



## Sanitary, Low flow cleaning that meets 3-A standards

### Toftejorg SaniMidget SB 3-A Rotary Spray Head

#### Application

The Toftejorg SaniMidget SB 3-A Rotary Spray Head is designed for preliminary the pharmaceutical industry with respect to self-cleaning, self-draining and inspectability. Its novel patent pending one-clip assembly offers easy installation, disassembly and inspection without compromising cleanability or drainability. Sizing/selection and installation drawing are available. Contact Alfa Laval for recommendations.

#### Working Principles

The flow of cleaning media causes the head of the SaniMidget SB 3-A to rotate, with fans of water laid out in a swirling pattern on the entire perimeter exposed to the spray pattern. This generates a vibrating impact in the 270° upward pattern and a dynamic cascading flow that covers internal surfaces of the tank, vessel or reactor. The SaniMidget SB 3-A is designed according to EHEDG and GMP Guidelines.



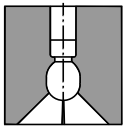
#### TECHNICAL DATA

Lubricant: . . . . . Lubrication by rinse/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



270° up

#### Standard design

The SaniMidget SB 3-A can be supplied with 3.1 certificates for metallic parts and 3-A conformity\*\*\* on its plastic part. The SaniMidget SB/UltraPure is also available with Alfa Laval Q-doc.

\*\*\* = Implies that the material complies with FDA 21CFR.

#### Certificates

2.2, 3.1 material certificate, EHEDG and 3-A.

#### PHYSICAL DATA

#### Materials

Metallic parts: . . . . . AISI 316L (UNS S31603)  
Non-metallic parts: . . . . . PEEK 450G  
Surface finish: . . . . . Ra < 0.8µm  
Option (EP): Ra < 0.5µm  
Steam or gas (air): . . . . . Not supported - contact Alfa Laval

Weight: . . . . . 1" : 0.20 kg / 1½": 0.44 kg

#### Temperature

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

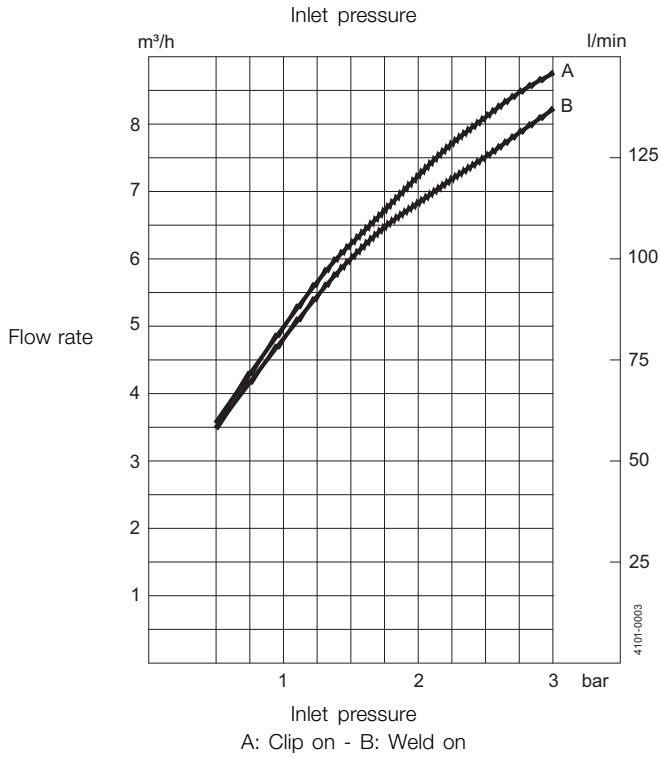
#### Connections

- Weld-on: 1" of ISO 2037, or DN25 DIN 11850-R1, or 1" of BPE US  
- Clip-on: 1 1/2" of ISO 2037, or 1" or 1 1/2" of BPE US

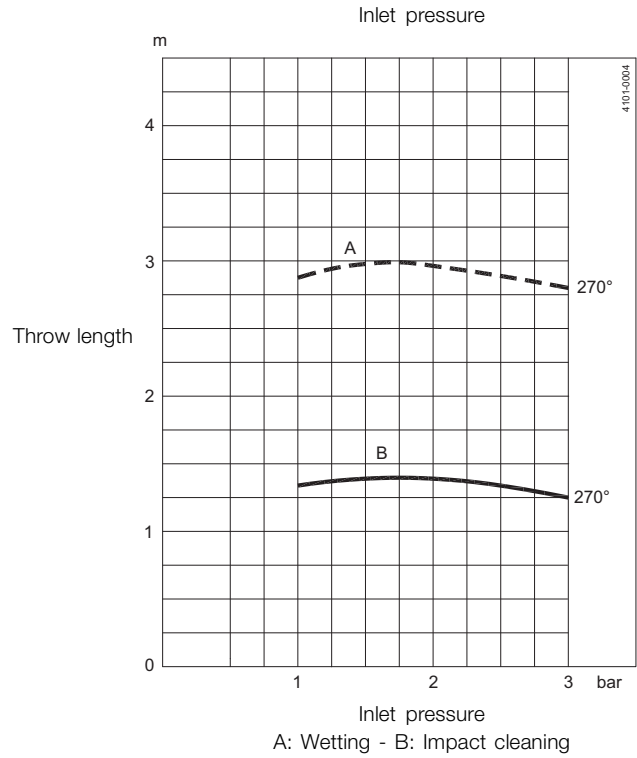
#### Clip-on options

Easy-on/off clip (ø4.0 mm). Clip needed for both clip-on and weld-on versions to assemble the machine.

### Flow Rate

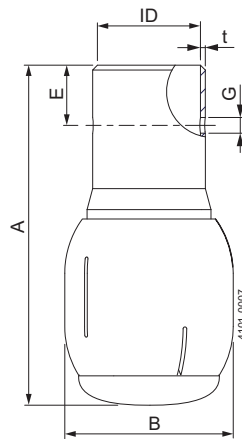


### Cleaning Radius



**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)



|        | Clip-on<br>1" BPE US | Clip-on<br>1½" BPE US/1½"<br>ISO 2037 | Weld-on*<br>1" ISO 2037 | Weld-on*<br>1" BPE US | Weld-on*<br>DN25 DIN R1 |
|--------|----------------------|---------------------------------------|-------------------------|-----------------------|-------------------------|
|        | mm                   | mm                                    | mm                      | mm                    | mm                      |
| ID     | ø25.7                | ø38.4                                 | ø22.6                   | ø22.1                 | ø25.7                   |
| t      | 1.2                  | 1.2                                   | 1.2                     | 1.65                  | 1.2                     |
| B      | ø42.0                | ø54.7                                 | ø42.0                   | ø42.0                 | ø42.0                   |
| A      | 84.8                 | 118.3                                 | 104.8                   | 108.8                 | 84.8                    |
| Ø-clip | ø4.0                 | ø4.0                                  | ø4.0                    | ø4.0                  | ø4.0                    |
| G      | ø4.1                 | ø4.1                                  | ø4.1                    | ø4.1                  | ø4.1                    |
| E      | 15.0                 | 25.4                                  |                         |                       |                         |

\* Weld-on version only meets the requirements of the 3-A Sanitary Standard 78-01 if installed according to the user manual.

\*\* Third Party Verification shows that this machine meets the requirements of the 3-A Sanitary Standard 78-01.

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**How to contact Alfa Laval**

Contact details for all countries are continually updated on our website. Please visit [www.alfalaval.com](http://www.alfalaval.com) to access the information direct.

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