

Alfa Laval TJ SaniMagnum Rotary Spray Head

Hygienic, Low-Flow Cleaning

Application

The Toftejorg SaniMagnum is an efficient replacement for traditional static spray balls as it uses low volumes of liquid at low pressure. The device, particularly well-suited to hygienic applications, can be used in tanks ranging from 5 m³ to 50 m³.

Working principle

The flow of the cleaning media causes the head of the Toftejorg SaniMagnum to rotate, with fan jets laying out a swirling pattern throughout the vessel. This generates a vibrating impact and cascading flow that covers all internal surfaces of the tank or reactor. The device's self-cleaning feature is achieved by directing the cleaning media through the rotating bearing track and onto the neck of the elongated head.



TECHNICAL DATA

Lubricant: Self-lubricating with the cleaning fluid

Wetting radius: Max 3 m

Pressure

Spray Pattern



360





270° up

Standard Design

As standard documentation, the Toftejorg SaniMagnum can be supplied with a "Declaration of Conformity" for material specifications or 3.1 certification for metallic parts. Conformity of Declaration ATEX available on request. The device is available in hastelloy C22 (balls in hastelloy C276) with 3.1 certification for metallic parts. ATEX approved, Category 1 for installation in zone 0/20.

Certificates

2.2 material certificate, Q-doc, Q-doc incl. FAT & SAT and ATEX.





PHYSICAL DATA

Materials

* FDA compliance 21CFR§177

Standard Surface finish:

 exterior:
 Ra 0.8µm

 internal:
 Ra 0.8µm

Improved Surface finish:

exterior + Electro polished: Ra 0.5µm internal + Electro polished: Ra 0.5µm

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

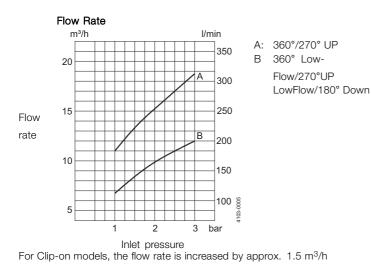
Connections

- 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

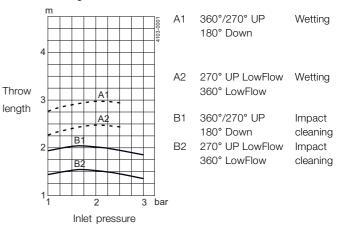
Qualification Documentation (Q-doc)

Designed for the BioPharm and Personal Care industry for qualification of hygienic Tank Cleaning Machines. Developed in according to the ISPE V-model and GDP, Good Documentation Practice, and includes:

RS (Requirement Specification); DS (Design Specification incl. Traceability Matrix); FAT (Factory Acceptance Test incl. IQ & OQ); 3.1 and USP Class VI Certificates; FDA Declaration of Conformity; TSE Declaration; QC Declaration of Conformity; SAT (Site Acceptance Test Protocol incl. IQ & OQ) for End-User Execution.



Cleaning radius



Dimensions (mm)

Thread

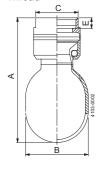
TH

1 1/4" (BSP)

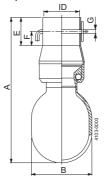
1 1/4" NPT

11/2" (BSP)

11/2" NPT



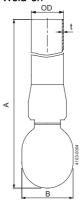
Clip-on



ID ·

ID 1: 1½" ID 2: 2" DIN Range 1 DIN Range 2 ø38.4 mm ø51.3 mm ø40.4 mm ø41.4 mm

Weld-on



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Туре	Α	В	С	E	F	G
Tread	130	ø 65	44	10		
Clip-on	157	ø65		30	15	ø4.2
Weld-on	157, 500, 1000	ø65				

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

How to contact Alfa Laval