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## 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 m<sup>3</sup> to 50 m<sup>3</sup>, 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.



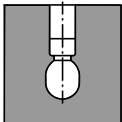
#### TECHNICAL DATA

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

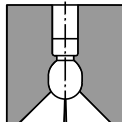
#### Pressure

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

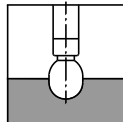
#### Spray Pattern



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

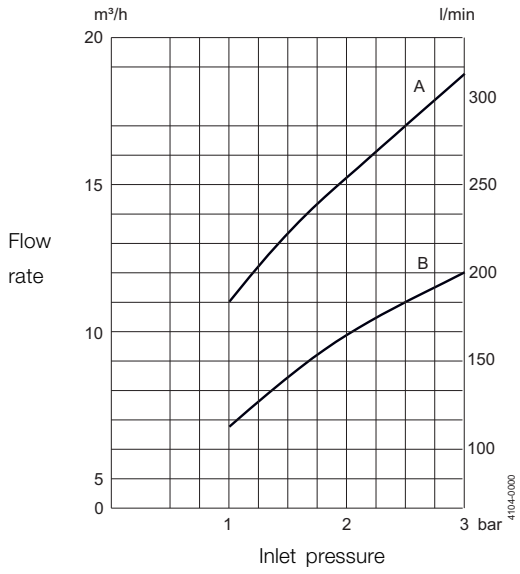
##### Connections

- 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.

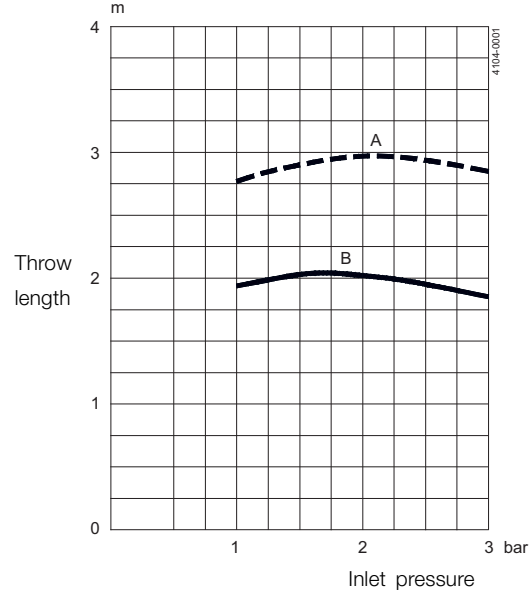
**Flow Rate**



A: 360°  
270° UP

B: 180°

**Cleaning radius**



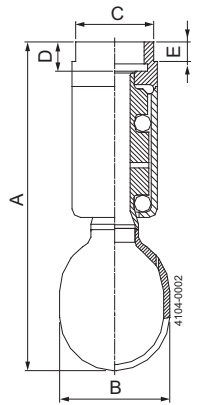
A: 360°  
270° UP  
180° Down

B: 360°  
270° UP  
180° Down

A: Wetting - B: Impact cleaning

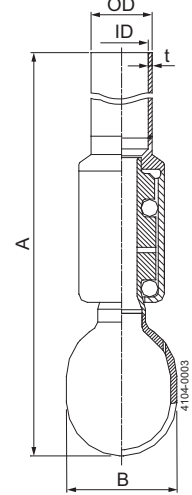
**Dimensions (mm)**

**Thread**



**TH**  
1 1/4" Rp (BSP)  
1 1/4" NPT

**Weld-on**



**OD x t**  
**Welded on pipe**  
ISO: ø38 x 1.6 mm  
DIN Range 2: ø41 x 1.5 mm

Type	A	B	C	D	E
Thread	183	ø65	46	16	15
Weld-on	1000	ø65			

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