

Alfa Laval SaniMicro

Rotary Spray Head

Introduction

The Alfa Laval SaniMicro is a rotary spray head tank cleaning machine for hygienic environments. Designed to clean tanks from 0.05–1 m³.

The Alfa Laval SaniMicro minimizes the consumption of water and cleaning media. Easy to customize to meet customer requirements, the SaniMicro allows companies to spend less time cleaning and more time producing.

Application

The Alfa Laval SaniMicro is designed for the removal of residues from hygienic tanks across the dairy, brewery, distillery, beverage, food, personal care and many other industries.

Benefits

- 40% faster cleaning = more time for production
- Saves up 40% of your cleaning cost
- Dynamic cleaning performance and 360° full wetting
- Easy to retrofit traditional spray balls to a more economical solution

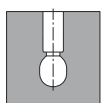
Standard design

Different choice of spray pattern suitable for various applications and tank designs, ranging from simple tanks to more complex tanks with structure such as agitator and baffles. The SaniMicro is lubricated by the cleaning media.

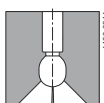
Working principle

The flow of the cleaning media causes the head of the Alfa Laval SaniMicro to rotate, and the fan-shaped jets layout a swirling pattern throughout the tank or reactor. This generates the wetting/impact needed for the efficient removal of the residual product; the cascading flow covers all internal surface of the vessel.

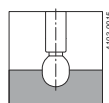
Spray Pattern



360°



270° up



180° down



Certificates

2.2 material certificate, Q-doc and ATEX.



Technical Data

Pressure

Working pressure:	1 - 3 bar / 14.5 - 44 psi
Recommended pressure:	2 bar / 29 psi

Miscellaneous

Lubricant:	Self-lubricating with the cleaning fluid
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Physical Data

Materials

Steel parts:	SaniMicro: AISI 316 (UNS S31600), AISI 316L (UNS S31603), Duplex steel (UNS S31803) SaniMicro Hastelloy: UNS06022, UNS N10276
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Polymer parts:	PTFE ¹
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¹ FDA compliance 21CFR§177

Standard Surface finish

External surface finish:	SaniMicro: Ra 0.5 µm / Ra 20 µin SaniMicro UltraPure: Ra 0.5 µm EP / Ra 20 µin EP
Internal surface finish:	SaniMicro: Ra 0.8 µm / Ra 32 µin SaniMicro UltraPure: Ra 0.5 µm EP / Ra 20 µin EP

Temperature

Max. working temperature:	95 °C / 203 °F
Max. ambient temperature:	140 °C / 284 °F

Caution

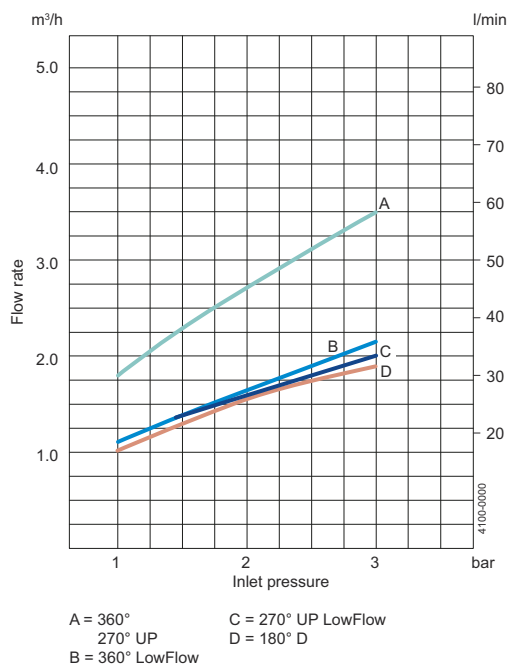
Avoid hydraulic shock, hard and abrasive particles in the cleaning liquid, as this can cause increased wear and/or damage of internal mechanisms. In general, a filter in the supply line is recommended. Do not use for gas evacuation or air dispersion. For steaming we refer to the manual.

