

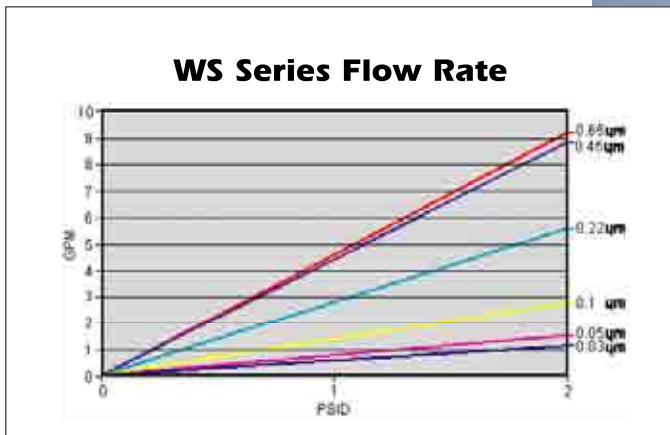
Rosedale Water Service Membrane Cartridges

Cost effective units for DI Water applications

WS Series Membrane Cartridges are designed to meet the special needs of the electronics and high purity chemical industries. These cartridges are resistant to most acids and bases and capable of handling strong sanitization agents. The high flow rates achieved by our cartridges make them an ideal source for central DI water systems. They also handle elevated process temperatures in compatible fluids.

Flow Rate

The following table represents typical water flow at one psid (69 mbar) across a single 10 inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements or higher pressure drops is acceptable. However, as flow increases, the pressure drop attributed to the housing itself will become evident.



How To Order

Build an ordering code as shown in the example

Example: **WSMC - 10 - PES - 2 - V - N - 2**

MODEL Electronics Service Membrane Cartridge = WSMC					
PORE SIZE 0.03µm = 03 0.10µm = 10 0.22µm = 20 0.45µm = 40 0.65µm = 60					
MEMBRANE MEDIA Polyethersulfone = PES					
CARTRIDGE LENGTH 10 inches (25.4 cm) = 1 20 inches (50.8 cm) = 2 30 inches (76.2 cm) = 3 40 inches (101.6 cm) = 4					
O-RINGS EPDM = E Viton = V Buna N = B Teflon = T Ethylene Propylene = E					
316 STAINLESS STEEL RING Ring = R No Ring = N					
END CAP Flat Gasket, DOE = 0 222, SOE, O-Ring = 2 020 O-Ring = 3 222 O-Ring with Spear = 4 226 O-Ring with Spear = 5					

Dimensions

Length: 10 to 40 inches
(25.4 to 101.6 cm) nominal
OD: 2.75 inches (7.0 cm) nominal

Maximum Differential Pressure

Forward: 50 psi (3.4 bar) at 20° C
Reverse: 40 psi (2.7 bar) at 20° C

Construction Materials

Filtration Media: Polyethersulfone
Media Support: Polypropylene
End Caps: Polypropylene
Center Core: Polypropylene
Outer Support Cage: Polypropylene
O-Ring Material: EPDM, Viton, Buna N, Teflon, Ethylene Propylene

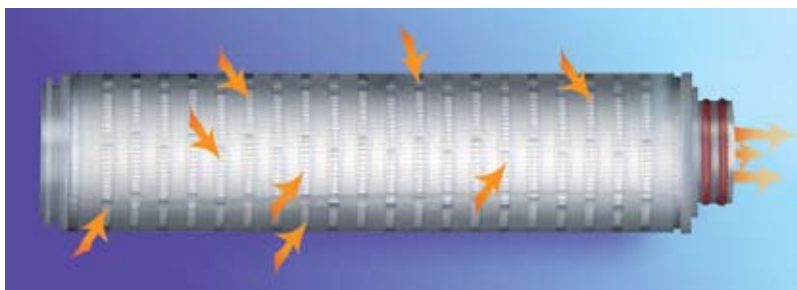
Sanitization/Sterilization

Chemical Sanitization: Industry standard concentrations of hydrogen peroxide, peracetic acid, sodium hypochlorite and other selected chemicals.

