Industrial filtration

Liqui-Cel SP 1×3 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*	15–60 ml/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.

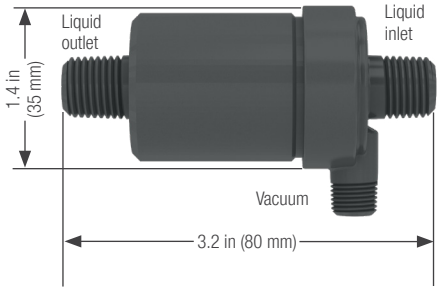
Membrane/potting material	Polyolefin/polyethylene	
Membrane type	UP	UP II
	Recommended for low surface tension liquids with a low potential for solvent breakthrough, such as water-based liquids	Recommended for low surface tension liquids with moderate potential for solvent breakthrough
Priming volume (approximate)		
Shell side	15 ml	
Operating parameters		
Pressure guidelines**		
Maximum shell side LIQUID operating temperature/pressure		
41 - 77ºF (5 - 25ºC)	45 psig (3.1 barg)	
104ºF (40ºC)	15 psig (1 barg)	

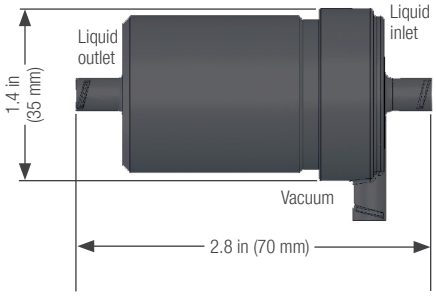
**Note: Liquid pressure should always exceed gas pressure in operation.

Housing characteristics	
Material	Black polyethylene
Port connections	
Shell side (liquid inlet/outlet)***	• 0.25-inch NPT male • Standard female luer lock
Lumen side (inlet/outlet)***	• 0.25-inch NPT male • Standard female luer lock

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

Seal material options for shell side wetted parts	
FFKM	
Weight (approximate)	
Dry	28 grams

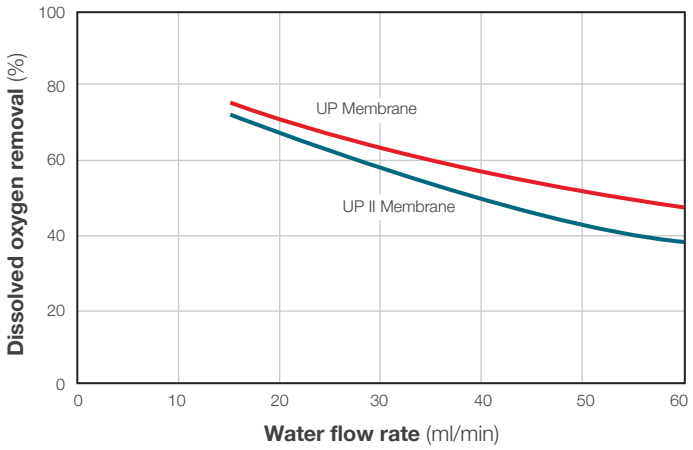


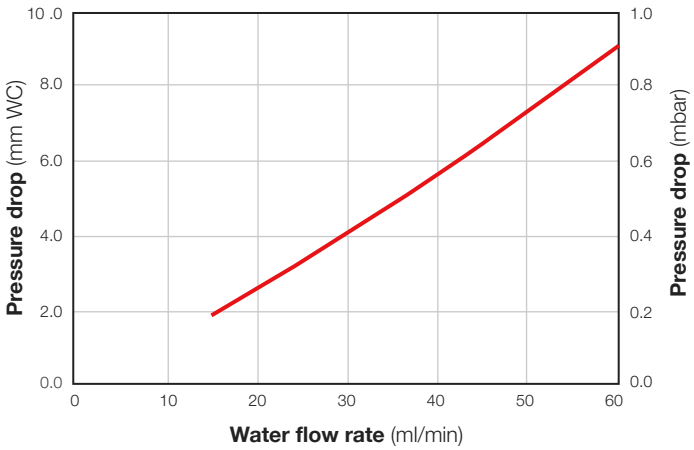


Note: All dimensions are nominal values. See housing drawings for additional dimensional details.

Not for consumer sale or use.

Typical properties





Notes

- Curves represent nominal values using water at 95°F (35°C). 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.

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 the user's application.

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Liqui-Cel SP 1×3 products are not for use in food contact applications.

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