



# 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>, 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.



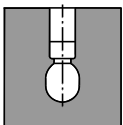
### TECHNICAL DATA

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

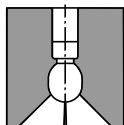
### Pressure

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

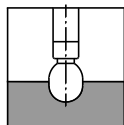
### Spray Pattern



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/Head: . . . . . 316 (UNS S31600)  
 Bearing race parts: . . . . . Duplex steel (UNS N31803)  
 Balls: . . . . . 316 (UNS S31600)

#### Standard Surface finish:

exterior: . . . . . Ra 0.8µm  
 internal: . . . . . Ra 0.8µm

#### Temperature

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

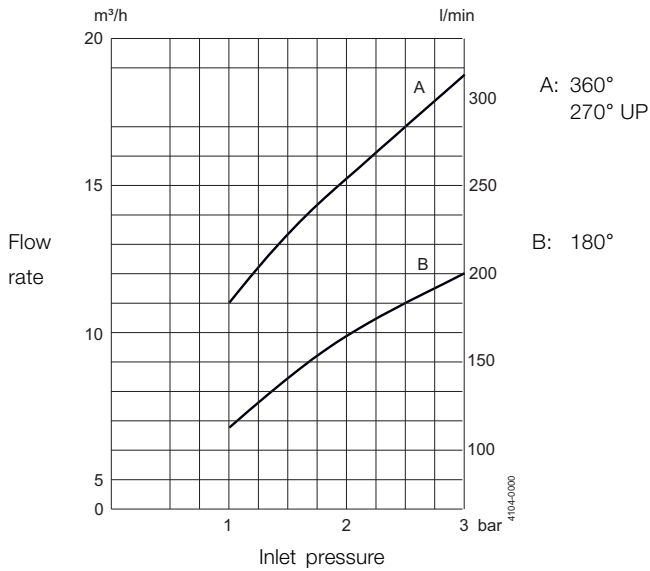
#### Weight

Thread: . . . . . 0.90 kg  
 On pipe: . . . . . 2.5 kg

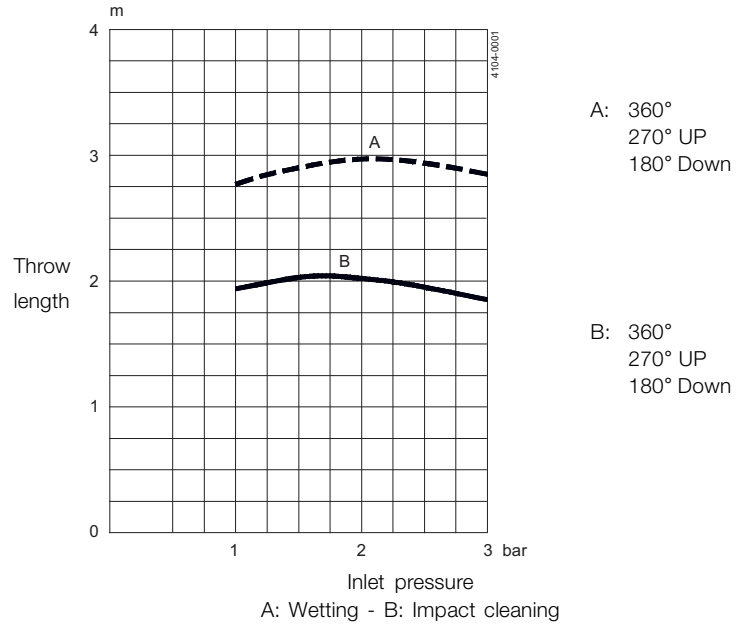
#### Connections

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

### Flow Rate



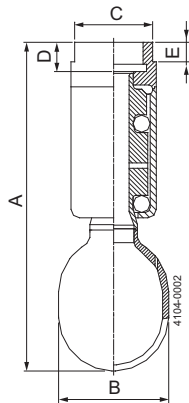
### Cleaning radius



For clip-on models, the flow rate is increased by approx 1.5 m³/h

### Dimensions (mm)

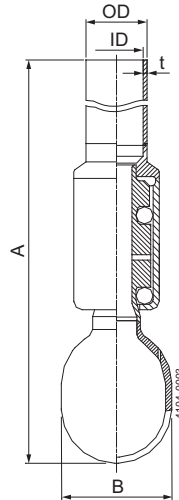
#### Thread



TH  
1 1/4" Rp (BSP)

1 1/4" NPT

#### Weld-on



OD x t  
Welded on

pipe  
ISO:  $\varnothing 38 \times 1.6$  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	$\varnothing 65$			

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