Alfa Laval SaniMagnum SB 3-A

Rotary Spray Head

Introduction
The Alfa Laval SaniMagnum SB 3-A is a rotary spray head tank cleaning machine for hygienic environments. Designed to clean tanks from 5-50 m^3.

The Alfa Laval SaniMagnum SB 3-A minimizes the consumption of water and cleaning media. Easy to customize to meet customer requirements, the SaniMagnum SB 3-A allows companies to spend less time cleaning and more time producing.

The SaniMagnum SB 3-A is authorized to carry the 3-A symbol.

Application
The Alfa Laval SaniMagnum SB 3-A 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 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 patterns suitable for various applications and tank designs, ranging from simple tanks to more complex tanks with structures such as agitator and baffles. The SaniMagnum SB 3-A is lubricated by the cleaning media.

Working principle
The flow of the cleaning media causes the head of the Alfa Laval SaniMagnum SB 3-A 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

Certificates
2.2 material certificates, Q-doc, 3-A and ATEX

TECHNICAL DATA

Lubricant:	Lubrication by rinse/cleaning fluid
Wetting radius:	Max. 4.5 m
Impact cleaning radius:	Max. 2.4 m

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

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.

PHYSICAL DATA

Materials	
Metalic parts:	316L
Non-metallic parts:	PEEK 450G*

* FDA compliance 21CFR§177

Surface finish:	Ra 0.8 µm

Temperature	
Max. working temperature:	95°C
Max. ambient temperature:	150°C

Weight:	0.4 kg.

Connections	
Clip-on:	1½" BPE US, 1½" ISO 2037
Weld-on:	2" BPE US*

Clip

Easy-on/off clip (ø4.0 mm)

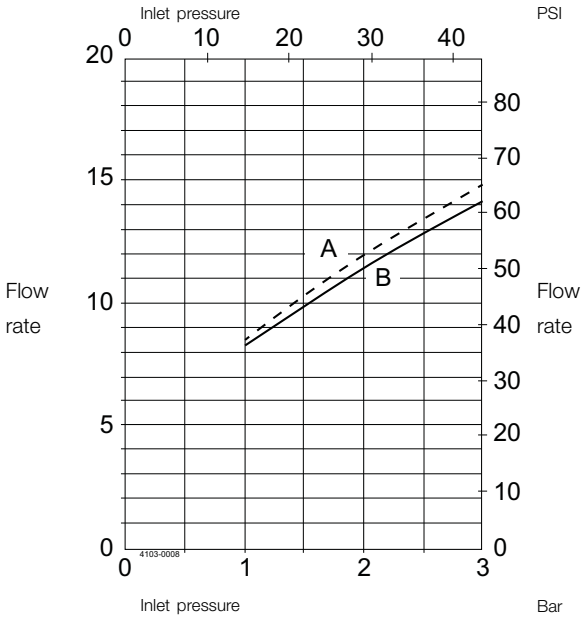
Clip needed for both clip-on and weld-on versions to assemblethe machine.

Recommended tank size:	23-68 m^3

Qualification Documentation

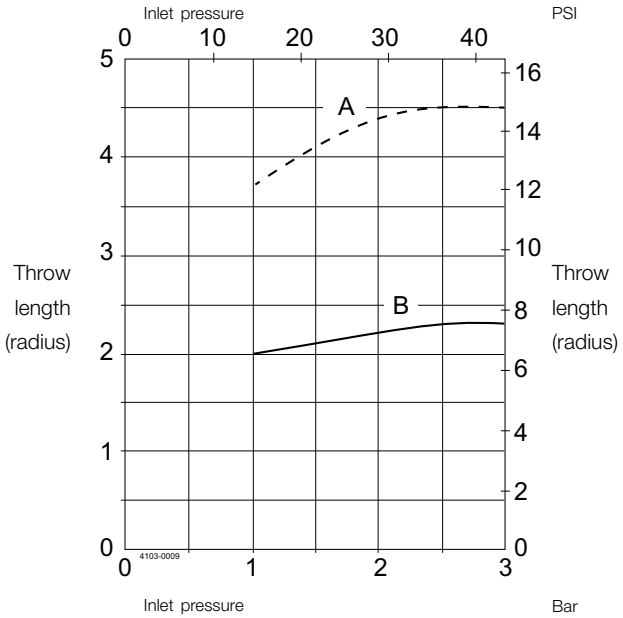
Documentation specification	
Q-doc	Equipment Documentation includes: - EN 1935/2004 DoC - EN 10204 type 3.1 inspection Certificate and DoC - FDA DoC - GMP EC 2023/2006 DoC - EU 10/2011 DoC - ADI DoC - QC DoC
ATEX	ATEX approved machine for use in explosive atmospheres. Catagory 1 for installation in zone 0/20 in accordance with Directive 2014/34/EU II 1G Ex h IIB 85°C ...175°C Ga II 1D Ex h IIIC T85°C ...T140°C Da
3-A	3-A number: 78-##. Spray Cleaning Devices

Flow Rate



A = 360° - B = 270°

Cleaning radius



A = Wetting - B = Impact Cleaning

For Clip-on models, the flow rate is increased by approx. 1.5 m^3/h.

Note: The inlet pressure has been taken immediately before the inlet to the machine. In order to achieve the performance indicated on the curves, the pressure drop in the supply lines between pump and machine must be taken in consideration and the water temperature during testing was approx. 20°C.

Dimensions (mm)

Type	A	B	E	G	ID	OD	t	Clip
Clip-on	118.3	54.7	25.4	ø4.1	ø 38.4			ø4.0
Weld-on**	138.9	54.7				ø38.1	1.2	

** Weld-on version only meets the requirements of the 3-A Hygienic Standard 78-# # if installed according to the user manual.

ESE02216en 2107

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.