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 1,300 - 13,000 US gallons, 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. 10 ft
Impact cleaning radius: Max. effective 6 ft
Pressure
Working pressure: 14.5 - 44 PSI
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 32µm outside / Ra 32µm inside

Standard Surface finish:
- exterior: Ra 32µm
- internal: Ra 32µm

Temperature
Max. working temperature: 203°F
Max. ambient temperature: 284°F

Weight
Thread: 1.38 lbs
On pipe: 5.61 lbs

Connections
- Thread: 1 1/4” Rp (BSP) or NPT
- Weld-on: 1 1/2” ISO 2037 or DN40 DIN11850-R2
Flow Rate Cleaning radius

\[ A: 360^\circ \]
\[ B: 180^\circ \]

270° UP

180° Down

Flow rate

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<th>5</th>
<th>10</th>
<th>15</th>
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<td>80</td>
<td>90</td>
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4104-0004

UP

 dimensions (inch)

Thread

Weld-on

\[ TH \]

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

\[ OD \times 1 \]

Welded on pipe

ISO:

DN40:

\[ ø1.50 \times 0.062 \] inch

\[ ø1.61 \times 0.059 \] inch

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<th>Type</th>
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How to contact Alfa Laval
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