

# Alfa Laval MultiMagnum

## Rotary Spray Head

### Introduction

The Alfa Laval MultiMagnum is a rotary spray head tank cleaning machine for hygienic environments. Designed to clean tanks from 5 - 40 m<sup>3</sup>.

The Alfa Laval MultiMagnum minimizes the consumption of water and cleaning media. Easy to customize to meet customer requirements, the MultiMagnum allows companies to spend less time cleaning and more time producing.

### Application

The Alfa Laval MultiMagnum is designed for the removal of residues from hygienic tanks across the dairy, brewery, distillery, beverage, food, IBC (intermediate bulk container), personal care and many other industries.

### Benefits

- 40% faster cleaning = more time for production
- Saves up to 40% of your cleaning cost
- Dynamic cleaning performance and 360° full wetting
- Easy to retrofit traditional spray balls to a more economical solution
- Can be installed at any angle

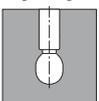
### Standard design

Different choice of spray pattern suitable for various applications and tank designs, ranging from simple tanks to more complex tanks with structure such as agitator and baffles. The MultiMagnum is lubricated by the cleaning media.

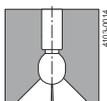
### Working principle

The flow of the cleaning media causes the head of the Alfa Laval MultiMagnum to rotate, and the fan-shaped jets layout a swirling pattern throughout the tank or reactor. This generates the wetting/impact needed for the efficient removal of the residual product; the cascading flow covers all internal surfaces of the vessel.

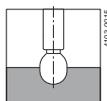
### Spray Pattern



360°



270° up



180° down



### Certificates

2.1 material certificate.



## 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

## PHYSICAL DATA

### Materials<sup>1</sup>

Inlet connections/Balls:	316 (UNS S31600)
Bearing race parts:	Duplex steel (UNS S31803)
Head:	316 (UNS S31603)

<sup>1</sup>FDA compliance 21CFR§177

### Surface finish

Standard Surface finish:	Ra 0.8 µm exterior/ Ra 0.8 µm internal
Exterior:	Ra 0.8 µm
Internal:	Ra 0.8 µm

### Temperature

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

### Weight

Thread:	0.90 kg
On pipe:	2.5 kg

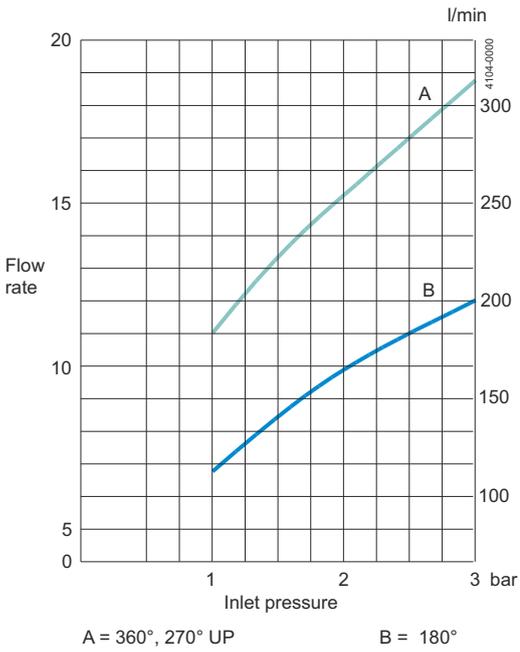
### Connections

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

## 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.

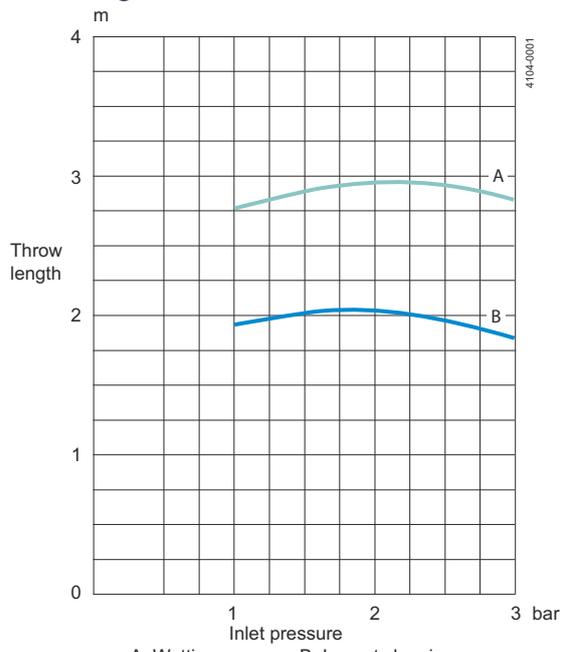
**Flow Rate**



A = 360°, 270° UP

B = 180°

**Cleaning radius**



A: Wetting

B: Impact cleaning

A = 360°  
270° UP  
180° Down

B = 360°  
270° UP  
180° Down

**Dimensions (mm)**

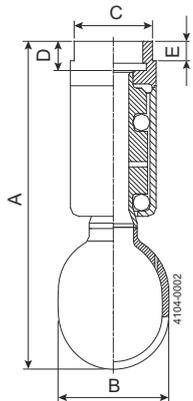


Figure 1. Thread

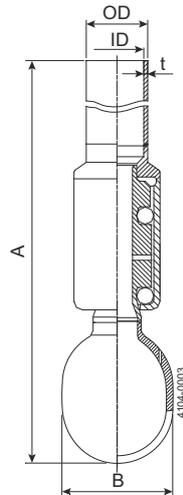


Figure 2. Weld-on

**TH**

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

**OD x t**

**Welded on pipe**

ISO: Ø38 x 1.2 mm  
DIN Range 2: Ø41 x 1.5 mm

Type	A	B	C	D	E
Thread	183	Ø65	46	16	15
Weld-on	1000	Ø65			

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200006908-2-EN-GB

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