

At Strainrite, we believe in Science and Service.

All Clarity™ and Madd MAXX™ cartridges are manufactured in our facility. Our Quality Management System is certified to be ISO 9001:2008 compliant. Our state-of-the-art equipment and highly skilled technicians are able to maintain the highest levels of product reliability and repeatability, from receipt of raw materials to shipment of finished filters.

- A few controls that are in-place include:
- Raw material performance verification
  - Bubble point and air diffusion testing
  - Bacteria challenge verifications of performance
  - Extractable verification and determination
    - Ultra-pure water rinsing with resistivity verification of effectiveness
    - Finished validated products are integrity tested by air diffusion



Science  
and  
Service:  
The Strainrite Way

At Strainrite, we are dedicated to the best in Science and Service.

Strainrite offers vessels that are ISO9001:2008 certified and are hydrostatically tested in accordance with industry accepted standards. We also offer special quality assurance tests which include X-ray, Magnetic Particle, Liquid Penetrant, Ultra-sonic and Brinell hardness testing. Our consultative selling approach focuses on custom solutions to filtration problems.

We commit the time and resources to tailor our products to our clients' unique requirements.

By working with us, our clients realize:

- Innovative solutions
- Operational cost savings
- Improved process efficiency
- Enhanced finished product quality
- Reduced waste costs

CIP FILTRATION | HOT WATER & STEAM STERILIZATION

## HOW TO ORDER

Constructing your order number:	
Cartridge Series	PRMXE
Micron Rating	0.20
Length	10, 20, 30, 40
Pleat Support Material	PP - Polypropylene
End Cap Configurations	C3, C6, C7, C8
O-ring Materials	S - Silicone E - EPDM

Use the chart below to build your order number:

Cartridge Series	Micron Rating	Length	Pleat Support Material	End Cap Configurations	Gasket/O-ring Materials	Cartridge Guide	Options
PRMXE: Pur-MAXX E	0.20	10, 20, 30, 40	PP - Polypropylene	C3, C6, C7, C8	S, B, V, E	SG	
PMX: Poly-MAXX	1, 1.5, 2.5, 5, 10, 15, 20, 40, 70	10, 20, 30, 40	PE - Polyester PP - Polypropylene	C1-C8	S, B, V, E, T, TV, TS	Blank, 1, 2	I, DIF
VM (Vent-MAXX)		10, 20, 30		C3, C6, C7, C8	S, V	2	

C1-DQE flat open ends  
C2-SOE recessed cup, internal 213 O-ring  
C3-SOE flat closed ends, external 222 O-ring  
C4-SOE flat closed end  
C5-SOE recessed cup, external 222 O-ring  
C6-SOE flat closed end, external 226 O-ring  
C7-SOE fin end, external 226 O-ring  
C8-SOE fin end, external 222 O-ring

S - Silicone (standard O-rings)  
B - Buna N (standard gaskets)  
V - Fluorocarbon  
E - EPDM  
T - PTFE  
TV - FEP Encapsulated Fluorocarbon  
TS - FEP Encapsulated Silicone

Blank - General  
1 - FDA Grade  
2 - Pharmaceutical  
SG - Sterilizing Grade

I - 316 Stainless Steel Insert  
DIF - DI Flush

For the MAXX Flow, use the chart below to build your order number:

Material	Micron Rating	Cartridge Style	Length	O-ring/Envelope Seal	Grade
MF - Polypropylene Micro Fiber GF - Borosilicate Micro Glass	For MF: 0.5, 1, 3, 5, 10, 25, 50 For GF: 0.5, 1, 3, 5, 10, 15	MF - Maxx Flow	2 = 20" 4 = 40" 6 = 60" 8 = 80"	B - Buna N V - Fluorocarbon E - EPDM TV - FEP Encapsulated Fluorocarbon S - Silicone	Blank - General 1 - FDA

## Service Locations

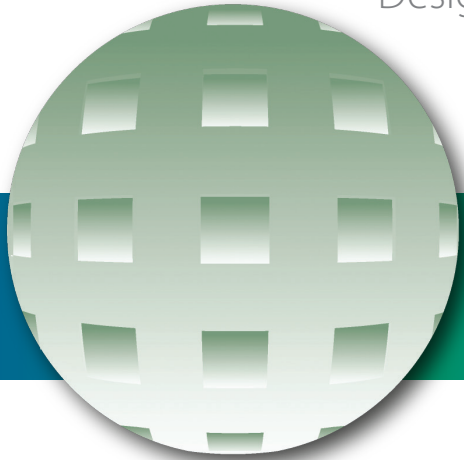
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# THE STRAINRITE COMPANIES

Designing and Manufacturing  
Leading-edge Filtration  
Products Since 1978.





