Powerful tank cleaning for small barrels and drums

Alfa Laval GJ 7

Application
The smallest rotary impingement tank cleaning device, the Alfa Laval GJ 7 easily fits through a 3.8 cm access hole. Capable of operating at both high and low pressures, this device delivers 2.27 kg. of cleaning force at .76 m. The Alfa Laval GJ 7 offers quick and easy cleaning of barrels, drums, and other small vessels in a wide variety of industries. The device is part of the world-renowned Gamajet range of high impact tank cleaning devices.

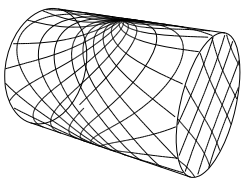
Working principle
The Gamajet range of high impact tank cleaning devices combine pressure and flow to create high impact cleaning jets. Cleaning occurs at the point at which the concentrated stream impacts the surface. It is this impact and the tangential force that radiates from that point which blasts 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

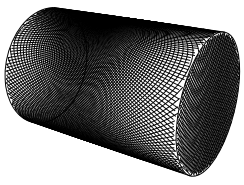
Lubricant . . . . . Food grade
Max. throw length . . . . . 2 - 2.5 m

Pressure
Working pressure . . . . . 3.5 - 83 bar
Recommended pressure . . . . . 5.5 - 55 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

CE

PHYSICAL DATA

Materials
1.4404 (316L), PTFE, EPDM (FKM and FFKM available)

Temperature
Max. working temperature . . . . . 95°C
Max. ambient temperature . . . . . 140°C

Weight . . . . . 6.8 kg.

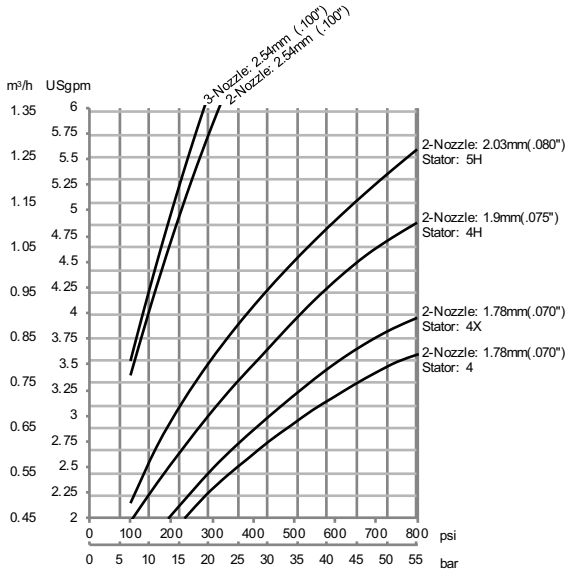
Connections
Standard thread . . . . . ½" NPT, ½" BSP

Options
Electronic rotation sensor to verify 3D coverage.

Caution
Do not use for gas evacuation or air dispersion.

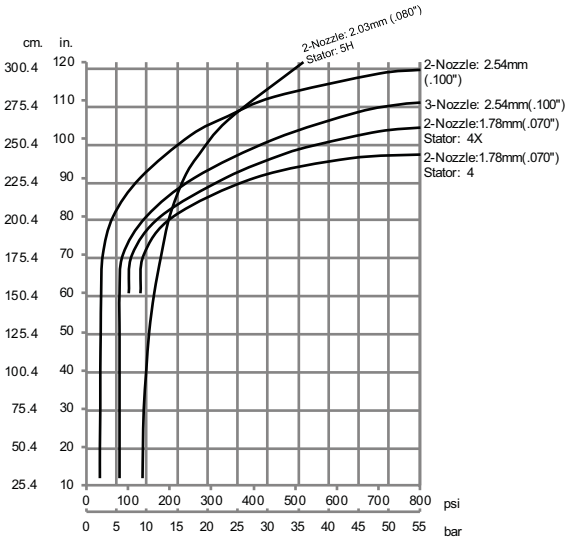
Disclaimer: Information in this product data leaflet is intended for general guidance purposes. Specific data for device selection and sizing is available upon request.

