Corning® Advanced-Flow™
LF Reactor

Corning has developed a reduced-flow reactor that retains the outstanding mixing and heat exchange performance of its Advanced-Flow™ reactors while also providing:

- Low internal volume
- High flexibility
- Metal-free reaction path
- Scalability
Boundary conditions

<table>
<thead>
<tr>
<th></th>
<th>Process Path</th>
<th></th>
<th>Heat Exchange Path</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Block A</td>
<td>Block B</td>
<td>Block A</td>
<td>Block B</td>
</tr>
<tr>
<td>Total pressure drop</td>
<td>1.5(*)</td>
<td>1.5 (*)</td>
<td>0.4 (**)</td>
<td>0.5 (**)</td>
</tr>
<tr>
<td>(Approx.) (barg)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total internal volume</td>
<td>2.5</td>
<td>2.0</td>
<td>25</td>
<td>20</td>
</tr>
<tr>
<td>(Approx.) (ml)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(*) water 20°C, 5 ml/min total flow rate
(**) water 20°C, 200 ml/min total flow rate

Operating Range

<table>
<thead>
<tr>
<th></th>
<th>Process Path</th>
<th></th>
<th>Heat Exchange Path</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature (°C)</td>
<td>-60 to 200</td>
<td></td>
<td>-60 to 200</td>
<td></td>
</tr>
<tr>
<td>Pressure (barg)</td>
<td>Up to 18</td>
<td></td>
<td>Up to 6</td>
<td></td>
</tr>
</tbody>
</table>

Reactor Blocks

The Advanced-Flow™ LF reactor includes two blocks that can be used together or separately* and contain glass fluidic modules, PFA piping, and perfluoro-elastomer gaskets.

Standard reactor block A

![A1 A2 A3]

Standard reactor block B

![A4 A5]

* Configuration examples: A, B, A+B, B+A

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