



# 3M™ Liqui-Cel™ MM-0.5×1 Series Membrane Contactor

## Typical Properties

Membrane Characteristics	
Cartridge Configuration	No Baffle Membrane Array Design
Liquid Flow Guidelines	5 – 30 ml/min (Liquid must flow on the shellside)
Membrane Type	X50
Membrane/Potting Material	Polypropylene / Epoxy
Priming Volume (approximate)	
Shellside	3.5 ml

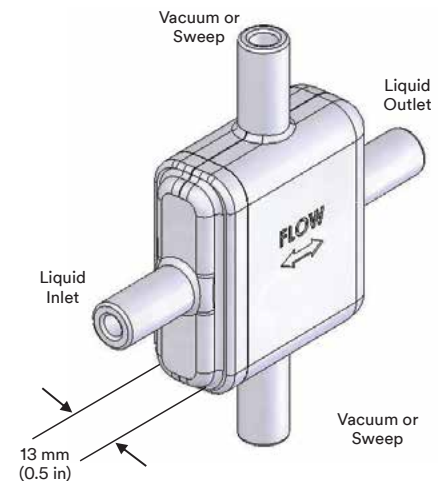
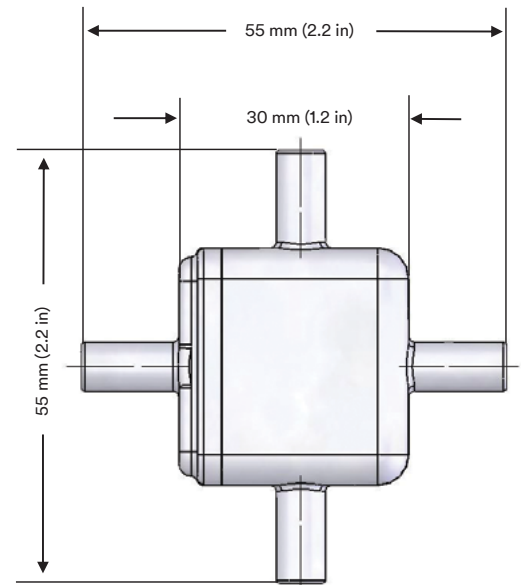
Pressure Guidelines*	
Maximum Shellside LIQUID Working Temperature/ Pressure	5-25°C, 3.1 barg (41-77°F, 45 psig) 40°C, 1.0 barg (104°F, 15 psig)

\* Note: Liquid pressure should always exceed gas pressure.

Housing Characteristics	
Material	Polycarbonate
Connections	
Shellside (Liquid Inlet/Outlet)	¼ inch Straight Tube
Lumenside (vacuum)	¼ inch Straight Tube

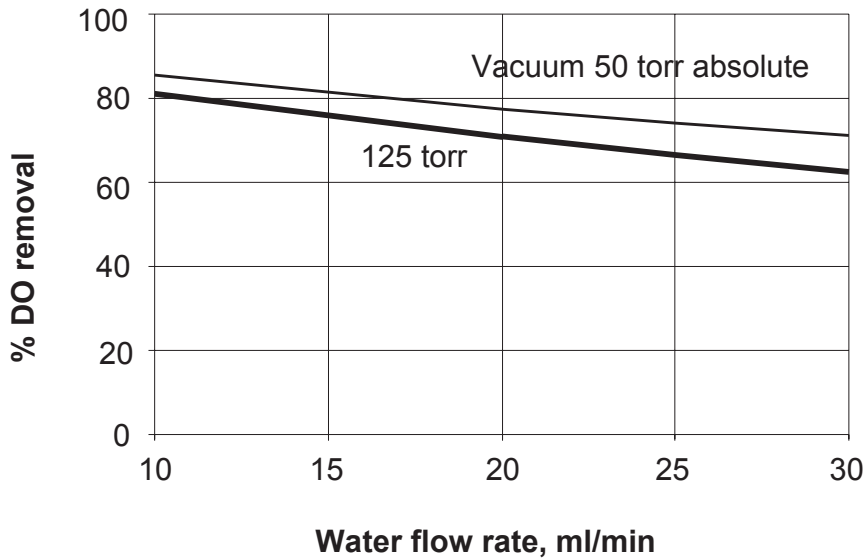
Weight (approximate)	
Dry	10 grams

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. See full housing drawing on [3M.com/Liqui-Cel](http://3M.com/Liqui-Cel) for additional details.

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Curves represent nominal values generated using water on the shellside and vacuum on the lumenside at 20°C. Characteristics may change under different operating conditions.

**Pressure Drop:**

In all flow rates up to 30 ml/min, the pressure drop is < 0.014 bard (0.2 psid).

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