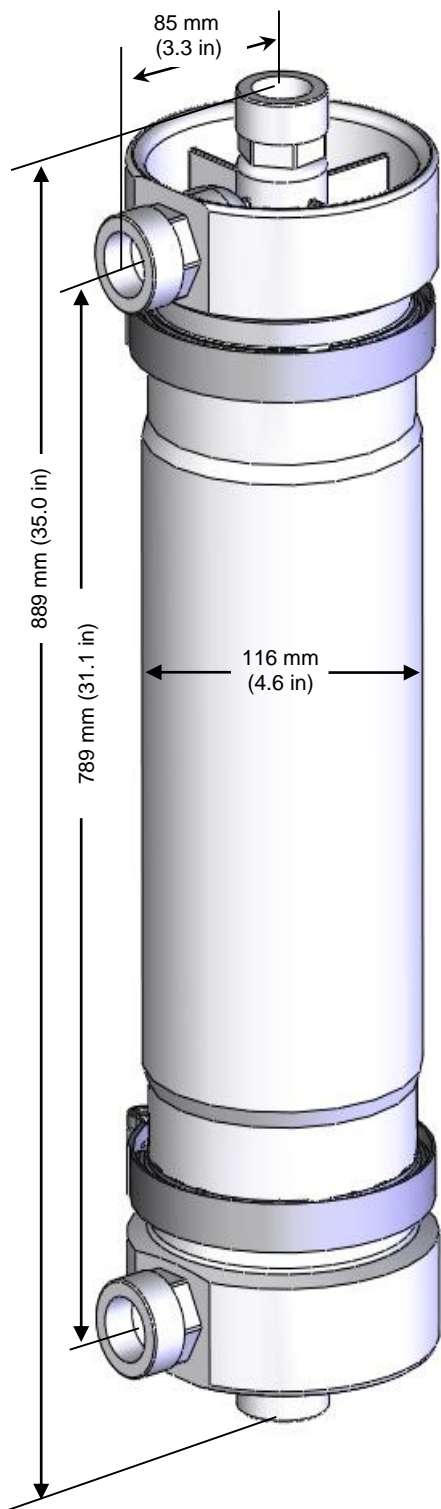


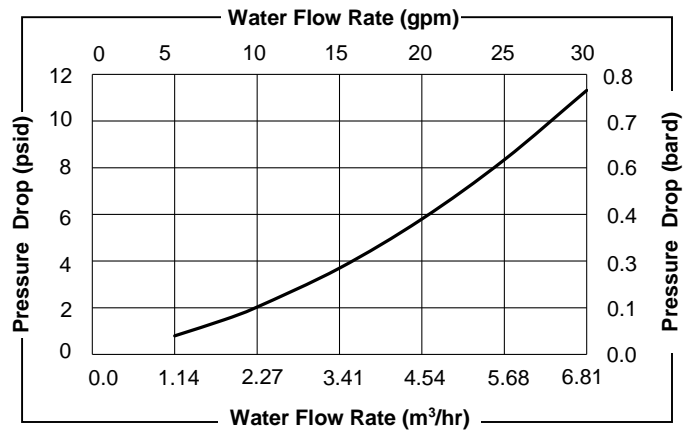
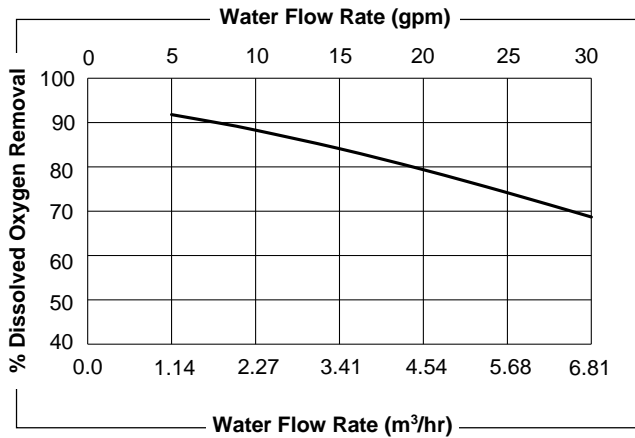
## 4 x 28 SuperPhobic<sup>®</sup> PRODUCT DATA SHEET