Integrity Test Specifications

(per ten inch length, water wetted membrane)

PORE SIZE	AIR DIFFUSION RATE		
	<cc/min	@ psi	mbar
0.03µm	30	60	4137
0.05µm	30	56	3860
0.10µm	30	48	3307
0.22µm	30	35	2412
0.45µm	30	20	1378
0.65µm	30	15	1044



Rosedale Pharmaceutical Service Membrane Cartridges

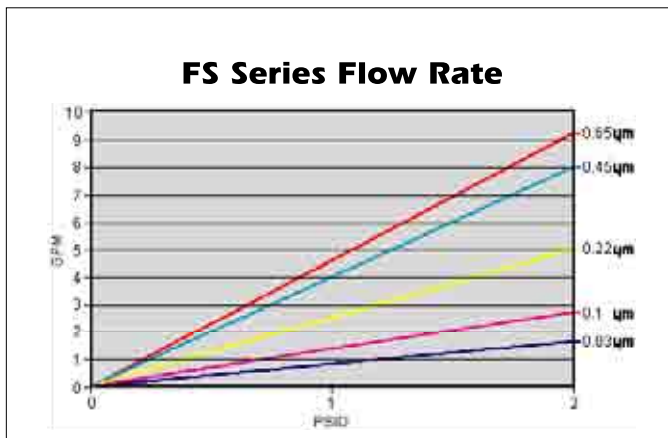
Cost effective units for Pharmaceutical Industry applications

PS Series Membrane Cartridges are designed to be used as sterilizing grade cartridges for the pharmaceutical industry. The PS Series Membrane is optimized for retention, so additional layers are not necessary. Ideal for use in Sterile Fill applications and SVPs and bio products. Polyethersulfone is particularly suited for filtration of products whose constituents, such as preservatives, can adsorb to the media. Also works well with valuable protein solutions such as vaccines and other biological substances.

Flow Rate

The following table represents typical water flow at one psid (69 mbar) across a single 10 inch cartridge element.

The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements or higher pressure drops is acceptable. However, as flow increases, the pressure drop attributed to the housing itself will become evident.



▶ Spear Guide is shown above



How To Order

Build an ordering code as shown in the example

Example: PSMC - 10 - PES - 2 - V - N - 2

MODEL Electronics Service Membrane Cartridge = PSMC	
PORE SIZE 0.03µm = 03 0.10µm = 10 0.22µm = 20 0.45µm = 40 0.65µm = 60	
MEMBRANE MEDIA Polyethersulfone = PES	
CARTRIDGE LENGTH 10 inches (25.4 cm) = 1 20 inches (50.8 cm) = 2 30 inches (76.2 cm) = 3 40 inches (101.6 cm) = 4	
O-RINGS EPDM = E Viton = V Buna N = B Teflon = T Ethylene Propylene = E	
316 STAINLESS STEEL RING Ring = R No Ring = N	
END CAP Flat Gasket, DOE = 0 222, SOE, O-Ring = 2 020 O-Ring = 3 222 O-Ring with Spear = 4 226 O-Ring with Spear = 5	

Dimensions

Length: 10 to 40 inches
(25.4 to 101.6 cm) nominal
OD: 2.75 inches (7.0 cm) nominal

Maximum Differential Pressure

Forward: 50 psi (3.4 bar) at 20° C
Reverse: 40 psi (2.7 bar) at 20° C

Construction Materials

Filtration Media: Polyethersulfone
Media Support: Polypropylene
End Caps: Polypropylene
Center Core: Polypropylene
Outer Support Cage: Polypropylene
O-Ring Material: EPDM, Viton, Buna N, Teflon, Ethylene Propylene

Sanitization/Sterilization

Filtered Hot Water: 90°
Autoclave: 127° C, 30 minute multiple cycles

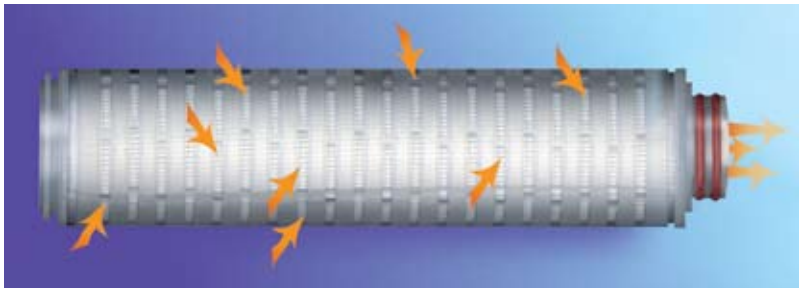
In-Line Steam: 135° C, 30 minute multiple cycles

Chemical Sanitization: Industry standard concentrations of hydrogen peroxide, sodium hypochlorite and other selected chemicals.

