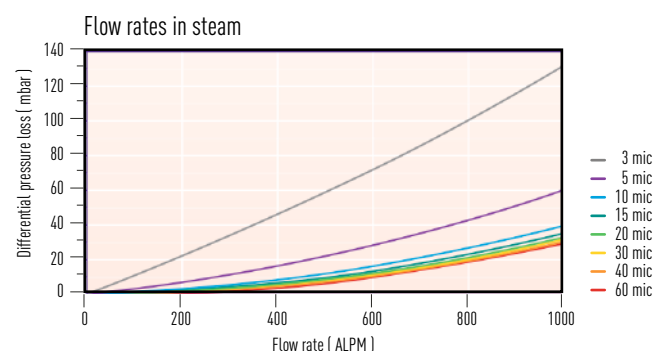
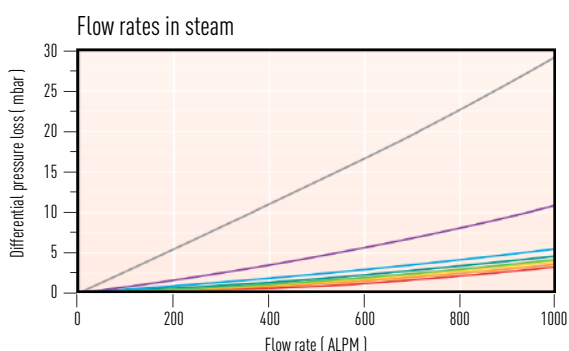
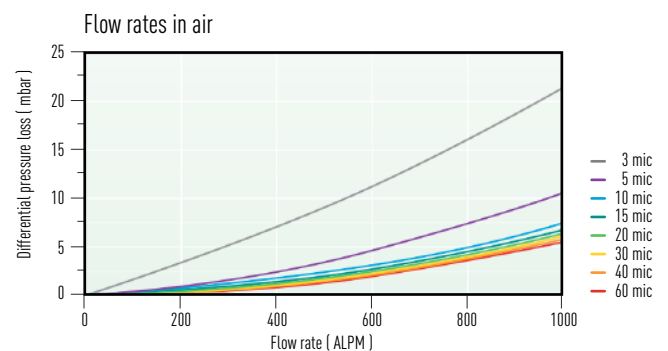
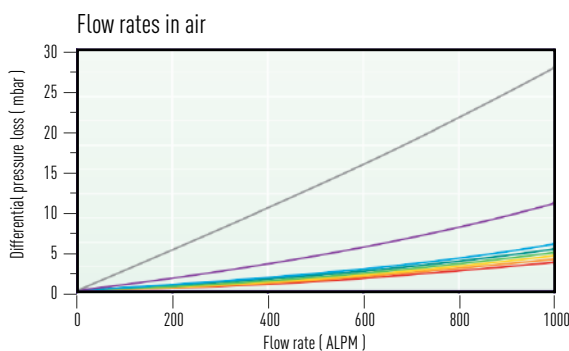
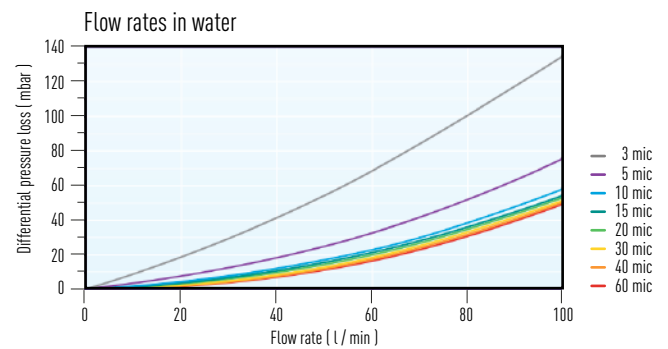
Maximum continuous:
From -195°C (-319°F) to 340°C (644°F) seal limiting
From -269°C (-452°F) to 1000°C (1832°F) alloy limiting

* Grade dependant.

SMOOTH CARTRIDGE



PLEATED CARTRIDGE



10" cartridge - ambient temperature

POWDERX CARTRIDGE

Cylindrical Smooth and Pleated sintered metal powder element.

POWDERX is a robust material manufactured from sinterbonded metal powders. Primarily produced in 316L grade for use in temperatures up to 420oC (788oF), depending on process conditions, and offering resistance to most chemicals, POWDERX media can also be produced in other grades of stainless steel and alloys such as Inconel® , Hastelloy® and Monel® .

POWDERX powder media can be manufactured in both disc format or in cylinder format.

For cylinders, our isostatic pressing ensures greater media uniformity with no welds, leading to increased corrosion resistance.

