



Alfa Laval SaniMidget

Hygienic, Low-Flow Cleaning

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 hygienic 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 UltraPure 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 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

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

- 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

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)

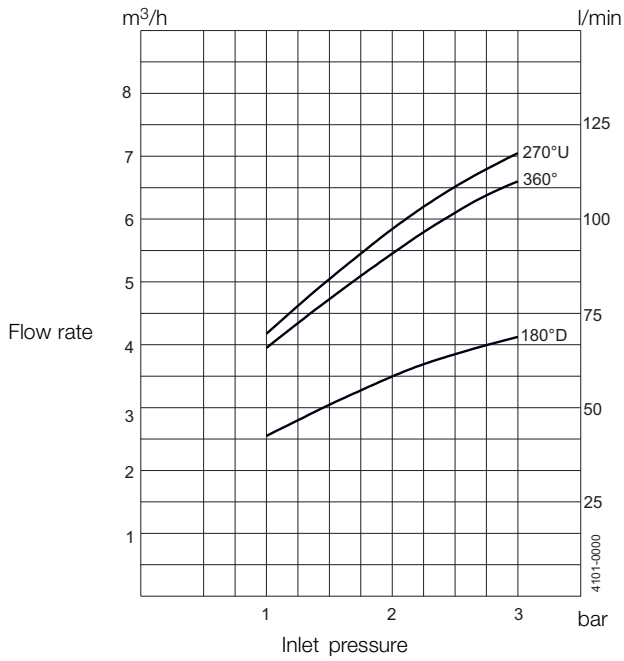
Documentation specification

- 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

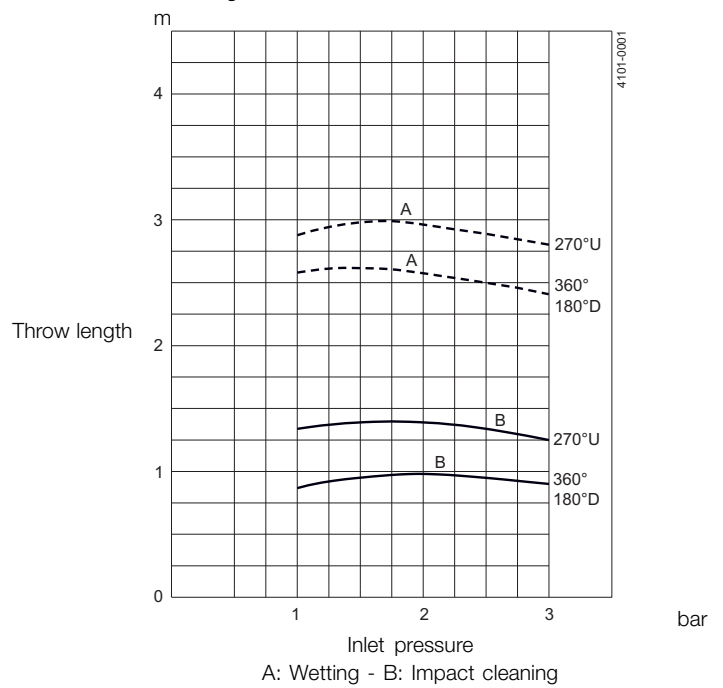
ATEX approved machine for use in explosive atmospheres.
 Category 1 for installation in zone 0/20 in accordance to
 Ex II 1 GD c T 140°C.

Flow Rate



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

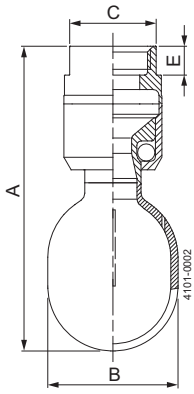
Cleaning Radius



A: Wetting - B: Impact cleaning

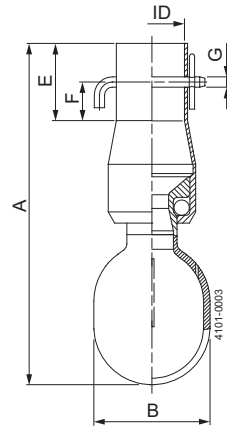
Dimensions (mm)

Thread



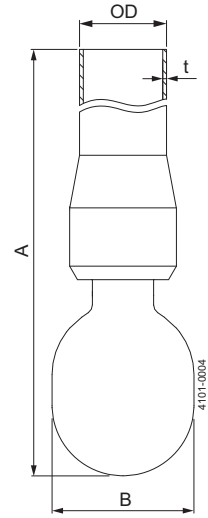
TH
3/4"Rp (BSP)
3/4" NPT

Clip-on



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

Weld-on



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	$\varnothing 45$				

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.