Integrity Test Specifications

(per ten inch length, water wetted membrane)

PORE SIZE	AIR DIFFUSION RATE		
	<cc/min @	psi	mbar
0.03µm	15	60	4137
0.10µm	15	48	3307
0.22µm	15	35	2412
0.45µm	15	20	1378
0.65µm	15	15	1044



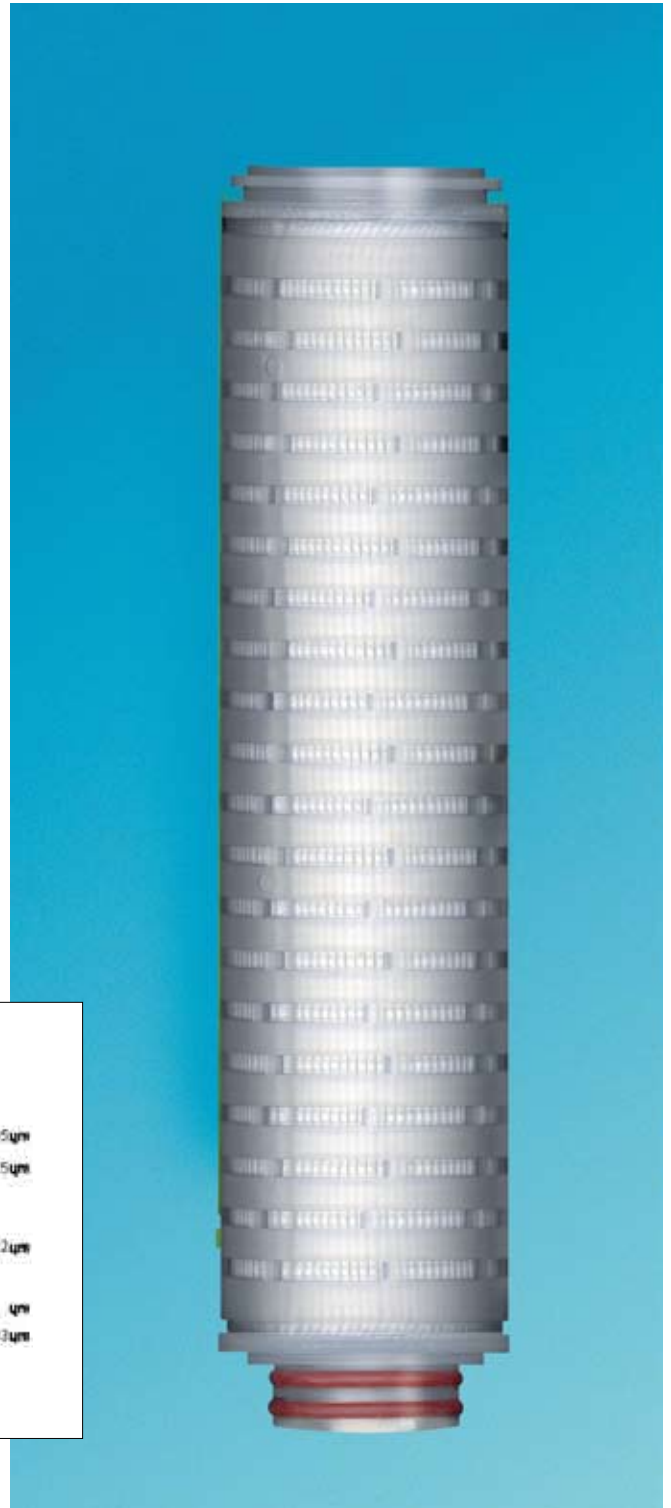
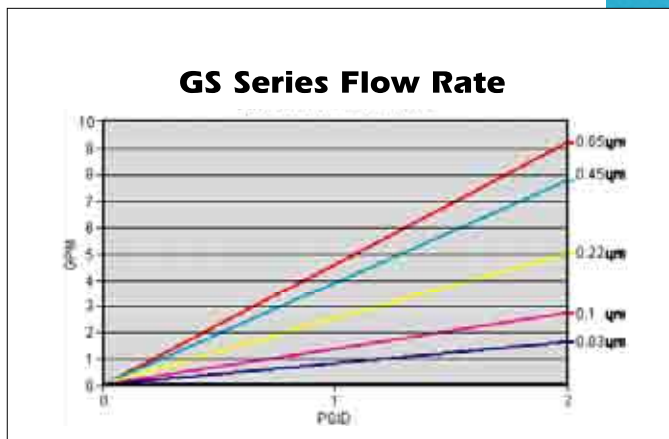
R Rosedale General Service Membrane Filter Cartridges

