



Award-Winning Design for Ultra Hygiene

Toftejorg TJ 20G Rotary Jet Head

PD 66402 GB1 2003-08

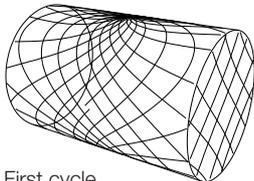
Application

The Toftejorg TJ 20G rotary jet head provides 360° 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 breweries, food and dairy processes and many other industries, the device is suitable for processing, storage and transportation tanks and vessels between 15 and 150 m³ (4,000 to 40,000 US gallons). The award-winning design is particularly suitable for ultra-hygienic industries that follow European Hygienic Equipment Design Group guidelines.

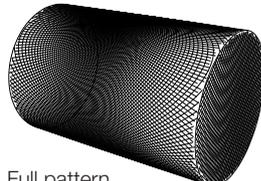
Working Principle

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. The Toftejorg TJ 20G is also available with PEEK impeller. A welding adaptor with sealing for 1" ISO, 1" ANSI, 1 1/2" ISO Dairy Pipe or 1 1/2" SWG Pipe is available as an accessory. The Toftejorg TJ 20G is tested according to the EHEDG test procedure. As standard documentation, it can be supplied with a "Declaration of Conformity" for material specifications.

Materials

1.4404 (316L), 1.4401 (316), SAF 2205 (UNS 31803), EPDM, PEEK, PVDF, PFA



Technical Data

Surface finish: External surface finish: Ra = 0.5 µm

Weight: 5.1 kg (11 lbs)

Lubricant: Self-lubricating with the cleaning fluid

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

Recommended pressure: 4 - 7 bar (58 - 100 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" BSP or NPT, female Top cone 1" BSP with sanitary seal

Caution

Avoid 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.

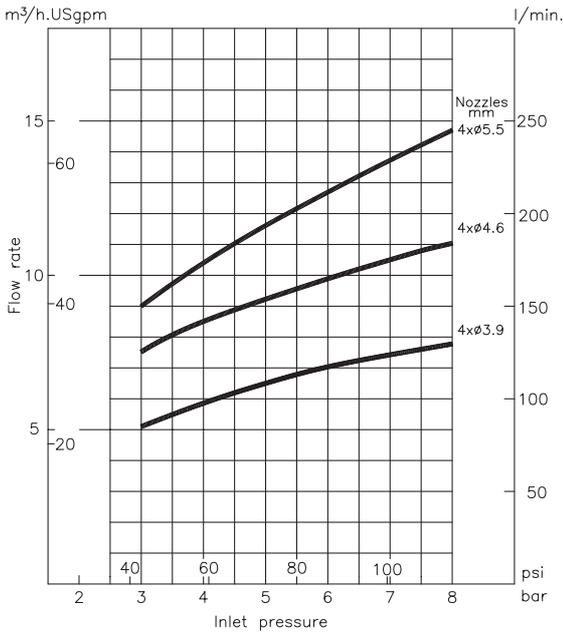
Ordering

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

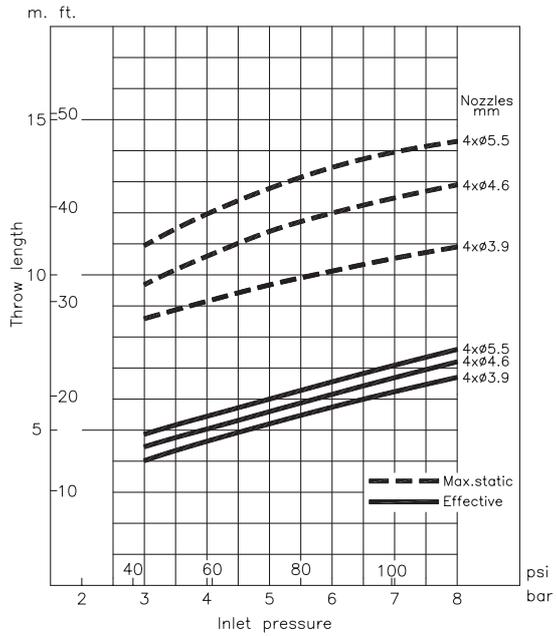
Options

- Electronic rotation sensor to verify 360° coverage
- Downpipes
- Retractable system

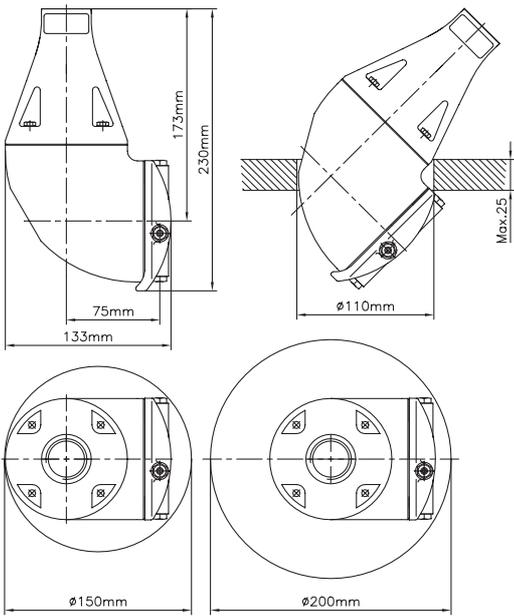
Flow Rate



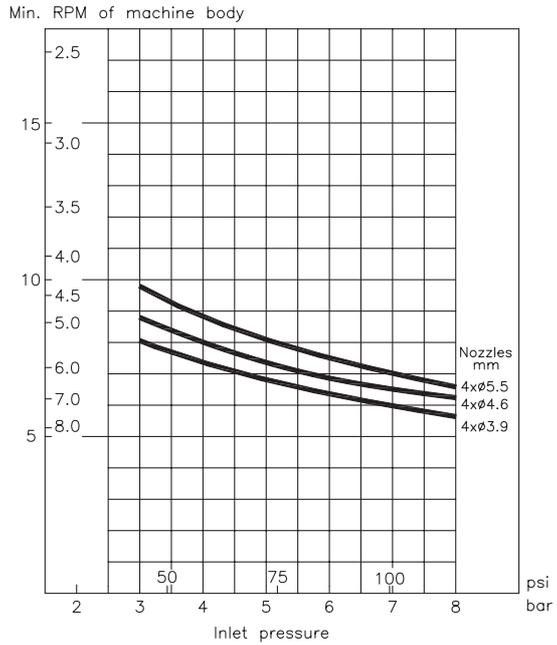
Impact Throw Length



Dimensions (mm)



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.

How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com or www.toftejorg.com to access the information direct.

EP - patent 0560778
US - patent 5,333,630