



3M™ Liqui-Cel™ SP-1×3 Series Membrane Contactor

Typical Properties

Membrane Characteristics		
Cartridge Configuration	No Baffle Radial Flow	
Liquid Flow Guidelines	15 - 60 ml/min (Liquid must flow on the shellside)	
Membrane Type	UP	UP II
Membrane Type	Recommended for low surface tension liquids that are water-based	Recommended for low surface tension fluids with aggressive formulations
Membrane/Potting Material	Polyolefin / Polyethylene	
Typical Membrane Surface Area	294 cm ²	
Priming Volume (approximate)		
Shellside	15 ml	

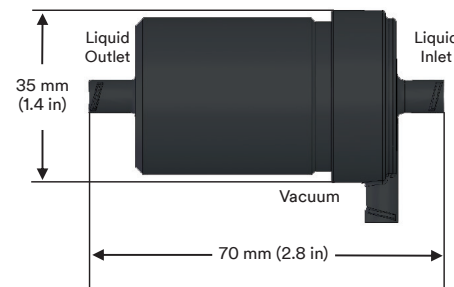
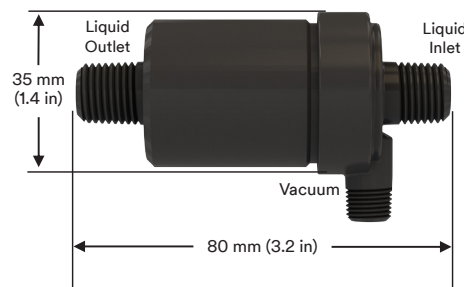
Pressure Guidelines*	
Maximum Shellside LIQUID Working Temperature/ Pressure	5-25°C, 3.1 barg (41-77°F, 45 psig) 40°C, 1.0 barg (104°F, 15 psig)

* Note: Liquid pressure should always exceed gas pressure.

Housing Characteristics	
Material	Black Polyethylene
Connections	
Shellside (Liquid Inlet/Outlet)	¼ inch NPT Male Standard Female Luer Lock
Lumenside (vacuum)	⅜ inch NPT Male Standard Female Luer Lock

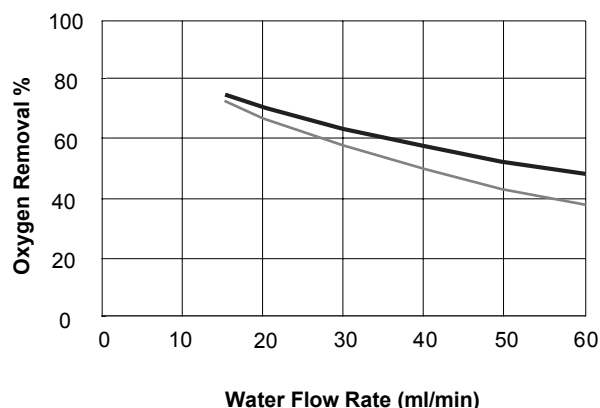
Weight (approximate)	
Dry	28 grams
Water-filled	43 grams

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.	

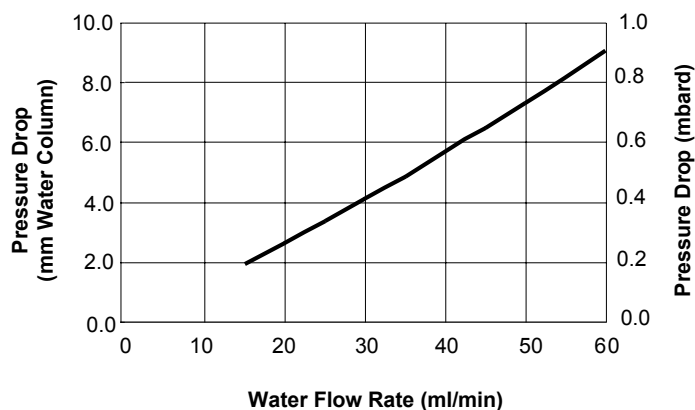


All dimensions are nominal values.
Refer to 3M.com/Liqui-Cel for
detailed housing drawings.

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— UP — UP II



Test condition O₂ Removal: Vacuum mode with water at 35°C. Vacuum: 50 torr

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