Sanitary, Cleaning that meets 3-A standards

Alfa Laval TJ SaniMega SB/3-A Rotary Spray Head

Application
The Alfa Laval Toftejorg SaniMega SB Rotary Spray Head is designed with respect to Self-Cleaning, Self-Draining and Inspectability. Its novel patented One-clip assembly offers easy installation, disassembly and inspection without compromising cleanability and drainability. The Toftejorg SaniMega SB is an efficient replacement for the traditional Static Spray Ball as it offers liquid impact on the entire tank wall that lies within the spray pattern – a 270° or a 360° pattern; both at a lower flow and high flow rate at equally low pressure.

Working principle
The flow of cleaning media causes the spray head of the Toftejorg SaniMega SB to rotate on a liquid film (Slide Bearing), with fans of water laid out in a swirling pattern on the entire perimeter within the spray pattern. This generates a vibrating impact in the impact zone and a dynamic cascading flow that covers all internal surfaces of the tank, vessel or reactor. The Self-Cleaning feature is due to the unique design that includes cleaning of the down pipe.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Lubricant:</th>
<th>Lubrication by rinse/cleaning fluid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetting radius:</td>
<td>Max. 6 m</td>
</tr>
<tr>
<td>Impact cleaning radius:</td>
<td>Max. 3 m</td>
</tr>
<tr>
<td>Steam or gas (air):</td>
<td>Not supported – contact AL</td>
</tr>
</tbody>
</table>

Pressure
- Working pressure: 1-4 bar
- Recommended pressure: 2-3 bar

Spray Pattern
- 360°
- 270° up

Standard Design
The Toftejorg SaniMega SB can be supplied with 3.1 Certificates for metallic parts and 3-A Conformity* on its plastic part.
*Implies that the material complies with FDA 21CFR.

Sizing/selection and installation drawing are available. Contact Alfa Laval for recommendations.

PHYSICAL DATA

Material
- Metallic parts: AISI 316L
- Non-metallic parts: PEEK 450G
- Surface finish: Ra 0.8µm

Temperature
- Max. working temperature: 95°C
- Max. ambient temperature: 150°C

Weight: 0.61 kg

Connections
- Clip-on: 2" BPE US
- Weld-on: 2" BPE US*

Clip
- Easy-on/off clip (ø5.0 mm)
- Clip needed for both clip-on and weld-on versions to assemble the machine.

Recommended tank size: 68-227 m³

Certificates
- 2.2 Material Certificate and EHEDG and 3-A.
- According to 3.1 Material Certificate and ATEX.
For Clip-on models, the flow rate is increased by approx. 2 m³/h.

**Note:** The inlet pressure has been taken immediately before the inlet to the machine. In order to achieve the performance indicated on the curves, the pressure drop in the supply lines between pump and machine must be taken into consideration and the water temperature during testing was approx. 20°C.

**Dimensions (mm)**

<table>
<thead>
<tr>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>G</th>
<th>E</th>
<th>ID</th>
<th>OD</th>
<th>t</th>
<th>Clp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clip-on 2&quot; BPE US</td>
<td>121</td>
<td>Ø67.4</td>
<td>Ø5.1</td>
<td>25.4</td>
<td>Ø51.1</td>
<td></td>
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<tr>
<td>Weld-on** 2&quot; BPE US</td>
<td>141.6</td>
<td>Ø67.4</td>
<td>Ø50.8</td>
<td>1.2</td>
<td></td>
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</tbody>
</table>

**Weld-on version only meets the requirements of the 3-A Sanitary Standard 78-01 if installed according to the user manual.**