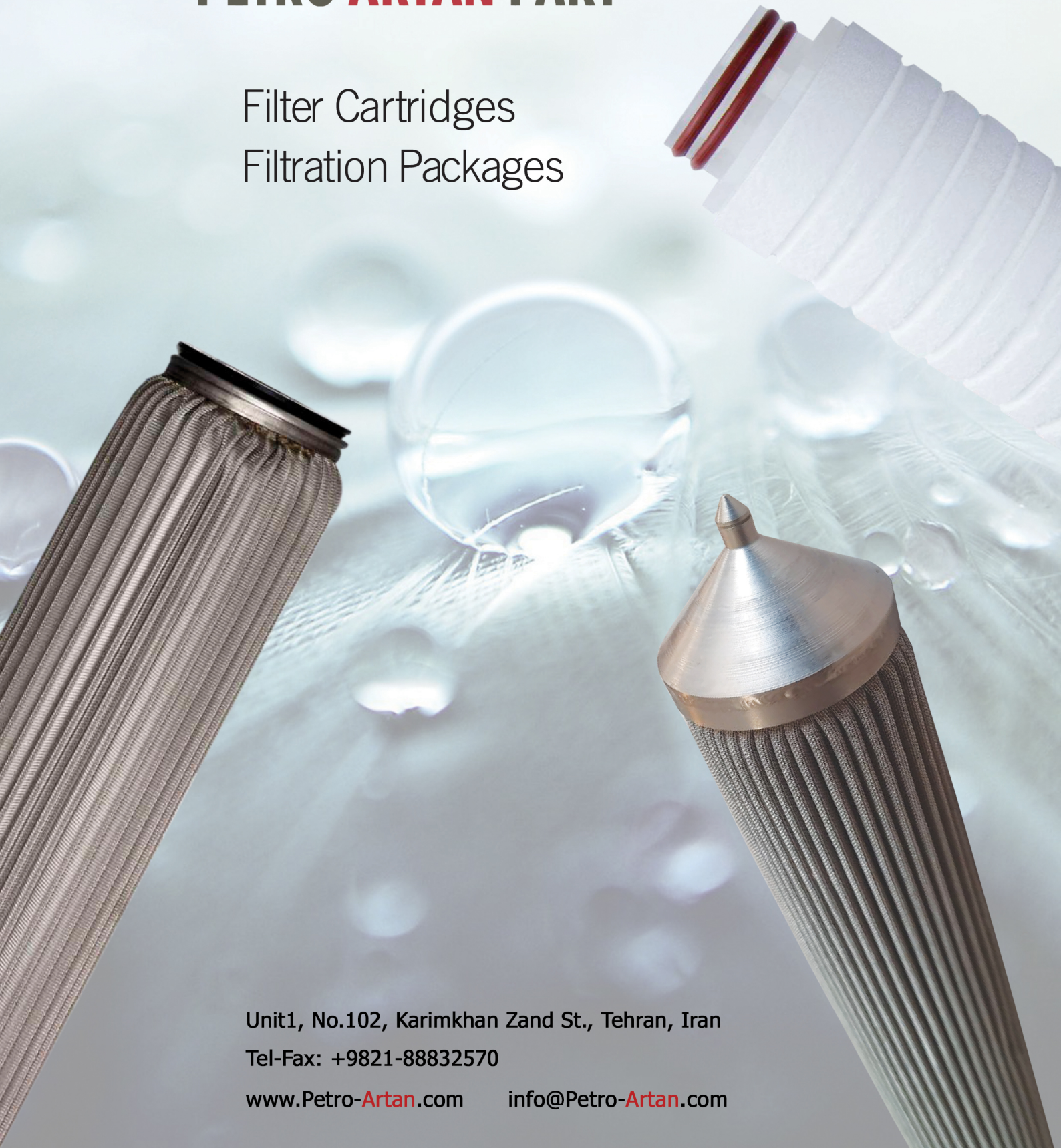




PETRO ARTAN PART

Filter Cartridges
Filtration Packages



Unit1, No.102, Karimkhan Zand St., Tehran, Iran

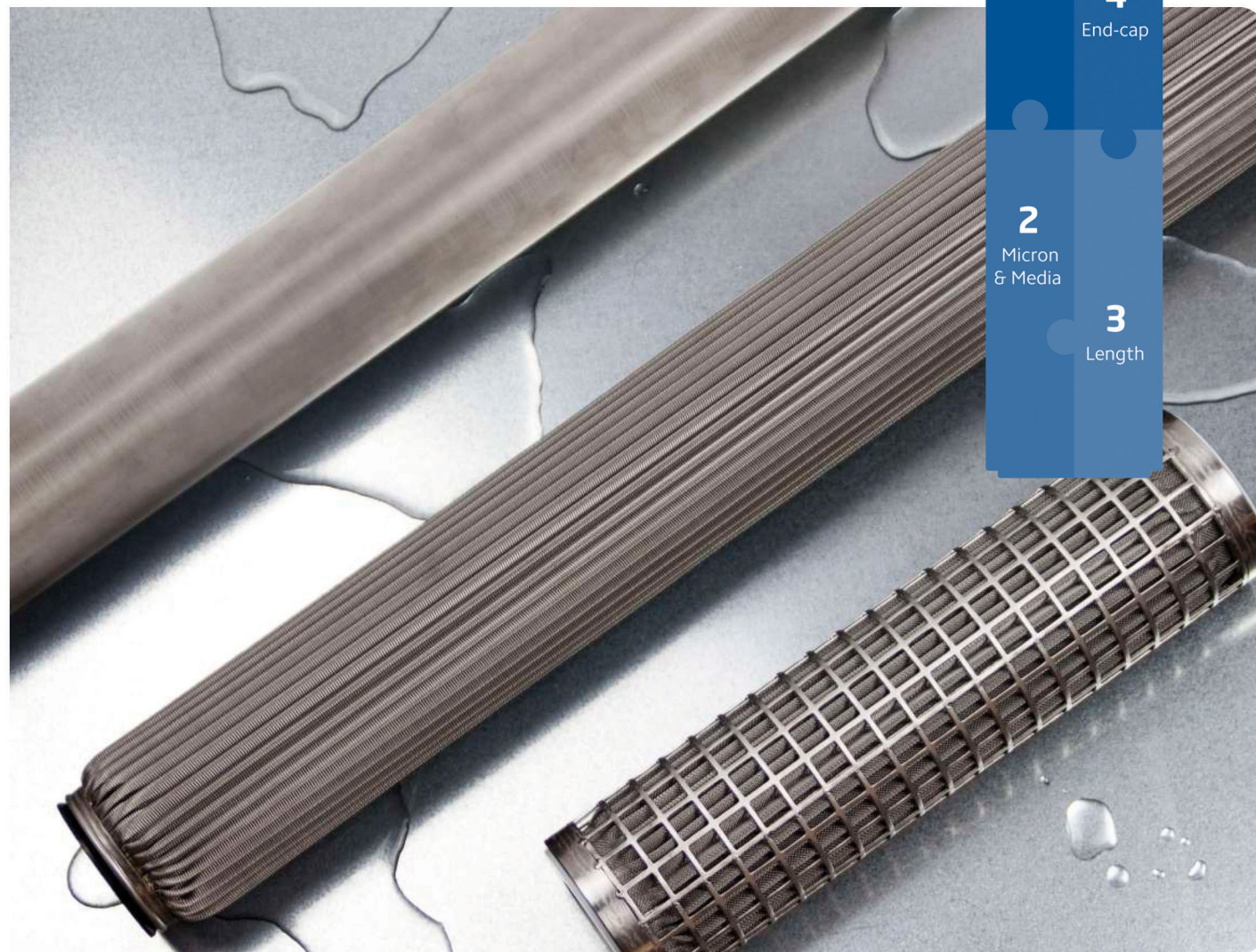
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How to Select Your Stainless Steel Filter

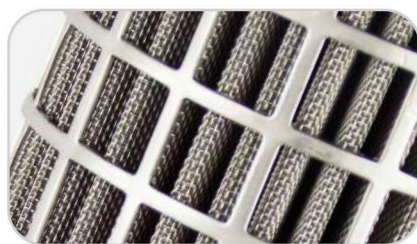
Four simple steps are all it takes to select a stainless steel cartridge.