Cost effective units for industrial applications

GS Series Membrane Cartridges are designed for general industrial service where the need for cost effective filtration is a must. These cartridges utilize a pleated membrane design, incorporating the maximum amount of media that can be used in a cartridge. These units, manufactured for general industrial use, are manufactured to the same high standards as our special application cartridges. Pore sizes start at 0.03 μm with a polyethersulfone membrane.

Flow Rate

The following table represents typical water flow at one psid (69 mbar) across a single 10 inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements or higher pressure drops is acceptable. However, as flow increases, the pressure drop attributed to the housing itself will become evident.



How To Order

Build an ordering code as shown in the example

Example: GSMC - 10 - PES - 2 - V - N - 2

MODEL Electronics Service Membrane Cartridge = GSMC						
PORE SIZE 0.03µm = 03 0.10µm = 10 0.22µm = 20 0.45µm = 40 0.65µm = 60						
MEMBRANE MEDIA Polyethersulfone = PES						
CARTRIDGE LENGTH 10 inches (25.4 cm) = 1 20 inches (50.8 cm) = 2 30 inches (76.2 cm) = 3 40 inches (101.6 cm) = 4						
O-RINGS EPDM = E Viton = V Buna N = B Teflon = T Ethylene Propylene = E						
316 STAINLESS STEEL RING Ring = R No Ring = N						
END CAP Flat Gasket, DOE = 0 222, SOE, O-Ring = 2 O20 O-Ring = 3 222 O-Ring with Spear = 4 226 O-Ring with Spear = 5						

Dimensions

Length: 10 to 40 inches
(25.4 to 101.6 cm) nominal
OD: 2.75 inches (7.0 cm) nominal

Maximum Differential Pressure

Forward: 50 psi (3.4 bar) at 20° C
Reverse: 40 psi (2.7 bar) at 20° C

Construction Materials

Filtration Media: Polyethersulfone
Media Support: Polypropylene
End Caps: Polypropylene
Center Core: Polypropylene
Outer Support Cage: Polypropylene
O-Ring Material: EPDM, Viton, Buna N, Teflon, Ethylene Propylene

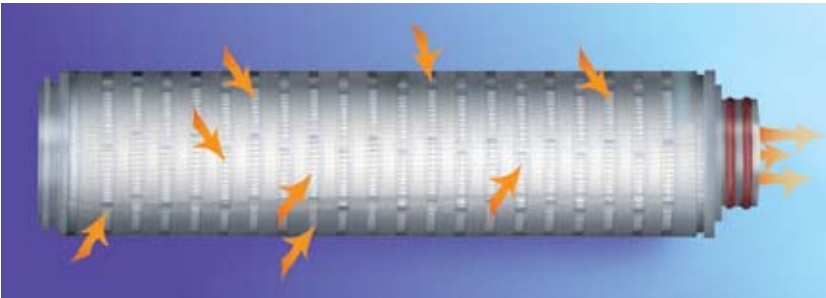
Sanitization/Sterilization

Filtered Hot Water: 90°
Chemical Sanitization: Industry standard concentrations of hydrogen peroxide, peracetic acid, sodium hypochlorite and other selected chemicals.

