Alfa Laval GJ A6

Optimal tank cleaning for hygienic applications

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.

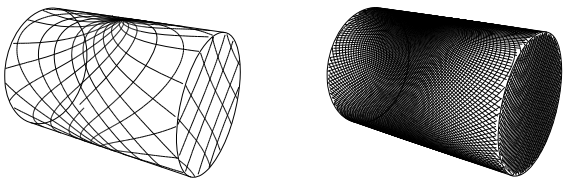
TECHNICAL DATA

Lubricant	Self-lubricating
Max. throw length	2 - 6 m

Pressure

Working pressure	2 - 27+ bar
Recommended pressure	2 - 10 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), PEEK*, EPDM* (FKM* and FFKM*), PPS*
* FDA compliance 21CFR§177

Temperature

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

Weight	1.8 kg
Surface finish	0.8 µm

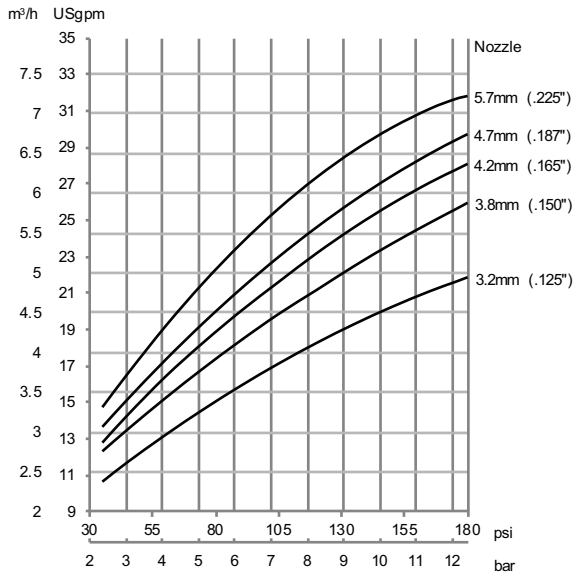
Connections

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, 1½" ASME BPE Weld-on

Caution

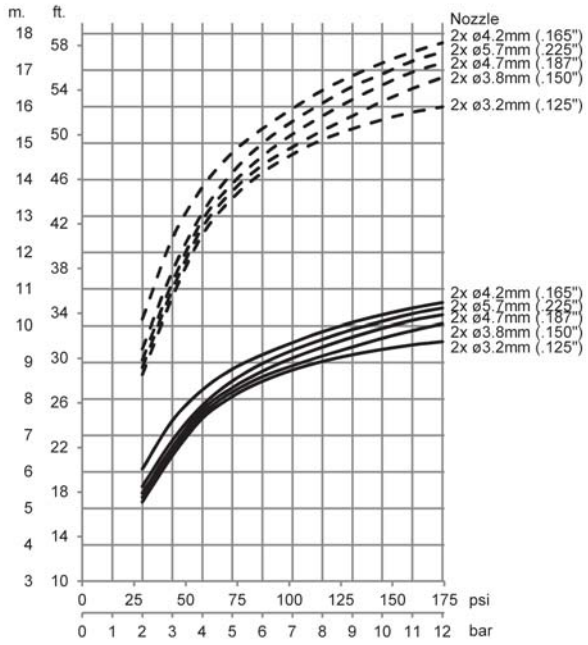
Avoid hydraulic shock, hard and abrasive particles in the cleaning liquid, as this can cause increased wear and/or damage of internal mechanisms. In general, a filter in the supply line is recommended. Do not use for gas evacuation or air dispersion. For steaming we refer to the manual.