- 1 Grade
- 2 Micron & Media
- 3 Length
- 4 End-cap

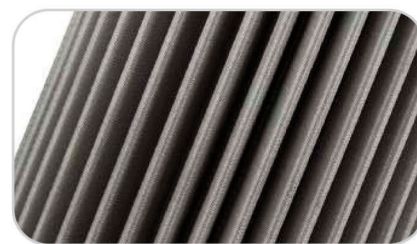
1 Filtration Grade

Select the filtration grade suitable for your application.



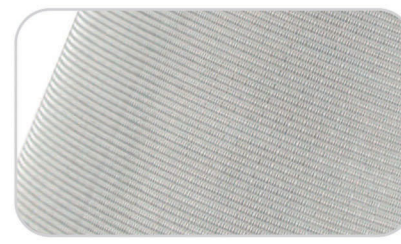
Premier

Fully TIG welded, this cartridge is suitable for temperatures up to 360°C.



Standard

Pleated for higher dirt holding. Offers 3 times surface area of the Economic.



Economic

Welded with a cylindrical stainless steel mesh surface, complete with gasket.

2 Micron & Media

Select media based on required performance, micron and reusability.

3 Length

Choose the cartridge length based on the expected flow rate of the application.

4 End-Cap

Select an end-cap based on suitability for an existing housing or the required seal.

Premier
Aggressive chemical, high pressure and high temperature compatibility
5-500 µm 360°C

- 10" Up to 50 LPM
- 20" Up to 100 LPM
- 30" Up to 150 LPM
- 40" Up to 200 LPM

- A - Open Ended
- E - 222
- F - 226
- H - Fin
- S - Closed

Standard
Pleated configuration offering higher flow and low pressure drop
40-850 µm 260°C

- 10" Up to 50 LPM
- 20" Up to 100 LPM
- 30" Up to 150 LPM
- 40" Up to 200 LPM

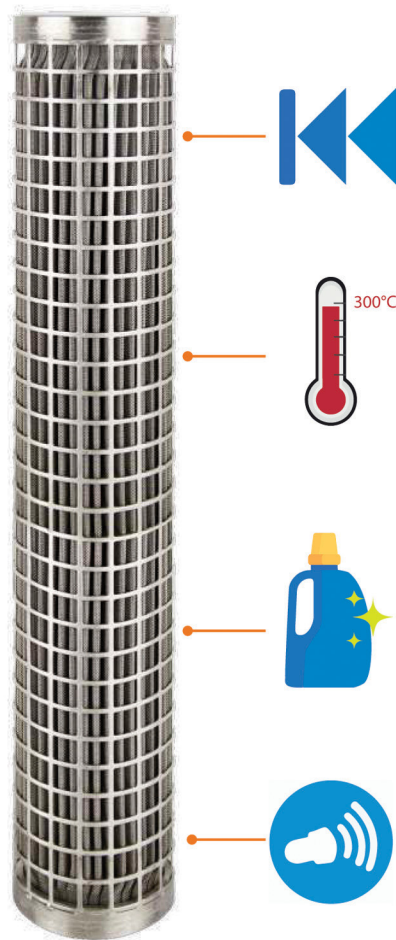
- A - Open Ended

Economic
Cylindrical stainless steel mesh for reusability and cost effective reusable filtration
5-850 µm 260°C

- 10" Up to 40 LPM
- 20" Up to 80 LPM
- 30" Up to 120 LPM
- 40" Up to 160 LPM

- A - Open Ended

The exacting construction of the PPS results in a robust cartridge capable of withstanding cleaning procedures which would typically damage or destroy consumable polymeric cartridges. These cleaning processes enable stainless steel cartridges to be repeatedly reused, eliminating the disposal of expended single use cartridges, commonly deemed environmentally unacceptable. Depending on the characteristics of the contaminant and the solution there are different methods of cleaning that can be used.



Reverse flow

Typically used when the majority of the contaminant is larger than the pore size of the filter media and remains on the surface of the cartridge, reverse flow is the simplest form of cleaning. Performed either in situ or externally, reverse flowing flushes the contaminant from the surface of the cartridge at pressures as low as 1 bar. The outer cage of the PPS means that higher pressure can be used to remove heavier loading.