Integrity Test Specifications

(per ten inch length, water wetted membrane)

PORE SIZE	AIR DIFFUSION RATE		
	<cc/min	@ psi	mbar
0.03µm	55	60	4137
0.10µm	55	48	3307
0.22µm	55	35	2412
0.45µm	55	20	1378
0.65µm	55	15	1044



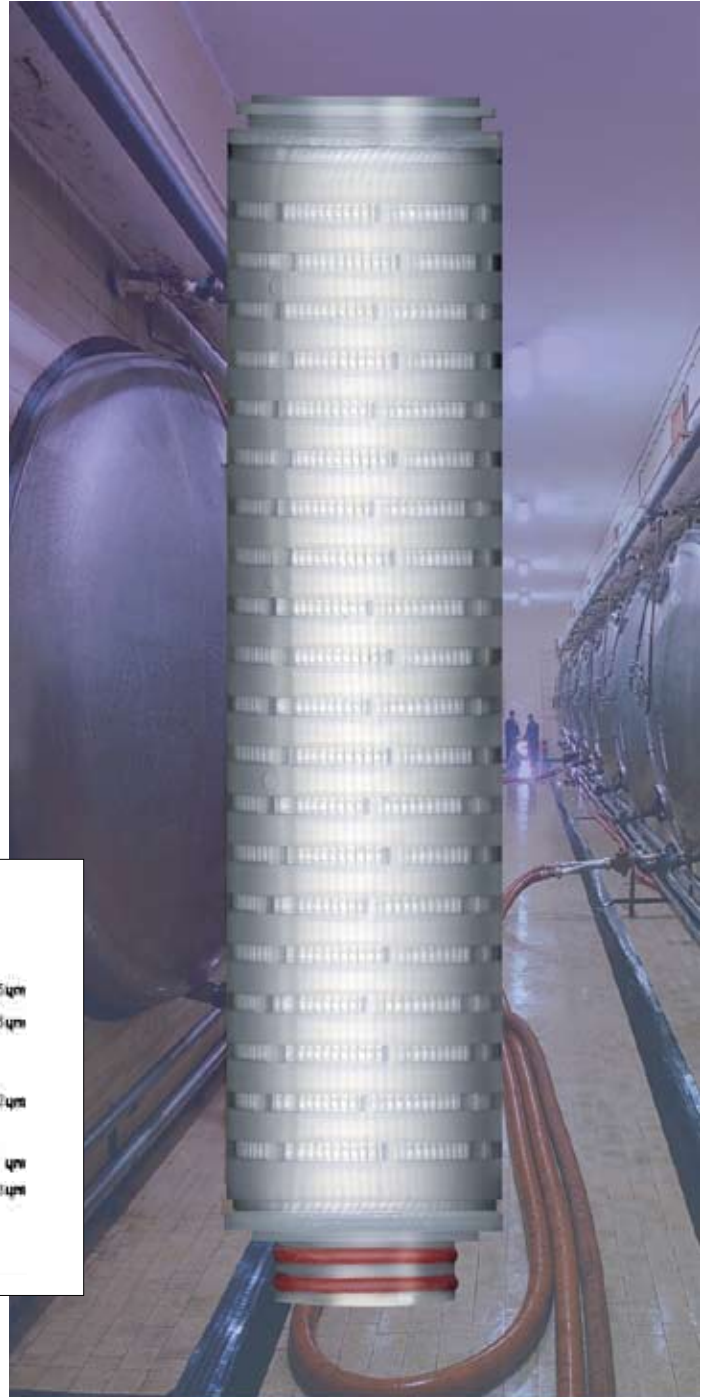
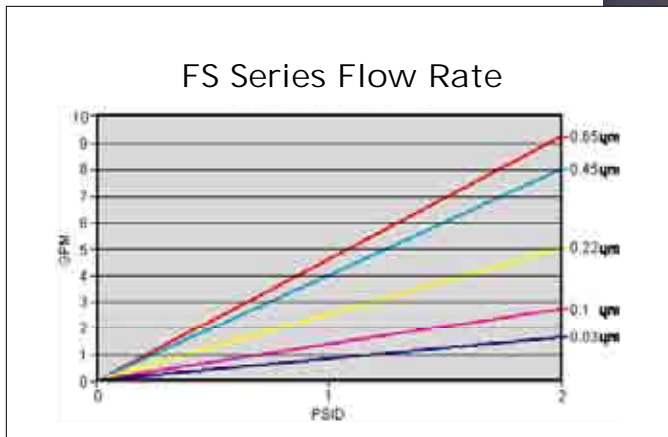
R Rosedale Food, Wine and Beverage Service Membrane Cartridges

