Low Flow Saves on Water and Chemicals

Toftejorg MultiMidget Rotary Spray Head

Application
The Toftejorg MultiMidget is a rotary spray head that uses cleaning media to provide coverage and impact. The device represents an effective alternative to traditional static spray balls because it uses low volumes of cleaning fluid at low pressure. The double ball bearing in the Toftejorg MultiMidget’s rotating head makes the device suitable for all industrial cleaning applications, including tanks, reactors, vessels and other containers ranging from 0.1 m$^3$ to 10m$^3$ (27 - 2,700 US gallons), depending on dimensions and cleaning task.

Working principle
The flow of the cleaning media causes the head of the Toftejorg MultiMidget to rotate, and the fan-shaped jets lay out a swirling pattern throughout the tank or reactor. This generates the impact needed for the efficient removal of residual product; the cascading flow covers all internal surfaces of the vessel.

The MultiMidget are designed to be installed in any given angle

Spray Pattern

360°  270° up  180° down

Standard Design
As standard documentation, the Toftejorg MultiMidget can be supplied with a “Declaration of Conformity” for material specifications.

Materials
Inlet connections: .......... 1.4401 (316)
Bearing race parts: .......... UNS S31803
Balls: ......................... 1.4401 (316)
Head: ......................... 1.4404 (316L).

Technical Data
Weight: ................. 0.50 kg (1.1 lbs)
On pipe: 0.90 kg (1.98 lbs)
Thread: ...................... 1/2” or 3/4” Rp (BSP) or NPT thread weld-on for pipe: ISO2037, ASTM A270, BS4825 part 1 or DIN 11.850, Clip-on ISO 2037
Lubricant: ................. Self-lubricating with the cleaning fluid
Working pressure: .......... 1 - 3 bar (14.5 - 44 psi)
Recommended pressure: ......... 2 bar (29 psi)
Max. working temperature: ....... 95 °C (203 °F)
Max. ambient temperature: ....... 140 °C (284 °F)
Wetting pattern: ............. Max. 3 m (10 ft)
Impact cleaning radius: .......... Max. effective 1.4 m (4 ft)

Connection: ............... 1/2” or 3/4” Rp (BSP) or NPT thread weld-on for pipe: ISO2037, ASTM A270, BS4825 part 1 or DIN 11.850, Clip-on ISO 2037

Standard Surface finish: 0.8 Ra outside / 0.8 Ra inside

Certificate: 2.1

Ordering
Please specify desired spray pattern, required connections.
Please also confirm the application suitability.

Sizing/selection and installation drawings are available in Alfa Laval’s Selection Tools for Tank Cleaning Equipment.
A: Wetting - B: Impact cleaning

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

**Dimensions (mm / inch)**

**Thread**
- TH
- 1/2" Rp (BSP)
- 3/4" Rp (BSP)
- 1/2" NPT
- 3/4" NPT

**Clip-on**
- ID
- ISO: ø25.3 mm
- 2 x ø4.7 / 0.08 x ø0.19
- ø45 / 1.77
- 95.6 / 3.77
- 56.5 / 2.22
- ø45 / 1.77

**Weld-on**
- OD x t
- Welded on pipe
- ISO: ø25 x 1.6 mm
- DN25: ø29 x 1.5 mm
- ø45 / 1.77
- 500 / 19.68

The information contained herein is correct at the time of issue, but may be subject to change without prior notice.

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.