Alfa Laval GJ A6

Rotary jet heads

Introduction

The Alfa Laval GJ A6 is a rotary jet head tank cleaning machine for use in hygienic environments. Built to clean tanks from 5-20 m^3, it combines pressure and flow to create high-impact cleaning jets that rotate in a repeatable and reliable 360-degree cleaning pattern.

The GJ A6 minimizes the consumption of water and cleaning media. Easy to customize to meet customer requirements, it allows companies to spend less time cleaning and more time producing.

Applications

The Alfa Laval GJ A6 is designed for the removal of the toughest residues from hygienic tanks across a broad range of industries, such as the dairy, brewery, beverage, food, and personal care industries.

Due to its slim design, the GJ A6 is ideal to retrofit spray balls, thereby reducing Cleaning-in-Place (CIP) costs and cleaning time.

Benefits

- 60% faster cleaning = more time for production
- Saves up to 70% of your cleaning cost
- High-impact cleaning in a 360° repeatable cleaning pattern
- Cleaning process can be validated using Alfa Laval Rotacheck
- Slim design makes it possible to insert through small tank inlet openings

Standard design

The choice of nozzle diameters can optimize jet impact length and flow rate at the desired pressure.

Alfa Laval offers a wide range of tank cleaning machines suitable for different duties and industries.

An alternative that offers performance similar to the Alfa Laval GJ A6 is the Alfa Laval SaniJet 20, which offers a more hygienic design and an electropolished Ra 0.5 surface finish. The SaniJet 20 is ideal for applications that require 3.1 material certification, ATEX certification, and smooth qualification and validation processes through the Alfa Laval Q-doc documentation package.

Certificate

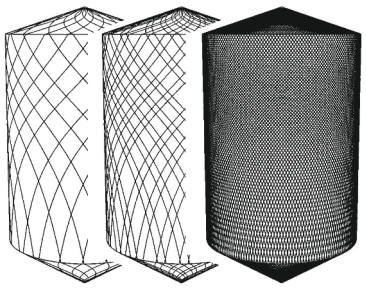
2.1 material certificate

Working principle

The high-impact jet stream from the rotary jet head covers the entire surface 360° of the tank interior in a successively denser pattern. This achieves a powerful mechanical impact with a low volume of water and cleaning media.

The flow of the cleaning fluid makes the nozzles perform a geared rotation around the vertical and horizontal axes. In the first cycle, the nozzles lay out a course pattern on the tank surface. The subsequent cycles gradually make the pattern denser until at full cleaning pattern is reached.

Once the full cleaning pattern is reached, the machine will start over again and continue to perform the next full cleaning pattern.



TECHNICAL DATA

Lubricant:	Lubricated with cleaning fluid

Throw length	
Max. throw length:	2 - 6 m

Pressure	
Working pressure:	2-10+ bar
Recommended pressure:	4-10 bar

PHYSICAL DATA

Materials
1.4404 (316L), PEEK, EPDM[1] (FKM and FFKM), PPS
[1] FDA compliance 21CFR§177

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

Weight	
Weight:	1.8 kg

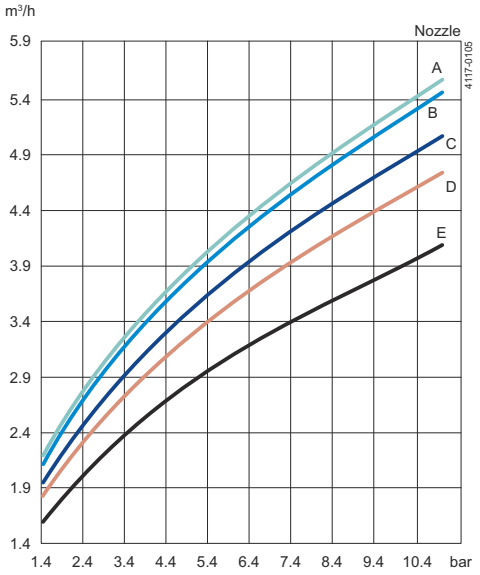
Surface finish	
Surface finish:	0.8 µm

Connections	
Standard inlet connection:	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 3/4" FNPT thread with external 1" male camlock

Caution

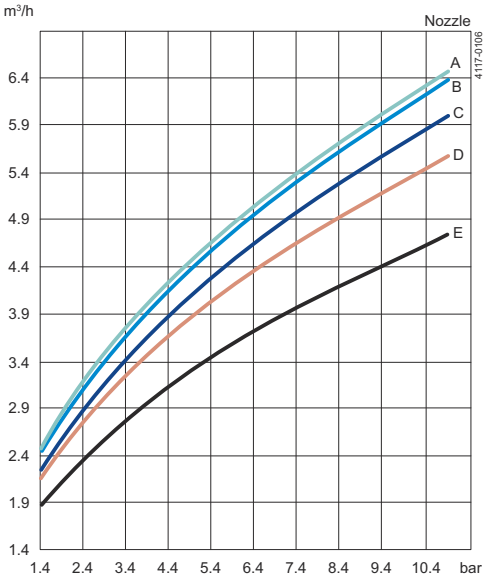
Avoid hydraulic shock, hard and abrasive particles in the cleaning liquid, as this can cause increased wear and/or damage of internal mechanisms. In general, a filter in the supply line is recommended. Do not use for gas evacuation or air dispersion. For steaming we refer to the manual.