Membrane Characteristics		
Cartridge Configuration	Extra-Flow with center baffle	
Liquid Flow Guidelines	1.1-6.8 m <sup>3</sup> /hr (5-30 gpm) Liquid must flow on the shellside	
Membrane/Potting Material	Polyolefin / Polyethylene	
Typical Membrane Surface Area	17 m <sup>2</sup> (180 ft <sup>2</sup> )	
Priming Volume (approximate)	<b>Polypropylene</b>	<b>316L SS (32 Ra finish)</b>
Shellside	2.9 L (0.8 gal)	2.9 L (0.8 gal)
Lumenside	0.9 L (0.2 gal)	0.7 L (0.2 gal)
Pressure Guidelines*		
Maximum Shellside <b>LIQUID</b> Working Temperature/Pressure	5-25° C, 4.1 barg (41-77° F, 60 psig) 50° C, 1.0 barg (122° F, 15 psig)	
If no vacuum is used, 1 barg (15 psig) can be added to pressures above.		
Maximum Applied Gas Pressure	4.1 barg at 25° C (60 psig at 77° F)	
*See Operating Guide for complete temp/pressure limits for housings and membrane. Note: Liquid pressure should always exceed gas pressure.		
Housing Options and Characteristics		
Material	<b>Polypropylene</b>	<b>316L SS (32 Ra finish)</b>
Flange Connections		
Shellside (Wetted surface)	<ul style="list-style-type: none"> <li>• 1 inch Sanitary</li> <li>• ¾ inch NPT Female</li> <li>• 1 inch George Fisher</li> <li>• Rc ¾ per JIS B0203</li> </ul>	<ul style="list-style-type: none"> <li>• 1 inch Sanitary</li> </ul>
Lumenside (Gas/Vacuum)	<ul style="list-style-type: none"> <li>• 1 inch 90° Sanitary</li> <li>• ¾ inch 90° NPT Female</li> <li>• Rc ¾ per JIS B0203</li> </ul>	<ul style="list-style-type: none"> <li>• 1 inch Sanitary</li> </ul>
Seal Options		
Material	Applications	
Fluoroelastomer	General Purpose	
Perfluoroelastomer	Ultra Pure Water	
Weight		
	<b>Polypropylene</b>	<b>316L SS</b>
Dry	4 kg (9 lbs)	7 kg (16 lbs)
Liquid full	7 kg (16 lbs)	10 kg (22 lbs)
Shipping weight	6 kg (14 lbs)	9 kg (20 lbs)
Regulatory		
Complies with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC. Constructed of FDA CFR title 21 compliant materials for wetted parts only at ambient temperatures.		

**Note:** All dimensions are nominal values for the Polypropylene vessel with NPT connections. Dimensions for other housings are at [www.liqui-cel.com](http://www.liqui-cel.com).

## 4 x 28 SuperPhobic<sup>®</sup> PRODUCT DATA SHEET



Curves represent nominal values, generated using water at 25° C (77° F).

Test condition: O<sub>2</sub> Removal with 50 torr abs. vacuum.

Characteristics may change under different operating conditions.

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**Industrial Business Group  
Membranes Business Unit**  
13840 South Lakes Drive  
Charlotte, North Carolina 28273  
USA

Phone: +1 704 587 8888  
Fax: +1 704 587 8610

**3M Deutschland GmbH  
Membranes Business Unit**  
Öhder Straße 28  
42289 Wuppertal  
Germany

Phone: +49 202 6099 - 658  
Fax: +49 202 6099 - 750

**3M Japan Ltd.  
Membranes Business Unit**  
6-7-29, Kita-Shinagawa,  
Shinagawa-ku, Tokyo | 141-8684  
Japan

Phone: +81 3 6409 5732  
Fax: +81 3 6409 5827

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