Industrial filtration

Liqui-Cel SP 4×13 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.

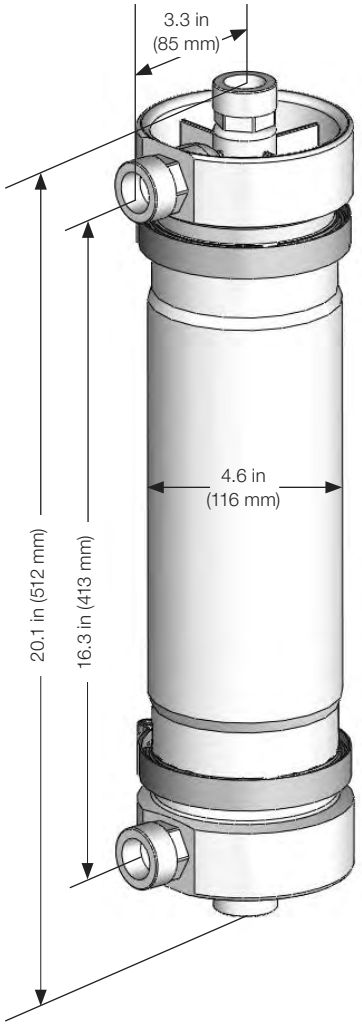
Typical properties

Membrane characteristics		
Cartridge configuration	Extra-flow with center baffle	
Liquid flow guidelines	1 - 15 gpm (0.2 - 3.4 m^3/hr)	
Membrane/potting material	Polypropylene/polyethylene	
Membrane type	UP I	
	Recommended for low surface tension liquids	
Priming volume (approximate)	Polypropylene housing	316L SS housing
Shell side	0.3 gal (1.3 L)	0.3 gal (1.3 L)
Lumen side	0.1 gal (0.45 L)	0.1 gal (0.4 L)
Operating parameters		
Pressure guidelines*	Polypropylene housing	316L SS housing
Maximum shell side LIQUID operating temperature/pressure		
41 - 77°F (5 - 25°C)	75 psig (5.2 barg)	75 psig (5.2 barg)
104°F (40°C)	30 psig (2.1 barg)	45 psig (3.1 barg)
122°F (50°C)	DO NOT USE	45 psig (3.1 barg)
Maximum lumen side GAS operating temperature/pressure		
41 - 77°F (5 - 25°C)	60 psig (4.1 barg)	60 psig (4.1 barg)

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

Housing characteristics		
Material	Polypropylene	316L SS
Port connections		
Shell side (liquid inlet/outlet)	• 1-inch sanitary • 0.75-inch NPT female • 1-inch George Fisher • Rc 0.75-inch per JIS B0203	• 1-inch sanitary
Lumen side (inlet/outlet)	• 1-inch sanitary • 0.75-inch NPT female • Rc 0.75-inch per JIS B0203	
Seal material options for shell side wetted parts		
FKM		
FFKM (K-UPW)	Only available in polypropylene housing with NPT connections	

Not for consumer sale or use.



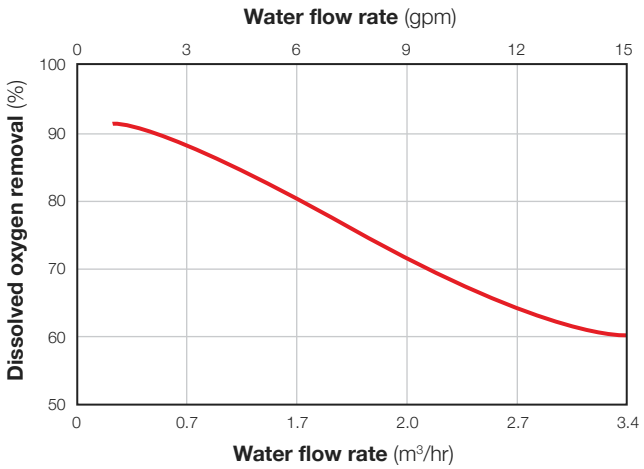
Note: All dimensions are nominal values for contactors with polypropylene housing and NPT connections. See housing drawings for additional dimensional details by housing and connection type.

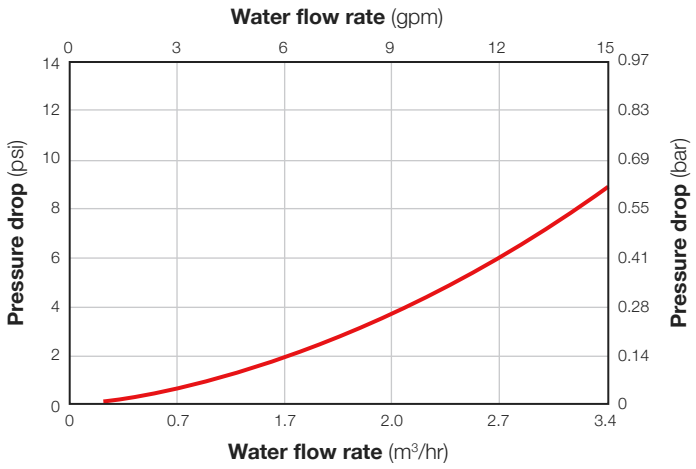
Typical properties

Weight (approximate)		
	Polypropylene	316L SS
Dry	7 lbs (3 kg)	15 lbs (7 kg)
Water-filled (shell side)	9 lbs (4 kg)	18 lbs (8 kg)

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). Certain Thermo Scientific™ Liqui-Cel™ SP 4×13 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 4×13 membrane contactor products with FFKM (K-UPW) 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 77°F (25°C). Characteristics may change under different operating conditions.
- Test condition O^2 removal with UP I membrane: Vacuum mode: 50 torr absolute 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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