High temperature burnout

The most aggressive form of cartridge cleaning, high temperature burnout is used to remove hardened adhesives, glues and paints. Exposing the cartridges to temperatures up to 300°C, collected contaminant is incinerated before being flushed and rinsed with filtered water.

Chemical cleaning

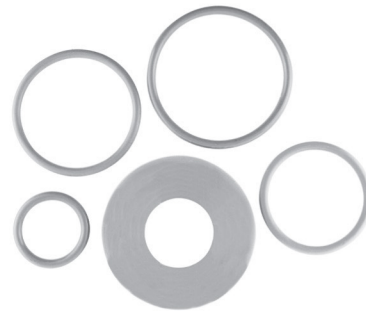
Due to the inert properties of the stainless steel media, aggressive chemicals and solvents can be successfully used to dissolve and remove both contaminant on the surface of the cartridge and finer embedded particulate within the depth of the media. Prior to reuse the cartridge is typically flushed with filtered water.

Ultrasonic cleaning

Using high-frequency sound waves, this technology breaks down hard, non-deformable particulate retained by the filter media. Once the contamination has been broken down, the cartridge is typically rinsed before use.

Replaceable gaskets after cleaning

After all cleaning processes it is recommended that gaskets are replaced to ensure a positive seal and reduce the risk of bypass, offering peace of mind. Filerder supplies a range of replacement gaskets and O-rings, available upon request.



Efficiency

		Challenge Particulate Size							
		5µm	10µm	20µm	40µm	75µm	100µm	250µm	500µm
Cartridge Micron Rating	5µm	95%	97%	99%	99+%	99+%			
	10µm		95%	96%	98%	99%	99+%		
	20µm			95%	96%	97%	98%	99%	
	40µm				95%	97%	98%	99%	99%
	75µm					96%	98%	99%	99%
	100µm						96%	98%	99%
	250µm							96%	98+%
500µm								96%	

Key Features

- Fully TIG welded 316L stainless steel and strengthened cage
- End-cap configuration options
- Highest temperature tolerances in the range

Typical Applications

- High pressure differential applications
- Environments where fewer cartridge cleans required

Specification

- Efficiency 95%
- Surface Area 0.175 m² per 10"
- Max. Operating Temperature 360°C at 5 bar
- Max. Operating Pressure Differential 5 bar
- Max. Operating Reverse Pressure Differential 3 bar

Materials of Construction

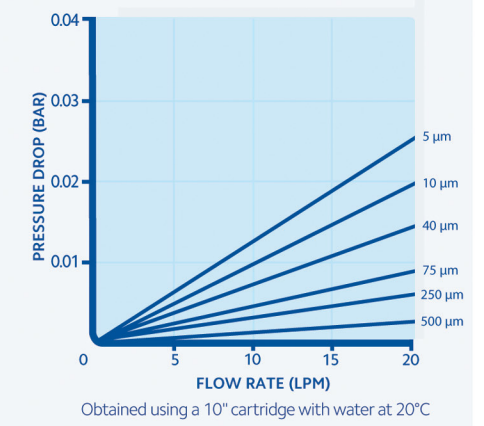
- Filter media 316L Stainless Steel
- Support media 316L Stainless Steel
- Core 316L Stainless Steel
- Cage 316L Stainless Steel
- Seal EPDM / Teflon® / Viton®

Configurations

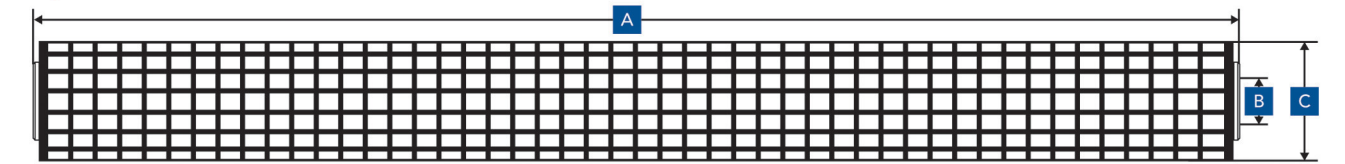
- Micron (µm) 5 10 20 40 75 100 250 500
- Length (") 10 20 30 40
- End Caps AA EH ES FH FS
- Seal E = EPDM T = Teflon® V = Viton®

