



# Alfa Laval SaniMagnum

## Rotary Spray Head

### Introduction

The Alfa Laval SaniMagnum is a rotary spray head tank cleaning machine for hygienic environments. Designed to clean tanks from 5 - 40 m<sup>3</sup>

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

### Application

The Alfa Laval SaniMagnum 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

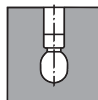
Different choice of spray pattern suitable for various applications and tank designs, ranging from simple tanks to more complex tanks with structure such as agitator and baffles. The SaniMagnum is lubricated by the cleaning media.

### Working principle

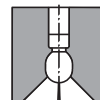
The flow of the cleaning media causes the head of the Alfa Laval SaniMagnum to rotate, and the fan-shaped jets layout a swirling pattern throughout the tank or reactor. This generates the wetting/impact needed for the efficient removal of the residual product; the cascading flow covers all internal surfaces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



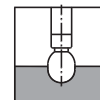
### Spray Pattern



360°



270° up



180° down

### Certificates

2.2 material certificate, Q-doc and ATEX.



## TECHNICAL DATA

Lubricant:	Self-lubricating with the cleaning fluid
Wetting radius:	Max. 3 m.
Impact cleaning radius:	Max. effective 2 m.

### Pressure

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

## PHYSICAL DATA

### Materials

Inlet connections/Head:	316L (UNS S31603)
Bearing race parts:	Duplex steel (UNS S31803)
Balls:	316L (UNS S31603) /PTFE
Clip parts:	316

### Standard Surface finish

exterior:	Ra 0.8µm
internal:	Ra 0.8µm

### Improved Surface finish

exterior:	Ra 0.5µm
internal:	Ra 0.8µm

### Temperature

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

### Weight

Thread and clip-on:	0.76 kg
On pipe:	0.97/1.52 kg

### Connections

- Thread: 1 1/4" or 1 1/2" Rp (BSP) or NPT
- Weld-on: 1 1/2" or 2" ISO 2037, or DN40 DIN11850-R2, or 1 1/2" or 2" BPE US
- Clip-on: 1 1/2" or 2" ISO 2037, or DN40 DIN11850-R1 or R2, or 1 1/2" or 2" BPE US

### Caution

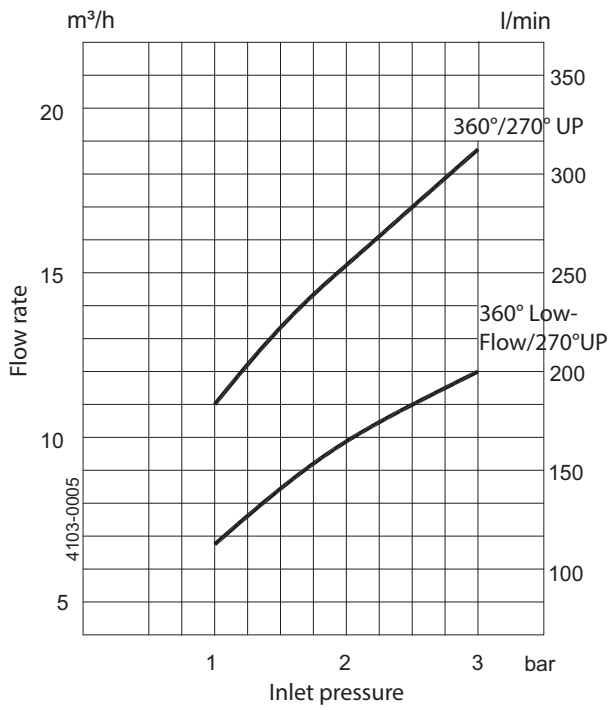
Avoid hydraulic shock, hard and abrasive particles in the cleaning liquid, as this can cause increased wear and/or damage of internal mechanisms. In general, a filter in the supply line is recommended. Do not use for gas evacuation or air dispersion. For steaming we refer to the manual.

## Qualification Documentation

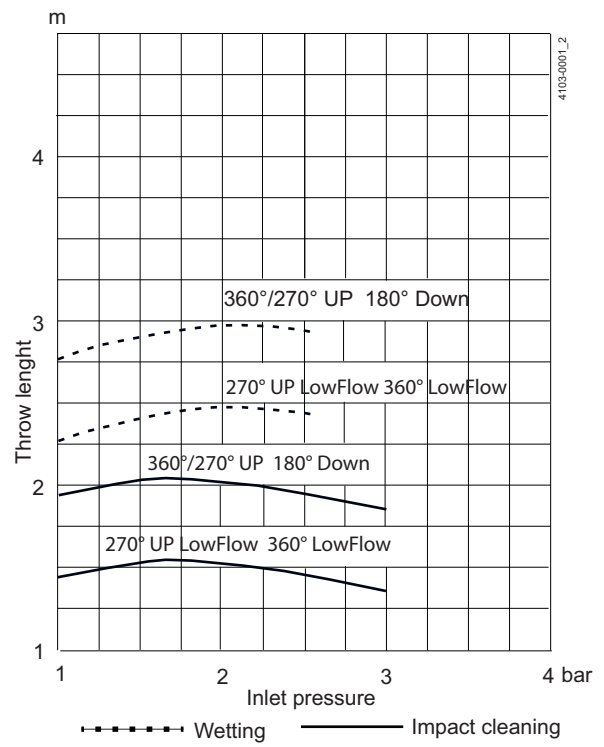
### Documentation specification

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. Category 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 IIC T85°C ...T140°C Da

### Flow Rate



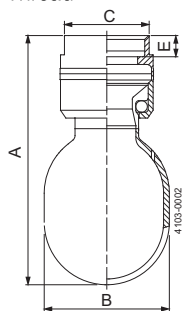
### Cleaning radius



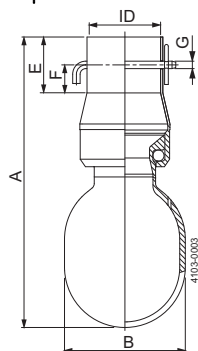
For Clip-on models, the flow rate is increased by approx. 1.5 m³/h

## Dimensions (mm)

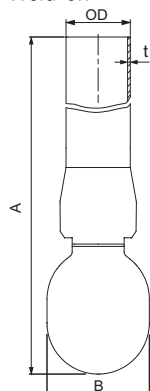
## Thread



## Clip-on



## Weld-on



## TH

1 1/4" (BSP)  
 1 1/4" NPT  
 1 1/2" (BSP)  
 1 1/2" NPT

## ID

ID 1: 1 1/2"       $\varnothing 38.4$  mm  
 ID 2: 2"          $\varnothing 51.3$  mm  
 DIN Range 1      $\varnothing 40.4$  mm  
 DIN Range 2      $\varnothing 41.4$  mm

## OD x t

ISO                  $\varnothing 38 \times 1.2$  mm  
 BPE US            $\varnothing 38.1 \times 1.65$  mm  
 BPE US            $\varnothing 50.8 \times 1.65$  mm  
 DIN Range 1      $\varnothing 40 \times 1$  mm  
 DIN Range 2      $\varnothing 41 \times 1.5$  mm

Type	A	B	C	E	F	G
Thread	130	$\varnothing 65$	44	10		
Clip-on	157	$\varnothing 65$		30	15	$\varnothing 4.2$
Weld-on	157, 500, 1000	$\varnothing 65$				

Alfa Laval reserves the right to change specifications without prior notification.

## How to contact Alfa Laval

Contact details for all countries  
 are continually updated on our website.  
 Please visit [www.alfalaval.com](http://www.alfalaval.com) to  
 access the information direct.