Award-Winning Design

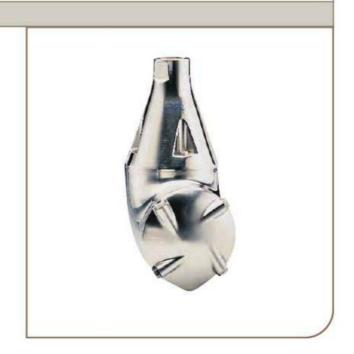
Alfa Laval TJ 20G Rotary Jet Head

Application

The Toftejorg TJ 20G 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 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. The award-winning design is particularly suitable for 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.



TECHNICAL DATA

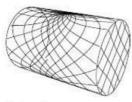
Lubricant: Self-lubricating with the cleaning fluid Standard Surface finish: Exterior surface finish Ra $0.5\mu m$

Max throw length: 9 - 14 m Impact throw length: 4 - 8 m

1" Rp (BSP) with sanitary seal

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

2.2, 3.1 material certificate and ATEX.

PHYSICAL DATA

Materials

316L (UNS S31603), Duplex steel (UNS N31803), EPDM, PEEK, PVDF, PFA

Temperature

Max. working temperature: 95 $^{\circ}$ C Max. ambient temperature: 140 $^{\circ}$ C

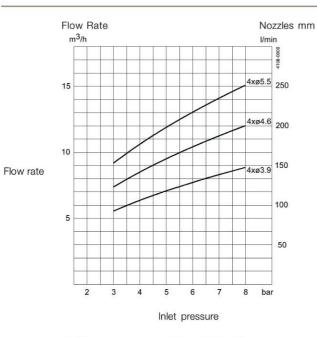
Weight: 5.1 kg

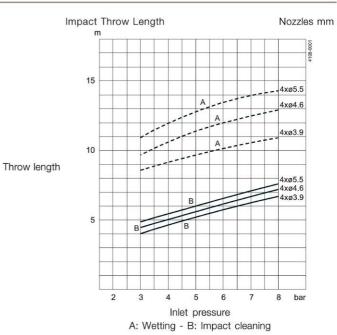
Options

Electronic rotation sensor to verify 3D coverage.

Cautio

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. Do not use for gas evacuation or air dispersion.

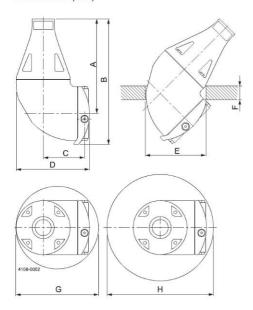


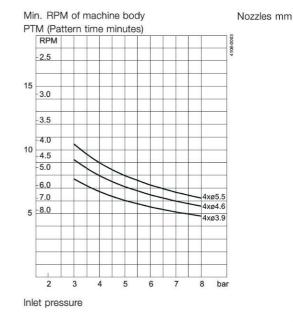


Distillery version - flow at 5 bar / 72.5 PSI $4 \times \emptyset 3.9 = 10 \text{ (m}^3/\text{h)}$

 $4 \times \emptyset 4.6 = 12.4 \text{ (m}^3/\text{h)}$ $4 \times \emptyset 5.5 = 13.9 \text{ (m}^3/\text{h)}$

Dimensions (mm)





Α	В	С	D	E	F	G	Н
173	230	75	133	ø110	max. 25	ø150	ø200