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 m^3 to 50 m^3.

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

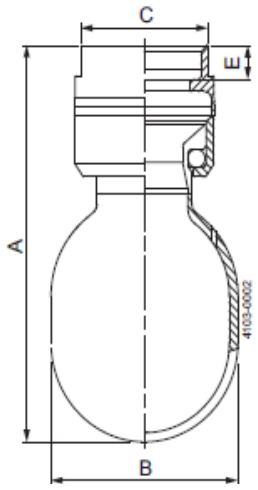
Connections
- Thread: 11/4" or 1 1/2" of Rp (BSP) or NPT
- Weld-on: 1 1/2" or 2" of ISO 2037, or DN40 DIN 11850-R2, or 1 1/2" or 2" of BPE US
- Clip-on: 1 1/2" or 2" of ISO 2037, or DN40 DIN 11850-R1 or R2, or 1 1/2" or 2" of BPE US

Technical Data

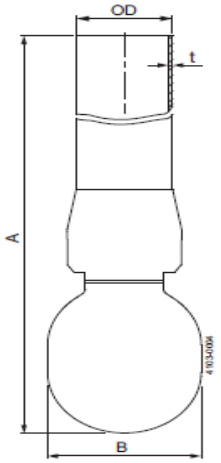
Lubricant: . . . . . Self-lubricating with the cleaning fluid
Wetting radius: . . . . . Max. 3 m
Impact cleaning radius: . . . . . Max. effective 2 m Pressure
Working pressure: . . . . . 1-3 bar
Recommended pressure: . . . . . 2 bar

Dimensions (mm)

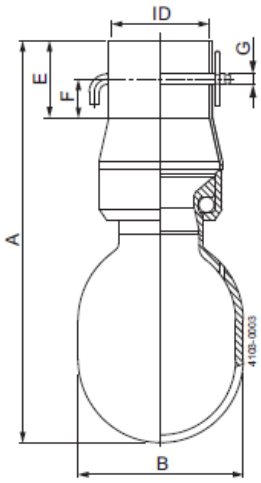
Thread



Weld-on



Clip-on

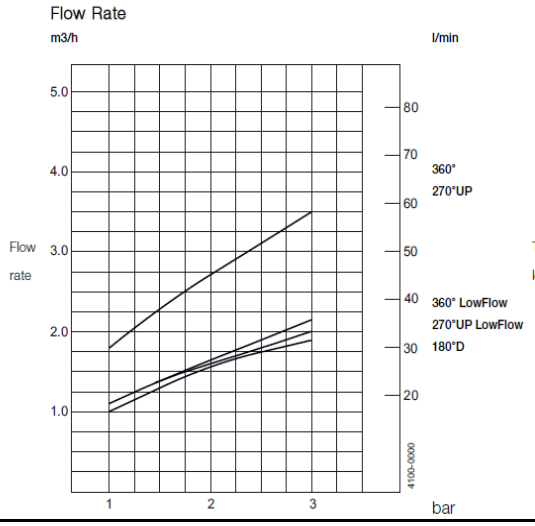


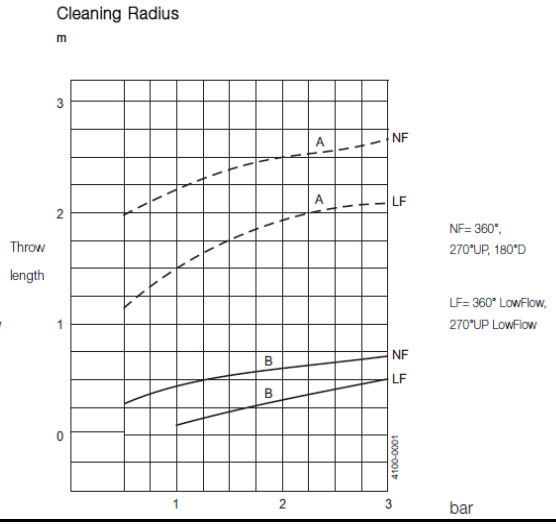
TH
1 1/4” (BSP)
1 1/4” NPT
1½" (BSP)
1½" NPT

ID	
ID 1: 1½”	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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