The Perfect Low Flow Low Pressure Spray Head

- High Speed Wash
- Low Flow Rates
- Low Pressure Operation
- Small Size
- Faster than Spray Ball
- Effluent Costs Lower than Spray Ball
- Safe for Use in Enclosed Environment
- Fits into Hoppers and Pipework

Versatile & Unique

The Breconcherry TORUS is ideally suited for applications where low flow and low pressure demands are critical. The ability to operate from pressures as low as 0.5 bar with flow rates as low as 8 litres per minute enables the TORUS to operate in many areas previously cleaned by manual means as well as larger main stream applications. The TORUS range offers a wide choice of models which can be customised to meet individual customer requirements for flow and pressure dynamics.

Applications

Ideally suited to glove box/biohazard containment areas, the TORUS is compact enough to be mounted inside pipework to flush piping through, or used to replace standard spray balls/wash heads in larger vessels. The TORUS is manufactured from FDA-approved materials to give complete sanitary compliance for the pharmaceutical and food industries. It is widely used in the pharmaceutical, biotech, cosmetic, road transport and OEM industries.
TORUS
Technical data

Materials of construction: Stainless Steel 316, PTFE, PEEK,
Max. operating temperature: 95°C
Max. ambient temperature: 140°C
Standard threads: BSP
Nozzles diameters:
- Single Slot - Torus 1/2"
- Four Slots - Torus 3/4"
- Custom design to suit customers’ flow requirements

<table>
<thead>
<tr>
<th>Pressure BAR</th>
<th>Litres per Minute</th>
<th>Cleaning Radius</th>
<th>Wetting Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>8</td>
<td>1.0m</td>
<td>1.5m</td>
</tr>
<tr>
<td>1.0</td>
<td>12</td>
<td>1.0m</td>
<td>1.5m</td>
</tr>
<tr>
<td>2.0</td>
<td>18</td>
<td>1.0m</td>
<td>1.5m</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pressure BAR</th>
<th>Litres per Minute</th>
<th>Cleaning Radius</th>
<th>Wetting Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>16</td>
<td>1.0m</td>
<td>1.2m</td>
</tr>
<tr>
<td>1.0</td>
<td>24</td>
<td>1.0m</td>
<td>1.2m</td>
</tr>
<tr>
<td>2.0</td>
<td>36</td>
<td>1.2m</td>
<td>1.5m</td>
</tr>
</tbody>
</table>

From a known input pressure, read off the flowrate and wash radius from the charts opposite.

Operation

Wash fluid is directed through the slots on the rotating disc, dispensing a spray of fast moving droplets giving total coverage. Ideal for burst rinsing or prolonged washing with instant, strong impact performance. The TORUS is available in 180° and 360° wash patterns.

For optimal efficiency use a pre-filter or strainer to prevent particulate clogging.