



Low Flow Saves on Water and Chemicals

Alfa Laval TJ MultiMidget Rotary Spray Head

Application

The Toftejorg MultiMidget 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 MultiMidget's rotating head makes the device suitable for all industrial cleaning applications, including tanks, reactors, vessels and other containers ranging from 0.1 m³ to 10 m³, depending on dimensions and cleaning task.

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Working principle

The flow of the cleaning media causes the head of the Toftejorg MultiMidget 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 MultiMidget are designed to be installed in any given angle.

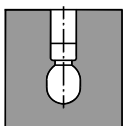
TECHNICAL DATA

Lubricant: Self-lubricating with the cleaning fluid
 Wetting radius: Max. 3 m
 Wetting radius: Max. 10 ft
 Impact cleaning radius: Max. effective 1.4 m
 Impact cleaning radius: Max. effective 4 ft

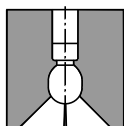
Pressure

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

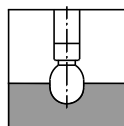
Spray Pattern



360°



270° up



180° down

Standard Design

As standard documentation, the Toftejorg MultiMidget 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

Temperature

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

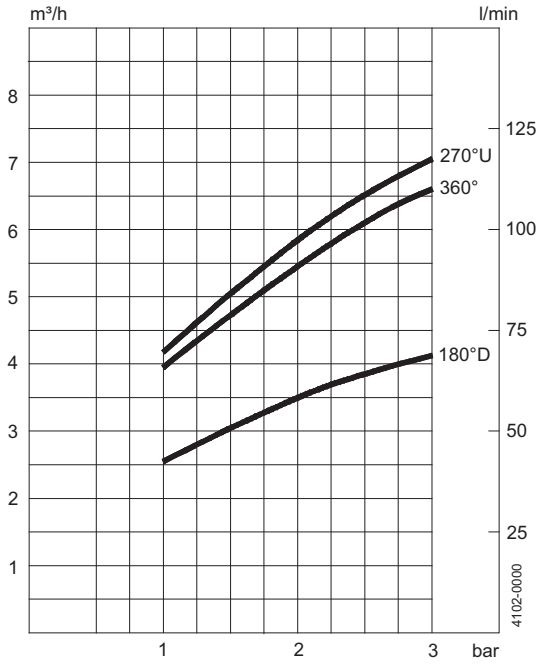
Weight

Thread: 0.50 kg
 Thread: 1.1 lbs
 On pipe: 0.90 kg
 On pipe: 1.98 lbs

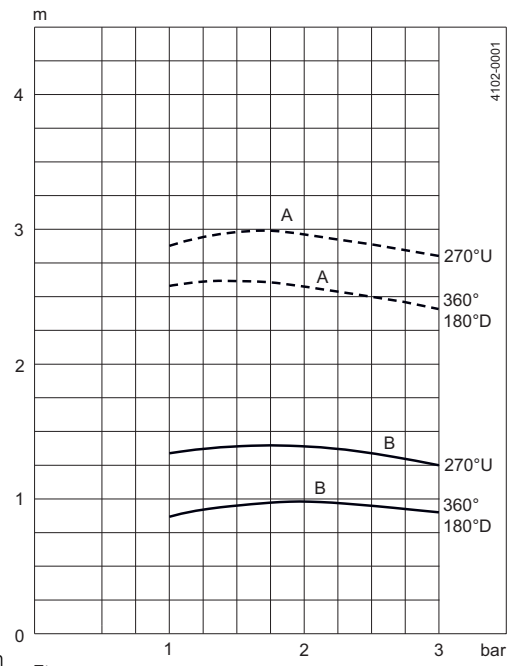
Connections

- Thread: 1/2" or 3/4" Rp (BSP) or NPT
- Weld-on: 1" ISO 2037 or DN25 DIN11850-R2
- Clip-on: 1" ISO 2037

