

# CB Ball Spout Jet Diffuser



**ASLI CB Ball Spout Jet Diffuser** provides ventilation to places where distribution of air via ceiling diffuser is not possible or practical. In a big open space area where ceiling outlets are not able to supply air uniformly to the corners, CB will be a solution. Air is supplied into the space at high velocity with high induction causes the supply air to mix with the room air effectively. Due to its pleasant appearance, it can be used in the large room such as concert, airport, theatre, museum etc.

## Materials

**Nozzle** : Aluminum.  
**Face** : Aluminum.

## Surface Finish

Baked white powder coated as standard.

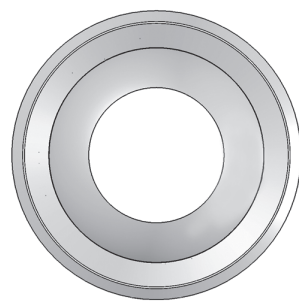
## Standard Sizes *Unit : mm*

100 / 125 / 150 / 160 / 200 / 250  
315 / 350 / 400 / 500 / 630

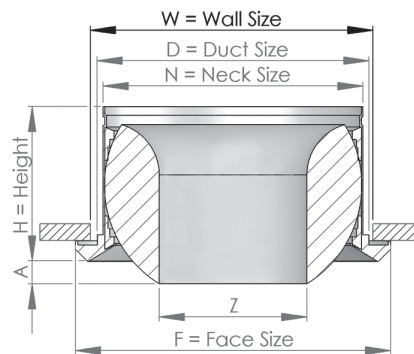
## Features

- Easy adjustment.
- Directional air flow pattern: +/- 30° deflection, 360° rotation.
- Suitable for exposed ductwork or surface mounted.
- Suitable for wall installation.
- Low noise levels.
- Low pressure requirement.
- Provides high terminal velocity, long distance throw and supply air into inaccessible area.

## CB Physical Dimension *Unit : mm*



Top View

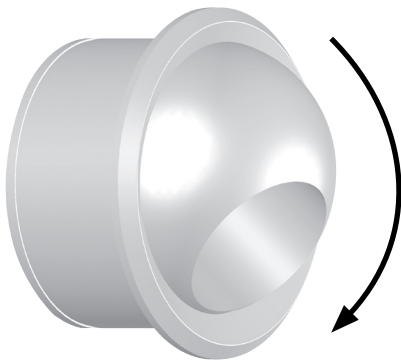


Section View

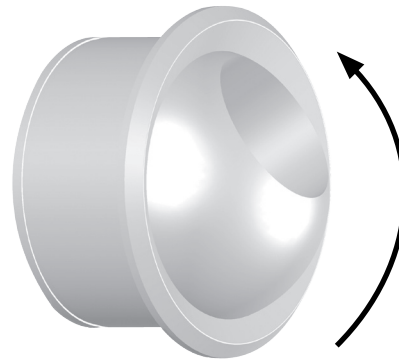
Size	N	F	Z	H	A	D	W
100	98	138	44	74	5	108	118
125	123	171	61	88	9	133	143
150	150	198	74	102	12	160	170
160	157	210	80	113	12	167	177
200	198	263	105	121	12	208	218
250	248	312	125	152	12	258	268
315	311	390	165	202	21	321	331
350	347	433	186	205	30	357	367
400	396	490	210	233	27	406	416
500	495	610	260	265	45	505	515
630	630	702	338	305	40	640	650

# CB Ball Spout Jet Diffuser

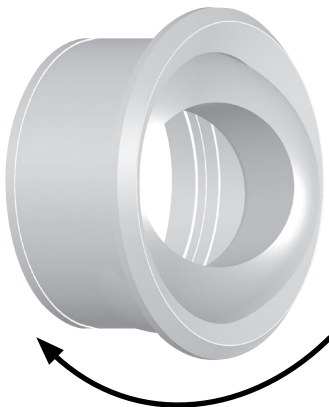
## CB Suggested Specification



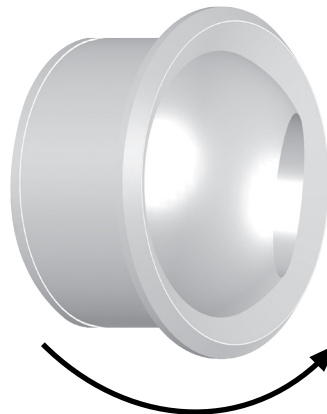
Directing air downwards



Directing air upwards



Directing air towards left



Directing air towards right

CB-A Ball Spout Diffuser shall be suitable for throw of 20 meters distance with optimum acoustic properties. The nozzle shall consist of a face circular mounting flange with aerodynamically shaped nozzle formed in one piece and no obstacle in the airflow pathway. The rear connection element shall have a peripheral gasket for mounting on to the duct wall. The flange shall be detachable from the nozzle with simple tools. The nozzle shall be adjustable with 30-degree deflection in all direction and 360 degree rotation from the face of the diffuser without using any tools. The nozzle and installation flange shall be aluminum. The diffuser shall be epoxy coated and furnished to architectural requirement.

