



ASTRA Spray Ball



Application

The Spray Ball is an efficient replacement for traditional static spray balls as it uses low volumes of liquid at low pressure. The device, particularly well-suited to sanitary applications, can be used in tanks ranging from 5 m³ to 50 m³.

Working principle

The flow of the cleaning media causes the head of the Spray Ball to rotate, with fan jets laying out a swirling pattern throughout the vessel. This generates a vibrating impact and cascading flow that covers all internal surfaces of the tank or reactor. The device's self-cleaning feature is achieved by directing the cleaning media through the rotating bearing track and onto the neck of the elongated head.

PHYSICAL DATA

Materials Inlet connections: 316L (UNS S31603)
Bearing race parts: Duplex steel (UNS N31803)
Balls: 316L (UNS S31603) /PTFE*
Head: 316L (UNS S31603)
Standard Surface finish: Ra 0.8µm exterior / Ra 0.8µm
Internal Improved Surface finish: Ra 0.5µm exterior / Ra 0.5µm

Internal + Electro polished Temperature

Max. working temperature: 95°C

Max. ambient temperature: 140°C

Weight

Thread and clip-on: 0.76 kg

On pipe: 0.97/1.52 kg

Connections

- Thread: 1 1/4" or 1 1/2" of Rp (BSP) or NPT

- Weld-on: 1 1/2" or 2" of ISO 2037, or DN40 DIN 11850-R2, or 1 1/2" or 2" of BPE US

- Clip-on: 1 1/2" or 2" of ISO 2037, or DN40 DIN 11850-R1 or R2, or 1 1/2" or 2" of BPE US

Technical Data

Lubricant: Self-lubricating with the cleaning fluid

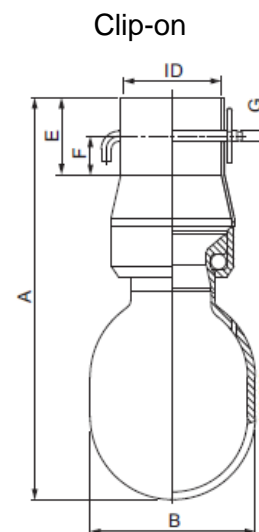
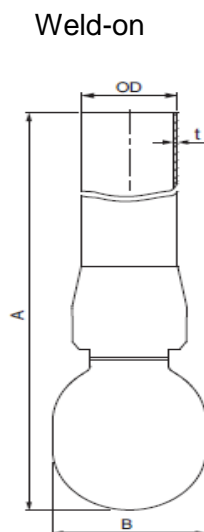
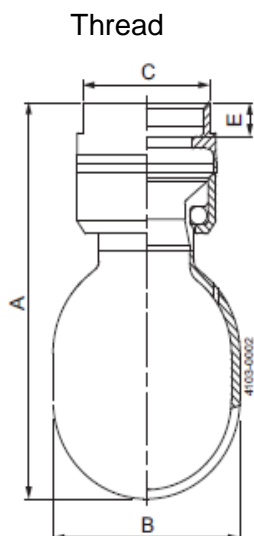
Wetting radius: Max. 3 m

Impact cleaning radius: Max. effective 2 m Pressure

Working pressure: 1-3 bar

Recommended pressure: 2 bar

Dimensions (mm)

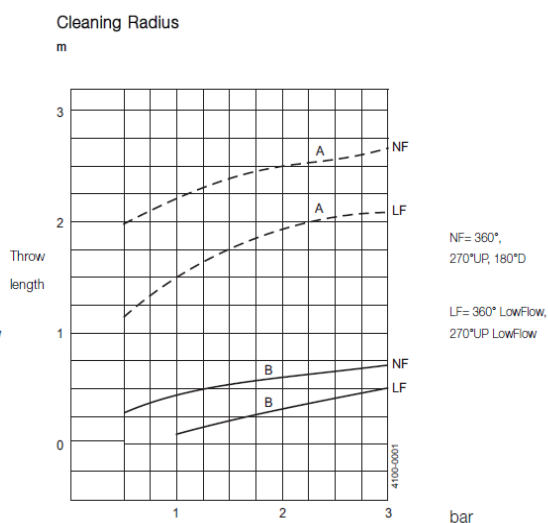
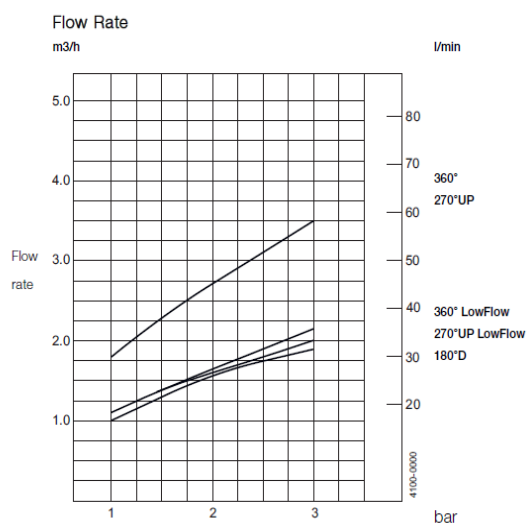


TH
1 1/4" (BSP)
1 1/4" NPT
1 1/2" (BSP)
1 1/2" NPT

ID
ID 1: 1 1/2" ø38.4 mm
ID 2: 2" ø51.3 mm
DIN Range 1 ø40.4 mm
DIN Range 2 ø41.4 mm

OD x t
ISO ø38 x 1.2 mm
BPE US ø38.1 x 1.65 mm
BPE US ø50.8 x 1.65 mm
DIN Range 1 ø40 x 1 mm
DIN Range 2 ø41 x 1.5 mm

| Type | A | B | C | E | F | G |
|---------|----------------|-----|----|----|----|----|
| Tread | 130 | ø65 | 44 | 10 | | |
| Clip-on | 157 | ø65 | | 30 | 15 | ø4 |
| Weld-on | 157, 500, 1000 | ø65 | | | | |



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