Alfa Laval MultiJet 65

Rotary jet heads

Introduction

The Alfa Laval MultiJet 65 is rotary jet head tank cleaning machines for use in industrial environments. Built to clean tanks with capacities from 3,000-7,000 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 MultiJet 65 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.

Application

The Alfa Laval MultiJet 65 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, and oil industries.

Benefits

- 60% faster cleaning = more time for production
- Saves up to 70% of your cleaning cost
- Eliminates the need for confined space entry for manual tank cleaning
- High-impact cleaning in a 360° repeatable cleaning pattern
- Cleaning process can be validated using Alfa Laval Rotacheck

Standard design

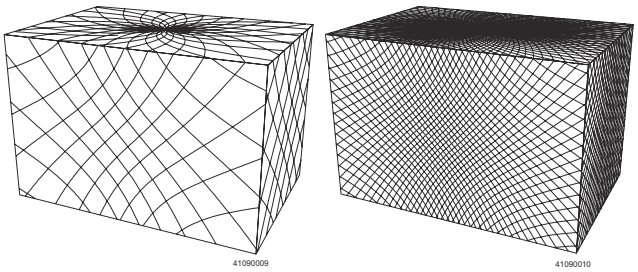
The choice of nozzle diameters can optimize jet impact length and flow rate at the desired pressure.

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 MultiJet 65 is the Alfa Laval GJ 4 for applications that require a small tank inlet opening.

Working principle

The high-impact jet stream from the Alfa Laval MultiJet 65 rotary jet head covers the entire surface 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.



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.

Certificates

2.1 material certificate, ATEX

TECHNICAL DATA

Lubricant:	Self-lubricating with the cleaning fluid
Max. throw length:	9 - 26 m
Impact throw length:	5 - 14 m

Pressure	
Working pressure:	5 - 12 bar
Recommended pressure:	5 - 10 bar

Capacity:	38–83 m^3/hour
Installation:	2 ½" BSP/NPT
Minimum required passage:	See dimension drawings

PHYSICAL DATA

Materials:	1,4401, 1.4404 (316L) PTFE, PVDF, Carbon
Surface finish:	Mat

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

Weight:	13.6 kg

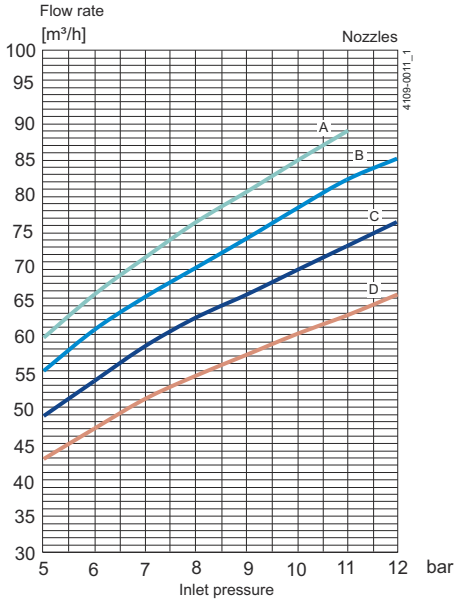
Caution

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.

Qualification Documentation

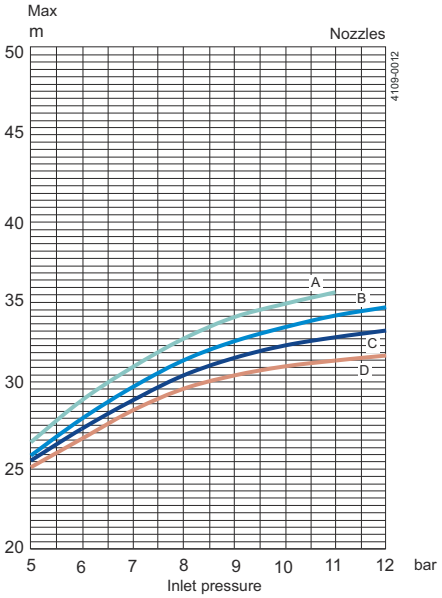
Documentation specification	
ATEX	ATEX approved machine for use in explosive atmospheres Catagory 1 for installation in zone 0/20 in accordance with Directive 2014/34/EU II 1G Ex h IIC 85 °C ...175 °C Ga II 1D Ex h IIIC T85 °C ...T140 °C Da