Our isostatic pressing ensures greater media uniformity with no welds, leading to increased corrosion resistance.

Available in wall thickness of 1.6mm (0.07") and 3mm (0.12").

Typical applications:

- Catalyst recovery and retention
- Polymer melt
- Chemical production
- Steam filtration
 - Culinary steam
 - Process steam
- Liquids and liquid backwash

Features and Benefits:

- Extremely robust construction
- Smooth surface finish preferable for backwash applications
- Self supporting construction eliminating the need for additional hardware
- Broad range of fixed, uniform pore sizes
- Ability to withstand varying process conditions
- Available in 316L stainless steel as standard with other alloys such as 304L stainless steel, 904L stainless steel, 310 stainless steel, Inconel® , Hastelloy® and Monel® on request, as well as sintered powdered bronze.

Specifications:

Materials of Manufacture

316L stainless steel standard. 304L stainless steel, Inconel[®], Hastelloy[®], Monel[®] on request or by process selection. Additional alloys are available on request.

Element dimensions:

- Length:	05	125mm (5")
	10	250mm (10")
	20	498mm (20")
	30	745mm (30")
	40	1012mm (40")

* Other diameters and lengths available on request

Effective Filtration Area

Smooth:
0.05m² (0.55ft²) per 250mm (10") cartridge

Gaskets and O-Rings*

EPDM as standard, nitrile, PTFE, silicone, Viton[®], FEP coated EPDM, FEP coated silicone, FEP coated Viton[®] available on request or by process selection.

* FDA approved seals are available.

Typical Maximum Differential Pressure*

Normal flow direction: 25bar (363psi)

Reverse flow direction: 10bar (145 psi)

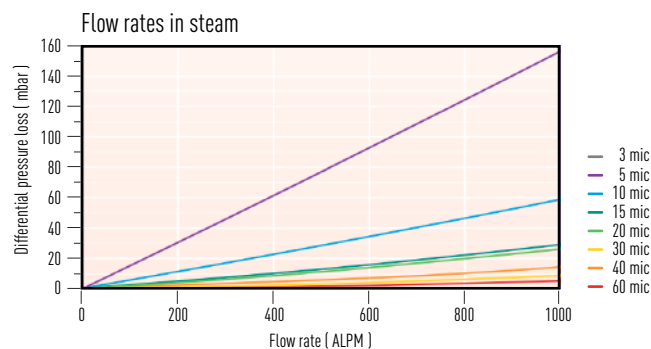
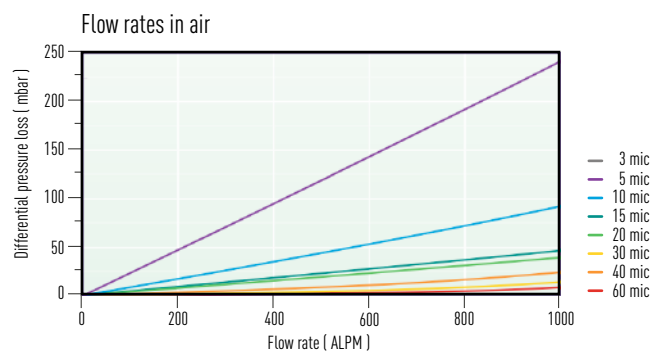
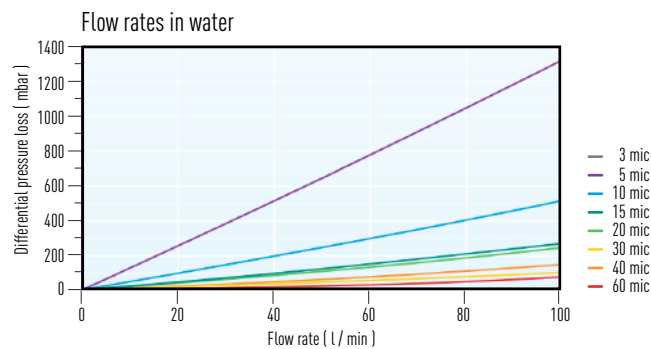
* Grade dependant.

Operating Temperature

Maximum continuous:

From -195°C (-319°F) to 340°C (644°F) seal limiting

From -269°C (-452°F) to 925°C (1697°F) alloy limiting



TRUEMESH CARTRIDGE

Cylindrical Smooth and Pleated sintered metal mesh element.

The TRUEMESH demonstrates good permeability,

high tensile strength and is available from single wrap designs through to complex multi-layered structures in pleated constructions to optimise the area available. These meshes can be manufactured in diffusion bonded versions to increase performance security of pore shape and size and have the broadest range of pore sizes of any filter media type.

