SprayNozzle ENGINEERING
Total Spraying Solutions

Optimal tank cleaning for hygienic applications

Alfa Laval GJ A6

Application
Setting high standards for cleanliness is critical for product quality and plant productivity. The Alfa Laval GJ A6 tank cleaning device delivers powerful tank cleaning with reliable, repeatable, and verifiable results to meet the stringent hygienic demands of the food, beverage and personal care industries. Designed to fit through a 7.62 cm (3") sanitary fitting, the Alfa Laval GJ A6 is ideal for retrofit applications to replace resource-heavy static spray balls and costly manual cleaning.

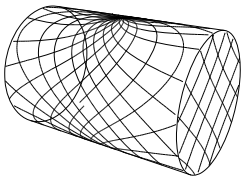
Working principle
The GJ range of high impact tank cleaning devices combine pressure and flow to create high impact cleaning jets. Cleaning occurs at the point at which the concentrated stream impacts the surface. It is this impact and the tangential force that radiates from that point which blasts contaminants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

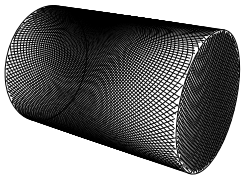
Lubricant . . . . . Self-lubricating
Max. throw length . . . . . 2 - 6 m (6 - 19 ft.)

Pressure
Working pressure . . . . . 2 - 27+ bar (30 - 400+ PSI)
Recommended pressure . . . . . 2 - 10 bar (30 - 150 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), PEEK, EPDM (FKM and FFKM availble)

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

Weight . . . . . 1.8 kg (4 lbs.)
Surface finish . . . . . 0.5 µm (20 Ra)

Connections
Standard thread . . . . . 1" US BPE SCH 5/IDØ25,7 Clip-on
Available option . . . . . DN25 Clip-on DIN 11850 range 1,
DN25 Clip-on DIN 11850 range 2,
ODØ38,1/1½" ISO 2037 Weld-on

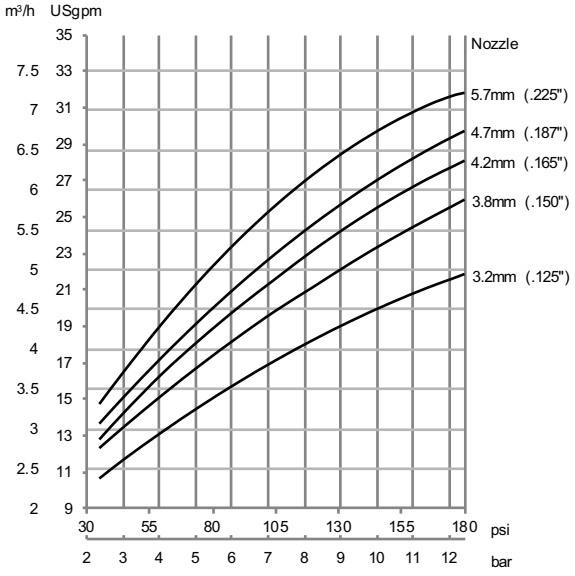
Options
Electronic rotation sensor to verify 3D coverage

Caution
Do not use for gas evacuation or air dispersion

CE

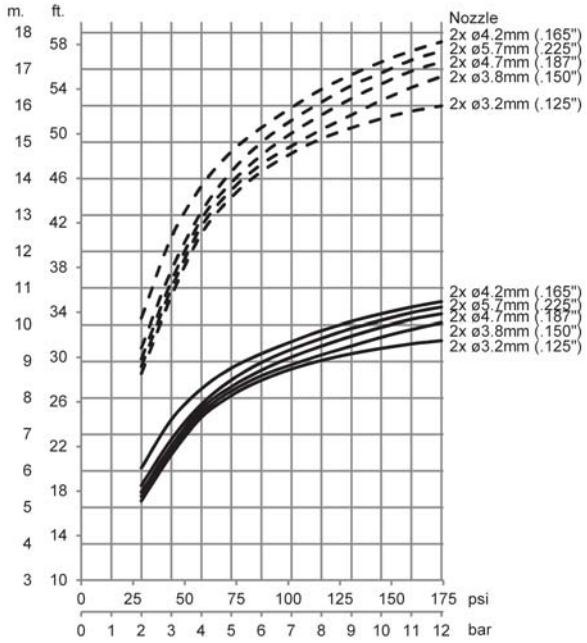
Disclaimer: Information in this product data leaflet is intended for general guidance purposes. Specific data for device selection and sizing is available upon request.

