Fast, effective impact cleaning for small tanks and IBCs
Alfa Laval GJ 9

Application
The Alfa Laval GJ 9 is part of the world-renowned Gamajet range of high impact tank cleaning devices. The device offers compact cleaning for small tanks, totes and intermediate bulk containers (IBCs) in both industrial and hygienic applications. With fewer parts and a highly durable design, the Alfa Laval GJ 9 provides superior performance and is the most versatile rotary jet head available. This device readily passes through 76 mm openings and can handle high pressures and temperatures, enabling quick and easy cleaning of small totes/IBCs, tanks, trash carts, and much more. Companies are able to clean in-house and in half the time, saving a substantial amount of time, water, and money.

Working principle
The Gamajet range of high impact tank cleaning devices combine pressure and flow to create high impact cleaning jets. Cleaning occurs at the point at which the concentrated stream impacts the surface. It is this impact and the tangential force that radiates from that point which blasts contaminants from the surface, scouring the tank interior. In conjunction with this impact, the device is engineered to rotate in a precise, repeatable and reliable, 360° pattern. This full-coverage, global indexing pattern ensures the entire tank interior is cleaned, every time.

TECHNICAL DATA
Lubricant ................... Food grade
Max. throw length ............. 1.2 - 6 m
Pressure
Working pressure .............. 3 - 70 bar
Recommended pressure ........ 4 - 40 bar
Cleaning Pattern
First Cycle
Full Pattern

The above drawings show the cleaning pattern achieved on a cylindrical horizontal vessel. The difference between the first cycle and the full pattern represents the number of additional cycles available to increase the density of the cleaning.

Certificate
2.1 material certificate

PHYSICAL DATA
Materials
1.4404 (316L), PPS, PTFE, FKM (EPDM and FFKM available).

Temperature
Max. working temperature ........ 95°C
Max. ambient temperature .......... 140°C
Weight ..................... 2.2 kg

Connections
Standard thread ................. ½" Rp NPT, female/ 1 ½" camlock
Available option .................. ½" BSP, female/ 1 ½" camlock, 1 ½" tube weld on

Options
Electronic rotation sensor to verify 3D coverage.

Caution
Do not use for gas evacuation or air dispersion.
Disclaimer: Information in this product data leaflet is intended for general guidance purposes. Specific data for device selection and sizing is available upon request.

### Flow Rate

<table>
<thead>
<tr>
<th>Nozzle</th>
<th>m³/h</th>
<th>USgpm</th>
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<tbody>
<tr>
<td>0.9</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>1.4</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>1.9</td>
<td>6</td>
<td>12</td>
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<tr>
<td>2.4</td>
<td>7</td>
<td>16</td>
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<td>2.9</td>
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<td>3.4</td>
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<td>36</td>
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<td>5.4</td>
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### Impact Throw Length

<table>
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<tr>
<th>Nozzle</th>
<th>m³/h</th>
<th>USgpm</th>
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</thead>
<tbody>
<tr>
<td>3.2mm</td>
<td>50</td>
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</tr>
<tr>
<td>3.4mm</td>
<td>100</td>
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<td>3.8mm</td>
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<td>30</td>
</tr>
<tr>
<td>4.2mm</td>
<td>200</td>
<td>40</td>
</tr>
<tr>
<td>4.7mm</td>
<td>250</td>
<td>50</td>
</tr>
<tr>
<td>5.1mm</td>
<td>300</td>
<td>60</td>
</tr>
<tr>
<td>5.7mm</td>
<td>350</td>
<td>70</td>
</tr>
<tr>
<td>6.2mm</td>
<td>400</td>
<td>80</td>
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</table>

### Dimensions

<table>
<thead>
<tr>
<th>Dimension (mm)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<tbody>
<tr>
<td>NOTE</td>
<td>223</td>
<td>177</td>
<td>54</td>
<td>48</td>
<td>71</td>
<td>72</td>
<td>96</td>
</tr>
</tbody>
</table>

NOTE 1: 3/4" FNPT/1-1/4" CAMLOCK OR 1-1/2" Tri-Clamp
Standard Design
The choice of nozzle diameters can optimize jet impact length and flow rate at the desired pressure. As standard documentation, the Alfa Laval GJ 9 can be supplied with a "Declaration of Conformity" for material specifications.

TRAX simulation tool
TRAX is a unique software that simulates how the Alfa Laval GJ 9 performs in a specific tank or vessel. The simulation gives information on wetting intensity, pattern mesh width and cleaning jet velocity. This information is used to determine the best location of the tank cleaning device and the correct combination of flow, time, and pressure to implement.
A TRAX demo containing different cleaning simulations covering a variety of applications can be used as a reference and documentation for tank cleaning applications. The TRAX demo is free and available upon request.

Wetting intensity

<table>
<thead>
<tr>
<th>TD 523-208 (US gallon/ft²)</th>
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<tbody>
<tr>
<td>0.06</td>
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<tr>
<td>0.17</td>
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</table>

D5.1m, H8.1m, 2xØ4.76mm Time = 2.25 min.
D6.1m, H8.1m, 2xØ4.76mm Time = 9 min.