Flow Rate



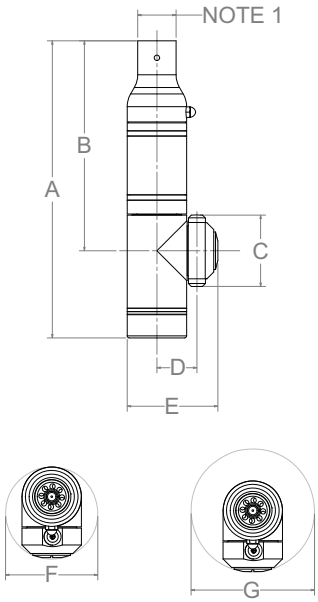
Inlet pressure

Impact Throw Length

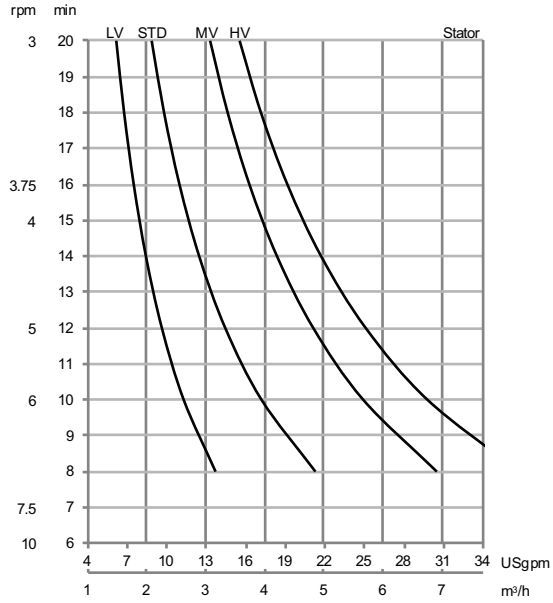


Inlet pressure
- - - Wetting, — Impact cleaning

Dimensions



Cleaning Time



	A	B	C	D	E	F	G
mm	223	158	54	30	68	70	93

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

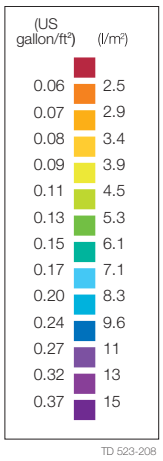
Standard Design

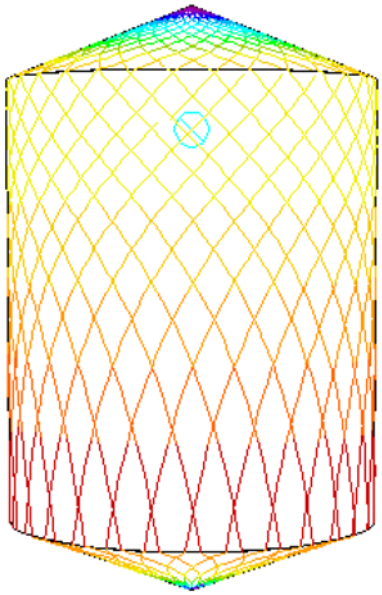
The choice of nozzle diameters can optimize jet impact length and flow rate at the desired pressure. As standard documentation, the Alfa Laval GJ A6 can be supplied with a “Declaration of Conformity” for material specifications.

TRAX simulation tool

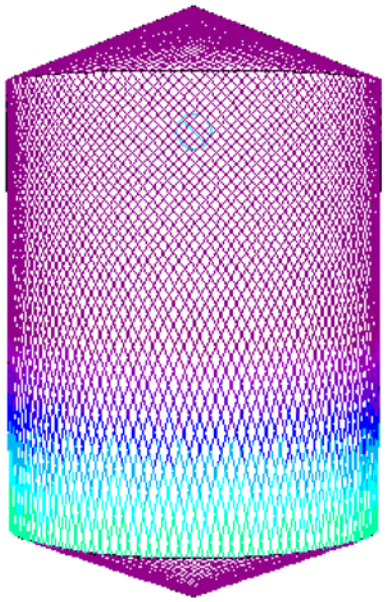
TRAX is a unique software that simulates how the Alfa Laval GJ A6 performs in a specific tank or vessel. The simulation gives information on wetting intensity, pattern mesh width and cleaning jet velocity. This information is used to determine the best location of the tank cleaning device and the correct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

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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.