Industrial filtration

Liqui-Cel SP 2×6 membrane contactors

Thermo Scientific™ Liqui-Cel™ Membrane Contactors provide high-performance dissolved gas control in a compact design. Utilizing hollow fiber membrane technology, Thermo Scientific membrane contactors remove dissolved gases from or add gases to compatible liquid streams in-line and without chemicals to help facilities around the world improve operating efficiency and protect product quality in many industrial processes.

Typical properties

Membrane characteristics	
Cartridge configuration	Radial flow
Liquid flow guidelines*	100 ml/min - 2 liter/min (liquid must flow on the shell side)

*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.

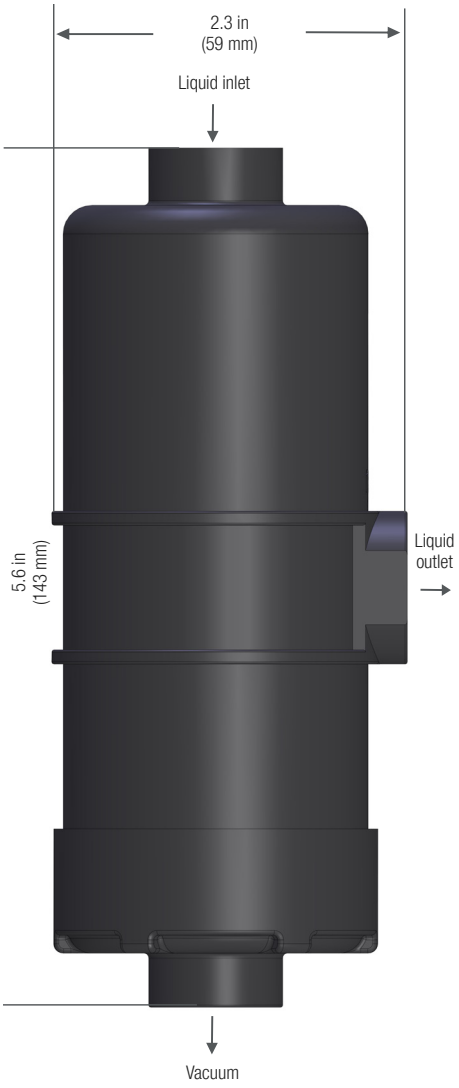
Membrane type	
UP	Recommended for low surface tension liquids with low potential for solvent breakthrough, such as liquids that are water-based
UP II	Recommended for low surface tension liquids with moderate potential for solvent breakthrough
UP II+	Recommended for low surface tension liquids with high potential for solvent breakthrough
Membrane/potting material	Polyolefin/polyethylene
Priming volume (approximate)	
Shell side NPT connection	95 ml
Shell side QDC connection	100 ml
Operating parameters	
Pressure guidelines**	
Maximum shell side LIQUID operating temperature/pressure	
41 - 77°F (5 - 25°C)	105 psig (7.2 barg)
167°F (75°C)	15 psig (1.0 barg)

**Note: Liquid pressure should always exceed gas pressure in operation.

Housing characteristics	
Material	Polyethylene
Port connections	
Shell side (liquid inlet/outlet)***	• 0.25-inch NPT female • Quick disconnect compatible with CPC™ PLC12 series connectors
Lumen side (vacuum)***	• 0.25-inch NPT female • Quick disconnect compatible with CPC™ PLC12 series connectors

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

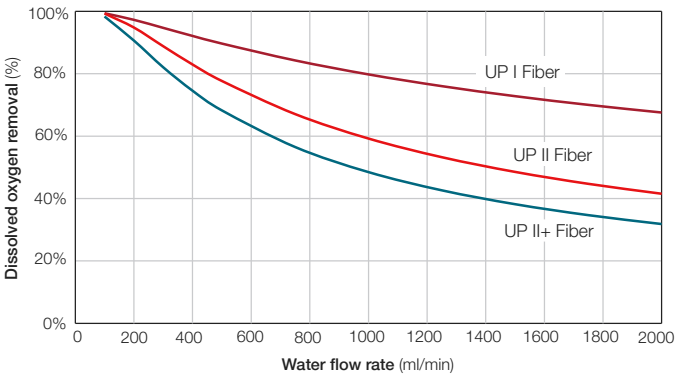
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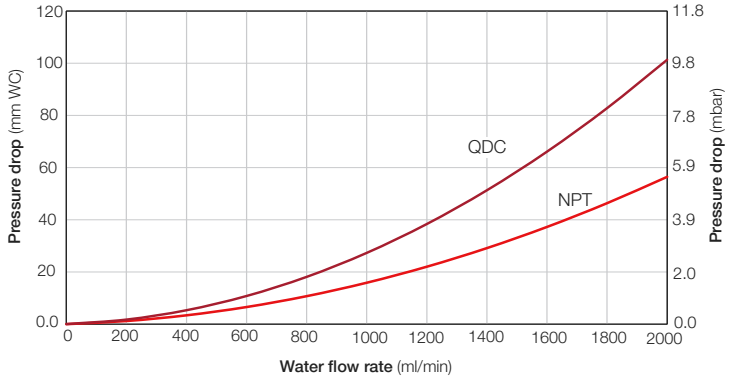


Note: All dimensions are nominal values for NPT connections. The 2x6 with quick disconnect connections is longer. See housing drawings for additional dimensional details by housing and connection type.

Seal material options for shell side wetted parts	
FFKM****	
****Only applicable to external seals used on 2x6 product with quick disconnect connections. No internal seals are used.	
Weight (approximate)	
Dry	
NPT connection	127 g
QDC connection	131 g
Regulatory	
Certain Thermo Scientific™ Liqui-Cel™ SP 2x6 Membrane Contactor products are compliant with US FDA 21 CFR and other food contact regulations. Contact your Thermo Fisher Scientific representative for detailed declaration of compliance information for food contact applications.	
Not for consumer sale or use.	

Typical properties





Notes

- Curves represent nominal values using water at 113ºF (45ºC). Characteristics may change under different operating conditions.
- Test condition O_2 removal: 50 torr vacuum.
- These charts should not be used to design systems.

Intended Use: Liqui-Cel membrane contactors are intended to remove dissolved gases and bubbles from liquids or to add gases to a liquid stream. Liqui-Cel membrane contactors are for use in industrial separation applications of industrial fluids only, in accordance with the applicable product instructions, specifications, and where materials of construction are compatible. Liqui-Cel membrane contactors may further be used in the production of water for various pharmaceutical products upstream of the final water sterilization step.

Certain Liqui-Cel membrane contactors are compliant for use in Food and Beverage applications. For specific details regarding use or limitations for food contact applications please refer to the Liqui-Cel product's data sheet or contact your Thermo Fisher Scientific Inc. representative for more information.

Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the Thermo Scientific product is suitable and appropriate for the user's specific application, including user conducting an appropriate risk assessment and evaluating the Thermo Scientific product in user's application.

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