Pressure Flow – 2 Nozzles



A = 5.1 mm D = 3.8 mm
B = 4.7 mm E = 3.2 mm
C = 4.2 mm

Pressure Flow – 3 Nozzles



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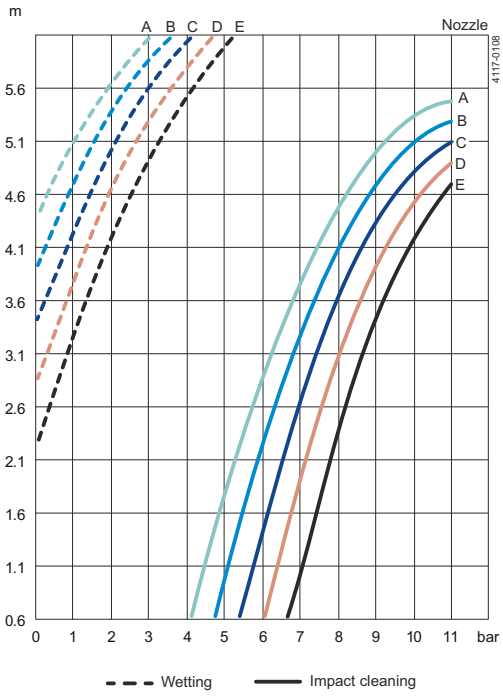
Throw Distance – 2 Nozzles



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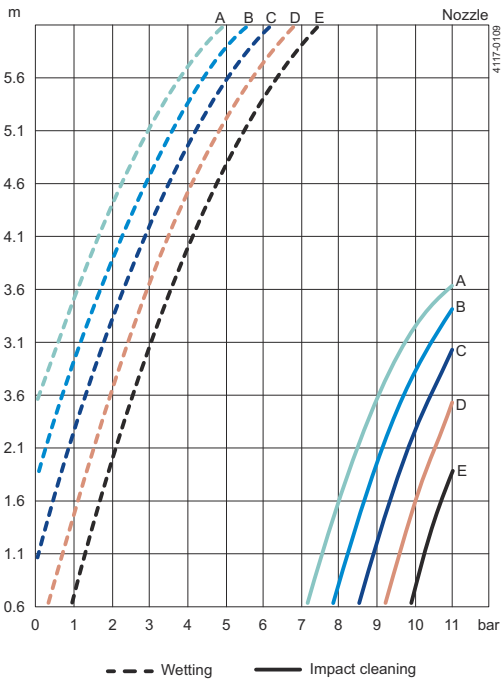
Throw Distance – 3 Nozzles



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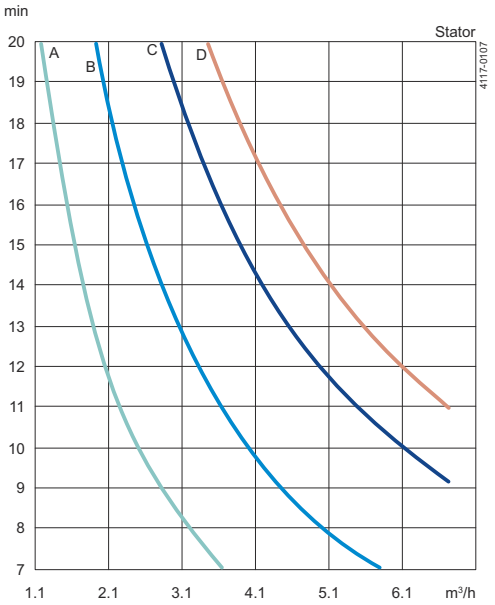
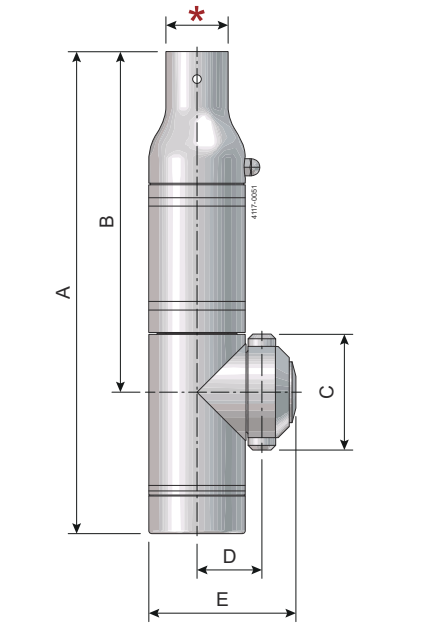
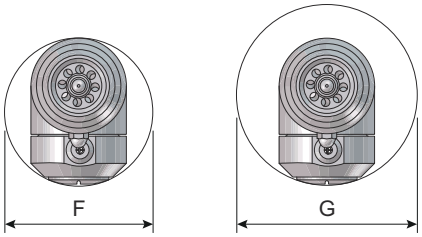
Flow Rate Cycle Time



A = LV
B = STD
C = MV
D = HV

Dimensions (mm)





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

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

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How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com