

# 3M™ Liqui-Cel™ SP-1×6 Series Membrane Contactor

## Typical Properties

Membrane Characteristics	
Cartridge Configuration	Radial Flow
Liquid Flow Guidelines	15 – 300 ml/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 II Recommended for low surface tension fluids
Membrane/Potting Material	Polyolefin / Polyethylene
Shellside Priming Volume (approximate)	62 ml

Pressure Guidelines*	
Maximum Shellside LIQUID Working Temperature/ Pressure	5-25°C, 4.1 barg (41-77°F, 60 psig) 75°C, 1.0 barg (167°F, 15 psig)

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

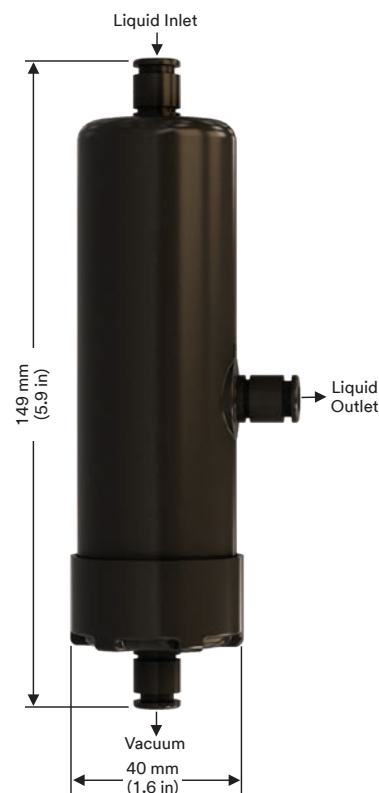
Housing Options and Characteristics	
Material	Black Polyethylene
Connections	
Shellside (Liquid Inlet/Outlet)**	Quick disconnect compatible with CPC™ PLC12 series
Lumenside (Vacuum)**	Quick disconnect compatible with CPC™ PLC12 series

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

Seal Options (Only applicable to the external seals. No internal seals are used.)	
Material	Applications
FFKM	General Purpose

Weight (approximate)	
Dry	60 grams

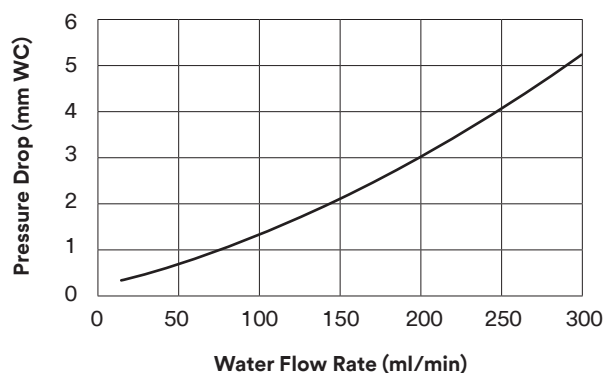
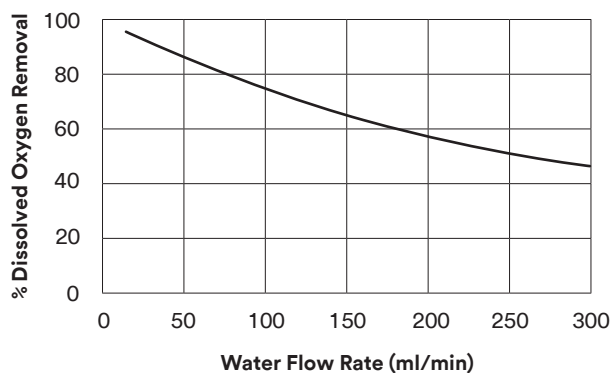
Regulatory	
Complies with the limits as set by (EU) 2015/863 amending Annex II to the Restriction on Hazardous Substances (RoHS) Directive (2011/65/EU). 3M™ Liqui-Cel™ SP-1×6 Series Membrane Contactors are constructed of FDA Title 21 CFR § 174-186 compliant materials for wetted parts only at ambient temperatures.	



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

**Not for consumer sale or use.**

# 3M™ Liqui-Cel™ SP-1×6 Series Membrane Contactor



Test condition O<sub>2</sub> Removal: Vacuum mode with water at 25°C. Vacuum: 50 torr

**Technical Information:** The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

**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.

**Warranty, Limited Remedy, and Disclaimer:** Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

**Limitation of Liability:** Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

3M and Liqui-Cel are trademarks of 3M Company. All other trademarks are the property of their respective owners. © 2021 3M Company. All rights reserved.



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

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

LC-1309  
70-2016-0242-5

Rev. 02/2021

[3M.com/Liqui-Cel](http://3M.com/Liqui-Cel)