

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 m³.

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

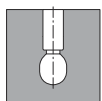
Standard design

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.

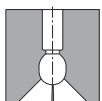
Working principle

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.

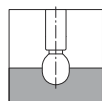
Spray Pattern



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 0.8 µm
Internal:	Ra 0.8 µm

Improved Surface finish

Exterior + Electro polished:	Ra 0.5 µm
Internal + Electro polished:	Ra 0.8 µm

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

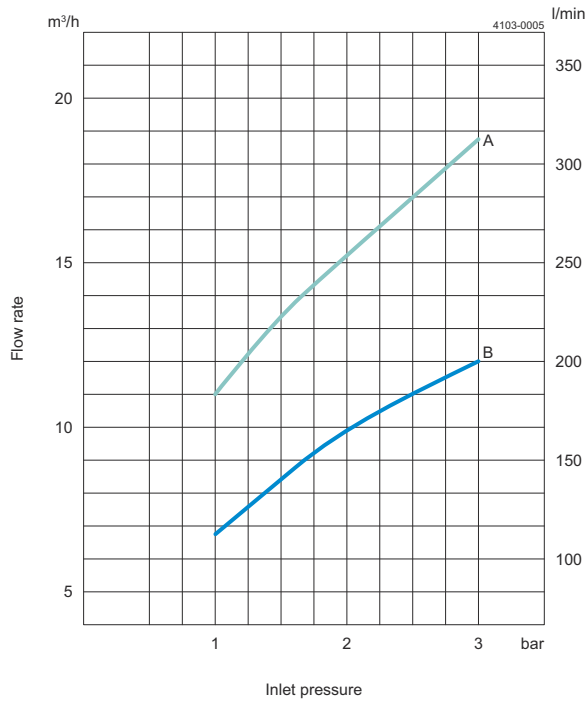
Avoid hydraulic shock, hard and abrasive particles in the cleaning liquid, as this can cause increased wear and/or damage of internal mechanisms. In general, a filter in the supply line is recommended. Do not use for gas evacuation or air dispersion. For steaming we refer to the manual.

Qualification Documentation

Documentation specification

Q-doc	Equipment Documentation includes: • 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

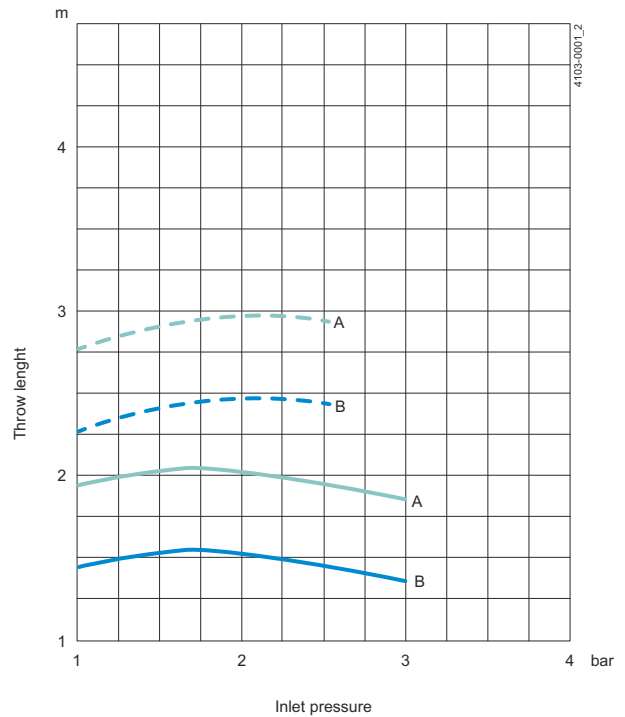
Flow Rate



A = 360°/
270° UP
B = 360° LowFlow/
270° UP LowFlow/
180° Down

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

Cleaning radius



--- Wetting — Impact cleaning

A = 360°/
270° UP
180° Down
B = 270° UP LowFlow
360° LowFlow

Dimensions (mm)

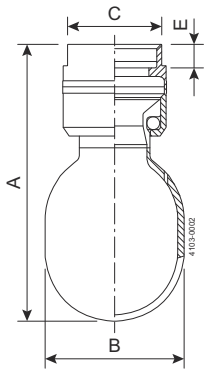


Figure 1. Thread

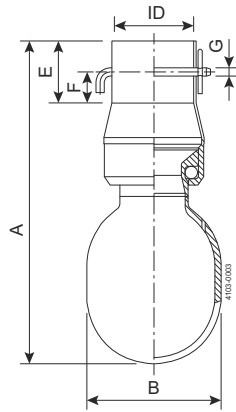


Figure 2. Clip-on

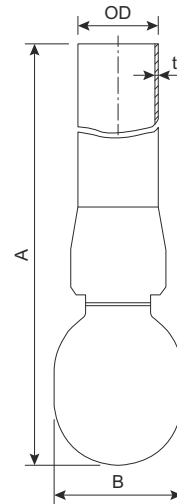


Figure 3. Weld-on

TH

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

ID

ID 1: 1 1/2" Ø38.4 mm
ID 2: 2" Ø51.3 mm
DIN Range 1 Ø40.4 mm
DIN Range 2 Ø41.4 mm

OD x t

ISO Ø38 x 1.2 mm
BPE US Ø38.1 x 1.65 mm
BPE US Ø50.8 x 1.65 mm
DIN Range 1 Ø40 x 1 mm
DIN Range 2 Ø41 x 1.5 mm

Type	A	B	C	E	F	G
Thread	130	Ø65	44	10		
Clip-on	157	Ø65		30	15	Ø4.2
Weld-on	157, 500, 1000	Ø65				

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