Alfa Laval TZ-750

Fast, Effective Impact Cleaning

Application
The Toftejorg TZ-750 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 storage and transportation tanks and vessels between 3,000 and 7,000 m^3. Used in chemical processing and the pulp and paper 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 4 cycles.

Standard Design
The choice of nozzle diameters can optimise jet impact length and flow rate at the desired pressure. As standard documentation, the Toftejorg TZ-750 can be supplied with a “Declaration of Conformity” for material specifications.

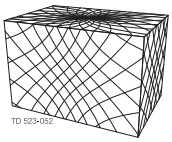
TECHNICAL DATA

Lubricant:	Self-lubricating with the cleaning fluid
Standard surface finish:	Ra 0.5µm exterior
Flow rate:	38 - 83 m^3/h
Max. throw length:	30 - 40 m
Min. required passage:	See dimension drawings

Pressure

Working pressure:	5 - 12 bar
Recommended pressure:	5 - 10 bar

Cleaning Pattern



First cycle

Full pattern

The above drawings show the cleaning pattern achieved on a 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), 1.4401, PTFE, PVDF, Carbon, EFTE.

Temperature

Max. working temperature:	95°C
Max. ambient temperature:	140°C

Weight

Portable:	12.1 kg
Fixed:	3.6 kg

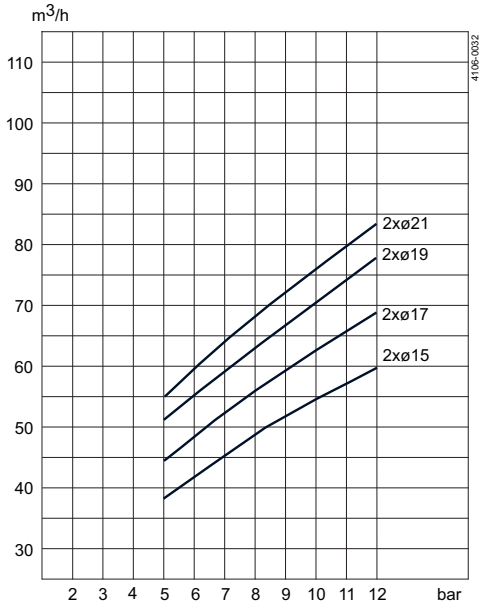
Connections

Standard thread:	2½" Rp (BSP), NPT

Caution
Avoid hydraulic shock, 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. For steaming we refer to the manual.

Flow Rate

Nozzles mm

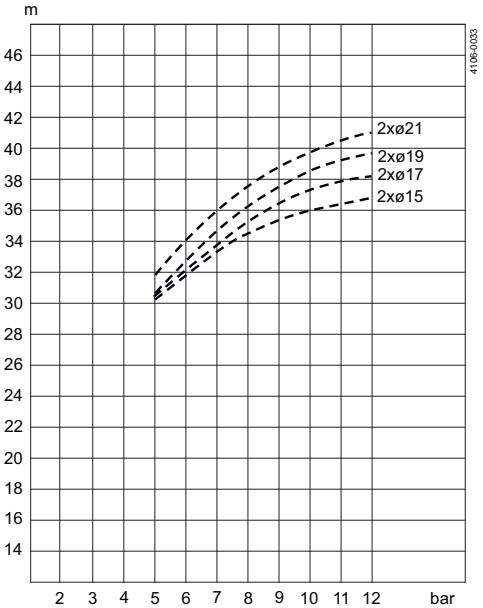


Flow rate

Inlet pressure

Horizontal Throw Length (Wetting Radius) at Static Condition

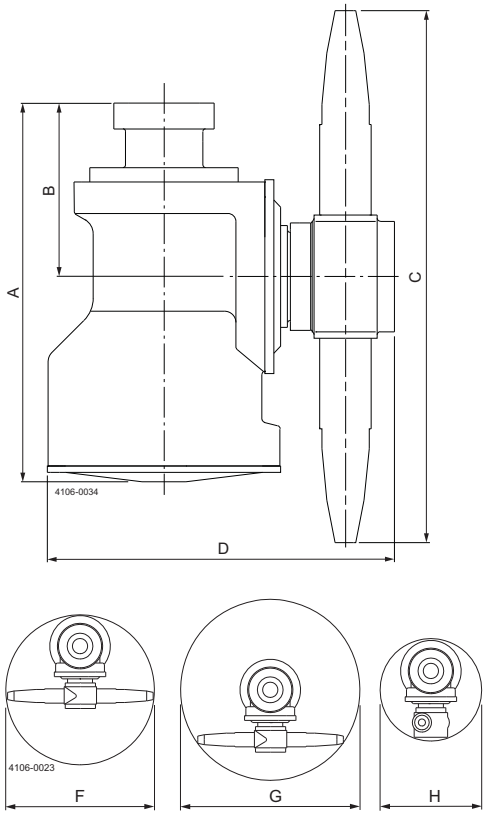
Nozzles mm



Throw length

Inlet pressure

Dimensions (mm)

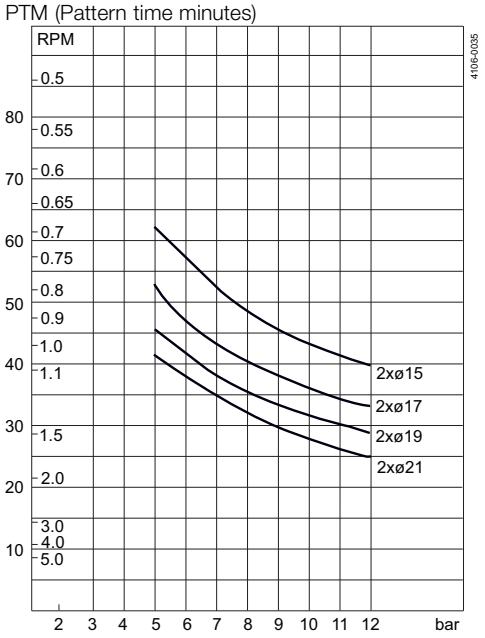


Cleaning Time, Complete Pattern

Min. RPM of machine body

Nozzles mm

PTM (Pattern time minutes)



Inlet pressure

A	B	C	D	F	G	H
242	110	337	220	ø343	ø424	ø223

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How to contact Alfa Laval
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are continually updated on our website.
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