Optimal tank cleaning through 2" openings

Alfa Laval GJ A2

Application
Designed to fit through a 5.08 cm (2”) sanitary fitting, the Alfa Laval GJ A2 is ideal for retrofit applications to replace resource-heavy static spray balls and costly manual cleaning. Compact and efficient, the Alfa Laval GJ A2 can accommodate typical opening sizes while delivering the improved cleaning effectiveness and range of rotary impingement. The efficient and durable design is ideal for tank cleaning in hygienic environments such as food and beverage and personal care applications.

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.

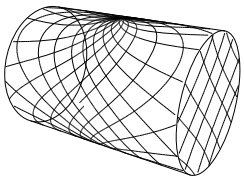
TECHNICAL DATA

Lubricant	Self-lubricating
Max. throw length	4 - 5 m (12 - 14 ft.)

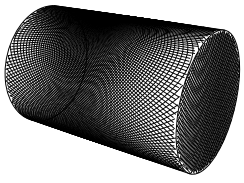
Pressure

Working pressure	2.75 - 14 bar (40 - 200 PSI)
Recommended pressure	4 - 10 bar (50 - 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
316L, PPS, PTFE, EPDM (FKM and FFKM available)

Temperature

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

Weight	2.26 kg (5 lbs.)
Surface finish	0.8 µm (32 Ra)

Connections

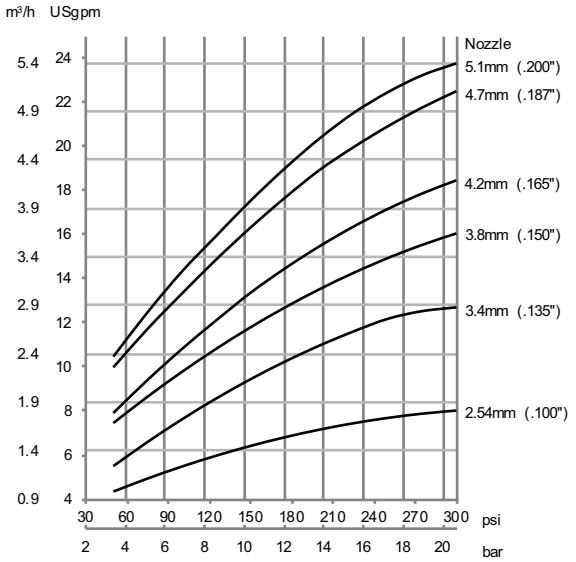
Standard thread	1" ISO 2852 Clamp
Available option	3/4" NPT female Thread 3/4" Rp female Thread ODØ38,1/1½" ISO 2037 Weld-on

Options
Electronic rotation sensor to verify 3D coverage

Caution
Do not use for gas evacuation or air dispersion

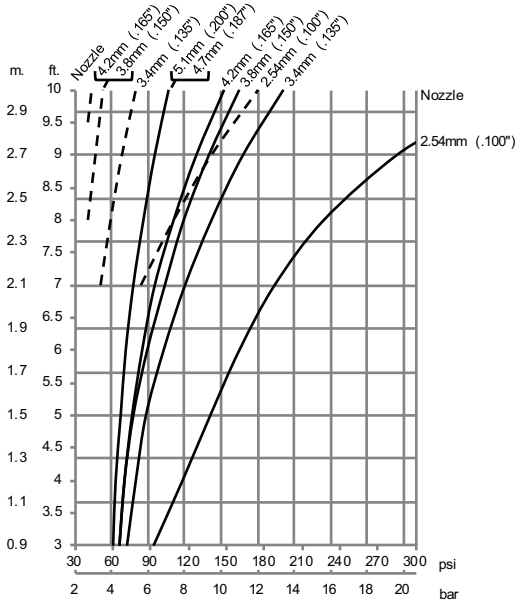
Disclaimer: Information in this product data leaflet is intended for general guidance purposes. Specific data for device selection and sizing is available upon request.

Flow Rate (2 nozzle)



