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

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

Certificates
- 2.2 material certificate, Q-doc, Q-doc incl. FAT & SAT and ATEX.
- 3.1 certification for metallic parts.

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.
For clip-on models, the flow rate is increased by approx. 0.5 m$^3$/h.

**Dimensions (mm)**

<table>
<thead>
<tr>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thread</td>
<td>102</td>
<td>ø45</td>
<td>30</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clip-on</td>
<td>133.5</td>
<td>ø45</td>
<td>30</td>
<td>15</td>
<td>ø4</td>
<td></td>
</tr>
<tr>
<td>Weld-on</td>
<td>120.5, 500, 1000</td>
<td>ø45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>