



# Low Flow Saves on Water and Chemicals

## Alfa Laval TJ 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>, depending on dimensions and cleaning task.

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### 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.

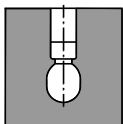
### TECHNICAL DATA

Lubricant:	Self-lubricating with the cleaning fluid
Lubricant:	Self-lubricating with the cleaning fluid
Wetting radius:	Max. 3 m
Wetting radius:	Max. 10 ft
Impact cleaning radius:	Max. effective 2 m
Impact cleaning radius:	Max. effective 6 ft

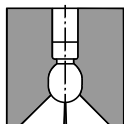
### Pressure

Working pressure:	1-3 bar
Working pressure:	14.5 - 44 PSI
Recommended pressure:	2 bar
Recommended pressure:	29 PSI

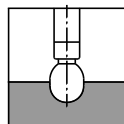
### Spray Pattern



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)
Standard Surface finish:	Ra 0.8µm exterior/ Ra 0.8µm internal
Standard Surface finish:	Ra 32µin outside / Ra 32µin inside

#### Standard Surface finish:

exterior:	Ra 0.8µm
exterior:	Ra 32µin
internal:	Ra 0.8µm
internal:	Ra 32µin

#### Temperature

Max. working temperature:	95°C
Max. working temperature:	203°F
Max. ambient temperature:	140°C
Max. ambient temperature:	284°F

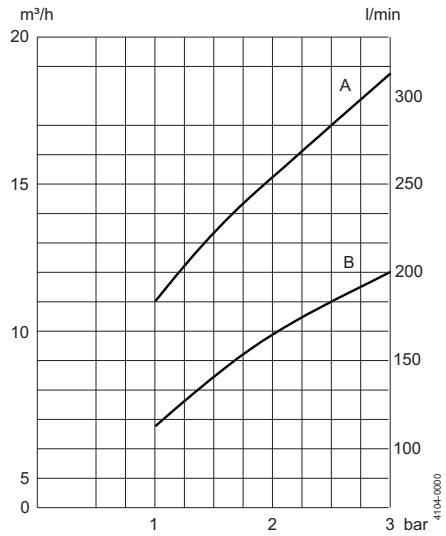
#### Weight

Thread:	0.90 kg
Thread:	1.98 lbs
On pipe:	2.5 kg
On pipe:	5.51 lbs

#### Connections

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

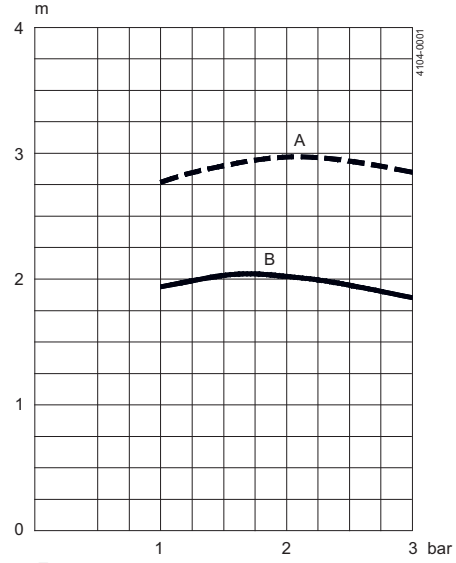
### Flow Rate



A: 360°  
270° UP

B: 180°

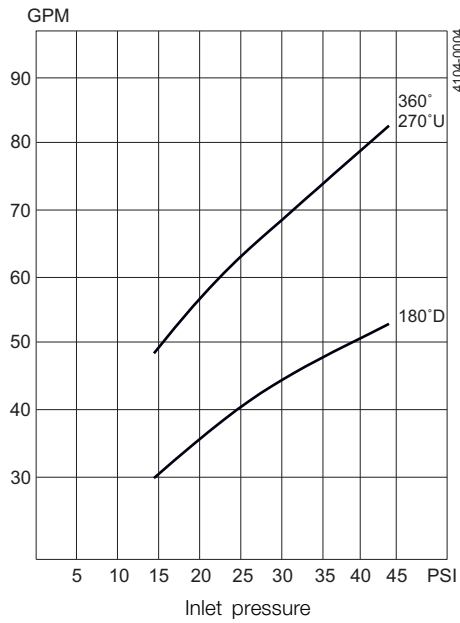
### Cleaning radius



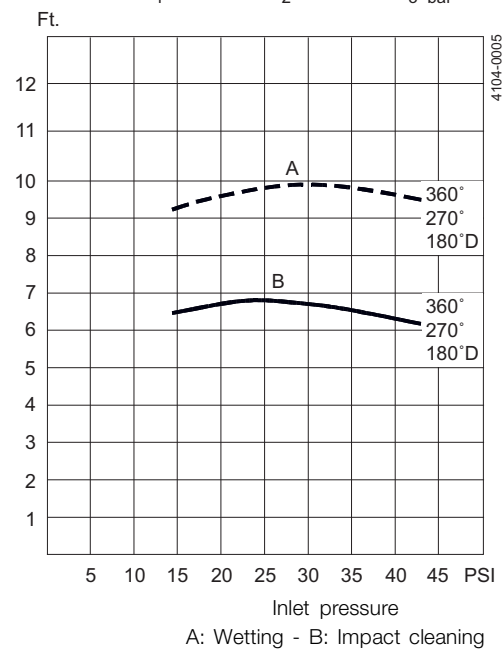
A: 360°  
270° UP  
180° Down

B: 360°  
270° UP  
180° Down

Flow rate



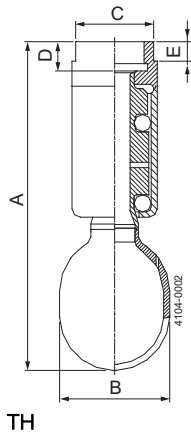
Throw length



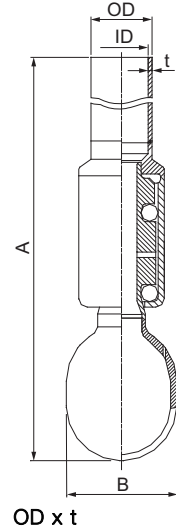
A: Wetting - B: Impact cleaning

### Dimensions (mm)

#### Thread



#### Weld-on



1 1/4" Rp (BSP)

1 1/4" NPT

Welded on

pipe

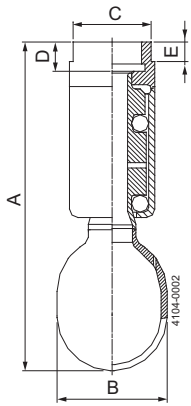
ISO:  $\varnothing 38 \times 1.6$  mm

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	$\varnothing 65$			

Dimensions (inch)

Thread

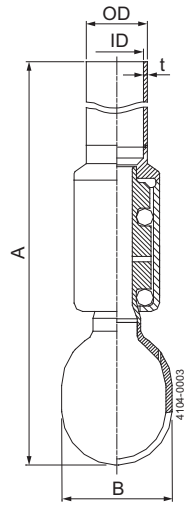


TH

1 1/4" Rp (BSP)

1 1/4" NPT

Weld-on



OD x t

Welded on pipe

ISO:

$\varnothing 1.50 \times 0.062$  inch

DN40:

$\varnothing 1.61 \times 0.059$  inch

Type	A	B	C	D	E
Thread	7.20	$\varnothing 2.56$	1.81	0.63	0.59
Weld-on	39.37	$\varnothing 2.56$			

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**How to contact Alfa Laval**

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