



Superior tank cleaning for industrial environments

Alfa Laval Gamajet 4

Application

The Alfa Laval Gamajet 4 provides high-impact cleaning for large-sized tanks with diameters over 4.6 m (15'). This device is fully capable of high-concentration chemical recirculation cleaning and high-pressure, low-volume water jet scrubbing in fixed, automated CIP systems. The Alfa Laval Gamajet 4 is designed to remove the toughest residues from large tanks in the ethanol, paper, pulp, chemical, steel, industrial fermentation, and many other industries that require high impact tank cleaning. The Alfa Laval Gamajet 4 allows companies to spend less time cleaning and more time producing.

Working principle

The Alfa Laval Gamajet 4 tank cleaning device combines 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.



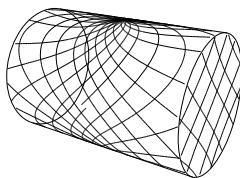
TECHNICAL DATA

Lubricant Food grade
Max. throw length 30.5 m (100 ft.)

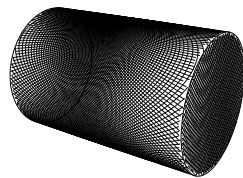
Pressure

Working pressure 3 - 21 bar (40 - 300 PSI)
Recommended pressure 3.5 - 14 bar (50 - 200 PSI)

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, FKM (EPDM and FFKM available)

Temperature

Max. working temperature 95°C (203°F)
Max. ambient temperature 140°C (284°F)

Weight

. 12.7 - 13.2kg (28 - 29 lbs.)

Connections

Standard thread 2" NPT, 2" BSP

Options

Electronic rotation sensor to verify 3D coverage. 180° and 105° directional version available.

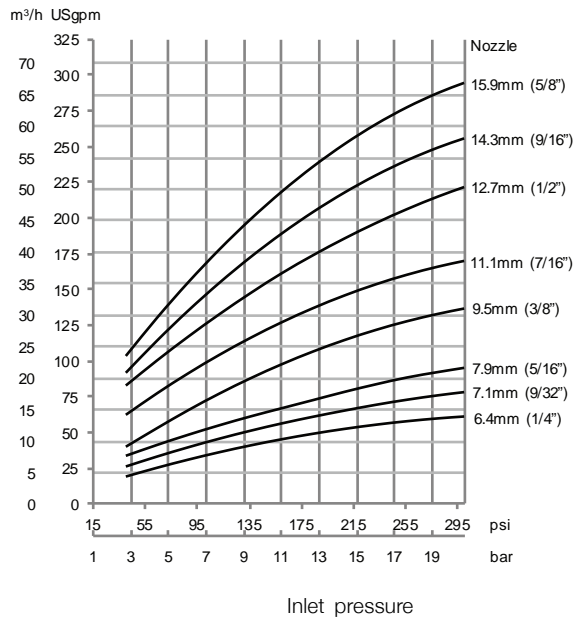
Caution

Do not use for gas evacuation or air dispersion.

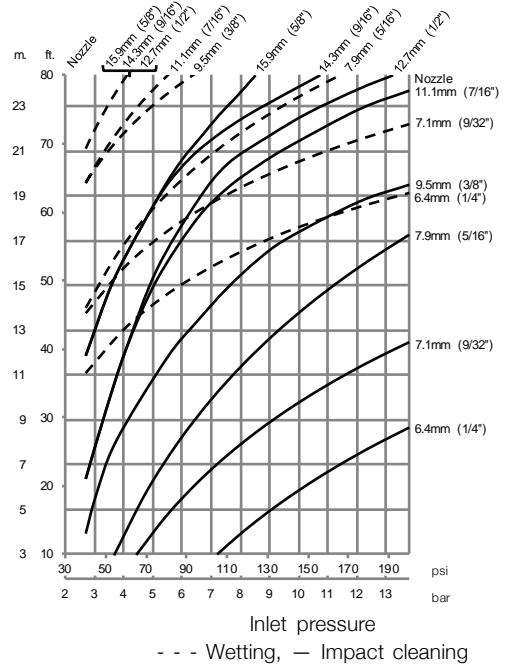


Disclaimer: Information in this product data leaflet is intended for general guidance purposes. Specific data for device selection and sizing is available upon request.

