Product Data Sheet
Product: Static Spray Ball
Type: UAA
Part Numbers: See Table Below

The Butterworth Type UAA Static Spray Balls are simple, fast and efficient devices for rinsing the inside of tanks in a variety of industries. All units are self-cleaning and available in an assortment of spray patterns and surface finishes.

In Application

Butterworth Type UAA Static Spray Balls can be used in both hygienic and unhygienic applications.

Representative Industries Served:

- Beverage
- Biotech
- Brewing
- Chemical
- Cosmetic
- Dairy
- Food
- Pharmaceutical

Operational

The Type UAA Static Spray Balls project a predetermined spray pattern based on the drilling arrangement of the holes within the ball. Rinsing accomplished by creating the desired coverage and cascading effect required for the specific/required cleaning task.

Typical installation

General Specifications

Materials of Construction:

•316L SS (Standard)

Pressure/ Flow Range:

•0-100 PSI (7 Bar)
•0-500 GPM (113 m3/Hr)

Inlet Connection Type:

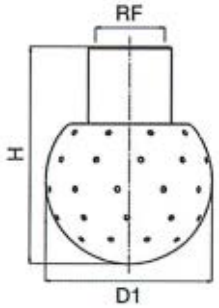
•Threaded (NPT)

Temperature:

• Maximum working : 600° F (315° C)

Surface Finish:

Fixed Spray Heads



TYPE UAA Dimensions

Inch	A	B	C	D	E
D1	1.18	1.57	1.57	2.55	3.54
H	1.57	2.08	2.55	3.34	4.33

Butterworth, Inc.
16737 W Hardy Road Houston, Texas 77060 USA
Phone: 281-821-7300 Toll Free: 866-920-3233 Fax: 281-821-5550
Email: info@butterworth.com www.butterworth.com

Product Data Sheet
Product: Static Spray Ball
Type: UAA
Part Numbers: See Table Below

TYPE UAA - Model Reference Table

Code	Size					Flow Rate Code	Material	Spray pattern (deg)					Connection Size							Connection Type	Flow rate at different pressure (psi)				WR
													RF							Threaded	5	15	30	40	
	A	B	C	D	E		AISI 316L	180° U	180° D	270° U	270° D	360°	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	NPT	gpm	gpm	gpm	gpm	ft
UAA	A					012	B31	A	B	C*	D*	E*	A	B	C	D	E	F	G	N	3.15	5.46	7.72	8.91	1.64
UAA		B				014	B31	A	B	C*	D*	E*								N	3.6	6.24	8.82	10.2	2.62
UAA			C			018	B31	A	B	C*	D*	E*								N	4.86	8.42	11.9	13.7	2.62
UAA				D		021	B31	A	B	C*	D*	E*								N	5.49	9.5	13.5	15.5	3.28
UAA					E	031	B31	A	B	C	D	E								N	8.1	14.0	19.8	22.9	3.61
UAA						038	B31	A	B	C	D	E								N	9.9	17.2	24.3	28.0	3.94
UAA						047	B31	A	B	C	D	E								N	12.2	21.2	30.0	34.6	2.95
UAA						054	B31	A	B	C	D	E								N	14.0	24.3	34.4	39.7	3.28
UAA						063	B31	A	B	C	D	E								N	16.4	28.4	40.1	46.3	3.94
UAA						072	B31	A	B	C	D	E								N	18.7	32.4	45.9	53.0	4.27
UAA						078	B31	A	B	C	D	E								N	20.3	35.1	49.6	57.3	4.92
UAA						086	B31	A	B	C	D	E								N	22.3	38.7	54.7	63.1	5.25
UAA						092	B31	A	B	C	D	E								N	23.9	41.5	58.7	67.7	5.25
UAA						102	B31	A	B	C	D	E								N	26.6	46.0	65.1	75.1	5.58
UAA						110	B31	A	B	C	D	E								N	28.6	49.6	70.1	81.0	5.91
UAA						123	B31	A	B	C	D	E								N	32.0	55.4	78.3	90.4	5.91
UAA						132	B31	A	B	C	D	E								N	34.3	59.4	84.0	97.0	6.23
UAA						157	B31	A	B	C	D	E								N	40.8	70.6	100	115	6.56
UAA						160	B31	A	B	C	D	E								N	41.6	72.0	102	118	6.56
UAA						175	B31	A	B	C	D	E								N	45.5	78.7	111	129	6.89
UAA						209	B31	A	B	C	D	E								N	54.3	94.0	133	154	7.87
UAA						217	B31	A	B	C	D	E								N	56.4	97.8	138	160	8.2
UAA						228	B31	A	B	C	D	E								N	59.4	103	146	168	8.86
UAA						242	B31	A	B	C	D	E								N	63.0	109	154	178	9.19
UAA						286	B31	A	B	C	D	E								N	74.3	129	182	210	9.84
UAA						321	B31	A	B	C	D	E								N	83.3	144	204	236	10.2
UAA						371	B31	A	B	C	D	E								N	96.3	167	236	272	10.5
UAA						431	B31	A	B	C	D	E								N	112	194	275	317	11.2
UAA						491	B31	A	B	C	D	E								N	127	220	311	360	11.5

Wetting Radius (WR) has been measured with pressure of 15 psi.

The codes in the table refer to heads with a NPT female thread.
For clip on and weld neck connections, check with Butterworth for availability.

Butterworth, Inc.
16737 W Hardy Road Houston, Texas 77060 USA
Phone: 281-821-7300 Toll Free: 866-920-3233 Fax: 281-821-5550
Email: info@butterworth.com www.butterworth.com