Compliance

MOP & NPC



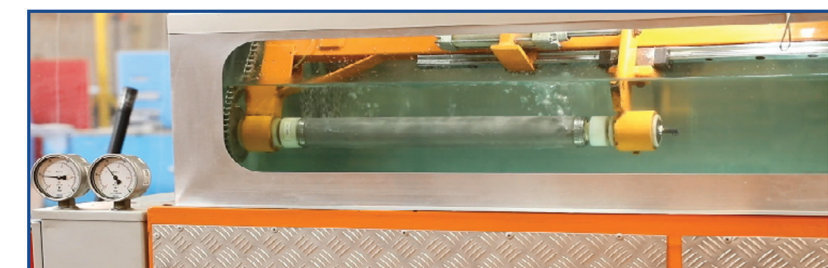
Dimensions & Packaging



Length	A (mm)					B (mm)	C (mm)	Packaging	
	AA	EH	ES	FH	FS			Box Qty	Box Weight (kg)
10"	250	319	275	317	273	27	65	1	0.5
20"	508	569	525	567	523	27	65	1	1
30"	750	819	775	817	773	27	65	1	1.5
40"	1000	1069	1025	1067	1023	27	65	1	2

Note: Dimensions ± 2mm

Bauble Point Test



PAP

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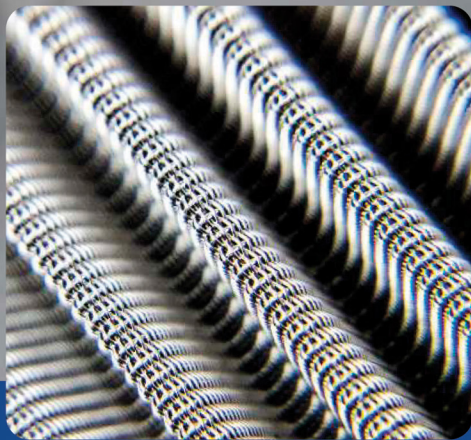


Standard Range

Increased Surface Area and Higher Dirt Loading Capacity

The all-welded pleated construction of the Standard range, offers over 3 times the surface area of the Economic, significantly improving permeability. The enhanced media construction, comprising of support

media either side of the filtration layer, results in higher dirt holding capacity, longer production times and fewer cartridge cleaning cycles.



Key Features

- Pleating mesh construction provides over 3 times the surface area of the Economic range
- Additional mesh layers introduce depth characteristics for higher dirt holding
- Support layer increases rigidity for high viscosity fluids and heavily loaded solutions

Materials of Construction

- Filter media**
316L Stainless Steel
- Core**
316L Stainless Steel
- Support media**
316L Stainless Steel
- Cage (optional)**
316L Stainless Steel
- Seal**
Buna / EPDM / Teflon® / Viton®

Compliance

MOP & NPC

Typical Applications

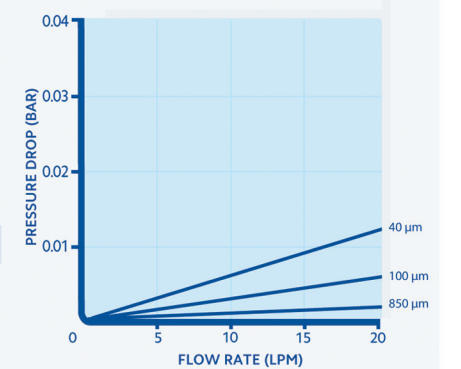
- Cosmetics
- Pharmaceutical
- Industrial Water Treatment