# CB Ball Spout Jet Diffuser

## CB Air Flow Performance Data

Size	Nozzle Vel. (m/s)	3.0	5.0	7.0	10.0	13.0	15.0	17.0	20.0
	Tot. Press (mmAq)	0.5	1.7	3.0	6.5	10.5	13.5	17.0	21.0
100	CMH	21	35	49	71	92	106	120	141
	Throw (m)	2.0 - 5.0	5.0 - 10.5	6.0 - 12.0	8.0 - 16.0	9.0 - 20.0	11.0 - 23.0	12.0 - 25.0	15.0 - 30.0
	NC	-	-	-	20	27	33	35	40
125	CMH	35	58	81	116	151	174	197	232
	Throw (m)	3.0-7.5	5.0-10.0	6.0-12.0	9.0-20.0	11.0-23.0	14.0-27.0	15.0-31.0	18.0-36.0
	NC	-	-	-	20	25	30	34	36
160	CMH	57	95	133	190	247	285	323	380
	Throw (m)	3.0 - 7.5	5.5 - 11.0	6.0 - 13.0	11.5 - 24.0	14.0 - 30.0	18.0 - 39.0	20.0 - 45.0	21.5 - 51.0
	NC	-	-	-	20	25	30	34	37
200	CMH	99	165	231	330	429	495	561	660
	Throw (m)	5.0 - 10.0	7.5 - 16.0	11.0 - 22.5	16.0 - 31.0	20.0 - 40.0	22.5 - 45.0	25.0 - 50.0	30.0 - 57.0
	NC	-	-	-	22	29	33	37	42
250	CMH	157	261	366	523	680	784	889	1046
	Throw (m)	6.0 - 12.0	10.0 - 20.0	14.0 - 27.0	19.0 - 40.0	25.0 - 50.0	30.0 - 55.0	32.0 - 57.0	36.0 - 62.0
	NC	-	-	-	23	30	35	40	44
315	CMH	257	428	599	856	1113	1284	1455	1712
	Throw (m)	8.0 - 16.0	12.0 - 25.0	16.0 - 35.0	23.0 - 47.0	30.0 - 55.0	35.0 - 60.0	40.0 - 65.0	45.0 - 70.0
	NC	-	-	-	27	35	40	44	47
400	CMH	449	748	1047	1496	1944	2244	2543	2991
	Throw (m)	10.0 - 20.0	16.0 - 32.0	22.0 - 45.0	32.0 - 58.0	40.0 - 66.0	47.0 - 73.0	51.0 - 77.0	57.0 - 83.0
	NC	-	-	25	36	42	46	48	52
500	CMH	694	1156	1619	2313	3007	3469	3932	4625
	Throw (m)	11.0-22.0	16.0-35.0	25.0-50.0	35.0-62.0	46.0-72.0	50.0-76.0	55.0-90.0	62.0-87.0
	NC	-	22	30	40	46	51	54	58
630	CMH	1378	2296	3214	4592	5970	6888	7806	9184
	Throw (m)	15.6 - 31.1	24.4 - 49.3	34.5 - 71.8	49.3 - 91.6	76.1 - 105.0	73.7 - 113.3	81.1 - 118.0	89.7 - 124.0
	NC	27	33	38	44	53	56	59	63

- Throw is based on terminal velocities of 0.5m/s-0.25m/s respectively.
- NC value is based on a room absorption of 10 dB, re 10<sup>-12</sup> watts.
- Dash (-) in space indicates NC value less than 20.

Angle of Discharge	0°	30°
Tot. Press	1	1.2
Throw	1	0.85
NC	0	2

Example: If angle of discharge is 30°, to obtain the total pressure drop, use a multiplier of 1.2, for throw use a multiplier of 0.85, for NC values, it will be NC plus 2.

## CB Order Code

Model	Material	Size
CB	A	100 / 125 / 150 / 160 / 200 / 250 315 / 350 / 400 / 500 / 630

Example : CB - A - 400