



Alfa Laval GJ PF FT

Powerful tank cleaning at a range of pressures and flows

Application

The Alfa Laval GJ PF FT tank cleaning device provides companies with up to 85% savings in water, time, energy, and resources compared to static spray ball tank cleaning. It is ideal for retrofit applications in tanks with capacities between 18.9 m³ - 94.6 m³ (5,000-25,000 gallons) in hygienic applications, such as food and beverage and personal care environments. The Alfa Laval GJ PF FT fits through openings as small as 10 cm (4") and operates at low pressures and flows.

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.



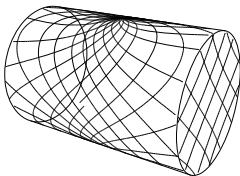
TECHNICAL DATA

Lubricant Self-lubricating with the cleaning fluid
 Max. throw length 14 - 20 m

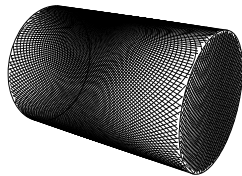
Pressure

Working pressure 3 - 28+ bar
 Recommended pressure 4 - 20 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

316L, PPS*, PTFE*, EPDM* (FKM* and FFKM* available)
 * FDA compliance 21CFR§177

Temperature

Max. working temperature 90°C
 Max. ambient temperature 140°C

Weight 4.5kg

Surface finish 0.8 µm

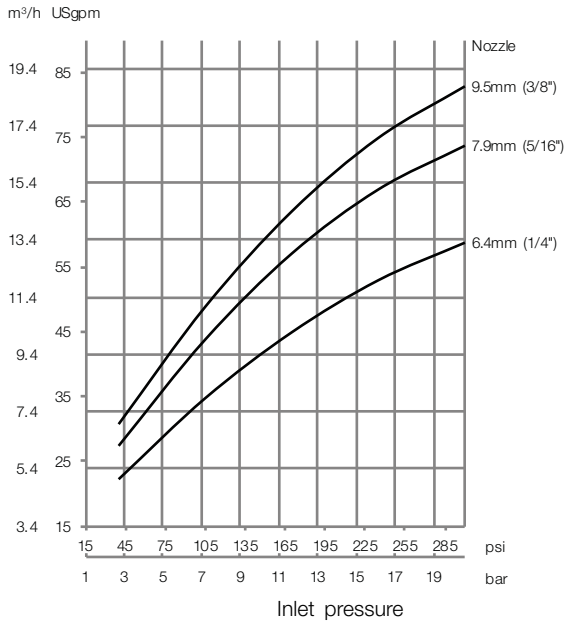
Connections

Standard thread 1½" US/IDØ38,4 Clip-on
 Available option 1½" ISO 2852 Clamp
 1½" NPT female Thread
 1½" Rp female Thread
 DN40 Clip-on DIN 11850 range 1
 DN40 Clip-on DIN 11850 range 2
 ODØ38,1/1½" ISO 2037 Weld-on

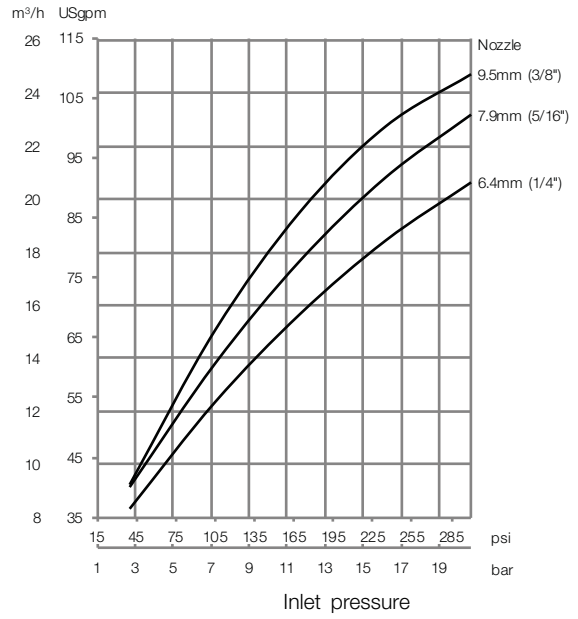
Caution

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.

