

3M™ Liqui-Cel™ SP-2.5×8 Series Membrane Contactor

Typical Properties

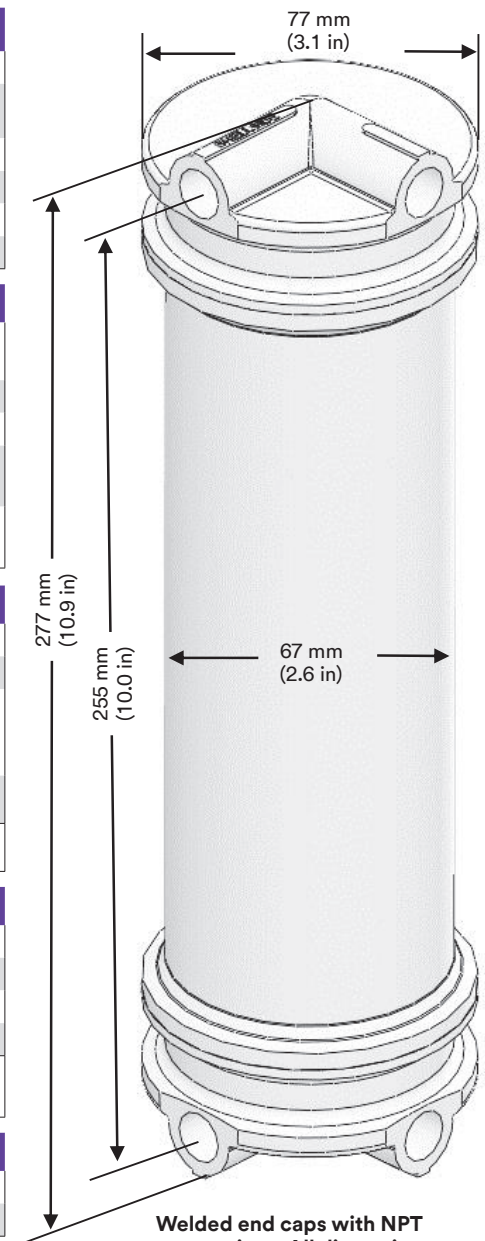
Membrane Characteristics	
Cartridge Configuration	Extra-Flow with Center Baffle
Liquid Flow Guidelines	0.1 – 0.7 m ³ /hr (0.5 – 3 gpm) Liquid must flow on the shellside
Membrane/Potting Material	Polyolefin / Polyethylene
Priming Volume	
Shellside	0.23 liters (0.06 gal)
Lumenside	0.09 liters (0.02 gal)

Pressure Guidelines*	
Maximum Shellside LIQUID Working Temperature/ Pressure	5-25°C, 4.1 barg (41-77°F, 60 psig) 50°C, 1.0 barg (122°F, 15 psig)
If no vacuum is used, 1.0 barg (15 psig) can be added to pressures above.	
Maximum Applied Gas Pressure	4.1 barg at 25°C (60 psig at 77°F)
Max applied gas pressure is for integrity testing at ambient temperatures. Normal operating pressures are typically lower.	
* See Operating Guide for complete listing of temp/pressure limits for housings and membrane. Note: Liquid pressure should always exceed gas pressure.	

Housing Characteristics	
Material	Polypropylene
Flange Connections	
Shellside (Liquid Inlet/Outlet)	¼ inch NPT female ¾ inch Flaretek® (nut included)** ½ inch Flaretek® (nut included)**
Lumenside	¼ inch NPT female
**Only available with FKM seal option with welded end caps	

Seal Options	
Material	Applications
FKM	General Purpose
FFKM (K-UPW)***	Ultra Pure Water
FFKM (K-EXT)****	Chemical Extraction
Only available with welded end caps with NPT connections. *Only available with clamped end caps with NPT connections.	

Weight (approximate)	
Dry	0.5 kg (1.1 lbs)
Water-Filled (shellside)	0.7 kg (1.6 lbs)

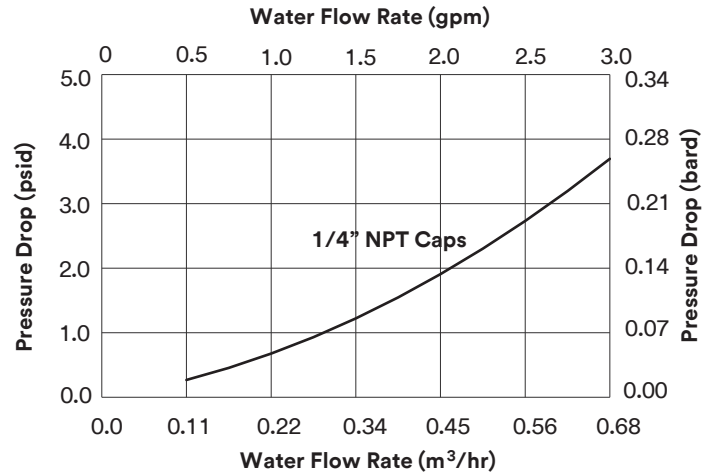
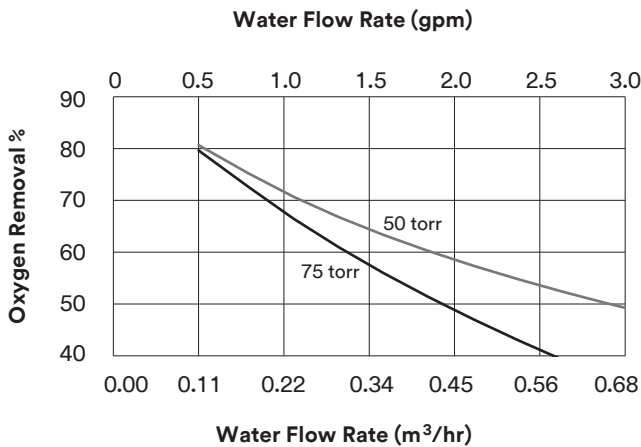


Not for consumer sale or use.

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Regulatory

Complies with the limits as set by (EU) 2015/863 amending Annex II to the Restriction on Hazardous Substances (RoHS) Directive (2011/65/EU). 3M™ Liqui-Cel™ SP-2.5×8 Series Membrane Contactors with FKM seals are constructed of FDA Title 21 CFR § 170-190 compliant materials for wetted parts only at ambient temperatures. 3M™ Liqui-Cel™ SP-2.5×8 Series Membrane Contactors with FFKM (K-UPW) or FFKM (K-EXT) seals **are not** constructed of FDA Title 21 CFR § 170-190 compliant materials and are not for use in food contact applications.



Test condition O₂ Removal: Vacuum mode with water at 20°C.
Characteristics may change under different operating conditions.

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