

Sanitary, Low-Flow Cleaning

Toftejorg SaniMagnum Rotary Spray Head

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 sanitary 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
Impact cleaning radius:	Max. effective 2 m

Pressure

Working pressure:									1-3 bar
Recommended press	su	Ire):						2 bar

Spray Pattern





up Low Flow





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Standard Design

360°/360° Low Flow

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 directive 94/9/EC 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

Inlet connections:	x steel (UNS N31803)
Balls:	(UNS S31603) /PTFE*
Head:	(UNS S31603)
* FDA compliance 21CFR§177	
Standard Surface finish: Ra 0.3 intern	•
Improved Surface finish:	5µm exterior / Ra 0.5µm al + Electro polished

Temperature

Weight

 Thread and clip-on:
 0.76 kg

 On pipe:
 0.97/1.52 kg

Connections

- Thread: 1 1/4" or 1 1/2" of Rp (BSP) or NPT
- Weld-on: 1 1/2" or 2" of ISO 2037, or DN40 DIN 11850-R2, or 1 1/2" or 2" of BPE US
- Clip-on: 1 1/2" or 2" of ISO 2037, or DN40 DIN 11850-R1 or R2, or 1 1/2" or 2" of BPE US

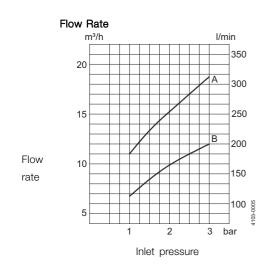


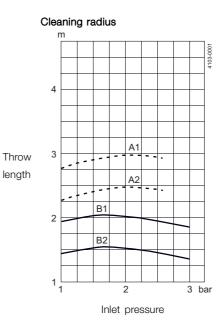


Qualification Documentation (Q-doc)

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.

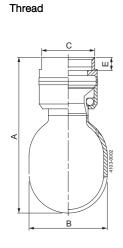




A: B	360°/270° UP 360° LowFlow/270°UP LowFlow/180° Down						
A1	360°/270° UP 180° Down	Wetting					
A2	270° UP LowFlow 360° LowFlow	Wetting					
B1	360°/270° UP 180° Down	Impact cleaning					
B2	270° UP LowFlow 360° LowFlow	Impact cleaning					
For Clip-on models, the flow rate is							

F increased by approx. 1.5 m³/h

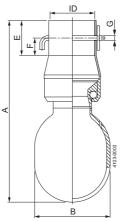
Dimensions (mm)



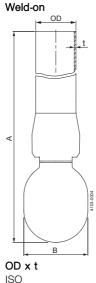
ΤH 1 1/4" (BSP) 1 1/4" NPT 11/2" (BSP) 11⁄2" NPT



ID



ID 1: 11/2" **ø**38.4 mm ID 2: 2" **ø**51.3 mm DIN Range 1 **ø**40.4 mm DIN Range 2 **ø**41.4 mm



ISO BPE US BPE US DIN Range 1 DIN Range 2

ø38 x 1.2 mm ø38.1 x 1.65 mm ø50.8 x 1.65 mm ø40 x 1 mm ø41 x 1.5 mm

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

ESE00332EN 1201

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