

# Fast, Effective Impact Cleaning

Alfa Laval TJ TZ-67 Rotary Jet Head - Portable

#### Application

The Toftejorg TZ-67 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. The device is suitable for processing, storage and transportation tanks and vessels between 50 and 500 m<sup>3</sup>. Used in breweries, food and dairy processes and many other industries, the Toftejorg TZ-67 is particularly well-suited to portable applications where high impact is required.

#### Working principle

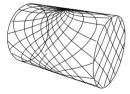
The flow of the cleaning fluid makes the nozzles perform a geared rotation around the vertical and horizontal axes. In the first cycle, the nozzles lay out a coarse pattern on the tank surface. The subsequent cycles gradually make the pattern more dense, until a full pattern is reached after 8 cycles.



## TECHNICAL DATA

#### Pressure

# 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 and ATEX.



# PHYSICAL DATA

#### Materials

316L (UNS S31603), PTFE, PVDF, PEEK, ETFE, TFM

#### Temperature

#### 

#### Connections Standard three

Standard thread: ..... 1 1/2" Rp (BSP) or NPT, male

#### Options

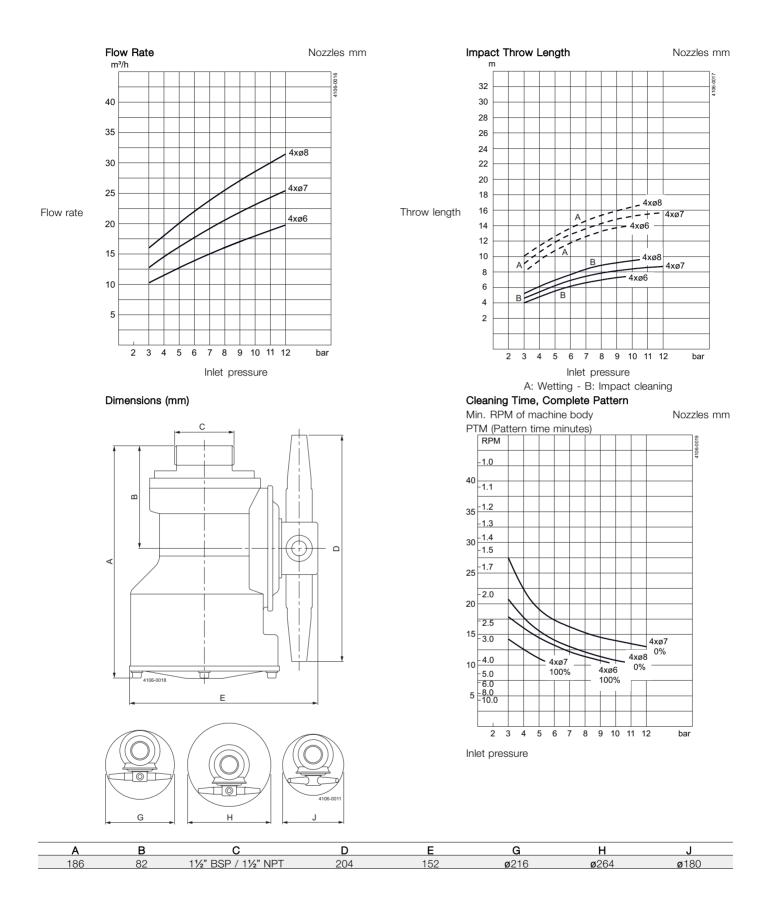
- Electronic rotation sensor to verify 3D coverage
- Hose saddle, deck cover plate, hose winch, hose, etc. are available.

# Caution

Do not use for gas evacuation or air dispersion.



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#### Standard Design

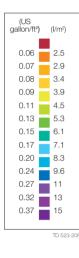
The choice of nozzle diameters can optimise jet impact length and flow rate at the desired pressure. Complete portable systems can comprise a four-wheel carriage and hose winch. As standard documentation, the Toftejorg TZ-67 can be supplied with a "Declaration of Conformity" for material specifications.

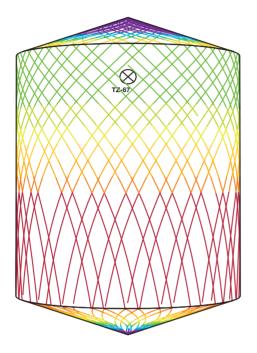
# TRAX simulation tool

TRAX is a unique software that simulates how the Toftejorg TZ-67 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 machine 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 reference and documentation for tank cleaning applications. A TRAX simulation is free and available upon request.

#### Wetting Intensity





D2.5m H6m, Toftejorg TZ-67, 4 x  $\phi$ 6 mm Time = 3.5 min., Water consumption = 727 I



D2.5m H6m, Toftejorg TZ-67, 4 x ø6 mm Time = 14.7 min., Water consumption = 3097 l

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