Flow Rate



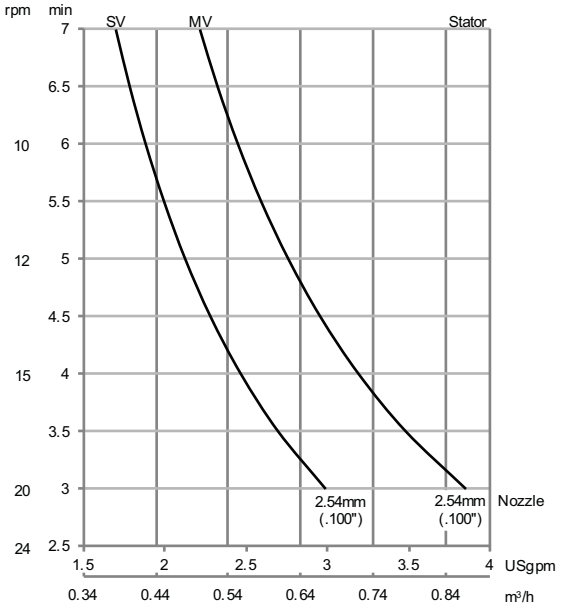
Inlet pressure

Impact Throw Length

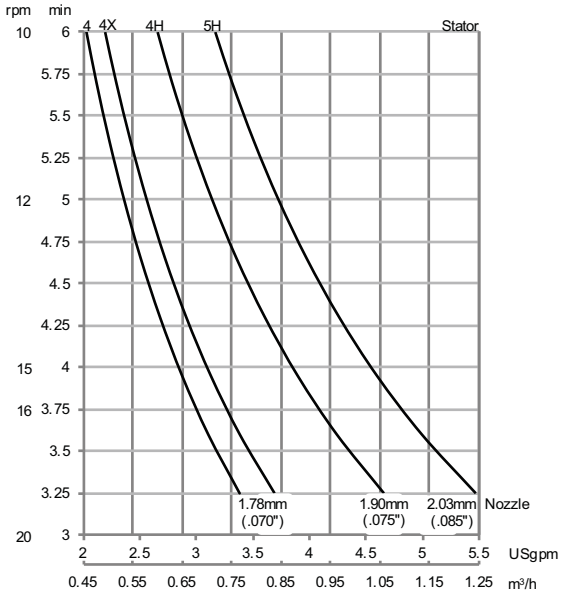


Inlet pressure
- - - Wetting, — Impact cleaning

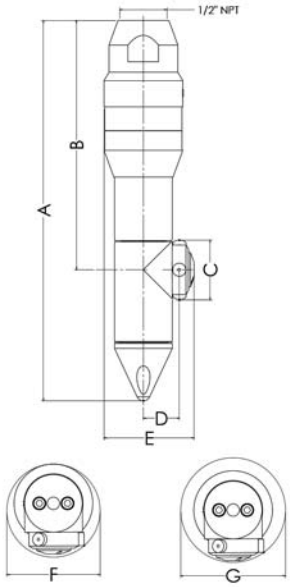
Cleaning Time .100 NOZ



Cleaning Time .7-.8 NOZ



Dimensions (mm)(in)



A	B	C	D	E	F	G
176	115	27	17	42	43	48

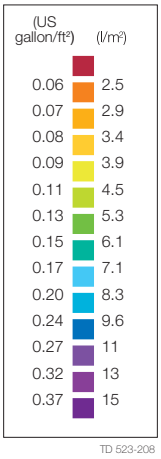
Standard Design

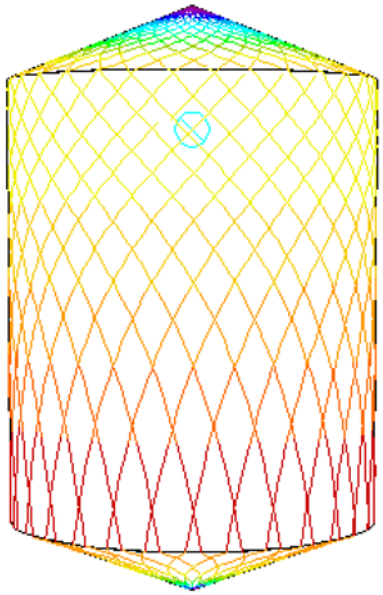
The choice of nozzle diameters can optimize jet impact length and flow rate at the desired pressure. As standard documentation, the Alfa Laval GJ 7 can be supplied with a “Declaration of Conformity” for material specifications.

TRAX simulation tool

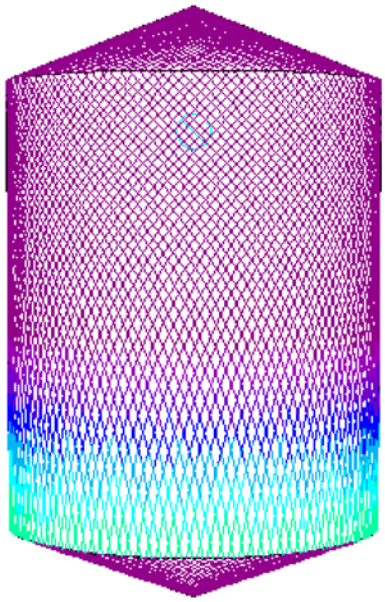
TRAX is a unique software that simulates how the Alfa Laval GJ 7 performs in a specific tank or vessel. The simulation gives information on wetting intensity, pattern mesh width and cleaning jet velocity. This information is used to determine the best location of the tank cleaning device and the correct 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





D1.8m, H2.8m, 2xØ2.03mm Time = 1.56 min.



D1.8m, H2.8m, 2xØ2.03mm Time = 6.25 min.

How to contact Alfa Laval
Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.