## Comparison of Membrane Processes

<table>
<thead>
<tr>
<th>Process</th>
<th>NF</th>
<th>RO</th>
<th>UF</th>
<th>MF</th>
<th>CF</th>
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<tbody>
<tr>
<td>Examples of Common Constituents In Water</td>
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<td>Metal Ions</td>
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<tr>
<td>Sugar</td>
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<td>Virus</td>
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<td>Pyrogen</td>
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<td>Colloidal Silica</td>
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<td>Carbon Fines</td>
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<td>Bacteria</td>
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<td>Approx. Molecular Weight Cut-Off*</td>
<td>100</td>
<td>200</td>
<td>20,000</td>
<td>100,000</td>
<td>500,000</td>
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<tr>
<td>Microns</td>
<td>0.0001</td>
<td>0.001</td>
<td>0.01</td>
<td>0.1</td>
<td>1.0</td>
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</tbody>
</table>

RO: Reverse Osmosis

NF: Nanofiltration

UF: Ultrafiltration

MF: Microfiltration

CF: Conventional Filtration

* Used for sizing organics