



# Alfa Laval SaniMidget

## Rotary Spray Head

### Introduction

The Alfa Laval SaniMidget is a rotary spray head tank cleaning machine for hygienic environments. Designed to clean tanks from 1 - 10 m<sup>3</sup>.

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

### Application

The Alfa Laval SaniMidget is designed for the removal of residues from hygienic tanks across the dairy, brewery, distillery, beverage, food, IBC (intermediate bulk container), personal care and many other industries.

### Benefits

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

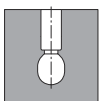
### Standard design

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 SaniMidget is lubricated by the cleaning media.

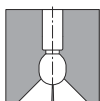
### Working principle

The flow of the cleaning media causes the head of the Alfa Laval SaniMidget 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 surfaces of the vessel.

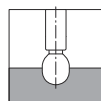
### Spray Pattern



360°



270° up



180° down

### Certificates

2.2 material certificate, Q-doc and ATEX.



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## TECHNICAL DATA

Lubricant:	Self-lubricating with the cleaning fluid
Wetting radius:	Max. 3 m
Impact cleaning radius:	Max. effective 1.4 m

### Pressure

Working pressure:	1 - 3 bar
Recommended pressure:	2 bar

## PHYSICAL DATA

Materials:	AISI 316L (UNS S31603), PTFE <sup>1</sup>
<sup>1</sup> FDA compliance 21CFR§177	

Clip parts:	316
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### Standard Surface finish

Exterior:	Ra 0.5 µm
Internal:	Ra 0.8 µm

### Temperature

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

### Weight

Thread and clip-on:	0.30 kg
On pipe:	0.55/0.90 kg

### Connections

- Weld-on: 1" ISO 2037, or DN25 DIN11850-R2, or 1" BPE US
- Clip-on: 1" ISO 2037, or DN25 DIN11850-R1 or R2, or 1" BPE US

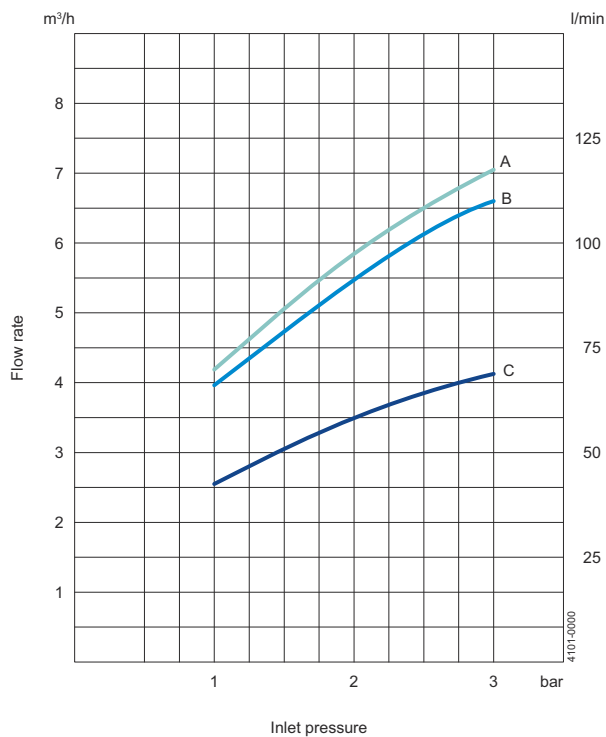
## Caution

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"><li>• EN 1935/2004 DoC</li><li>• EN 10204 type 3.1 inspection Certificate and DoC</li><li>• FDA DoC</li><li>• GMP EC 2023/2006 DoC</li><li>• EU 10/2011 DoC</li><li>• ADI DoC</li><li>• QC DoC</li></ul>
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

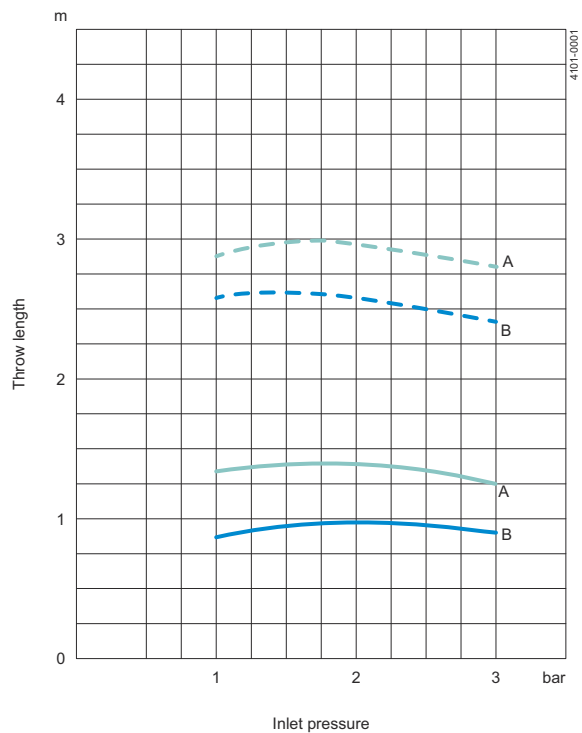
## Flow Rate



A = 270° U  
B = 360°  
C = 180° D

For clip-on models, the flow rate is increased by approx. 0.5 m³/h

## Cleaning Radius



--- Wetting      — Impact cleaning

A = 270° U  
B = 360°  
180° D

## Dimensions (mm)

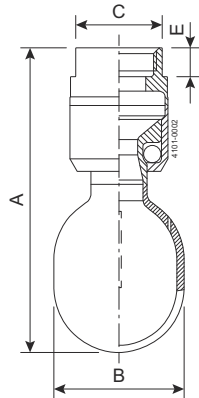


Figure 1. Thread

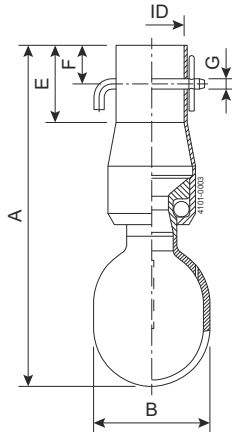


Figure 2. Clip-on

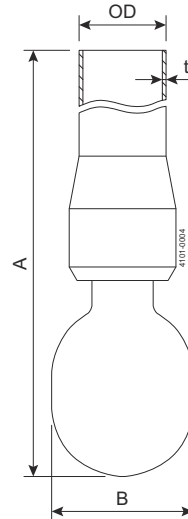


Figure 3. Weld-on

### TH

3/4" Rp (BSP)  
3/4" NPT

### ID

ISO: Ø25.3 mm  
BPE US: Ø25.7 mm  
DIN Range 1: Ø28.3 mm  
DIN Range 2: Ø29.3 mm

### OD x t

ISO: Ø25 x 1.2 mm  
BPE US: Ø25.4 x 1.65 mm  
DIN Range 1: Ø28 x 1 mm  
DIN Range 2: Ø29 x 1.5 mm

Type	A	B	C	E	F	G
Thread	102	Ø45	30	10		
Clip-on	133.5	Ø45		30	15	Ø4
Weld-on	120.5, 500, 1000	Ø45				

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