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Alfa Laval MultiMidget

Low Flow Saves on Water and Chemicals

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.

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.



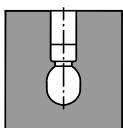
TECHNICAL DATA

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

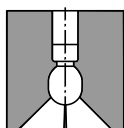
Pressure

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

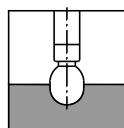
Spray Pattern



360°



270° up



180° down

Standard Design

As standard documentation, the Toftejorg 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
FDA compliant

Temperature

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

Weight

Thread: 0.50 kg
On pipe: 0.90 kg

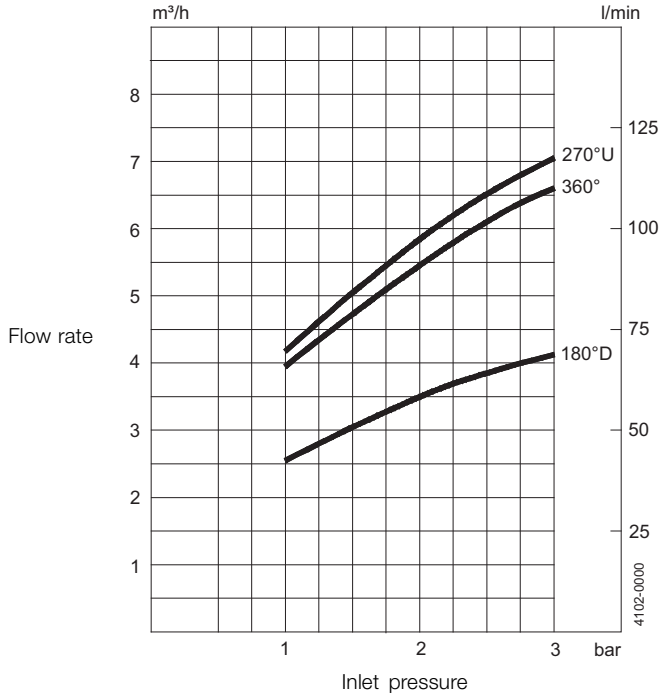
Connections

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

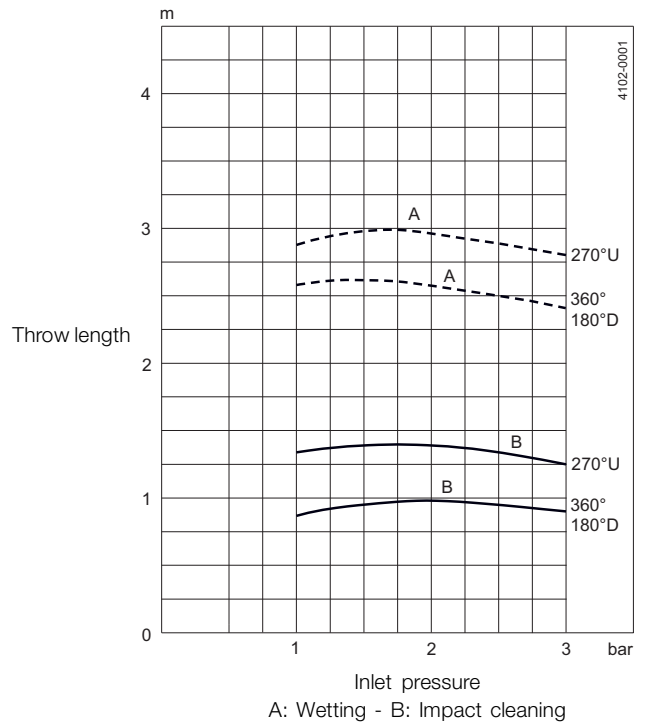
Caution

Avoid hydraulic shock, hard and abrasive particles in the cleaning liquid, as this can cause increased wear and/or damage of internal mechanisms. In general, a filter in the supply line is recommended. Do not use for gas evacuation or air dispersion. For steaming we refer to the manual.

Flow Rate

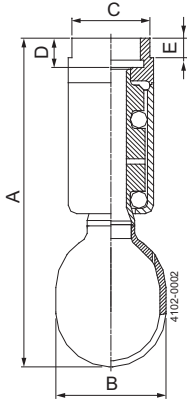


Cleaning Radius

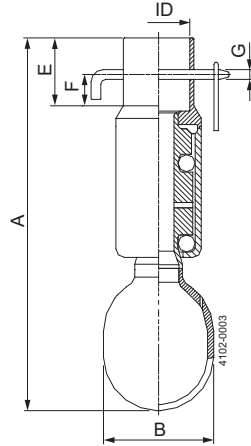


For clip-on models, the flow rate is increased by approx. 0.5m³/h.

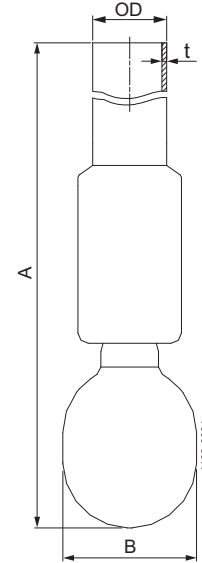
Thread



Clip-on



Weld-on



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

ID
 ISO : ø25.3 mm

OD x t
Welded on pipe
 ISO: ø25 x 1.6 mm
 DIN Range 2: ø29 x 1.5 mm

Type	A	B	C	D	E	F	G
Tread	137(BSP), 150(NPT)	ø45	32	12(BSP) 25(NPT)	9(BSP) 22.5(NPT)		
Clip-on	155	ø45			30	15	ø4.2
Weld-on	500	ø45					

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