Qualification Documentation

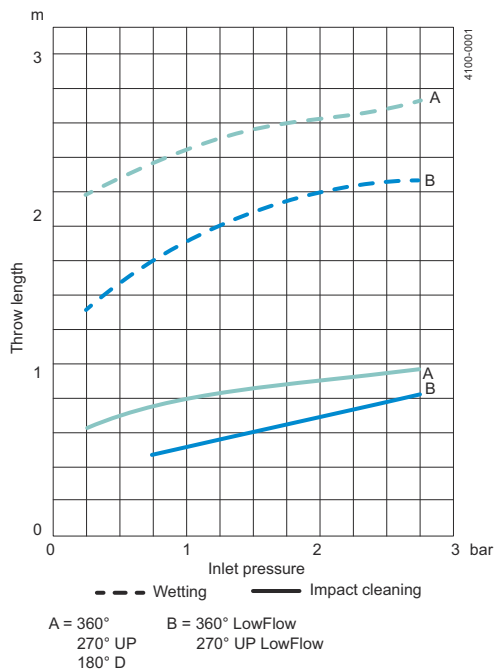
Documentation specification

Q-doc	Equipment Documentation includes: <ul style="list-style-type: none">• EN 1935/2004 DoC• EN 10204 type 3.1 inspection Certificate and DoC• FDA DoC• GMP EC 2023/2006 DoC• EU 10/2011 DoC• ADI DoC• QC DoC
ATEX	ATEX approved machine for use in explosive atmospheres
	Catagory 1 for installation in zone 0/20 in accordance with Directive 2014/34/EU
	II 1G Ex h IIC 85 °C ...175 °C Ga II 1D Ex h IIIC T85 °C ...T140 °C Da

Flow Rate



Cleaning Radius



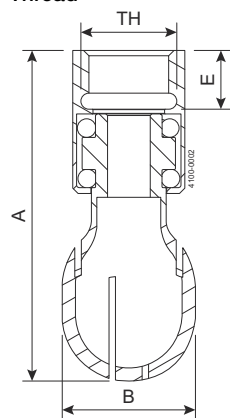
For Clip-on models, the flow rate is increased by approx. 0.2 m³/h

Upwards cleaning distance is considered 2/3 of the impact cleaning distance.

Dimensions

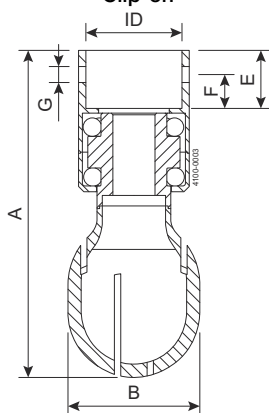
mm / inch

Thread



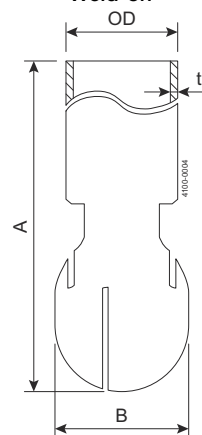
TH
3/8" Rp (BSP)
3/8" NPT

Clip-on



ID mm / inch
ISO: 17.4 / Ø0.69
DIN Range 1: 18.2 / Ø0.75
BPE US/DIN Range 2: 19.2 / Ø0.76

Weld-on



OD x t ID mm / inch
ISO: Ø17.2 x 1 / Ø0.68 x 0.04
DIN Range 1: Ø18 x 1 / Ø0.71 x 0.04
DIN Range 2: Ø19 x 1.5 / Ø0.75 x 0.06
BPE US: Ø19.05 x Ø1.65 / Ø0.75 x 0.06

mm / inch

Type	A	B	E	F	G	Weight
Tread	62.0 / 2.44	Ø25 / 0.98	11 / 0.43			75 g / 0.17 lbs
Clip-on	62.0 / 2.44	Ø25 / 0.98	11 / 0.43	5.9 / 0.23	Ø3.6 / 0.14	75 g / 0.17 lbs
Weld-on	77.5 / 3.05	Ø25 / 0.98				75 g / 0.17 lbs

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200006942-2-EN-GB

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