

# Alfa Laval GJ 8

## Rotary jet heads

### Introduction

The Alfa Laval GJ 8 is a rotary jet head tank cleaning machine for industrial environments. Built to clean tanks from 250-1250 m<sup>3</sup> in size, it combines pressure and flow to create high-impact cleaning jets that rotate in a repeatable and reliable 360-degree cleaning pattern.

Durable and reliable, the GJ 8 minimizes the consumption of water and cleaning media yet provides with proven cleaning efficiency. The gear train, which uses food-grade lubricants, reduces the risk of particle damage to the machine during operation. Easy to customize to meet customer requirements, it allows companies to spend less time cleaning and more time producing.

### Application

The Alfa Laval GJ 8 is designed for the removal of the toughest residues from industrial tanks across a broad range of industries, such as the chemical, pulp and paper, ethanol, starch, transportation, oil industries.

### Benefits

- Sustainable cleaning solution using less water and chemicals compared to manual cleaning or cleaning using traditional spray balls
- Eliminates the need for confined space entry for manual tank cleaning
- Reliable and repeatable cleaning performance
- Cleaning process can be validated using Alfa Laval Rotacheck
- Slim design, making 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.

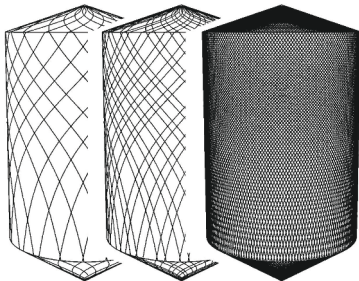


### Working principle

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:	Food grade
Max. throw length	14 - 26 m

#### Pressure

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

### PHYSICAL DATA

#### Materials

1.4404 (316L), PPS, PTFE, FKM (EPDM and FFKM available)

#### Temperature

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

#### Weight

Weight:	6.5 kg
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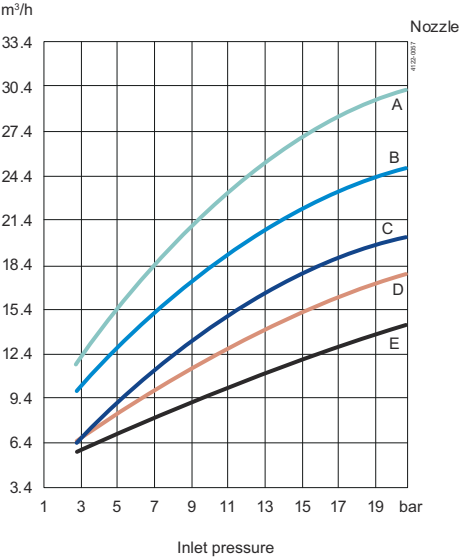
#### Connections

Standard thread:	1½" Rp (BSP) or NPT, female
Available option:	2" Rp (BSP) or NPT, female

### Caution

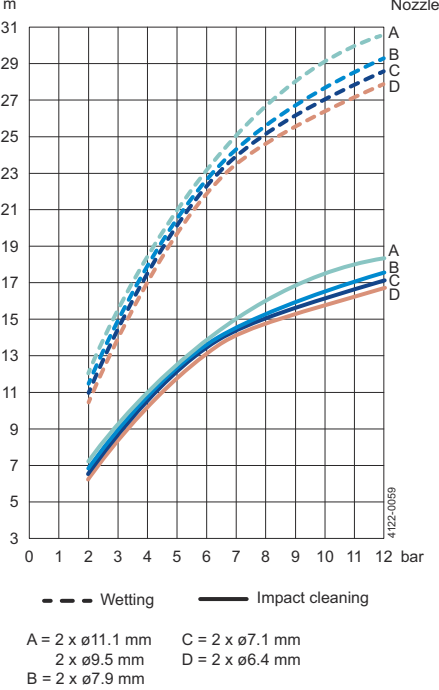
Avoid hydraulic shock, hard and abrasive particles in the cleaning liquid, as this can cause increased wear and/or damage of internal mechanisms. In general, a filter in the supply line is recommended. Do not use for gas evacuation or air dispersion. For steaming we refer to the manual.

Flow Rate



A = 11.1 mm    D = 7.1 mm  
B = 9.5 mm    E = 6.4 mm  
C = 7.9 mm

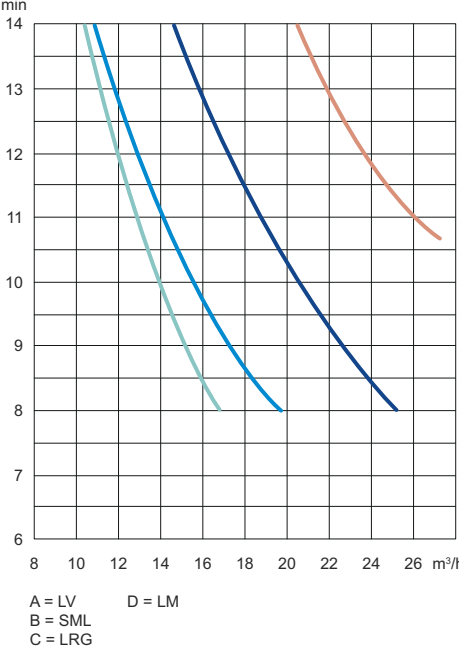
Impact Throw Length



--- Wetting      — Impact cleaning

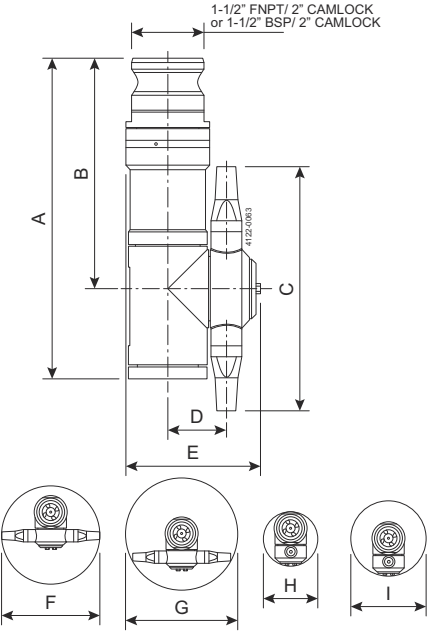
A = 2 x ø11.1 mm    C = 2 x ø7.1 mm  
2 x ø9.5 mm        D = 2 x ø6.4 mm  
B = 2 x ø7.9 mm

Cleaning Time



A = LV    D = LM  
B = SML  
C = LRG

Dimensions

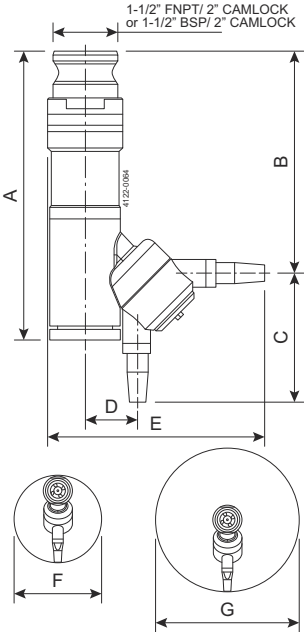


	A	B	C	D	E	F	G	H	I
(mm)	281	202	215	51	118	216	248	121	165

Dimensions 180° directional version

	A	B	C	D	E	F	G
(mm)	281	217	126	51	211	350	248

Dimensions 180° directional version



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