Configurations

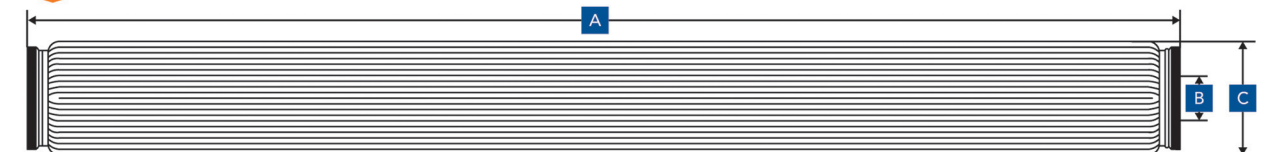
- Micron (µm)**
40 75 100 250 500 850
- Length (")**
9¼ 10 20 30 40
- Seal**
B = Buna E = EPDM T = Teflon® V = Viton®

Specification

- Efficiency**
90%
- Surface Area**
0.16 m² per 10"
- Max. Operating Temperature**
260°C
- Max. Operating Pressure Differential**
4.2 bar
- Max. Operating Reverse Pressure Differential**
1 bar



Dimensions & Packaging



Length	Dimensions (± 2mm)			Packaging	
	A (mm)	B (mm)	C (mm)	Box Qty	Box Weight (kg)
9¼"	248	27	67	1	0.5
10"	254	27	67	1	0.5
20"	508	27	67	1	1
30"	762	27	67	1	1.5
40"	1016	27	67	1	2

Laboratory



PAP
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Economic Range
Entry Level Reusable Filtration

The cylindrical design provides a simple sleeve of filter media which is protected and supported by a woven mesh and central core. The media, central core and end fitting are welded together to ensure

cartridge integrity and to eliminate the risk of bypass. The cartridge is cleanable and re-useable which makes the Economic ideal for applications requiring low on-going costs.

Key Features

- All-Welded construction for strength and robustness
- 316L Stainless Steel cylindrical mesh allows for easy cleaning and re-use
- Wide range of micron ratings

Typical Applications

- High pressure and high temperature applications
- Aggressive chemical compatibility

Specification

- Efficiency**
80%
- Surface Area**
0.05 m² per 10"
- Max. Operating Temperature**
260°C
- Max. Operating Pressure Differential**
4.2 bar

Materials of Construction

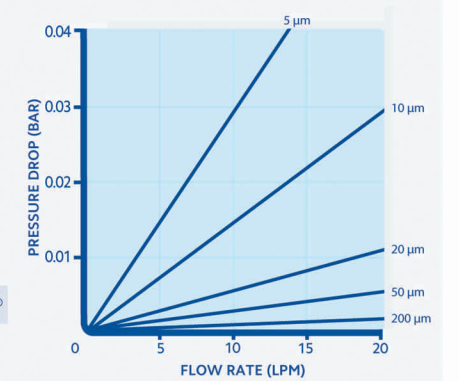
- Filter media**
316L Stainless Steel
- Support media**
316L Stainless Steel
- Core**
316L Stainless Steel
- Seal**
Buna / EPDM / Teflon® / Viton®

Configurations

- Micron (µm)**
5 10 20 40 75 100 200
250 500 850
- Length (")**
9¾ 10 20 30 40
- Seal**
B = Buna E = EPDM T = Teflon® V = Viton®

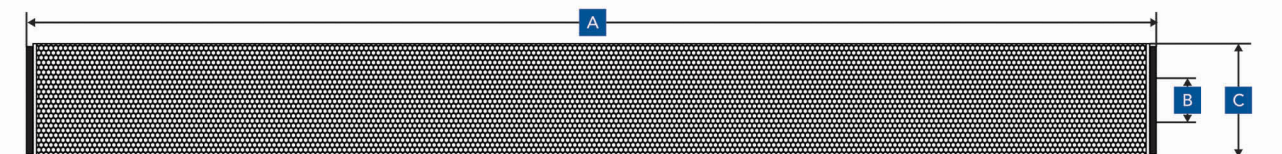
Compliance

MOP & NPC



Obtained using a 10" cartridge with water at 20°C

Dimensions & Packaging



Length	Dimensions (± 2mm)			Packaging	
	A (mm)	B (mm)	C (mm)	Box Qty	Box Weight (kg)
9¾"	248	27	64	1	0.5
10"	254	27	64	1	0.5
20"	508	27	64	1	1
30"	762	27	64	1	1.5
40"	1016	27	64	1	2

Robot Arm Weld