## Pur-MAXX E-SG

Dual Layer Pleated Polyethersulfone  
Membrane Sterilizing Grade Cartridge

### Features & Benefits

- Validated 0.2 µm absolute rated membrane configuration
- High surface area membrane offers excellent life and flux rates while providing absolute filtration
- Absolute-rated dual layer membrane provides reliable, consistent and repeatable filtrate quality
- Low pressure drops yield higher flow rates and reduced processing time
- Non-fiber shedding Polypropylene support materials eliminate fiber migration
- MAXX-imum Pleat Design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element
- All materials of construction are FDA compliant with CFR Title 21 and are bio-safe in accordance with USP Class VI
- 100% Thermally bonded construction
- Low hold-up volumes
- Integrity tested
- High strength design allowing for extended use and multi autoclave and hot water sanitization cycles
- 316 SS reinforced end treatments

The Pur-MAXX E-SG is engineered to meet the highest standards of microorganism control for sterile fluids. Validated for complete removal of *Brevundimonas diminuta* (ATCC 19146) at test concentrations of 107 CFU/cm<sup>2</sup>, this product is ideally suited for applications where microorganism contamination causes product defects or extra processing time due to increased fluid instability.

Pur-MAXX E-SG is produced utilizing a unique multi-pleated configuration integrating highly asymmetric and hydrophilic polyethersulfone membrane with exceptional pleat support materials. This structural product enhancement allows our filter cartridges to withstand multiple sterilization cycles without sacrificing product integrity.

## Vent-MAXX

Sterilizing PTFE Membrane Vent Filter

The Vent-MAXX gas sterilizing filters set a new standard for PTFE membrane elements. These filters utilize a technologically advanced membrane in our unique pleat construction to deliver unrivalled efficiency, superior strength, and high flow rates.

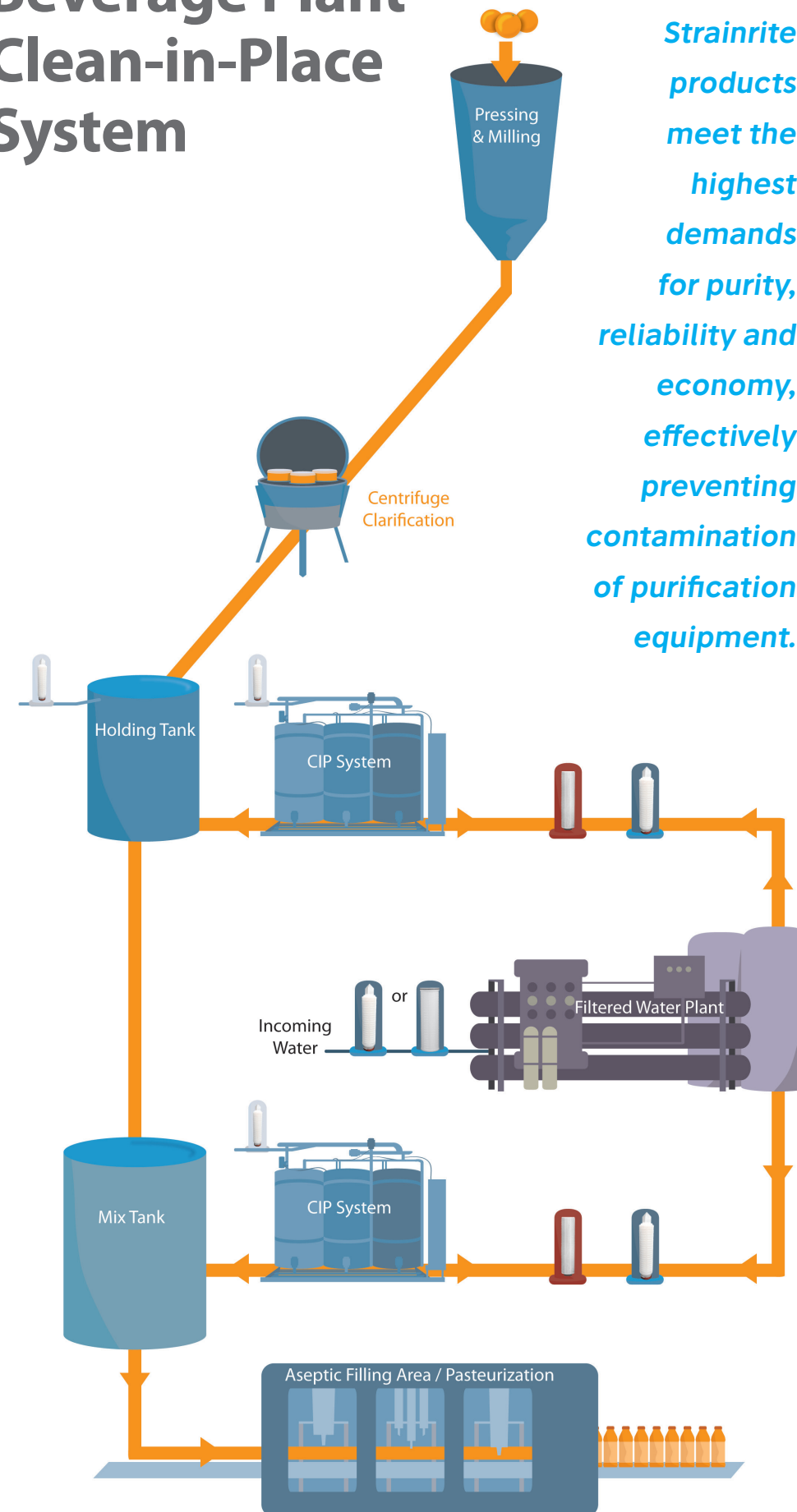
Vent-MAXX double layer PTFE membrane filters are designed to remove microorganisms, particulate, and moisture in your most demanding air and gas applications. These liquid validated, sterilizing grade filters are designed to meet the highest levels of security required in the pharmaceutical, food and beverage, and biopharmaceutical industries.

