

ALANDALOSIA

FOR AIR OUTLET



CATALOGUE **NO 17**

DISC VALVE



Air Outlet

Andalosalosia

OUR PRODUCTS

SELECTION GUIDE

- 1- SQUARE CEILING DIFFUSER
- 2- ROUND CEILING DIFFUSER
- 3- SWIRL DIFFUSER
- 4- PERFORATED CEILING DIFFUSER
- 5- LINEAR SLOT DIFFUSER
- 6- LINEAR CEILING DIFFUSER
- 7- LINEAR BAR GRILL
- 8- REGISTER
- 9- FLOOR & PERFORATED FLOOR GRILL
- 10- TRANSFER GRILL
- 11- ACCESS PANEL
- 12- LOUVER
- 13- SAND TRAP LOUVER
- 14- JET NOZZLE
- 15- BALL JET NOZZLE
- 16- DRUM JET NOZZLE

17 - DISC VALVE

- 18- NON RETURN DAMPER (SHUTTER)
- 19- VOLUME DAMPER
- 20- FIRE DAMPER
- 21- SMOKE DAMPER
- 22- DUCT ACCESS DOOR

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Andalosa

INTERTEK

INTRODUCTION

Round ceiling diffuser provides excellent performance in variable air volume systems and provides a clean, smooth look for exposed duct or hard ceiling applications. Additionally, it has a center thread bar adjustable positions.



APPLICATIONS

- For supply and exhaust ventilation Air conditioning and heating.
- Mounting in false ceiling or wall.
- Used to arrange correct air circulation in premises.

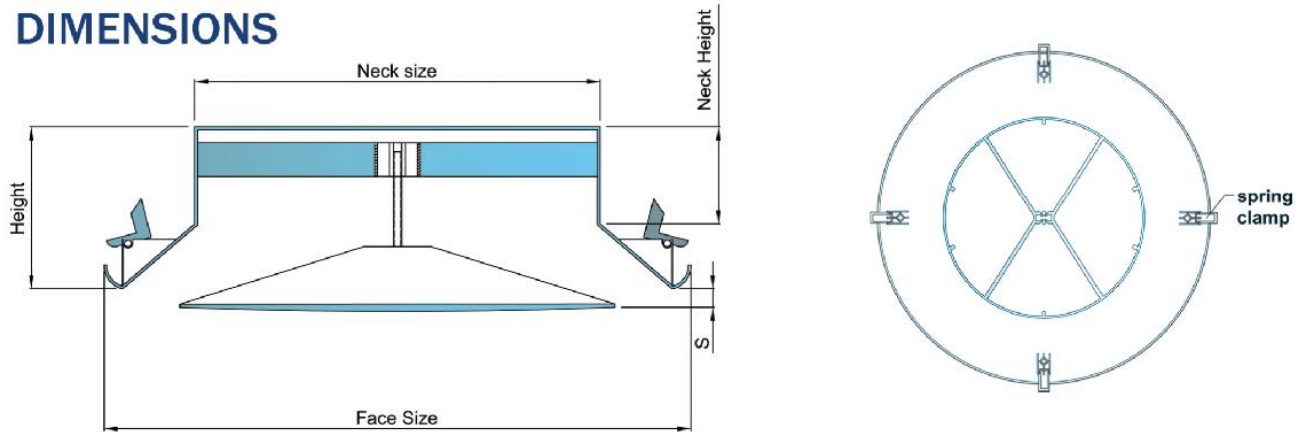


DESIGNS

- Made of high quality plastic (ABS plastic or aluminum).
- Special aerodynamic disk valve design ensure uniform air distribution.
- Smooth air pass regulation due to rotation of central part of damper.
- Easy mounting to ceiling with three easy lock for plastic type and with sub metal frame for aluminium type.

ABS PLASTIC TYPE

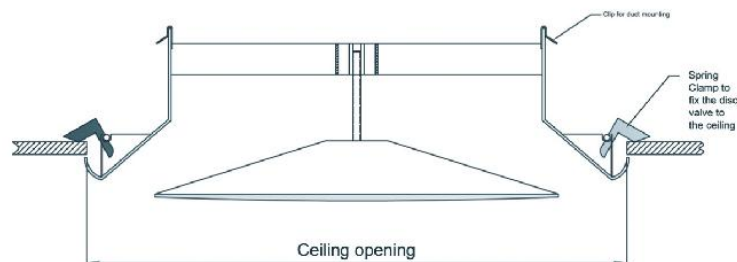
DIMENSIONS



Model	Dimensions				
	Face size	Core size	Neck size	Total Height	Neck Height
4"	190	125	100	90	65
5"	230	150	125	100	70
6"	260	180	150	110	75
8"	320	220	200	115	75
10"	390	280	250	120	75
12"	450	320	300	125	75

INSTALLATION

Raise the spring clamp to the free position, and then insert the disc valve into the ceiling opening, when the opening touches the cam of the spring clamp, it closes directly to get an easy and rigid fixing.



