

3M™ Liqui-Cel™ SP-2×6 Series Membrane Contactor

Typical Properties

Membrane Characteristics		
Cartridge Configuration	Radial Flow	
Liquid Flow Guidelines	100 ml/min – 1 liter/min (Liquid must flow on the shellside)	
Flow rates are guidelines for product selection and reflect the flow range at which the product was tested. Product may be capable of operating above listed flow range depending on liquid being degassed and user's target dissolved gas requirements.		
Membrane Type	UP (Only available with NPT connections)	UP II
	Recommended for low surface tension liquids that are water-based	Recommended for low surface tension fluids with aggressive formulations
Membrane/Potting Material	Polyolefin / Polyethylene	
Priming Volume (approximate)		
Shellside	77 ml	

Pressure Guidelines*		
	UP (Only available with NPT connections)	UP II
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)	5–25°C, 7.2 barg (41–77°F, 105 psig) 75°C, 1.0 barg (167°F, 15 psig)

* Note: Liquid pressure should always exceed gas pressure. If no vacuum is used, 1.0 barg (15 psig) can be added to pressures above.

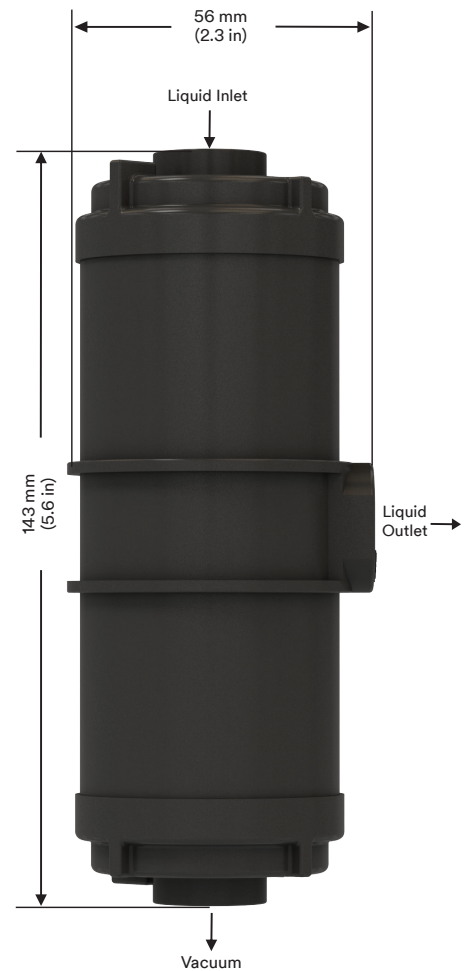
Housing Options and Characteristics	
Material	Polyethylene
Connections	
Shellside (Liquid Inlet/Outlet)**	¼ inch NPT Female Quick Disconnect compatible with CPC™ PLC12 Series
Lumenside (vacuum)**	¼ inch NPT Female Quick Disconnect compatible with CPC™ PLC12 Series

** Note: Use of metal connectors is not recommended.

Seal Options (Only applicable to external seals on Quick Disconnect connections. No internal seals are used.)	
Material	Applications
FFKM	General Purpose

Weight (approximate)	UP Series	UP II Series
Dry	149 grams	

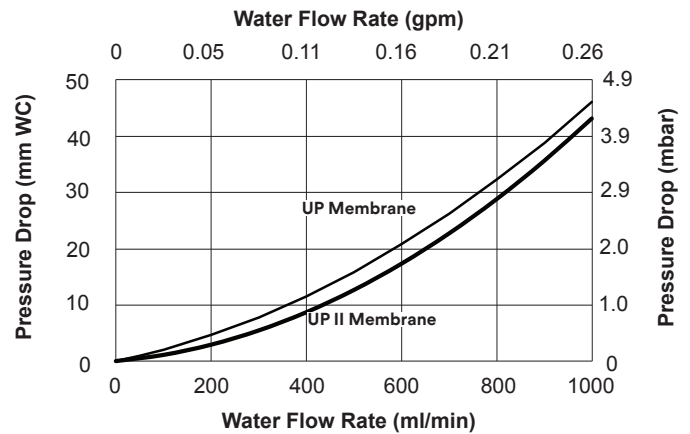
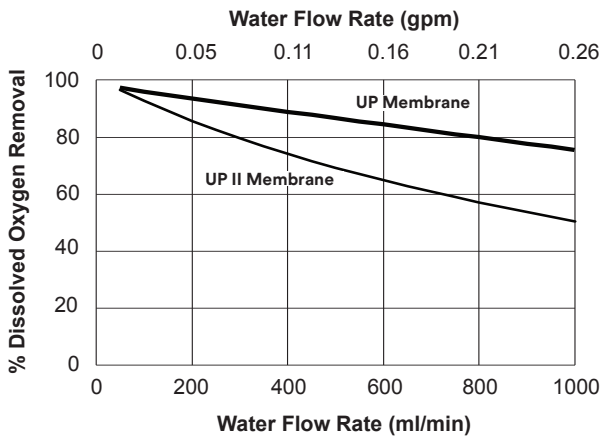
Regulatory
Complies with the limits as set by (EU) 2015/863 amending Annex II to the Restriction on Hazardous Substances (RoHS) Directive (2011/65/EU). 3M™ Liqui-Cel™ SP-2×6 Series Membrane Contactors are constructed of FDA Title 21 CFR § 174-186 compliant materials for wetted parts only.



All dimensions are nominal values for NPT connections. The 2×6 with Quick Disconnect connections is longer. See full housing drawing on 3M.com/Liqui-Cel for additional details.

Not for consumer sale or use.

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Test condition O₂ Removal: Vacuum mode with water at 45°C. Vacuum: 50 torr

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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3M Separation and Purification Sciences Division
13840 South Lakes Drive
Charlotte, North Carolina 28273
USA
Phone: +1 980 859 5400
Fax: +1 980 859 5258

3M Deutschland GmbH Separation and Purification Sciences Division
Öhder Straße 28
42289 Wuppertal Germany
Phone: +49 202 6099 - 0
Fax: +49 202 6099 - 241



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