Cost effective units for food applications

FS Series Membrane Cartridges are designed to comply with all FDA rules and regulations for the food industry. The properties of Polyethersulfone make it an excellent choice for use with fermented beverages. Cartridges are designed to provide maximum throughput, while easily sanitized or cleaned.

Flow Rate

The following table represents typical water flow at one psid (69 mbar) across a single 10 inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements or higher pressure drops is acceptable. However, as flow increases, the pressure drop attributed to the housing itself will become evident.



R How To Order

Build an ordering code as shown in the example

Example: **FSMC - 10 - PES - 2 - V - N - 2**

MODEL Electronics Service Membrane Cartridge = FSMC						
PORE SIZE 0.03µm = 03 0.10µm = 10 0.22µm = 20 0.45µm = 40 0.65µm = 60						
MEMBRANE MEDIA Polyethersulfone = PES						
CARTRIDGE LENGTH 10 inches (25.4 cm) = 1 20 inches (50.8 cm) = 2 30 inches (76.2 cm) = 3 40 inches (101.6 cm) = 4						
O-RINGS EPDM = E Viton = V Buna N = B Teflon = T Ethylene Propylene = E						
316 STAINLESS STEEL RING Ring = R No Ring = N						
END CAP Flat Gasket, DOE = 0 222, SOE, O-Ring = 2 020 O-Ring = 3 222 O-Ring with Spear = 4 226 O-Ring with Spear = 5						

Dimensions

Length: 10 to 40 inches
(25.4 to 101.6 cm) nominal
OD: 2.75 inches (7.0 cm) nominal

Maximum Differential Pressure

Forward: 50 psi (3.4 bar) at 20° C
Reverse: 40 psi (2.7 bar) at 20° C

Construction Materials

Filtration Media: Polyethersulfone
Media Support: Polypropylene
End Caps: Polypropylene
Center Core: Polypropylene
Outer Support Cage: Polypropylene
O-Ring Material: EPDM, Viton, Buna N, Teflon, Ethylene Propylene

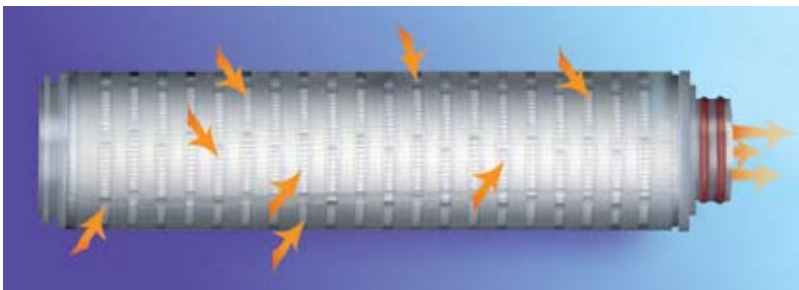
Sanitization/Sterilization

Filtered Hot Water: 90°
Autoclave: 127° C, 30 minute multiple cycles
In-Line Steam: 135° C, 30 minute multiple cycles
Chemical Sanitization: Industry standard concentrations of hydrogen peroxide, peracetic acid, sodium hypochlorite and other selected chemicals.