Flow Rate



A = 4 x Ø14 C = 4 x Ø12
B = 4 x Ø13 D = 4 x Ø11

Max Throw Length



A = 4 x Ø14 C = 4 x Ø12
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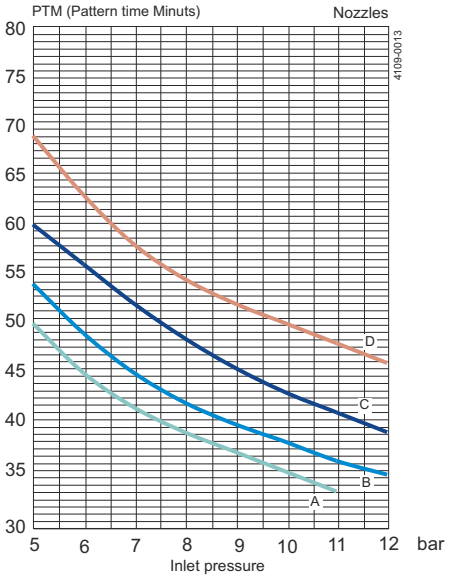
Cleaning Time, Complete Pattern



A = 4 x Ø14 C = 4 x Ø12
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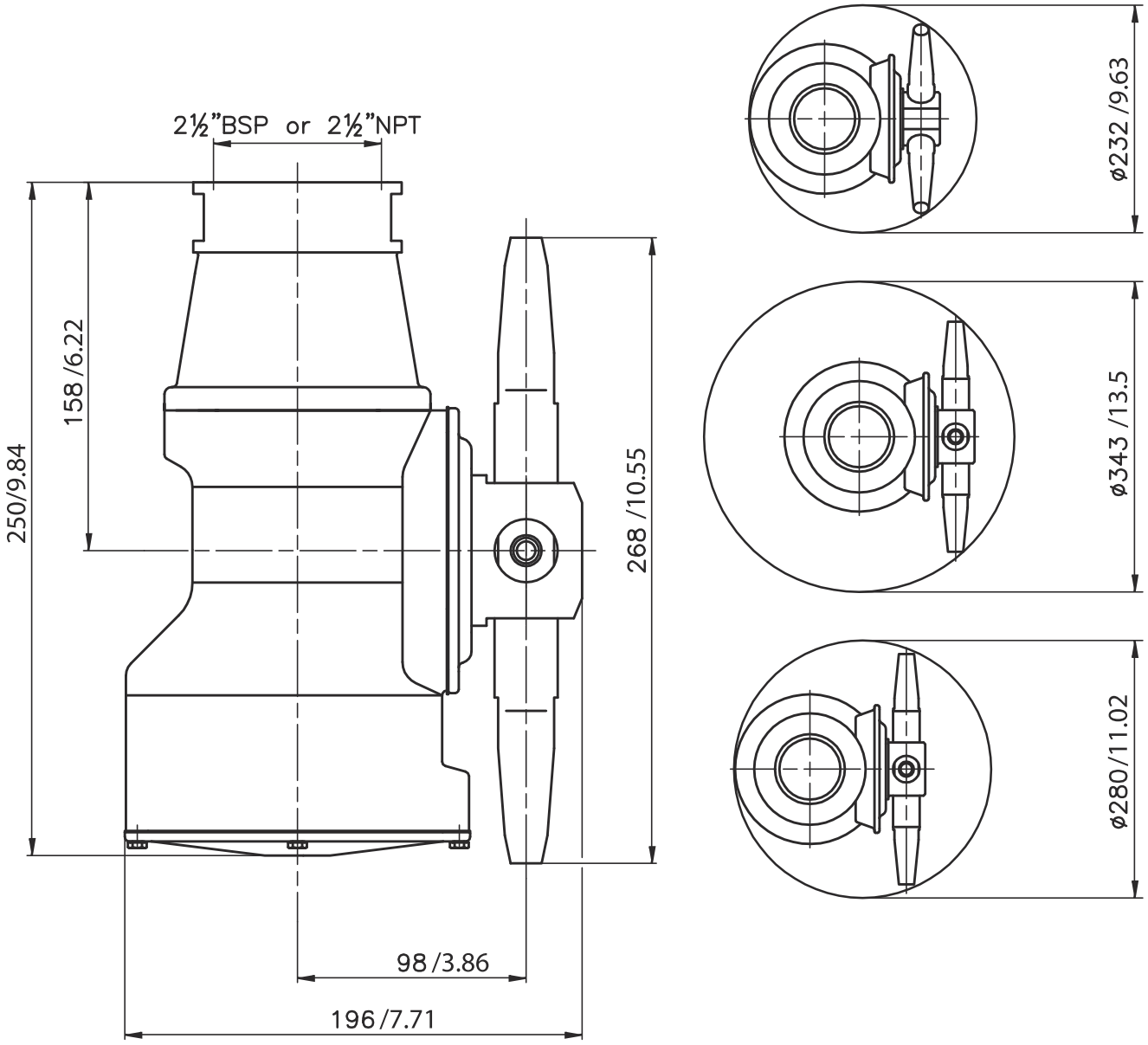
Dimensions (mm/inch)



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