



Alfa Laval SaniMagnum

Rotary spray head tank cleaning device for low-flow cleaning in hygienic applications

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

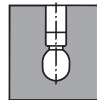
Different choice of spray pattern suitable for various applications and tank designs, ranging from simple tanks to more complex tanks with structure such as agitator and baffles. The SaniMagnum is lubricated by the cleaning media.

Working principle

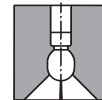
The flow of the cleaning media causes the head of the Alfa Laval SaniMagnum to rotate, and the fan-shaped jets layout a swirling pattern throughout the tank or reactor. This generates the wetting/impact needed for the efficient removal of the residual product; the cascading flow covers all internal surfaces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



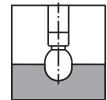
Spray Pattern



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 0.8µm
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

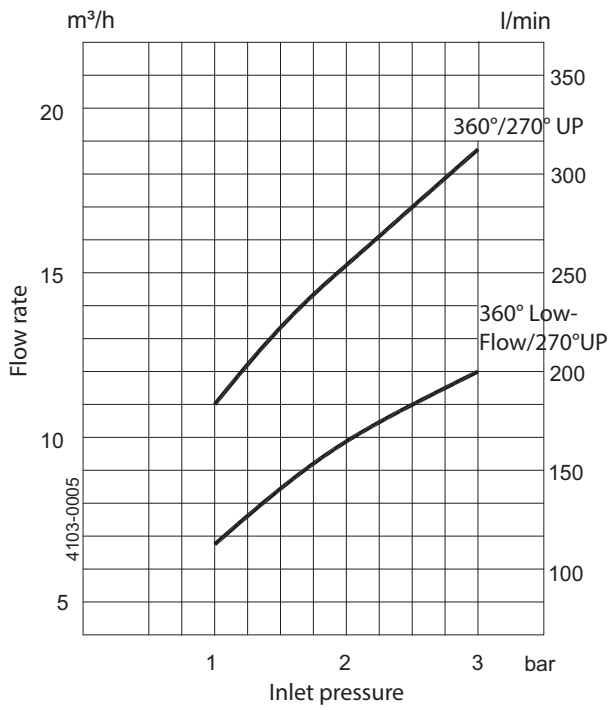
Connections	
- Thread: 1 1/4" or 1 1/2" Rp (BSP) or NPT	
- Weld-on: 1 1/2" or 2" ISO 2037, or DN40 DIN11850-R2, or 1 1/2" or 2" BPE US	
- Clip-on: 1 1/2" or 2" ISO 2037, or DN40 DIN11850-R1 or R2, or 1 1/2" or 2" BPE US	

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.	

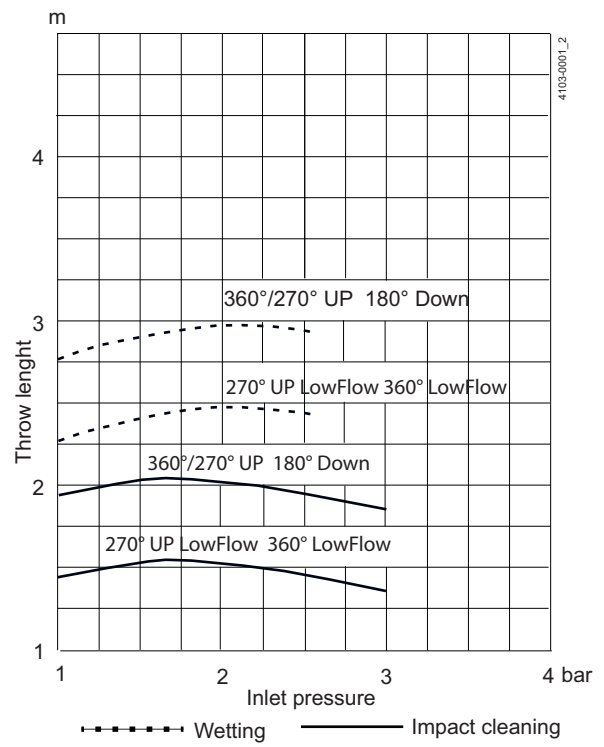
Qualification Documentation (Q-doc)

Documentation specification	
	Equipment Documentation includes:
	- EN 10204 type 3.1 Material Inspection certificate
Q-doc	- FDA Declaration of Conformity
	- ADI Declaration (TSE)
	- QC Declaration of Conformity
ATEX	ATEX approved machine for use in explosive atmospheres. Category 1 for installation in zone 0/20 in accordance to Ex II 1 GD c T 140°C.

Flow Rate



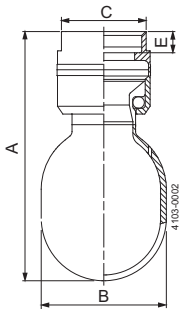
Cleaning radius



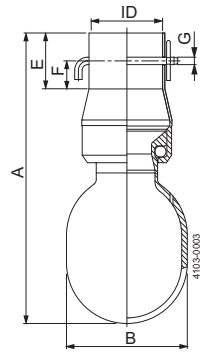
For Clip-on models, the flow rate is increased by approx. 1.5 m³/h

Dimensions (mm)

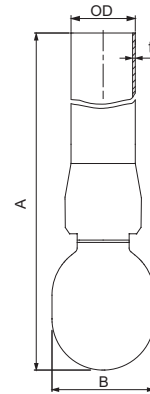
Thread



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 to access the information direct.