



CSI

SELECTION
GUIDE

HOW TO CHOOSE THE RIGHT TANK-CLEANING DEVICE



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IMPORTANCE OF ROTARY IMPINGEMENT TANK CLEANING

Alfa Laval rotary tank cleaning machines project cleaning fluid, such as water, in an engineered stream pattern that strikes the tank surface with precise pressure and angles **to provide the most efficient and effective cleaning.**

Unlike a static spray ball, which creates a weak and inexact spray, due to the large number of holes needed to clean the tank, a rotary spray head from Alfa Laval has only 2 or 3 nozzles, which **ensures the highest impact and reach when cleaning a surface.**

Since Alfa Laval tank cleaners are calibrated to deliver a specific cleaning force to the tank surface, understanding your operating conditions is necessary to deliver the required cleaning performance for your application. **It is, therefore, very important to know at what pressure and flow rate you plan to operate.**

SPRAY VS. JET CLEANERS

The choice between a Rotary Spray Cleaner and a Rotary Jet Cleaner will depend on your application requirements. **Jet Cleaners provide much higher impingement** — impact or mechanical force — than Spray Cleaners and **are designed to offer the optimal output of force with the least flow and pressure to create the most effective and efficient cleaning.**



Rotary Spray Cleaner



Rotary Jet Cleaner

ROTARY SPRAY CLEANERS

Rotary spray cleaners from Alfa Laval deliver tank coverage, using a revolving flat fan spray delivering moderate-level impact in a repeatable pattern. Specifically designed for a variety of applications, these devices are available in various sizes and different configurations covering most tank sizes.

Cleaning Method

- Revolving flat fan spray effect
- Repeated moderate impact
- Penetrates films
- Dislodges soils

Water Consumption

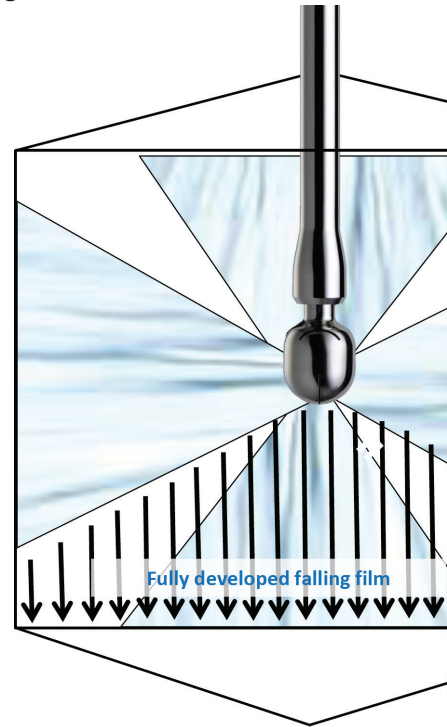
- 12-73 GPM
- Medium (70%)

Mechanical Force

- Medium

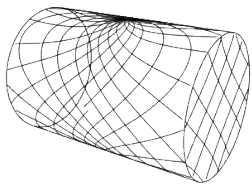
Pressure

- 15 to 40 PSI

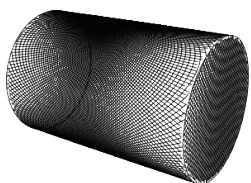


ROTARY JET CLEANERS

Rotary jet heads from Alfa Laval enable manufacturing and process companies to achieve the most effective tank clean while using the least amount of resources. An automated, fluid-driven device optimizes the pressure and flow to create high impact cleaning jets. These devices maximize mechanical force, which saves on cleaning solution and time needed to effectively clean your tanks.



First Cycle



Full Pattern

Cleaning Method

- Impact and resulting force blast contaminants from surface
- Rotates in a repeatable, reliable 360° pattern for whole-tank coverage.

Water Consumption

- 3-160 GPM
- Water and wash fluid savings estimated between 50-90%

Mechanical Force

- High

Pressure

- 30-800 PSI

ROTARY SPRAY CLEANERS FROM ALFA LAVAL



TofteJorg Sani Series

Cleans with a rotating fan generating impact and coverage. This results in lower liquid consumption and shorter runtime.

	SaniMicro	SaniMidget	SaniMagnum
Tank Size	Small ranging from 0.05m ³ to 1m ³	Small ranging from 0.1m ³ to 10 m ³	Mid-sized ranging from 5m ³ to 50m ³
Recommended Pressure	30PSI	30PSI	30PSI
Working Temperature (max)	203°F	203°F	203°F
Ambient Temperature (max)	284°F	284°F	284°F
Spray Pattern	360° 180° Down 270° Up	360° 180° Down 270° Up	360° 180° Down 270° Up
3-A Standard	No	No	No



TofteJorg SaniMidget Retractor

The distribution pattern of the cleaner head generates a vibrating impact as well as cascading flow coverage of all internal surfaces of the tank.



TofteJorg Sani SB 3-A Series

The 3-A compliant spray heads clean with a rotating fan generating impact and coverage. This results in lower liquid consumption and shorter runtime.

