



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)

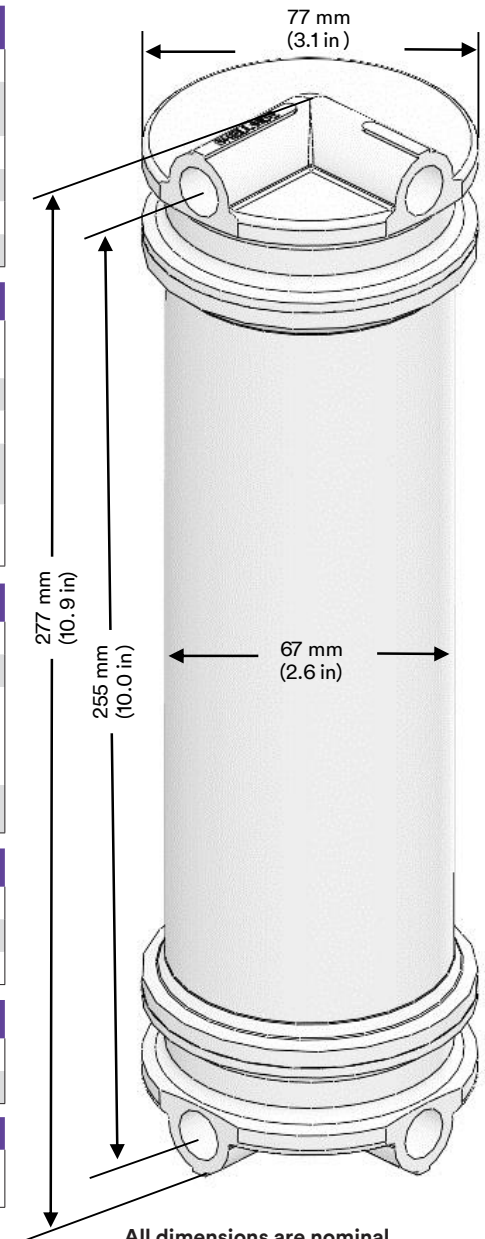
Pressure Guidelines*	
Maximum Shellside LIQUID Working Temperature/ Pressure	5-25°C, 4.1 barg (41-77°F, 60 psig) 50°C, 1.0 barg (122°F, 15 psig)
If no vacuum is used, 1.0 barg (15 psig) can be added to pressures above.	
Maximum Applied Gas Pressure	4.1 barg at 25°C (60 psig at 77°F)
Max applied gas pressure 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

Seal Options	
Material	Applications
Fluoroelastomer	General Purpose
Perfluoroelastomer	Ultra Pure Water

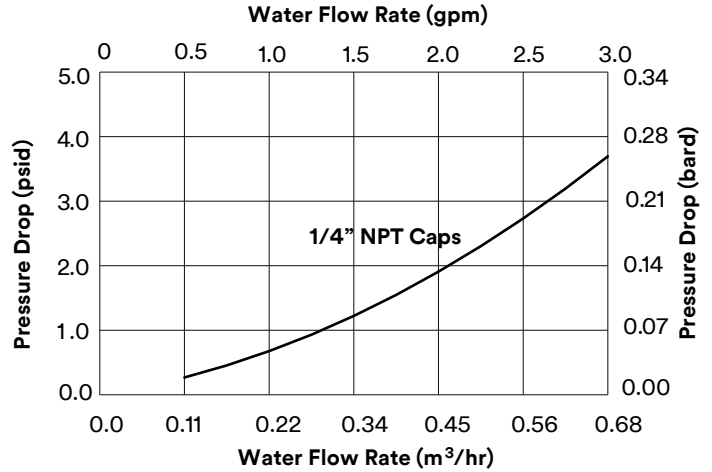
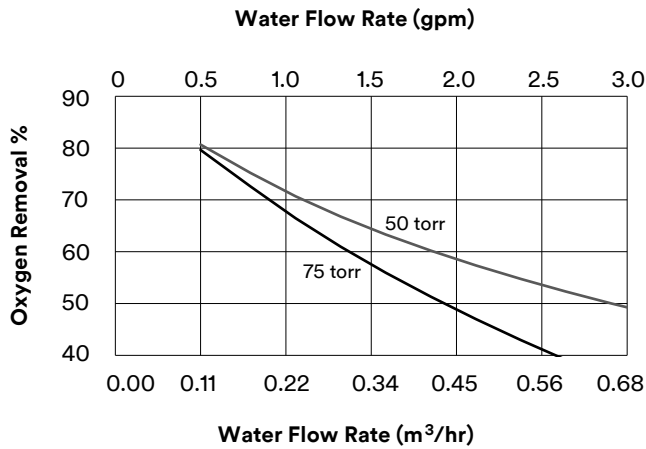
Weight (approximate)	
Dry	0.5 kg (1.1 lbs)
Water-Filled (shellside)	0.7 kg (1.6 lbs)

Regulatory	
Complies with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC. Constructed of FDA CFR title 21 compliant materials for wetted parts only at ambient temperatures.	



All dimensions are nominal values for contactors with NPT connections. Overall length with Flaretek connections increases. Refer to 3M.com/Liqui-Cel for detailed housing drawings.

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

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