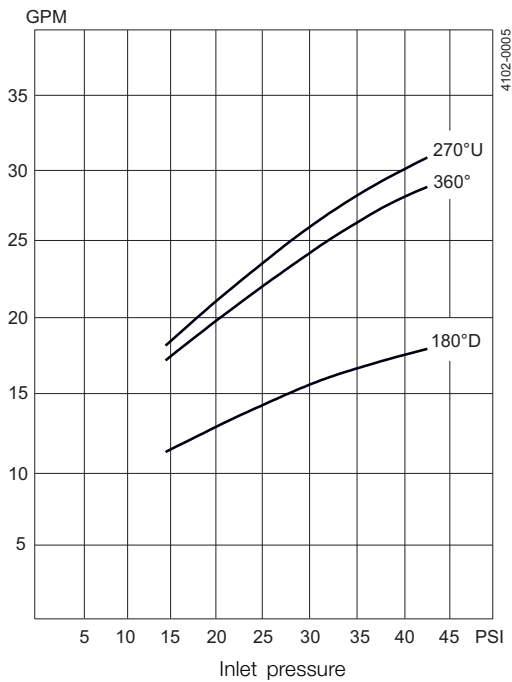
Flow Rate



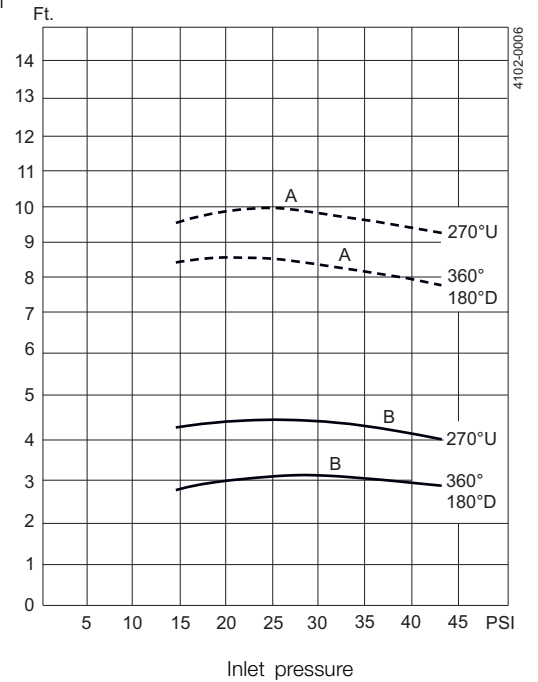
Cleaning Radius



Flow rate



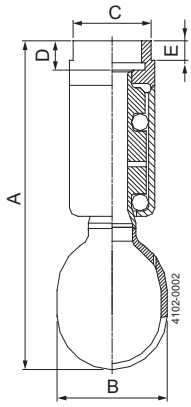
Throw length



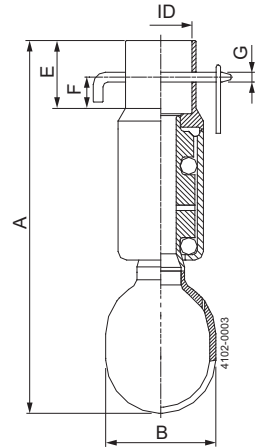
A: Wetting - B: Impact cleaning

For clip-on models, the flow rate is increased by approx. 0.5m³/h.
 For clip-on models, the flow rate is increased by approx. 0.65 yard³/h.

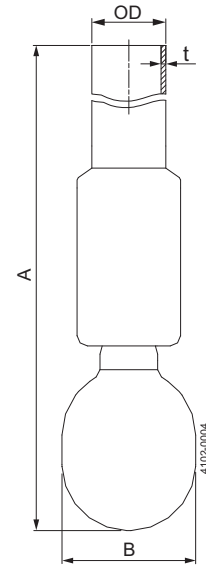
Thread



Clip-on



Weld-on



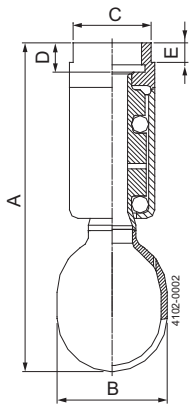
TH
 1/2" Rp (BSP)
 3/4" Rp (BSP)
 1/2" NPT
 3/4" NPT

ID
 ISO : $\varnothing 25.3$ mm

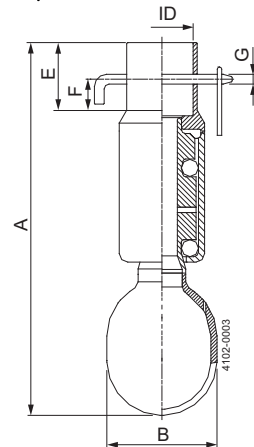
OD x t
Welded on pipe
 ISO: $\varnothing 25 \times 1.6$ mm
 DIN Range 2: $\varnothing 29 \times 1.5$ mm

Type	A	B	C	D	E	F	G
Tread	137(BSP), 150(NPT)	$\varnothing 45$	32	12(BSP) 25(NPT)	9(BSP) 22.5(NPT)		
Clip-on	155	$\varnothing 45$			30	15	$\varnothing 4.2$
Weld-on	500	$\varnothing 45$					

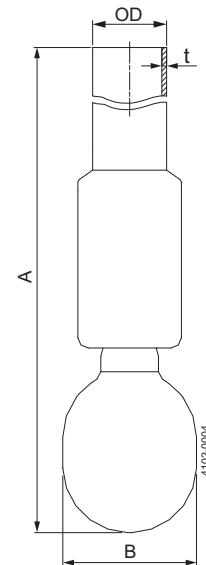
Thread



Clip-on



Weld-on



TH
 1/2" Rp (BSP)
 3/4" Rp (BSP)
 1/2" NPT
 3/4" NPT

ID
 ISO : $\varnothing 0.1$ inch

OD x t
Welded on pipe
 ISO: $\varnothing 0.98 \times 0.06$ inch
 DIN Range 2: $\varnothing 1.14 \times 0.06$ inch

Type	A	B	C	D	E	F	G
Tread	5.39(BSP), 5.91(NPT)	$\varnothing 1.77$	1.26	0.47(BSP) 0.98(NPT)	0.35(BSP) 0.89(NPT)		
Clip-on	6.1	$\varnothing 1.77$			1.18	0.59	$\varnothing 0.18$
Weld-on	19.68	$\varnothing 1.77$					

Alfa Laval reserves the right to change specifications without prior notification. ALFA LAVAL is a trademark registered and owned by Alfa Laval Corporate AB.

ESE00330EN 1507

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