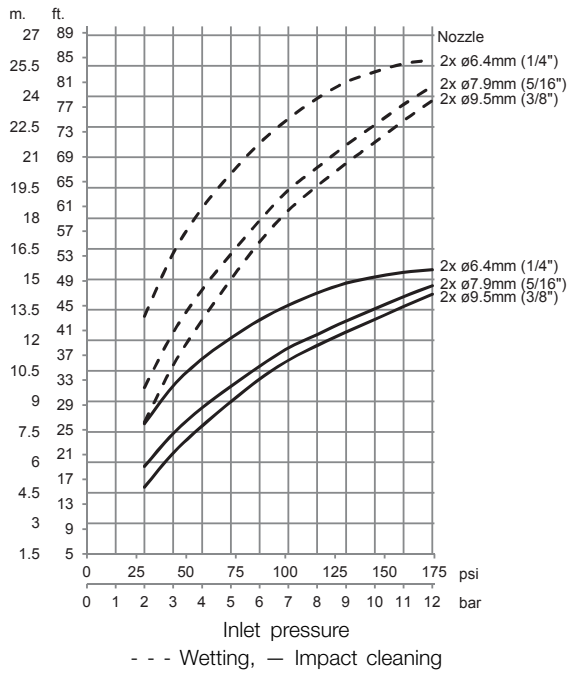
Flow Rate 2-nozzle



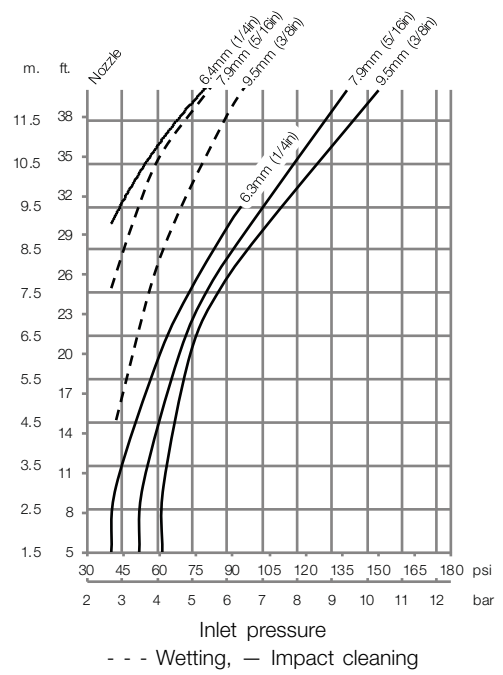
Flow Rate 4-nozzle



Impact 2-nozzle

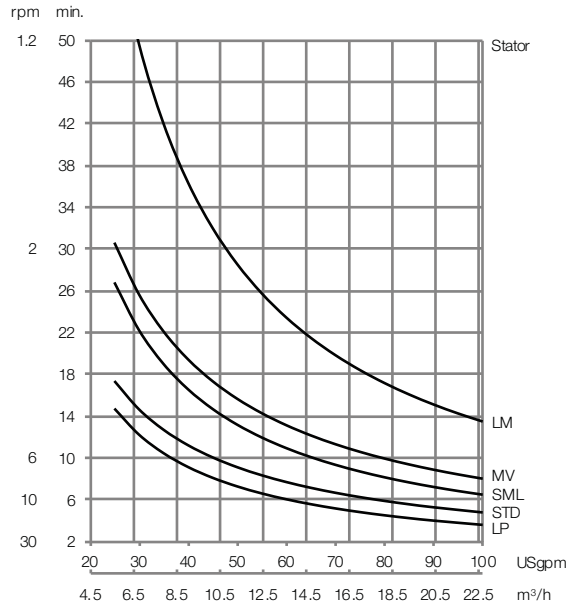


Impact 4-nozzle

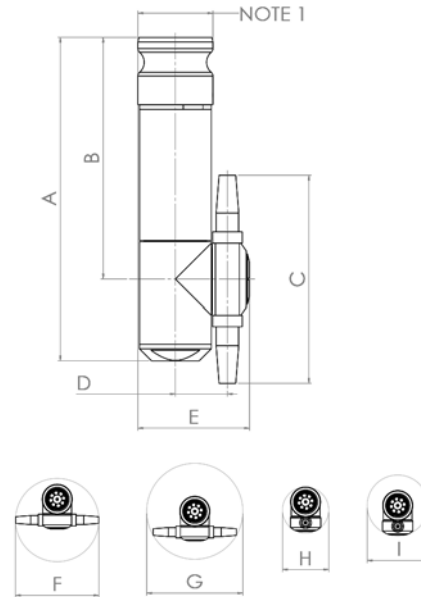


Custom inlets available. Contact your local Alfa Laval representative for details.

