



# First ever EHEDG certified Tank Cleaning Machine

## Toftejorg SaniJet 25 Rotary Jet Head

ESE00311EN 0901

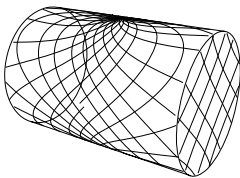
### Application

The Toftejorg SaniJet 25 rotary jet head provides 3D indexed impact cleaning over a defined time period. It is automatic and represents a guaranteed means of achieving quality assurance in tank cleaning. Used in food and dairy processes, pharmaceutical and biotechnology industries, the device is suitable for processing, mixing and storage tanks/vessels between 15 and 150 m<sup>3</sup> (4,000 to 40,000 US gallons). The design is particularly suitable for ultra-hygienic industries that follow European Hygienic Engineering & Design Group Guidelines.

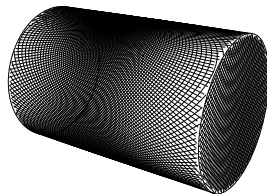
### Working principle

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 coarse pattern on the tank surface. The subsequent cycles gradually make the pattern more dense, until a full pattern is reached after 8 cycles.

### 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.

### Standard Design

The choice of nozzle diameters can optimise jet impact length and flow rate at the desired pressure. Welding adaptors with sealing are available as an accessory. The Toftejorg SaniJet 25 is designed, tested and approved according to EHEDG guidelines on design (guidelines 8), cleanability (guidelines 2) and in-line steam sterilisability (guidelines 5). As standard documentation, it can be supplied with a "Declaration of Conformity" for material specifications. Conformity of Declaration ATEX Directive 94/9/EC available on request.

ATEX approved, Category 1 for installation in zone 0/20



### Qualification Documentation (Q-doc.)

In addition to the standard Declaration of Conformity per ISO 10474/2.2 (EN 10204/2.2), as optional we can offer a Pharma Qualification Documentation Package in accordance to ASME BPE 2007 consisting of:

1. Requirement Specification
2. Design Specification incl. Traceability Matrix



3. FAT, Factory Acceptance Test incl. QC Documentation, IQ & OQ
4. Declaration of Conformity per ISO 10474/3.1B (EN 10204/3.1)
5. FDA Declaration of Conformity per 21 CFR Part 177
6. Installation -, Operation - & Maintenance Manual
7. SAT, Site Acceptance Test Protocols incl. IQ & OQ for End-Users Execution

### Materials

1.4404 (316L), UNS S31803, UNS S21800, PEEK\*, PFA\* and EPDM\*

\* FDA compliance 21CFR§177

### Caution

Avoid hard and abrasive particles in the cleaning liquid, as this will cause increased wear and/or damage of internal mechanisms. It is recommended to install a filter in the supply line.

### Certificate:

2.2 - 3.1.B - ATEX - EHEDG



## Technical Data

Standard Surface finish: . . . . . Ra0.5µm exterior / Ra0.5µm internal

Weight: . . . . . 5.1 kg (11 lbs)

Lubricant: . . . . . Self-lubricating with the cleaning fluid

Working pressure: . . . . . 3 - 8 bar (45 - 115 psi)

Recommended pressure: . . . . . 5 - 6.5 bar (72 - 94 psi)

Max. working temperature: . . . . . 95 °C (203 °F)

Max. ambient temperature: . . . . . 140 °C (284 °F)

Max throw length: . . . . . 9 - 14 m (29 - 46 ft)

Impact throw length: . . . . . 4 - 8 m (13 - 26 ft)

