Industrial filtration

Liqui-Cel SP 2.5×8 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	Extra-flow with center baffle
Liquid flow guidelines	0.5 - 3 gpm (0.1 - 0.7 m^3/hr) Liquid must flow on the shell side
Membrane/potting material	Polyolefin/polyethylene
Membrane type	UP I
	Recommended for low surface tension liquids
Priming volume (approximate)	
Shell side	0.06 gal (0.23 L)
Lumen side	0.02 gal (0.09 L)
Operating parameters	
Pressure guidelines*	
Maximum shell side LIQUID operating temperature/pressure	
41 - 77°F (5 - 25°C)	75 psig (5.2 barg)
122°F (50°C)	30 psig (2.1 barg)
Maximum lumen side GAS operating temperature/pressure	
77°F (25°C)	60 psig (4.1 barg)

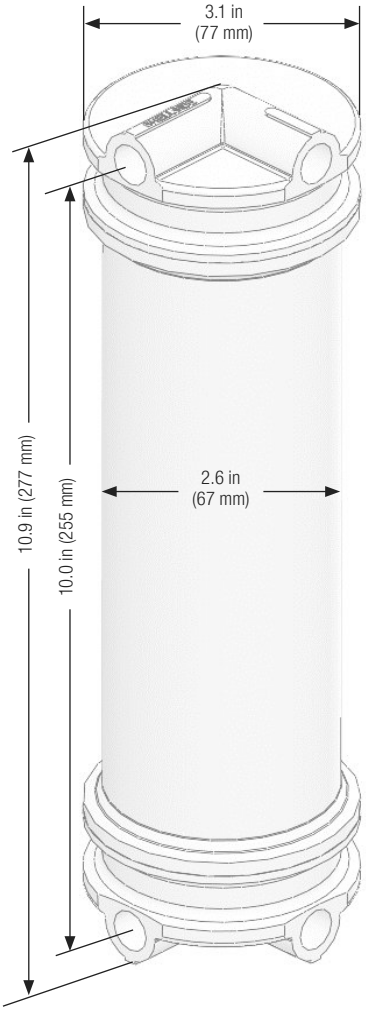
*Note: Liquid pressure should always exceed gas pressure in operation.

Housing characteristics	
Material	Polypropylene
Port connections	
Shell side (liquid inlet/outlet)	• 0.25-inch NPT female • 0.375-inch Flaretek™ (nut included)** • 0.5-inch Flaretek™ (nut included)**
Lumen side (inlet/outlet)	• 0.25-inch NPT female

**Only available with FKM seal option with welded end caps.

Seal material options for shell side wetted parts	
FKM	
FFKM (K-UPW)	Only available with welded end caps with NPT connections
FFKM (K-EXT)	Only available with clamped end caps and NPT connections
Weight (approximate)	
Dry	1.1 lbs (0.5 kg)
Water-filled (shell side)	1.6 lbs (0.7 kg)

Not for consumer sale or use.



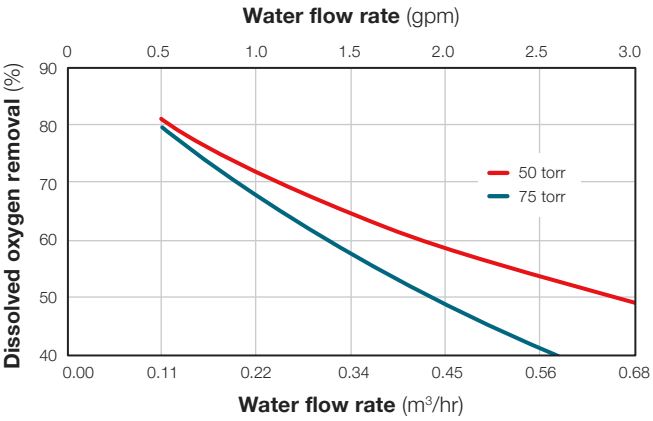
Note: All dimensions are nominal values for contactors with polypropylene housing and NPT connections. Overall length increases with Flaretek™ connections. See housing drawings for additional dimensional details by housing and connection type.

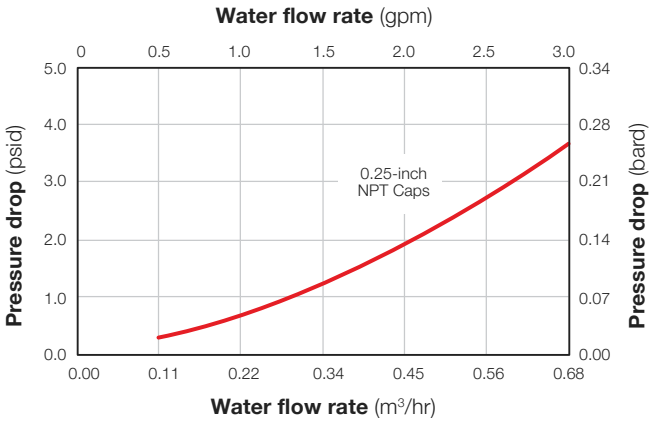
Typical properties

Regulatory

Certain Thermo Scientific™ Liqui-Cel™ SP 2.5×8 Membrane Contactor products with FKM seals are compliant with US FDA 21 CFR, EU Food Contact Regulation (EC) 1935/2004, EU Regulation 10/2011, Japan MHLW – Food Sanitization Act, and other food contact regulations. Liqui-Cel SP 2.5×8 membrane contactor products with FFKM (K-UPW) or FFKM (K-EXT) seals are not for use in food contact applications. Contact your Thermo Fisher Scientific representative for detailed declaration of compliance information for food contact applications.

Not for consumer sale or use.





Notes

- Curves represent nominal values using water at 68°F (20°C) Characteristics may change under different operating conditions.
- Test condition O_2 removal: Vacuum mode: 50 torr and 75 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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