



# Low Flow Saves on Water and Chemicals

## Toftejorg MultiMagnum Rotary Spray Head

### 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> (1,300 - 13,000 US gallons), depending on dimensions and cleaning task.

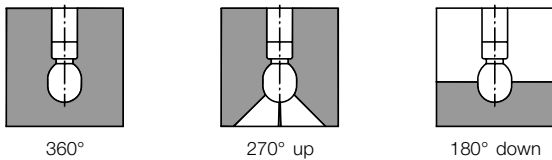
Sizing/selection and installation drawing are available in Alfa Laval CAS tool for Tank cleaning equipment.

### 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.

### Spray Pattern



### Standard Design

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

### Materials

Inlet connections: . . . . .1.4401 (316)  
 Bearing race parts: . . . . .SAF 2205 (UNS 31803)  
 Balls: . . . . .1.4401 (316)  
 Head: . . . . .1.4404 (316L)

### Ordering

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

### Options

Downpipes with Tri-Clamp and flange connections.



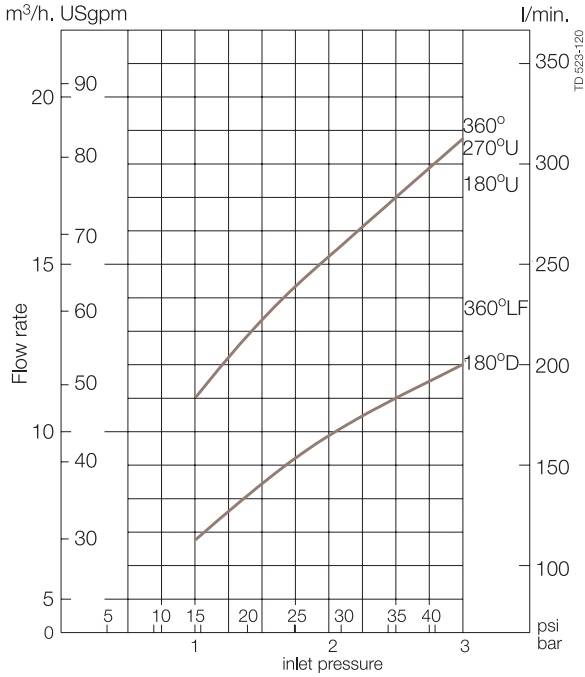
### Technical Data

Weight: . . . . .	Thread: 0.90 kg (1.98 lbs) On pipe: 2.5 kg (5.51 lbs)
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 radius: . . . . .	Max. 3 m (10 ft)
Impact cleaning radius: . . . . .	Max. effective 2 m (6 ft)
Connection: . . . . .	1 1/4" Rp (BSP) or NPT thread.
	Weld-on for pipe: ISO2037, ASTM A270, BS4825 part 1 or DIN 11.850

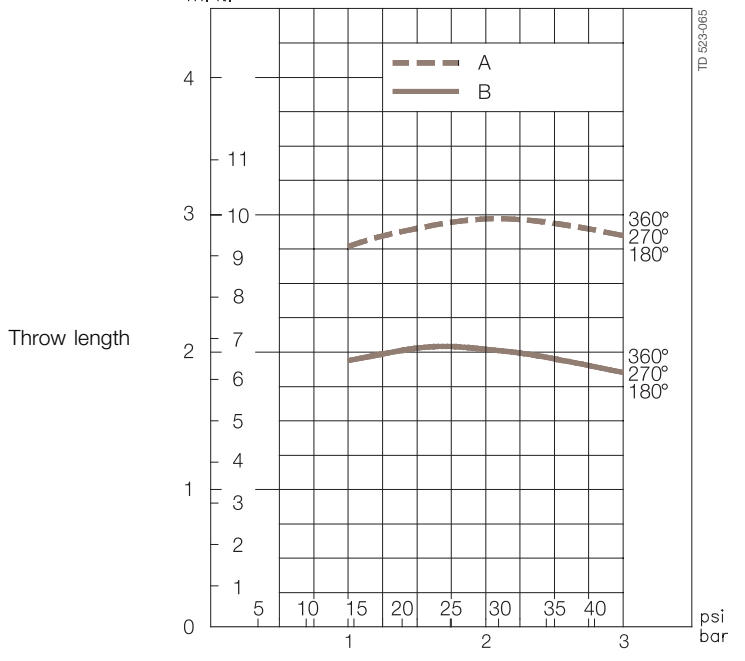
### Certificate:

2.1 - 3.1.B - ATEX

### Flow Rate



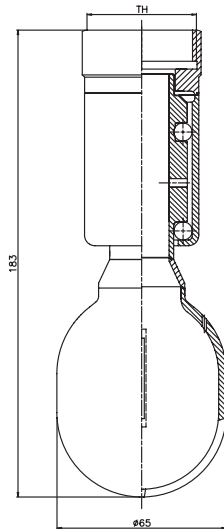
### Cleaning Radius



A = Wetting B = Impact cleaning

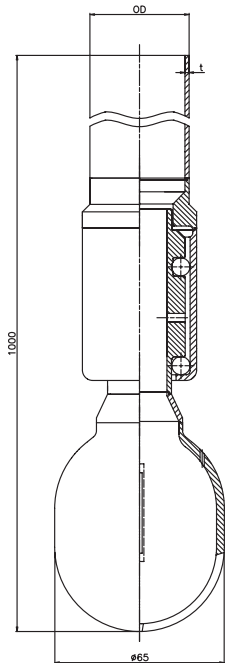
For clip-on models, the flow rate is increased by approx 1.5 m<sup>3</sup>/h.

### Dimensions (mm)



#### TH

1 1/4" Rp (BSP)  
1 1/4" Rp (BSP)



#### OD x t

#### Welded on pipe

ISO: ø38 x 1.6  
DN40: ø41 x 1.5

ESE00329EN 0701

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](http://www.alfalaval.com) to access the information direct.

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