Flow Rate



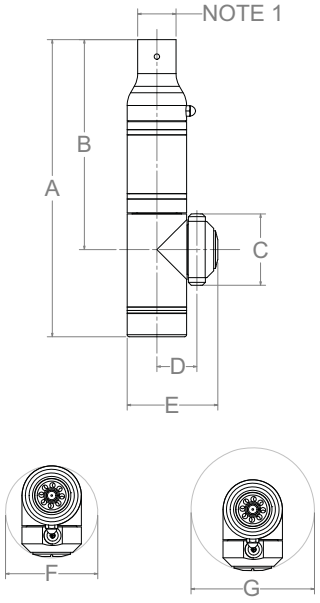
Inlet pressure

Impact Throw Length

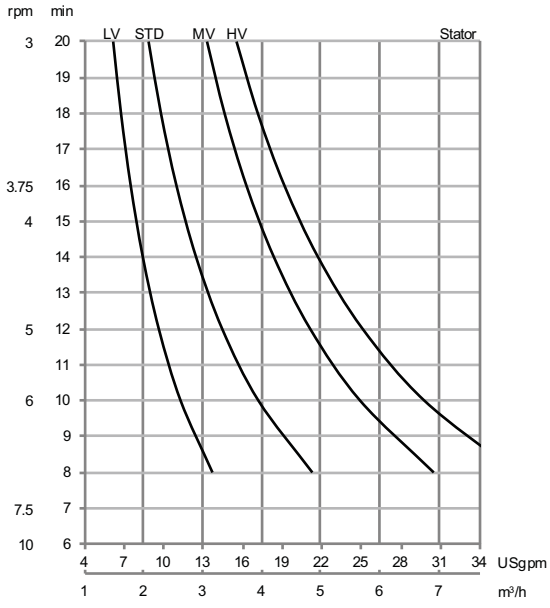


Inlet pressure
- - - Wetting, — Impact cleaning

Dimensions



Cleaning Time



	A	B	C	D	E	F	G
mm	223	158	54	30	68	70	93
in	8.75	6.19	2.1	1.18	2.67	2.72	3.64

NOTE 1: 1" R-CLIP COLLAR OR 1-1/2" BUTT WELD

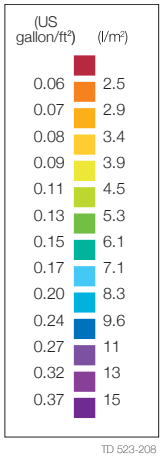
Standard Design

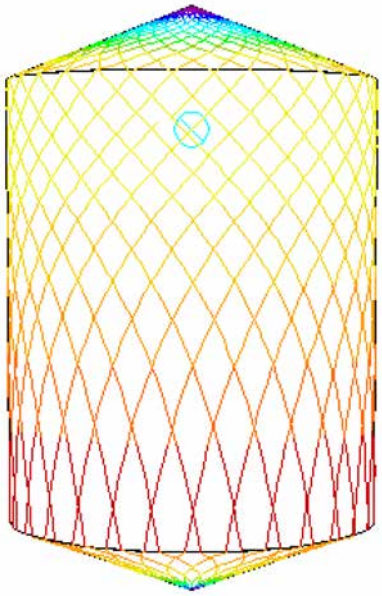
The choice of nozzle diameters can optimize jet impact length and flow rate at the desired pressure. As standard documentation, the Alfa Laval GJ A6 can be supplied with a “Declaration of Conformity” for material specifications.

TRAX simulation tool

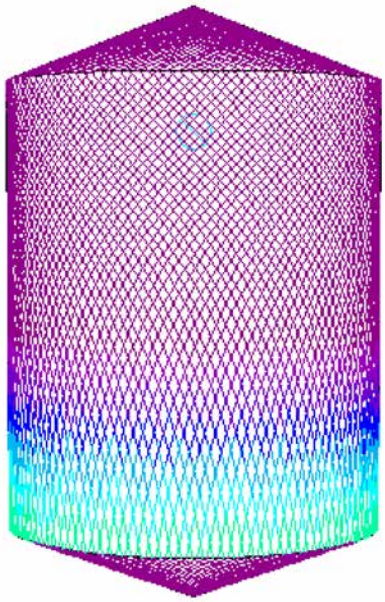
TRAX is a unique software that simulates how the Alfa Laval GJ A6 performs in a specific tank or vessel. The simulation gives information on wetting intensity, pattern mesh width and cleaning jet velocity. This information is used to determine the best location of the tank cleaning device and the correct 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





D3m (120”), H4.8m (190”), 2xØ4.76mm (2xØ3/16”) Time = 3.25 min.



D3m (120”), H4.8m (190”), 2xØ4.76mm (2xØ3/16”) Time = 13 min.