



Product Data Sheet
Product: Rotating Spray Head
Type: UBC

The Butterworth Type UBC rotating spray head projects sheets of water on a variety of spray patterns, using low volumes of water with considerably higher fluid impact values when compared to conventional static spray balls.

In Application

The Type UBC device can be used in hygienic and non-hygienic applications. The device is 100% self-rinsing. A variety of connection types are available and typically are installed permanently in a given tank or vessel. The Type UBC device can also be used on a portable basis when desired.

Typical Applications include but not limited to...

- Soup Kettles
- Yeast Propagation Tanks
- Batch Processing Vessels
- Fluid Bed Dryers
- Ink and Paint Mixing Vats
- Brew Kettles
- Storage Tanks
- Spray Dryers
- Commercial Ovens

Operation

The flow of fluid through the Type UBC device will cause the projections of fluid through the fluid slots of the unit. This flow of fluid is at a slight angle to the radius of the ball and causes a transitional reaction. This reaction sets the ball in rotation. Rotation speed of the ball is relative to the fluid pressure exerted at the inlet of the device.



General Specifications

Materials:

Race Housing:

- SAF2205 – Standard

Bearings:

- AISI 316 – Standard

Other Components:

- AISI 316 – Standard
- AISI 303 – Optional

Weight:

- Threaded : 0.68 lbs (0.309 kg)

Lubrication:

- Lubricated by fluid flowing through the device

Pressure:

- Range : 0-105 PSI

Temperature:

- Maximum working : 205° F (96° C)
- Maximum static : 300° F (149° C)

Fluid Radius:

- Maximum effective : 11 feet (3.35 meters)

Connection Types:

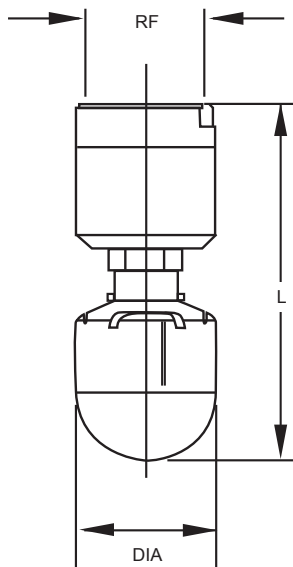
- 1/2", 3/4", 1.00", 1.25" : NPT(F) threaded

Surface Finish:

- Standard : 25-35 Ra μ
- Electropolished : ≤ 20 Ra μ

General Dimensions & Pattern

Threaded



360°

Type UBC - Part Number Designations

Nozzle Code	RF	Flow rates (gpm at various pressures (psi))				Angle AA	Max Throw MT	Weight W lbs.	Dimensions	
		30	45	75	105				L	DIA
UBC 2899B31SN	1/2"	19	24	31	43	360	80"	0.66	4 1/2"	1 1/4"
UBC 2900B31SN	3/4"	19	24	31	43	360	80"	0.66	4 1/2"	1 1/4"
UBC 3120B31SN	1"	26	32	41	48	360	80"	1.3	4 1/2"	1 1/4"
UBC 3300B31SN	1 1/4"	65	79	103	121	360	80"	1.5	5"	2 3/8"

The UBC series is supplied either with a standard threaded female pipe connection.

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