Vent-MAXX filters conform to USP Class VI – 121oC and 21 CFR Part 177. Strainrite delivers clear solutions to your air and gas filtration applications.

### Features & Benefits

- PTFE membranes
- Inherently hydrophobic media
- 100% integrity tested
- High surface area
- Sterilizing Grade in liquids
- Virus retentive in gases
- Thermally bonded construction
- FDA listed materials per CFR 21
- Manufactured in a ISO 9001:2008 certified facility
- Water intrusion testable
- Quality control certificate with every filter
- Can be steam sterilized multiple times in situ for longer filter life
- Manufactured in a 3rd party certified clean room

## Beverage Plant Clean-in-Place System



Strainrite products meet the highest demands for purity, reliability and economy, effectively preventing contamination of purification equipment.

## MAXX Flow

Large Diameter Pleated Depth Cartridges

As a leader in the dynamics of inside-out fluid filtration for over 35 years The Strainrite Companies is proud to add the MAXX Flow to our family of large pleat geometry products. It is well known that inside out flow elements have higher dirt holding capabilities and offer hygienic superiority over typical outside-in fluid filtration filters. The MAXX Flow filters unique large pleat geometry makes it capable of handling up to 500gpm in a 60" length, which is a perfect solution for high flow rate applications.

### Features & Benefits

- Large diameter pleat configuration for high flow rates
- High dirt holding capability due to extensive surface area
- 99% rated filter media for consistent and repeatable performance
- Capable of flow rates up to 500gpm per filter
- Injection molded cage for superior strength and element integrity
- Inside-out filter retains all contaminants inside the filter during change-outs
- Thermally bonded construction
- Available in 20", 40", 60" & 80" lengths

## Poly-MAXX

Polypropylene Pleated Depth Cartridges

Strainrite's Poly-MAXX, all-Polypropylene, filter cartridges are designed to optimize throughput while achieving absolute and repeatable effluent quality. Our filter media is constructed on the latest continuous Micro-Fiber blowing equipment that accurately controls fiber diameter and integrity. Utilizing state-of-the-art on-line monitoring equipment, Strainrite delivers the industry's most uniform and consistent media, ensuring unparalleled product consistency.

Our 100% Polypropylene construction provides an expansive chemical compatibility range for your most demanding applications. All materials of construction meet the requirements of USP Class VI and CFR 21 for food and beverage contact.

### Features & Benefits

- Absolute-rated media provides reliable, consistent and repeatable filtration
- Low pressure drop yields higher flow rates and reduced processing time
- MAXX-imum pleat design for greater surface area, ensuring longer service life, less downtime and reduced operating costs per cartridge
- 100% Polypropylene, FDA compliant with CFR 21 and USP Class VI
- Thermally bonded construction minimizes extractables, eliminating particle bypass