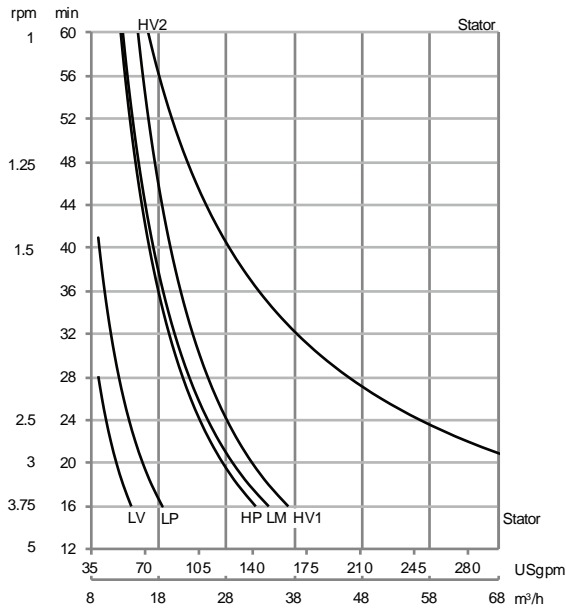
Flow Rate



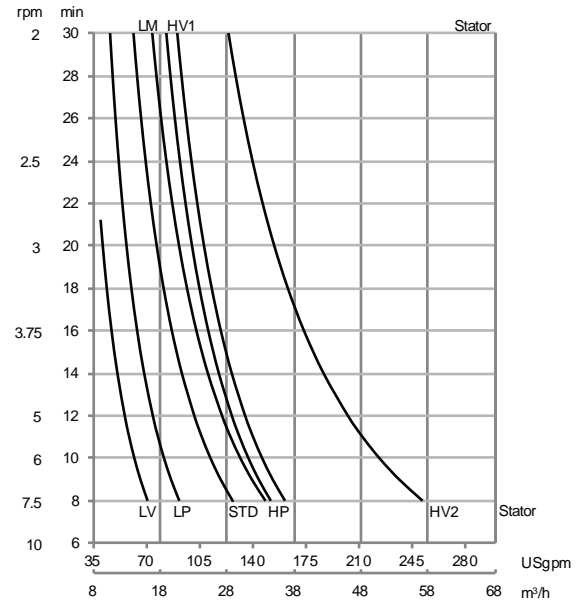
Impact Throw Length



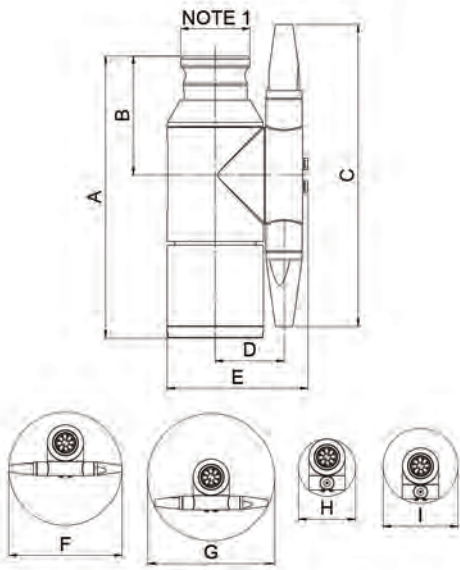
Cleaning Time (Gear Ratio 655:1)



Cleaning Time (Gear Ratio 273:1)



Dimensions



Dimensions

	A	B	C	D	E	F	G	H	I
mm	308	131	331	76	155	331	372	168	219
in	12.13	5.14	13	2.97	6.07	13.03	14.62	6.59	8.61

NOTE 1: 2" NPT FEMALE/ 2-1/2" CAMLOCK. 2" NPT FEMALE/ 2-1/2" NST

Standard Design

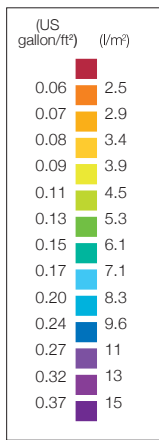
The choice of nozzle diameters can optimize jet impact length and flow rate at the desired pressure. As standard documentation, the Alfa Laval Gamajet 4 can be supplied with a "Declaration of Conformity" for material specifications.

TRAX simulation tool

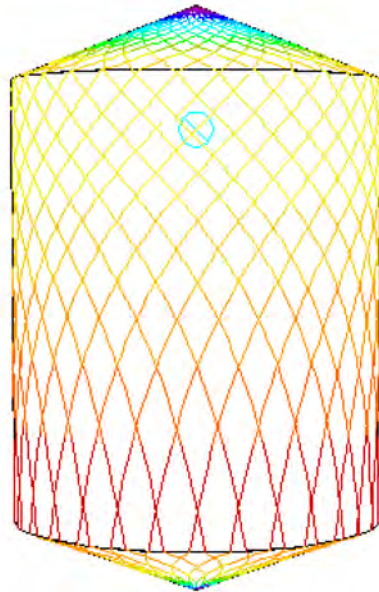
TRAX is a unique software that simulates how the Alfa Laval Gamajet 4 performs in a specific tank or vessel. The simulation gives information on wetting intensity, pattern mesh width and cleaning jet velocity. This information is used to determine the best location of the tank cleaning device and the 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



TD 523-208



D21.3m (840"), H34m (1,340"), 2xØ11.11mm (2xØ7/16")
Time = 6 min.



D21.3m (840"), H34m (1,340"), 2xØ11.11mm (2xØ7/16")
Time = 24 min.

Alfa Laval reserves the right to change specifications without prior notification. ALFA LAVAL is a trademark registered and owned by Alfa Laval Corporate AB.

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.