



Alfa Laval MultiMagnum

Low Flow Saves on Water and Chemicals

Application

The Toftejorg MultiMagnum 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 MultiMagnum's rotating head makes the device suitable for all industrial cleaning applications, including tanks, reactors, vessels and other containers ranging from 5 m³ to 50 m³, depending on dimensions and cleaning task.

Working principle

The flow of the cleaning media causes the head of the Toftejorg MultiMagnum 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 MultiMagnum are designed to be installed in any given angle.



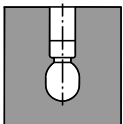
TECHNICAL DATA

Lubricant: Self-lubricating with the cleaning fluid
 Wetting radius: Max. 3 m
 Impact cleaning radius: Max. effective 2 m

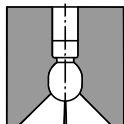
Pressure

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

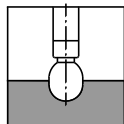
Spray Pattern



360°



270° up



180° down

Standard Design

As standard documentation, the Toftejorg MultiMagnum can be supplied with a "Declaration of Conformity" for material specifications.

Certificates

2.1 material certificate.



PHYSICAL DATA

Materials

Inlet connections/Balls: 316 (UNS S31600)
 Bearing race parts: Duplex steel (UNS S31803)
 Head: 316 (UNS S31603)
 * FDA compliance 21CFR§177
 Standard Surface finish: Ra 0.8µm exterior/ Ra 0.8µm internal

Standard Surface finish:

exterior: Ra 0.8µm
 internal: Ra 0.8µm

Temperature

Max. working temperature: 95°C
 Max. ambient temperature: 140°C

Weight

Thread: 0.90 kg
 On pipe: 2.5 kg

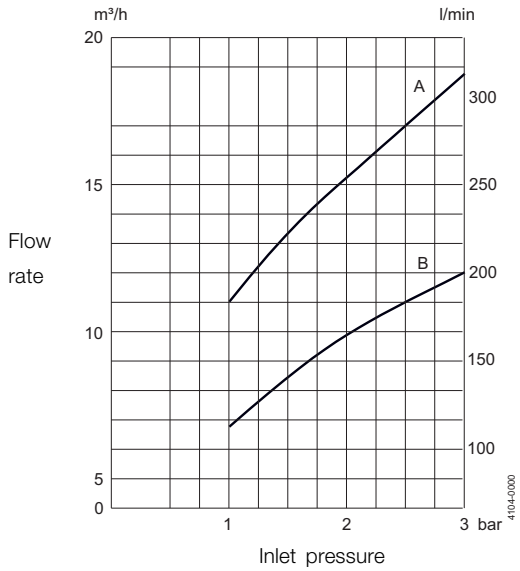
Connections

- Thread: 1 1/4" Rp (BSP) or NPT
- Weld-on: 1 1/2" ISO 2037 or DN40 DIN11850-R2

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.

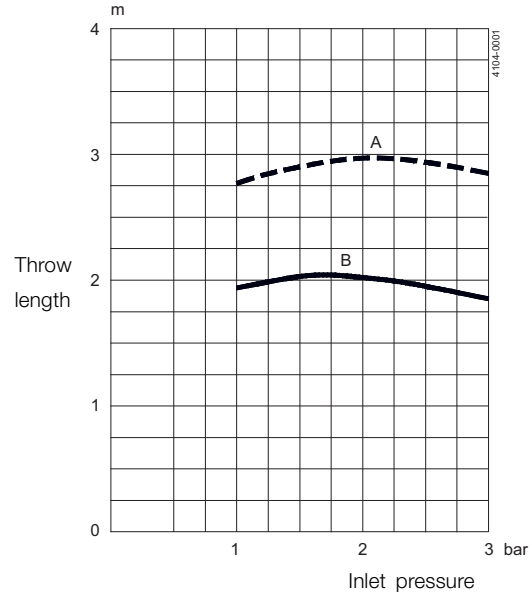
Flow Rate



A: 360°
270° UP

B: 180°

Cleaning radius



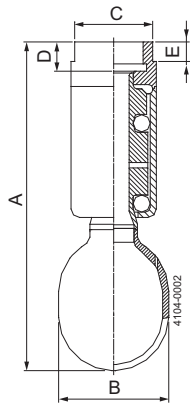
A: 360°
270° UP
180° Down

B: 360°
270° UP
180° Down

A: Wetting - B: Impact cleaning

Dimensions (mm)

Thread

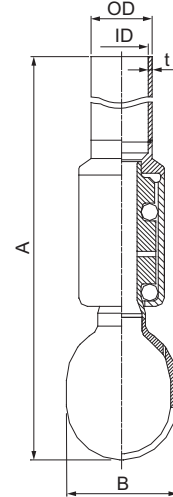


TH

1 1/4" Rp (BSP)

1 1/4" NPT

Weld-on



OD x t

Welded on

pipe

ISO: $\varnothing 38 \times 1.2$ mm

DIN Range 2: $\varnothing 41 \times 1.5$ mm

| Type | A | B | C | D | E |
|---------|------|------------------|----|----|----|
| Thread | 183 | $\varnothing 65$ | 46 | 16 | 15 |
| Weld-on | 1000 | $\varnothing 65$ | | | |

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.