TRUEMESH precision woven meshes are manufactured in various types of weaves. Plain square weave is available for simple sieving duties through various weave patterns (Reverse Plain Dutch, Broad Mesh Twill and Single Plain Weave). Dutch Twill Weave is provided for the most comprehensive selection of surface filtration duties.

Typical applications:

- Catalyst recovery and retention
- Gasification and chemical production
- Vent filters
- Agrochemical
- Steam filtration
 - Culinary steam
 - Process steam
- Pharmaceutical powder recovery
- Polymer melt

Features and Benefits:

- Manufactured in various types of weaves
- Precise aperture in size and shape
- Good permeability
- All welded, robust construction
- Available from single layered designs to complex multi-layered structures
- Available in the broadest range of pore sizes of any filter media type
- Smooth surface variant preferable for backwash applications
- Available in 316L stainless steel as standard with other alloys such as 304L stainless steel, Inconel[®], Hastelloy[®] and Monel[®] on request.

Specifications:

Materials of Manufacture

316L stainless steel standard. 304L stainless steel, Inconel®, Hastelloy® and Monel® available on request or by process selection.

Element dimensions:

Length:	05	125mm (5")
	10	250mm (10")
	20	498mm (20")
	30	745mm (30")
	40	1012mm (40")

Effective Filtration Area

Smooth:	0.05m ² (0.55ft ²) per 250mm (10") cartridge
Pleated:	0.13m ² (1.40ft ²) per 250mm (10") cartridge

Gaskets and O-Rings*

EPDM as standard, nitrile, PTFE, silicone, Viton®, FEP coated EPDM, FEP coated silicone, FEP coated Viton® available on request or by process selection.

* FDA approved seals are available.

Typical Maximum Differential Pressure* (all lengths)

Normal flow direction:

Smooth 15bar (218psi) / Pleated 25bar (363psi)

Reverse flow direction:

Smooth/Pleated 3bar (44psi)

Operating Temperature

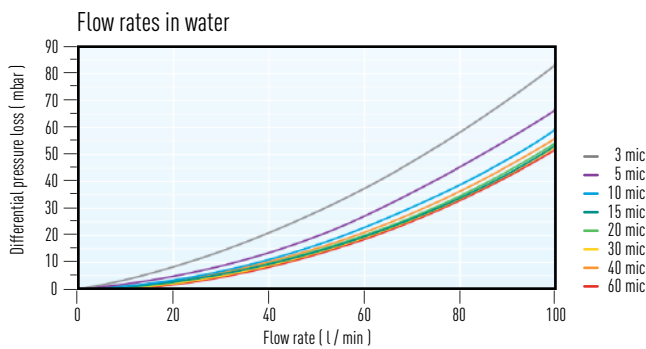
Maximum continuous:

From -195°C (-319°F) to 340°C (644°F) seal limiting

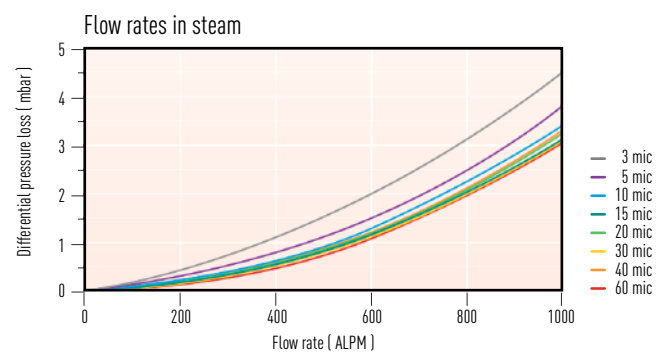
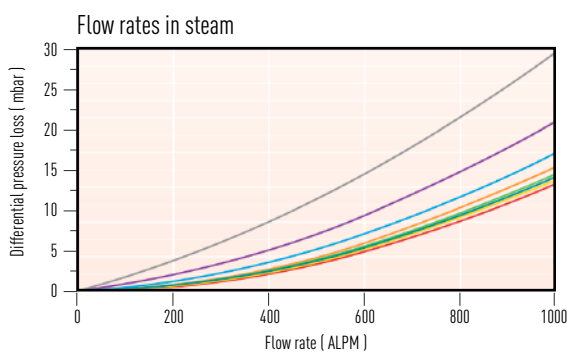
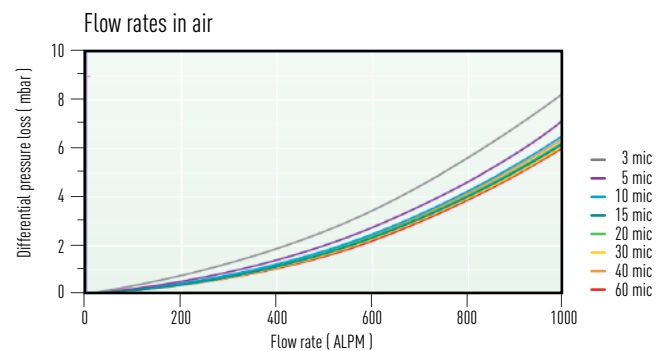
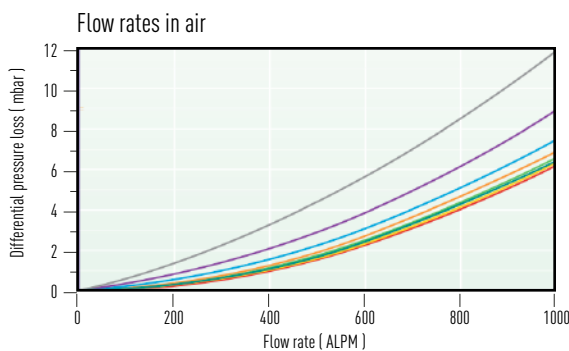
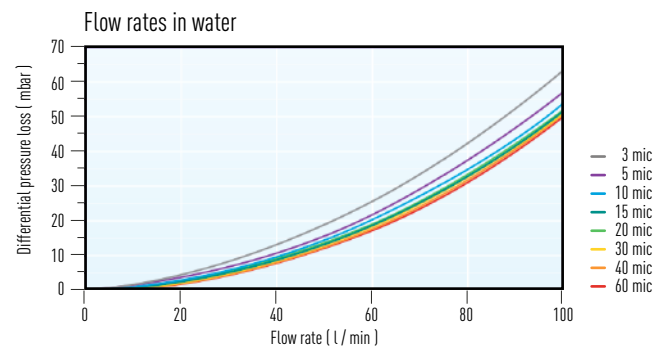
From -269°C (-452°F) to 1000°C (1832°F) alloy limiting

* Grade dependant.