Standard thread: . . . . . 1" Rp (BSP) and 1" NPS with sanitary seal

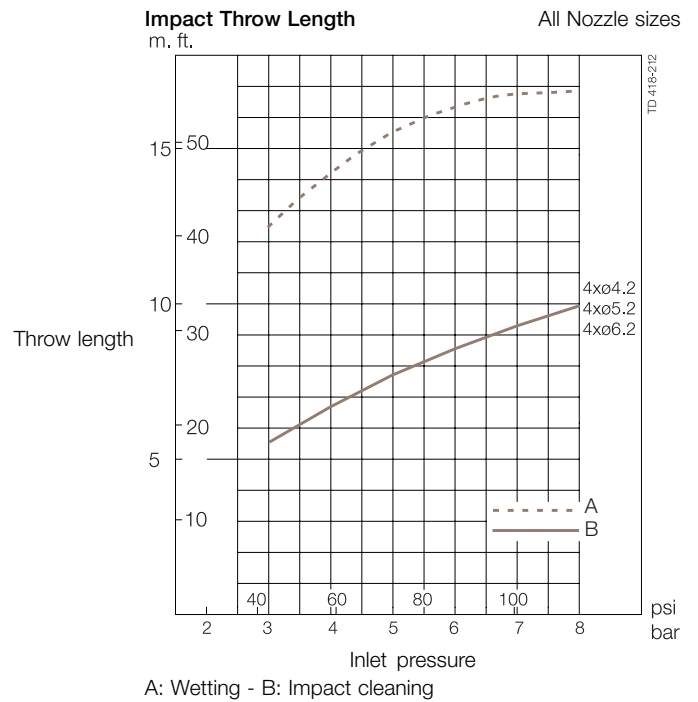
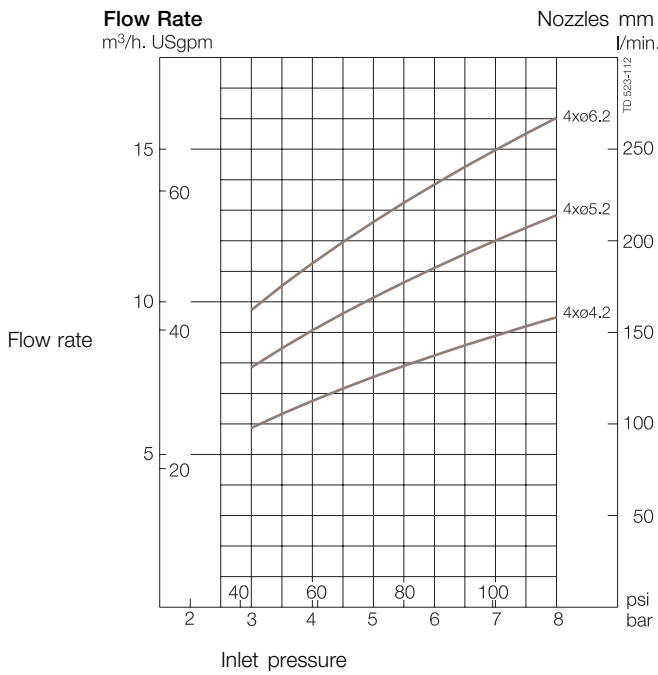
## Ordering

Please specify nozzle size and required connection and confirm application suitability.

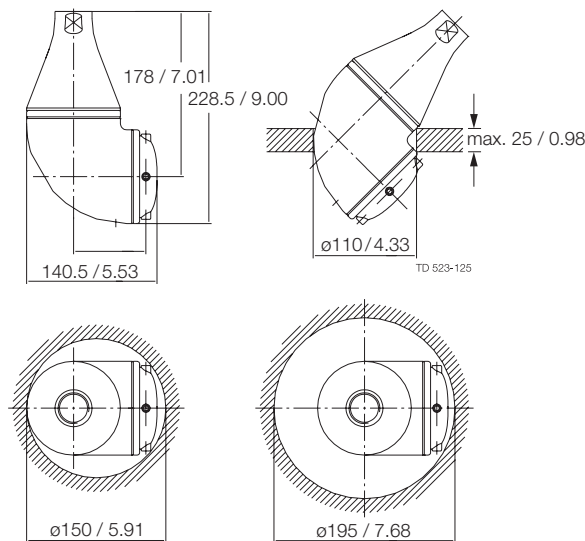
Sizing/selection and installation drawings are available in Alfa Laval's Selection Tools for Tank Cleaning Equipment.

## Options

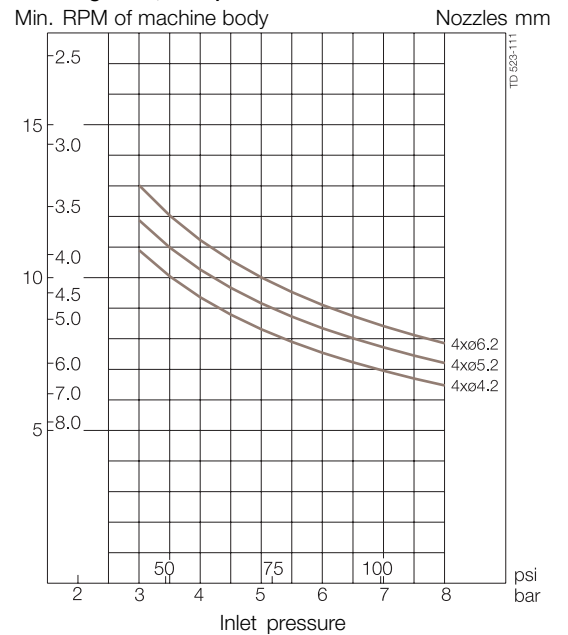
Electronic rotation sensor to verify 3D coverage



## Dimensions (mm / inch)



## Cleaning Time, Complete Pattern



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The information contained herein is correct at the time of issue,  
but may be subject to change without prior notice.

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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](http://www.alfalaval.com) to  
access the information direct.