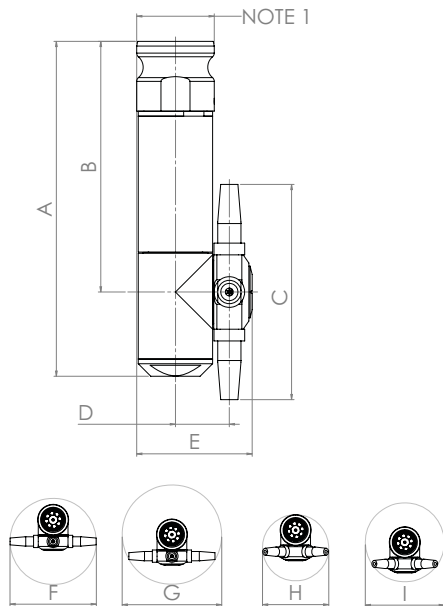
Cleaning Time



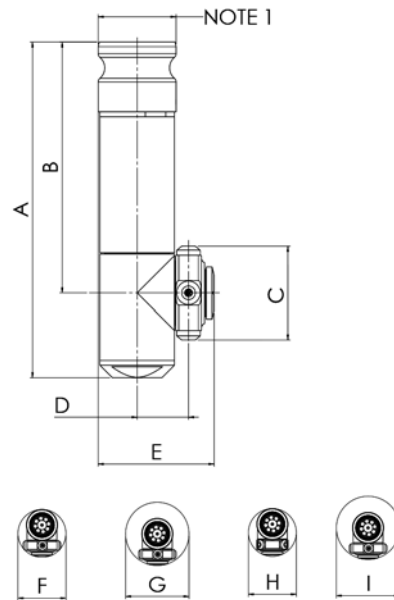
Dimensions 2-nozzle



Dimensions 4-nozzle



Dimensions low-profile



Dimensions 2-nozzle

	A	B	C	D	E	F	G	H	I
mm	272	204	175	44	94	176	202	98	129

NOTE 1: 1-1/2" FNPT/2" CAMLOCK OR 1-1/2" BSP/2" CAMLOCK

Dimensions 4-nozzle

	A	B	C	D	E	F	G	H	I
mm	272	204	175	44	94	176	202	134.47	160.35

NOTE 1: 1-1/2" FNPT/2" CAMLOCK OR 1-1/2" BSP/2" CAMLOCK

Dimensions low-profile version

	A	B	C	D	E	F	G	H	I
mm	272	204	76	42	94	97	129	97	129

NOTE 1: 1-1/2" FNPT/2" CAMLOCK OR 1-1/2" BSP/2" CAMLOCK

Standard Design

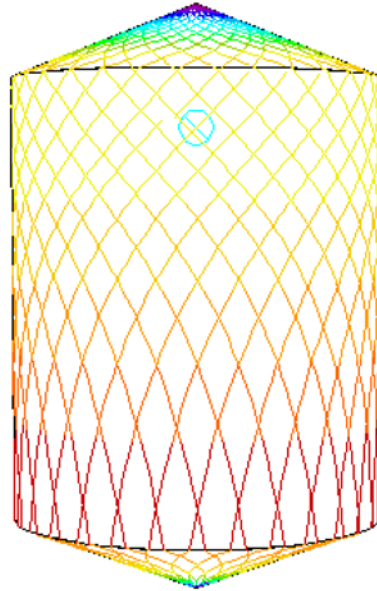
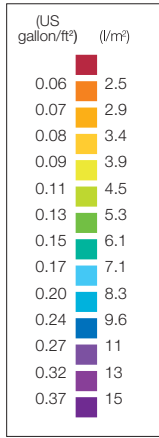
The choice of nozzle diameters can optimize jet impact length and flow rate at the desired pressure. As standard documentation, the Alfa Laval GJ PF FT version can be supplied with a "Declaration of Conformity" for material specifications.

TRAX simulation tool

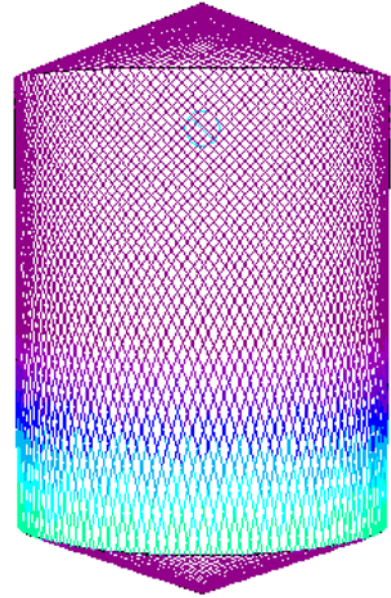
TRAX is a unique software that simulates how the Alfa Laval GJ PF FT version performs in a specific tank or vessel. The simulation gives information on wetting intensity, pattern mesh width and cleaning jet velocity. This information is used to determine the best location of the tank cleaning device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



D9.1m (360"), H14.7m (580"), 2xØ7.94mm (2xØ5/16") Time = 4.25 min.



D9.1m (360"), H14.7m (580"), 2xØ7.94mm (2xØ5/16") Time = 17 min.

Alfa Laval reserves the right to change specifications without prior notification.

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.