Inlet pressure

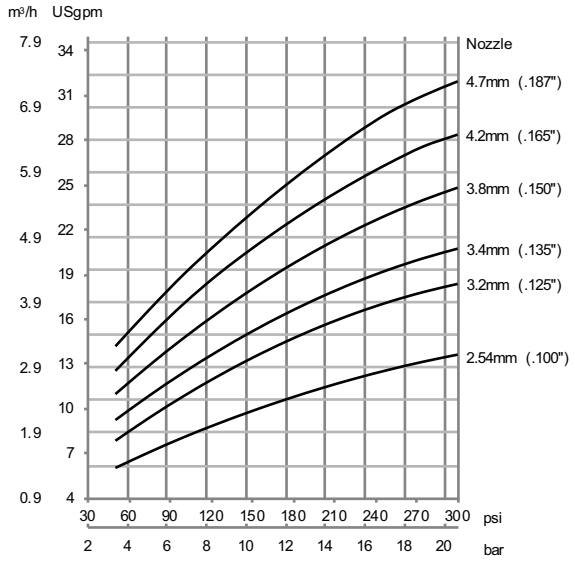
Impact Throw Length



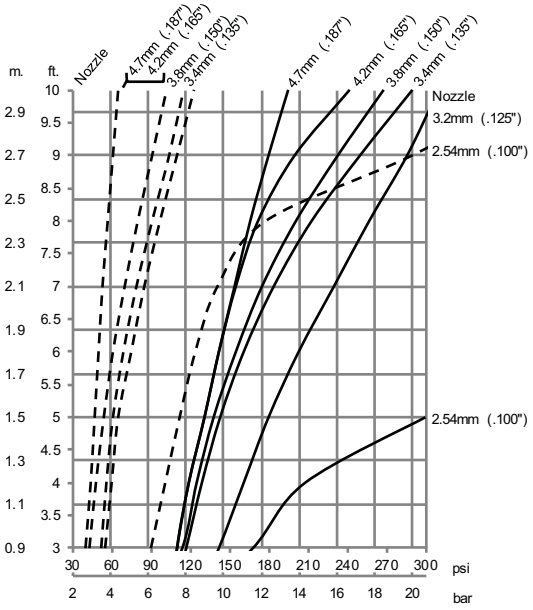
Inlet pressure

- - - Wetting, — Impact

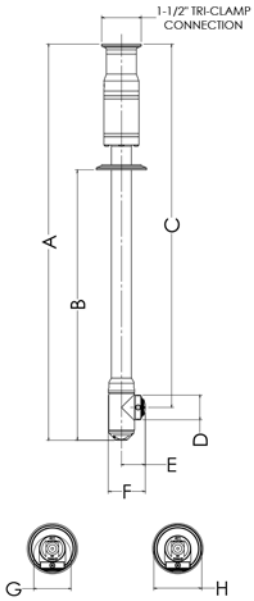
Flow Rate (4 nozzle)



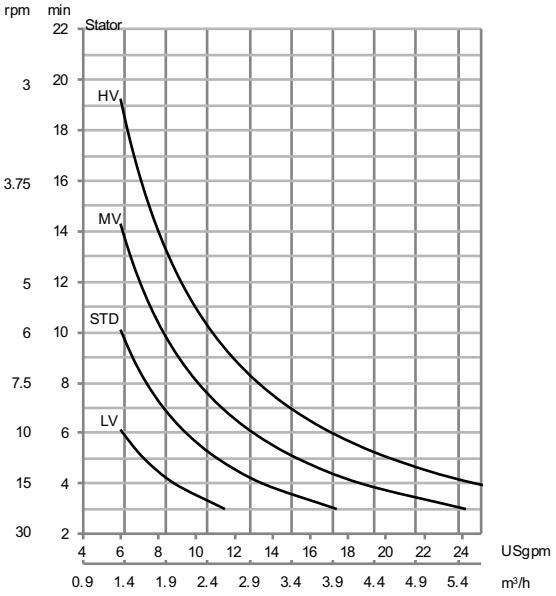
Impact Throw Length (4 nozzle)



Dimensions



Cleaning Time



	A	B	C	D	E	F	G	H
mm	503	343	431	31	30	47	47	61
in	19.8	13.5	18.1	1.2	1.2	1.9	1.9	2.4

Standard Design

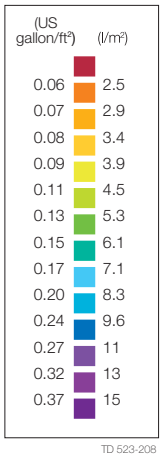
The choice of nozzle diameters can optimize jet impact length and flow rate at the desired pressure. As standard documentation, the Alfa Laval GJ A2 can be supplied with a “Declaration of Conformity” for material specifications.

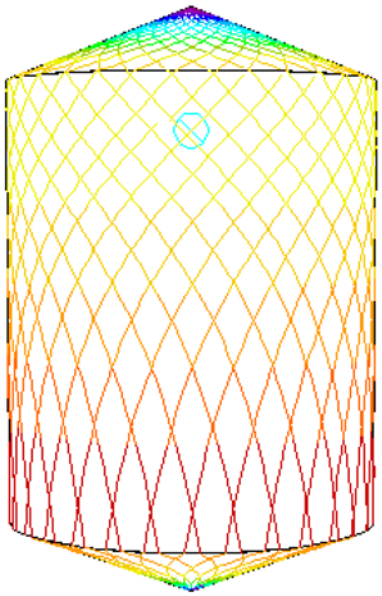
TRAX simulation tool

TRAX is a unique software that simulates how the Alfa Laval GJ A2 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.

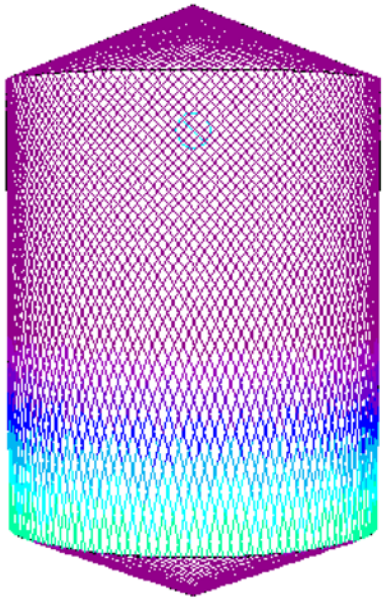
A TRAX demo containing different cleaning simulations covering a variety of applications can be used as a reference and documentation for tank cleaning applications. The TRAX demo is free and available upon request.

Wetting Intensity





D2.2m(85”), H3.6m(140”), 2x3.81mm (2xØ3/16”) Time = 2 min.



D2.2m(85”), H3.6m(140”), 2x3.81mm (2xØ3/16”) Time = 8 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.