

# 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	
Shellside Priming Volume (approximate)	Polycarbonate Housing 3.5 ml	HD Polyethylene Housing 2.0 ml

Pressure Guidelines*	Polycarbonate Housing	HD Polyethylene Housing
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)	5–25°C, 3.1 barg (41–77°F, 45 psig) 45°C, 1.7 barg (113°F, 25 psig)

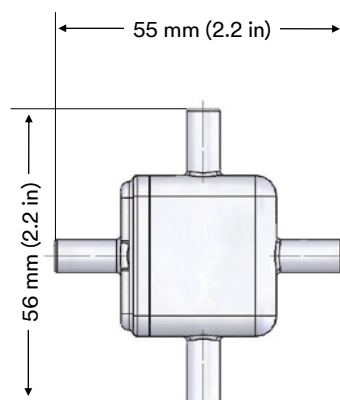
\* Note: Liquid pressure should always exceed gas pressure.

Housing Characteristics		
Material	Polycarbonate Housing	HD Polyethylene Housing
Connections		
Shellside (Liquid Inlet/Outlet)	1/4" Straight Tube	Female Luer Lock
Lumenside (vacuum)	1/4" Straight Tube	Female Luer Lock

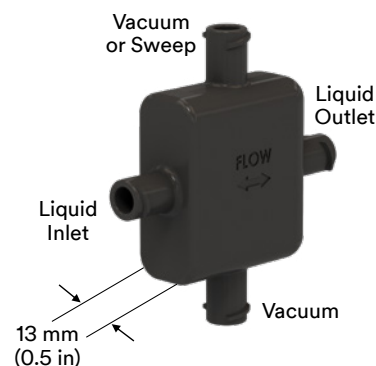
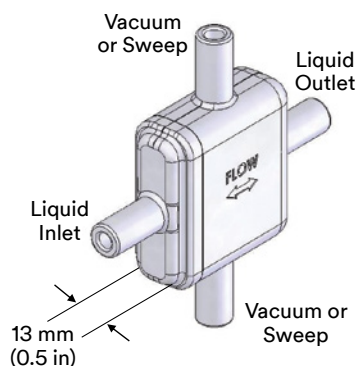
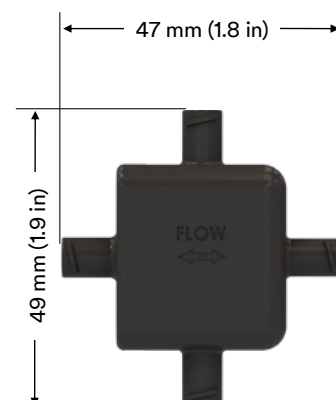
Weight (approximate)	Polycarbonate Housing	HD Polyethylene Housing
Dry	10 grams	8 grams

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™ MM-0.5×1 Series Membrane Contactors <b>are not</b> constructed of FDA Title 21 CFR § 174-186 compliant materials. Not for use in food contact applications.	

Polycarbonate Housing



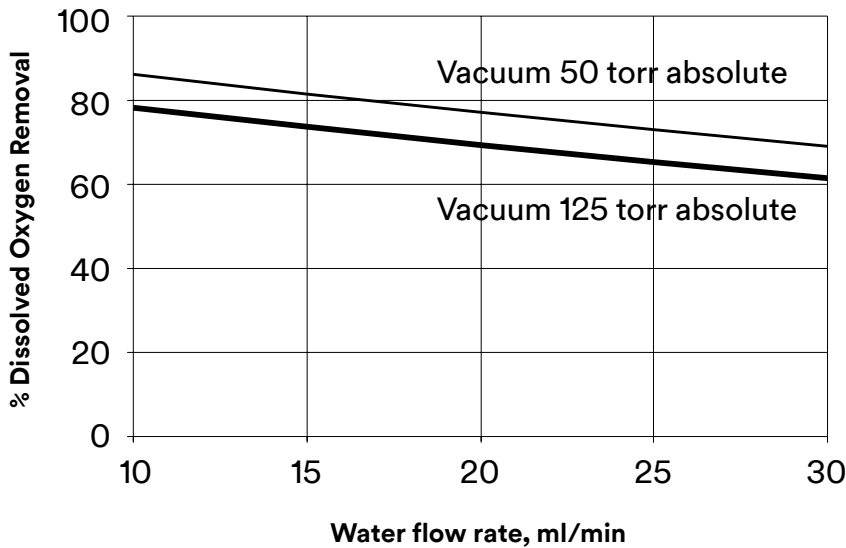
HD Polyethylene Housing



All dimensions are nominal values. See full housing drawings on [3M.ca/Liqui-Cel](http://3M.ca/Liqui-Cel) for additional details.

**Not for consumer sale or use.**

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

## Product Selection and Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

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