

Sanitary, Low-Flow Cleaning

Alfa Laval TJ SaniMidget Rotary Spray Head

Application

The Toftejorg SaniMidget 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 0.1 to 10 m³.

Working principle

The flow of the cleaning media causes the head of the Toftejorg SaniMidget 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 1.4 m

Pressure

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

Spray Pattern



360°



270° up



180° down

Standard Design

As standard documentation, the Toftejorg SaniMidget can be supplied with a "Declaration of Conformity" for material specifications or 3.1 certification for metallic parts. The device is available in an electro-polished version as well as in hastelloy C22 (balls in hastelloy C276) with 3.1 certification for metallic parts.

Certificates

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

PHYSICAL DATA

Materials

AISI 316L (UNS S31603). PTFE*

* FDA compliance 21CFR§177.

Clip parts 316

Standard Surface finish:

exterior: Ra 0.5µm

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: 0.30 kg

On pipe: 0.55/0.90 kg

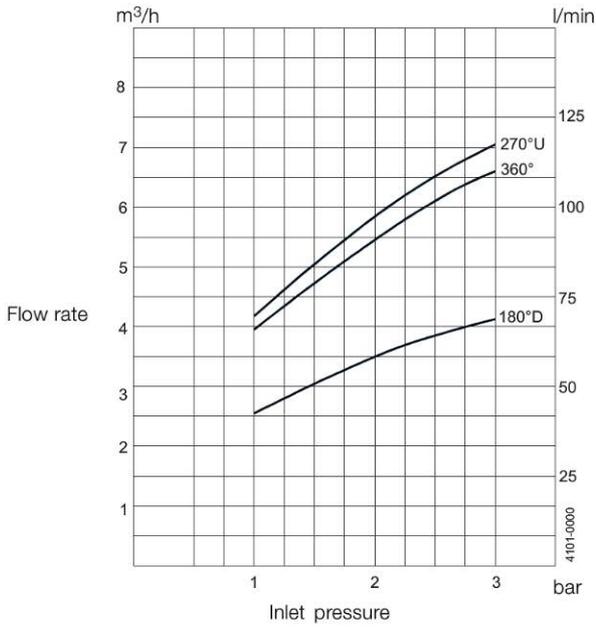
Connections

- Thread: 3/4" Rp (BSP), or 3/4" or 1/2" NPT

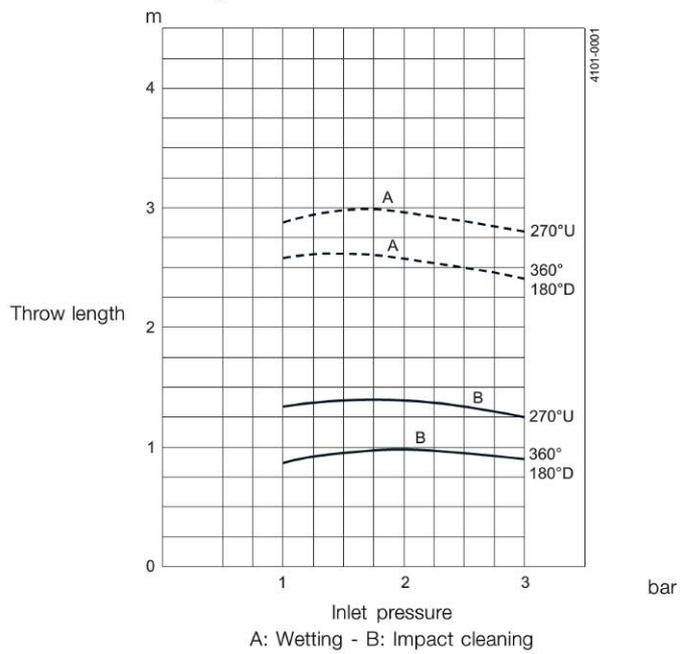
- Weld-on: 1" ISO 2037, or DN25 DIN11850-R2, or 1" BPE US

- Clip-on: 1" ISO 2037, or DN25 DIN11850-R1 or R2, or 1" BPE US

Flow Rate



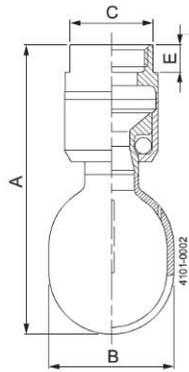
Cleaning Radius



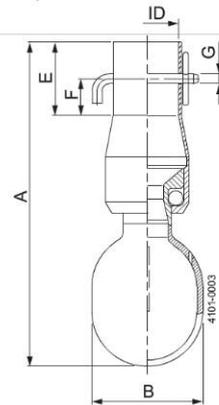
For clip-on models, the flow rate is increased by approx. 0.5 m³/h.

Dimensions (mm)

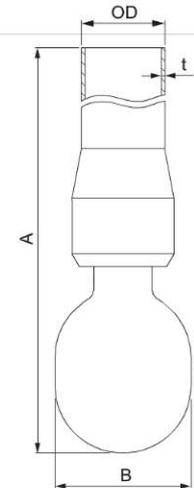
Thread



Clip-on



Weld-on



TH
3/4"Rp (BSP)
3/4" NPT

ID
ISO: $\varnothing 25.3$ mm
BPE US: $\varnothing 25.7$ mm
DIN Range 1: $\varnothing 28.3$ mm
DIN Range 2: $\varnothing 29.3$ mm

OD x t
ISO: $\varnothing 25 \times 1.2$ mm
BPE US: $\varnothing 25.4 \times 1.65$ mm
DIN Range 1: $\varnothing 28 \times 1$ mm
DIN Range 2: $\varnothing 29 \times 1.5$ mm

Type	A	B	C	E	F	G
Thread	102	$\varnothing 45$	30	10		
Clip-on	133.5	$\varnothing 45$		30	15	$\varnothing 4$
Weld-on	120.5, 500, 1000	$\varnothing 45$				