Integrity Test Specifications

(per ten inch length, water wetted membrane)

PORE SIZE	AIR DIFFUSION RATE		
	<cc/min	@ psi	mbar
0.03µm	30	60	4137
0.10µm	30	48	3307
0.22µm	30	35	2412
0.45µm	30	20	1378
0.65µm	30	15	1044



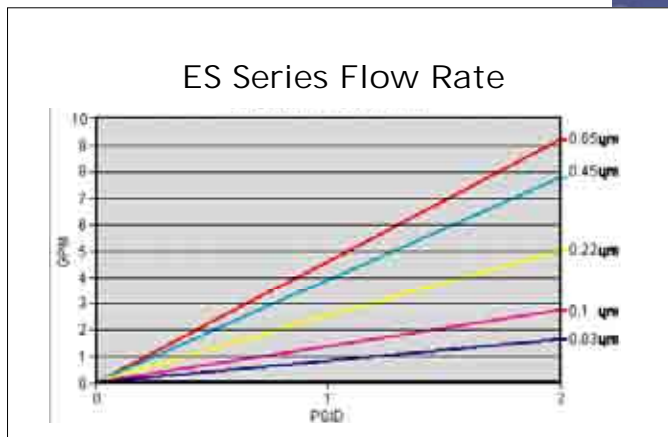
R Rosedale Electronics Service Membrane Cartridges

Cost effective units for Electronics Industry applications

ES Series Membrane Cartridges are designed to meet the special needs of the electronics and high purity chemical industries. The high flow rates achieved by our cartridges make them an ideal source for central DI water systems. They also handle elevated process temperatures in compatible fluids.

Flow Rate

The following table represents typical water flow at one psid (69 mbar) across a single 10 inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements or higher pressure drops is acceptable. However, as flow increases, the pressure drop attributed to the housing itself will become evident.

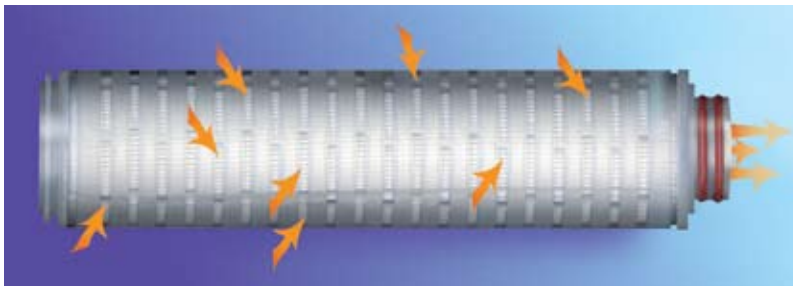


How To Order

Build an ordering code as shown in the example

Example: ESMC - 10 - PES - 2 - V - N - 2

MODEL Electronics Service Membrane Cartridge = ESMC	
PORE SIZE 0.03µm = 03 0.10µm = 10 0.22µm = 20 0.45µm = 40 0.65µm = 60	
MEMBRANE MEDIA Polyethersulfone = PES	
CARTRIDGE LENGTH 10 inches (25.4 cm) = 1 20 inches (50.8 cm) = 2 30 inches (76.2 cm) = 3 40 inches (101.6 cm) = 4	
O-RINGS EPDM = E Viton = V Buna N = B Teflon = T Ethylene Propylene = E	
316 STAINLESS STEEL RING Ring = R No Ring = N	
END CAP Flat Gasket, DOE = 0 222, SOE, O-Ring = 2 020 O-Ring = 3 222 O-Ring with Spear = 4 226 O-Ring with Spear = 5	



Dimensions

Length: 10 to 40 inches
(25.4 to 101.6 cm) nominal
OD: 2.75 inches (7.0 cm) nominal

Maximum Differential Pressure

Forward: 50 psi (3.4 bar) at 20° C
Reverse: 40 psi (2.7 bar) at 20° C

Construction Materials

Filtration Media: Polyethersulfone
Media Support: Polypropylene
End Caps: Polypropylene
Center Core: Polypropylene
Outer Support Cage: Polypropylene
O-Ring Material: EPDM, Viton, Buna N, Teflon, Ethylene Propylene

Sanitization/Sterilization

Chemical Sanitization: Industry standard concentrations of hydrogen peroxide, peracetic acid, sodium hypochlorite and other selected chemicals.

Integrity Test Specifications

(per ten inch length, water wetted membrane)

PORE SIZE	AIR DIFFUSION RATE		
	<cc/min	@ psi	mbar
0.03µm	30	60	4137
0.10µm	30	48	3307
0.22µm	30	35	2412
0.45µm	30	20	1378
0.65µm	30	15	1044