




## Notes

- ▶ Membrane type should be selected based on the type of liquid to be removed.
- ▶ The membrane is NOT rated in micron size, however the effective pore size is less than 1 micron.
- ▶ All membrane types are extremely inert. The only known substance to attack the membrane is hydrofluoric acid in high concentrations
- ▶ **Membrane Composition:** The membrane composition is proprietary. However, it will not be easily attacked by any components in your system, nor will it preferentially absorb any components in your system. The membrane does not influence the gas composition, which flows through it. The membrane is completely inert to your system.



## Phase Separation Membranes - separate liquid from vapor sample

- ▶ These membranes are used in Series 100 Genie<sup>®</sup> Membrane Separators™, Membrane Probes & Probe Regulators, and Avengers with Membrane

<p>Type 5 / Type 6 “BTU” Membrane</p> 	<p><u>Details:</u></p> <ul style="list-style-type: none"> <li>▶ Maximum temperature: 185°F (85°C)</li> <li>▶ Type 6 “BTU” membrane is <b>exactly</b> the same as Type 5 membrane but named “BTU” due to the large number of natural gas and BTU analysis applications it is used in</li> </ul> <p><u>Applications:</u></p> <ul style="list-style-type: none"> <li>▶ Separation of <b>ALL</b> types of liquid from vapor</li> </ul>
<p>Type 2 “Hi-Flow” Membrane</p> 	<p><u>Details:</u></p> <ul style="list-style-type: none"> <li>▶ Mounted to an o-ring for handling purposes</li> <li>▶ Maximum temperature: 302°F (150°C)</li> </ul> <p><u>Applications:</u></p> <ul style="list-style-type: none"> <li>▶ Separates high surface tension liquids (i.e., water, glycol) from vapor</li> <li>▶ <b>NOT</b> designed to reject hydrocarbon liquids or other low surface tension liquids</li> </ul>
<p>Type 7 “Hi-Flow Backed” Membrane</p> 	<p><u>Details:</u></p> <ul style="list-style-type: none"> <li>▶ Polypropylene backing (check compatibility of polypropylene with your process)</li> <li>▶ Maximum temperature: 302°F (150°C)</li> </ul> <p><u>Applications:</u></p> <ul style="list-style-type: none"> <li>▶ Separates high surface tension liquids (i.e., water, glycol) from vapor</li> <li>▶ Lower cost option for Type 2 membrane when exotic o-rings are required</li> <li>▶ <b>NOT</b> designed to reject hydrocarbon liquids or other low surface tension liquids</li> </ul>

## Liquid/Liquid Membranes - separate immiscible liquids from hydrocarbon liquids

- ▶ These membranes are used in Series 200 Genie<sup>®</sup> Membrane Separators™

<p>Type 3 “Liquid/Liquid” Membrane</p> 	<p><u>Details:</u></p> <ul style="list-style-type: none"> <li>▶ Mounted to an o-ring for handling purposes</li> <li>▶ Maximum temperature: 302°F (150°C)</li> </ul> <p><u>Applications:</u></p> <ul style="list-style-type: none"> <li>▶ Removes immiscible liquids from hydrocarbon liquids (i.e., water from Diesel, Kerosene, Gasoline)</li> </ul>
<p>Type 8 “Liquid/Liquid Backed” Membrane</p> 	<p><u>Details:</u></p> <ul style="list-style-type: none"> <li>▶ Polypropylene backing (check compatibility of polypropylene with your process)</li> <li>▶ Maximum temperature: 302°F (150°C)</li> </ul> <p><u>Applications:</u></p> <ul style="list-style-type: none"> <li>▶ Removes immiscible liquids from hydrocarbon liquids (i.e., water from Diesel, Kerosene, Gasoline)</li> <li>▶ Lower cost option for Type 3 membrane when exotic o-rings are required</li> </ul>