SaniMidget Retractor	SaniMidget SB	SaniMagnum SB	SaniMega SB
Larger ducts, channels, chambers, vent lines, etc.	Small ranging from 0.1m ³ to 10 m ³	Mid-sized ranging from 5m ³ to 50m ³	Large ranging from 50m ³ to 350 m ³
43PSI	30PSI	30PSI	30-45PSI
203°F	203°F	203°F	203°F
302°F	302°F	302°F	302°F
270° Up	360° 270° Up	360° 270° Up	360° 270° Up
No	Yes	Yes	Yes

ROTARY JET CLEANERS FROM ALFA LAVAL



Designed to remove the toughest residues and is highly customizable.



Compact size allows it to readily pass through a three-inch opening, making it ideal for cleaning small tanks, vats, and vessels.



Easily fits through a 1 1/2 inch access hole and capable of operating at both high and low pressures.



Provides the same high impact clean as traditional, larger tank cleaners but is lighter, shorter, and narrower.

	GJ 4	GJ 5	GJ 7	GJ 8
Tank Size	Large with over 15ft diameter	Small to mid-sized	Ideal for barrels, drums, and small vessels	Large
Throw Length (max)	100FT	4-24FT	8FT	85FT
Cycle Time	10-25Min	8-11Min	2-5Min	8-12Min
Working Pressure	40-300PSI	40-1,000PSI	44-1,200PSI	40-400+PSI
Recommended Pressure	50-200PSI	50-600PSI	80-797PSI	50-300PSI
Working Temperature (max)	203°F	203°F	203°F	203°F
Ambient Temperature (max)	284°F	284°F	284°F	284°F
Standards	2.1 material certificate upon request	2.1 material certificate upon request	2.1 material certificate upon request	2.1 & 3.1 material certificate upon request



Offers compact cleaning for small tanks, totes, and intermediate bulk containers (IBCs).



Designed for permanent installation and to provide true germ and bacteria-free cleaning.



Engineered to minimize physical effort and maximize efficiency.



Remains outside the barrel during cleaning, to provide exceptional durability.

GJ 9	GJ A6	GJ A8	GJ BB
Small and mid-sized	Mid-sized	Mid to large-sized	Small
30FT	19FT	45-85FT	8FT
4-12Min	10-14Min	8-12Min	1-2Min
44-1,000PSI	30-400+PSI	40-400+PSI	80-1,200PSI
58-580PSI	30-150PSI	50-300PSI	80-795PSI
203°F	203°F	203°F	203°F
284°F	284°F	284°F	284°F
2.1 material certificate upon request	2.1 & 3.1 material certificate upon request	2.1 material certificate upon request	2.1 material certificate upon request

ROTARY JET CLEANERS FROM ALFA LAVAL



The jet pressure efficiently removes residue to provide the hygienic conditions required for batch production.



Provides 3D indexed impact cleaning over a defined time period.



Well-suited to portable applications where high impact is required.



Provides automated 3D-indexed impact cleaning over a defined time period for large tanks & vessels.

	TJ SaniJet 25	TJ 20G	TZ-67	TJ40G
Tank Size	Mid-sized	Mid-sized	Large ranging from 50m ³ to 500m ³	Large ranging from 50m ³ to 500m ³
Throw Length (max)	56FT	46FT	56FT	70FT
Cycle Time	2-8Min	6-10Min	11-19Min	2-16Min
Working Pressure	44-116PSI	44-116PSI	44-174PSI	44-174PSI
Recommended Pressure	73-94PSI	73-94PSI	73-94PSI	73-102PSI
Working Temperature (max)	203°F	203°F	203°F	203°F
Ambient Temperature (max)	284°F	284°F	284°F	284°F
Standards	2.2 material upon request, FAT & SAT, ATEX and EHEDG	USDA, USFDA, 3.1 material upon request, and ATEX	2.1 material certificate upon request and ATEX	3.1 material certificate upon request and ATEX



Specifically engineered to offer the most efficient and effective cleaning for vessels with capacities of 5,000 to 25,000 gallons.



Designed to fit through standard underground storage tank (UST) inlets.



Created as a solution for pharmaceutical cleaning needs, but works cohesively in any sanitary environment.



For processing highly viscous, foaming, or thixotropic products and chemical applications where product cross-contamination is unacceptable.

GJ PF	GJ 10	GJ A2	SaniJet 20
Large	Large	Mid-sized	Mid-sized
65FT	35FT	14FT	13FT
8-20Min	10-28Min	4-20Min	5-10Min
40-400PSI	40-300PSI	40-200PSI	44-188PSI
50-300PSI	50-270PSI	50-150PSI	73-116PSI
195°F	203°F	203°F	194°F
284°F	284°F	284°F	284°F
2.1 material certificate upon request	2.1 material certificate upon request	2.1 & 3.1 material certificate upon request	2.2 & 3.1 material certificate upon request, FAT & SAT and ATEX



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