

Fast, Effective Impact Cleaning

Toftejorg TZ-79 Rotary Jet Head

Application

The Toftejorg TZ-79 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 250 and 1.250 m³. Used in breweries, food and dairy processes and many other industries.

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

Lubricant: Self-lubricating with the cleaning fluid

Standard Surface finish: Ra 0.5 µm exterior

May throw longth: 9, 26 m

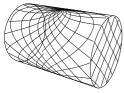
Max. throw length: 9 - 26 m Impact throw length: 5 - 14 m

Pressure

Working pressure: 3 - 12 bar
Recommended pressure: 5 - 6.5 bar*

* Does not apply for 4 x ø9 mm (0.16 x ø0.35 inch) 100%

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, Carbon, ETFE, TFM.

Temperature

Connections

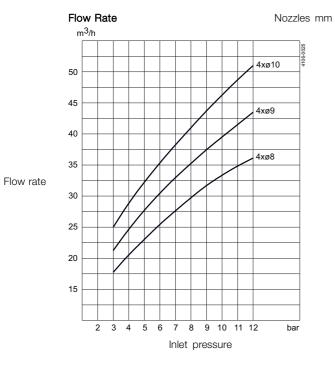
Options

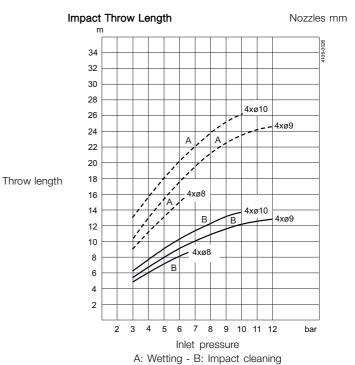
Electronic rotation sensor to verify 3D coverage.

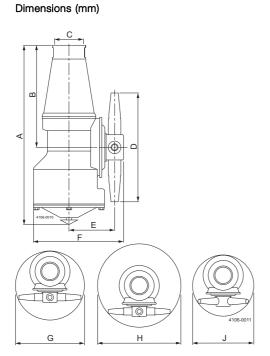
Caution

Do not use for gas evacuation or air dispersion.

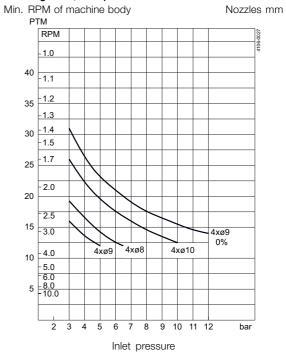








Cleaning Time, Complete Pattern



| Α | В | С | D | E | F | G | T | J |
|-----|-----|-----------------|-----|----|-----|--------------|--------------|--------------|
| 356 | 220 | 2" BSP / 2" NPT | 268 | 98 | 195 | ø 280 | ø 343 | ø 232 |

Standard Design

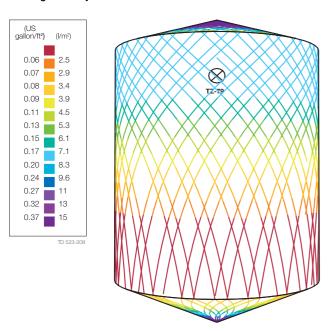
The choice of nozzle diameters can optimise jet impact length and flow rate at the desired pressure. Selfcleaning arm available. As standard documentation, the Toftejorg TZ-79 can be supplied with a "Declaration of Conformity" for material specifications.

TRAX simulation too

TRAX is a unique software that simulates how the Toftejorg TZ-79 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. The TRAX demo is free and available upon request.

Wetting Intensity



D8m H10m, Toftejorg TZ-79, 4 x \not a10 mm, 0 % Time = 5.5 min., Water consumption = 2565 l



D8m H10m, Toftejorg TZ-79, 4 x ø10 mm, 0 % Time = 23.3 min., Water consumption = 10868 l

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