SMOOTH CARTRIDGE



PLEATED CARTRIDGE



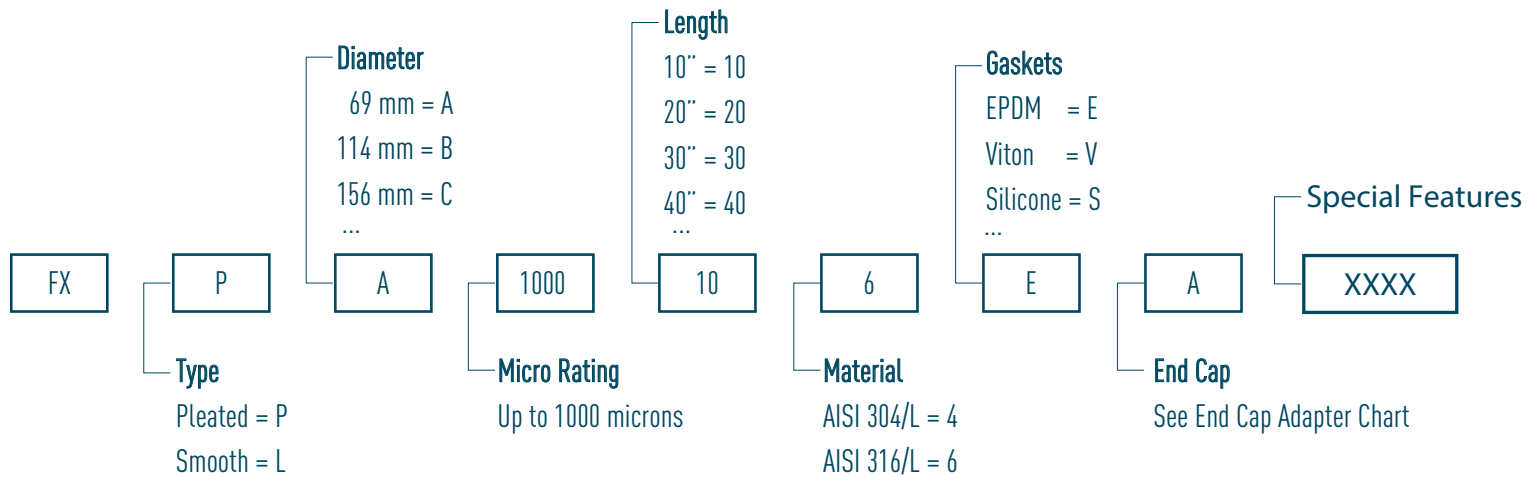
10" cartridge - ambient temperature

END CAP ADAPTER

CARTRIDGE		TOP END			OUTLET END		
Code	Description	End Fitting	Seal	Quantity	End Fitting	Seal	Quantity
A	Code 3	Flat	None		Open	O-Ring 222	2
B	Code 7	Fin	None		Open	O-Ring 226	2
C	Code 8	Fin	None		Open	O-Ring 222	2
F	N SOE	Recess	None		Flat open	O-Ring 213	1
G	G DOE (short length)	Flat open	Flat gasket	1	Flat open	Flat gasket	1
H	G SOE	Flat	None		Flat open	O-Ring BS 118 (fit into filter housing)	2
J	216 (218), fin	Fin	None		Open	O-Ring 216 O-Ring 218	1 1
K	Code 2	Flat	None		Open	O-Ring 226	2
L	223, fin (no lugs)	Fin	None		Open	O-Ring 223	2
M	DOE	Flat open	Flat gasket	1	Flat open	Flat gasket	1
P	Code 18 (retro fit)	Flat	None		Open	O-Ring 222	2
S	Code 28, fin (3 lugs)	Fin	None		Open	O-Ring 222	2
T	223, flat (no lugs)	Flat	None		Open	O-Ring 223	2
U	224, fin	Fin	None		Open	O-Ring 224	2
V	226, fin	Fin	None		Open	O-Ring 226	2
W	F20+ Code 7 (stainless steel core)	Fin	None		Open	O-Ring BS226	2
X	F20+ Code 2 (stainless steel core)	Flat	None		Open	O-Ring BS226	2
Y	BS 832, flat	Flat	None		Open	O-Ring BS832	2
Z	F20+ Code Y (stainless steel core)	Flat	None		Open	O-Ring BS832	2

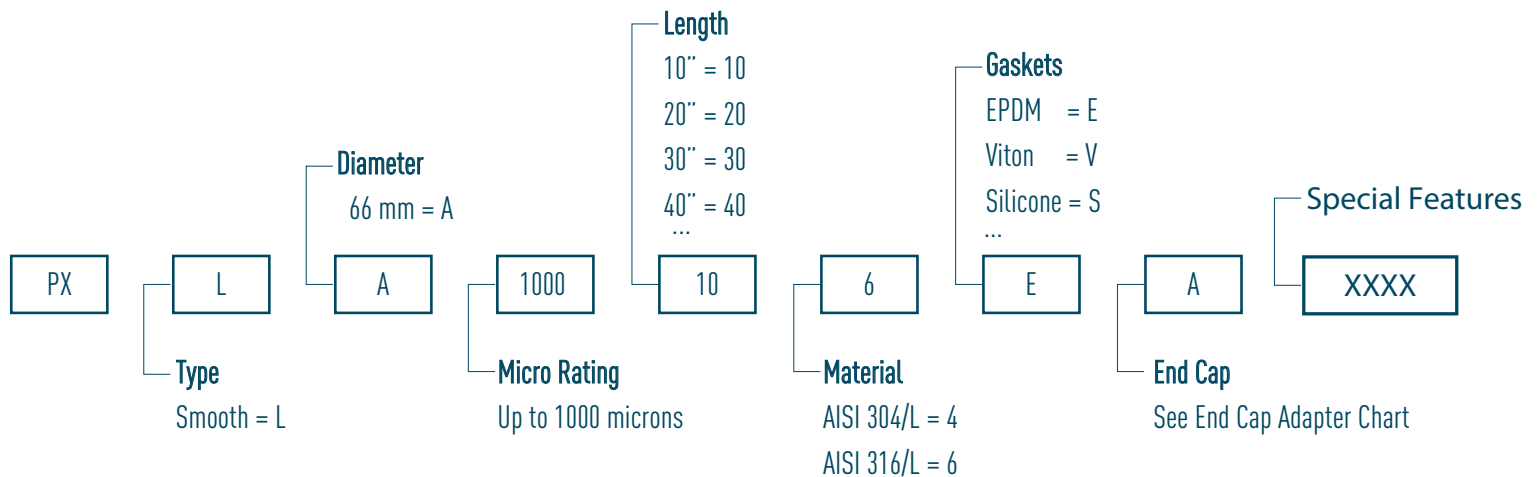
FIBERX CARTRIDGE

Ordering Info



POWDERX CARTRIDGE

Ordering Info



TRUEMESH CARTRIDGE

Ordering Info