PLASTIC PERFORMANCE DATA

Nominal Neck Size	Neck Velocity, fpm	400	500	600	700	800	900	1000	1200	1400	1600
	Velocity Pressure	.010	.016	.022	.031	.040	.050	.062	.090	.122	.160
6" Dia.	Total Pressure	.034	.053	.076	.103	.134	.169	.209	.300	.407	.531
	Airflow, cfm	79	98	118	137	157	177	196	236	275	314
	Throw	1-2-3	2-2-5	2-3-7	3-4-9	3-5-10	4-6-12	4-7-13	6-9-14	7-11-15	8-13-17
	NC	—	—	—	—	16	21	24	30	36	41
8" Dia.	Total Pressure	.033	.052	.075	.104	.136	.174	.216	.315	.432	.569
	Airflow, cfm	140	175	209	244	279	314	349	419	489	559
	Throw	1-2-3	2-2-5	2-3-8	3-4-10	3-5-12	4-7-13	4-8-15	6-11-17	7-14-19	9-18-21
	NC	—	—	—	—	17	21	25	33	40	46
10" Dia.	Total Pressure	.048	.074	.106	.143	.185	.232	.285	.405	.546	.707
	Airflow, cfm	218	273	327	382	436	491	545	654	764	873
	Throw	1-2-5	2-2-6	2-3-8	3-4-10	3-6-13	4-8-13	5-9-14	6-15-20	8-16-21	10-19-22
	NC	—	—	—	—	15	20	23	28	34	37
12" Dia.	Total Pressure	.047	.073	.104	.141	.184	.233	.287	.411	.558	.727
	Airflow, cfm	314	393	471	550	628	707	785	942	1100	1257
	Throw	2-4-9	2-6-11	3-7-13	4-8-14	5-9-15	6-10-17	7-11-18	9-13-19	12-15-21	14-18-22
	NC	—	—	—	—	17	20	22	28	33	37
14" Dia.	Total Pressure	.051	.080	.116	.159	.209	.265	.328	.476	.651	.854
	Airflow, cfm	428	535	641	748	855	962	1069	1283	1497	1710
	Throw	4-7-14	5-9-16	6-10-17	7-12-18	9-13-20	10-14-21	11-15-21	14-18-23	17-20-24	20-22-25
	NC	—	—	16	20	24	28	36	43	49	54
16" Dia.	Total Pressure	.058	.090	.130	.177	.232	.293	.362	.522	.711	.929
	Airflow, cfm	559	698	838	977	1117	1257	1396	1676	1955	2234
	Throw	6-8-12	7-10-16	9-12-18	10-14-21	12-15-23	13-17-25	14-19-26	17-22-29	20-25-31	22-28-33
	NC	—	—	—	—	15	19	25	30	35	41

Performance Notes:

1. All pressures are in inches w.g.. To obtain static pressure, subtract the velocity pressure from the total pressure.
2. Throws are given at 150, 100 and 50 fpm terminal velocities, under isothermal conditions.
3. NC (Noise Criteria) values are based on 10 dB room absorption, re 10⁻¹² watts. Dash (-) in spaces indicates an NC level of less than 15.

ALUMINIUM TYPE

INTRODUCTION

Aluminum disc valve is a circular exhaust air valve constructed in three sections, a convex inner cone, an outer valve seat having a foam gasket and a mounting ring. It is suitable for installation either in a duct, wall or ceiling..



CONSTRUCTION

Frame : drawing die high quality aluminum sheet forming .

Mounting ring : drawing die high quality aluminum sheet forming

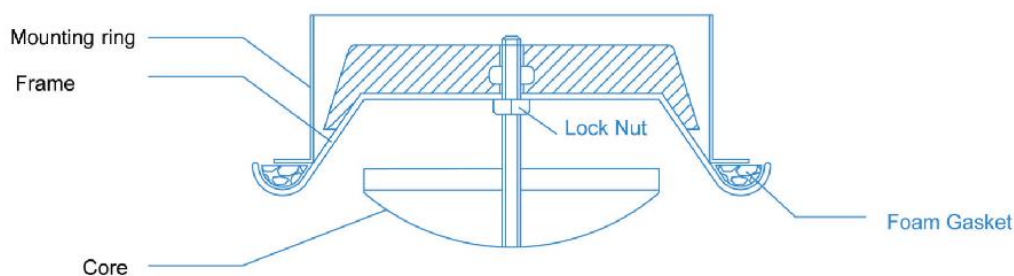
Core : drawing die high quality aluminum sheet forming .

Seal : high quality foam gasket .

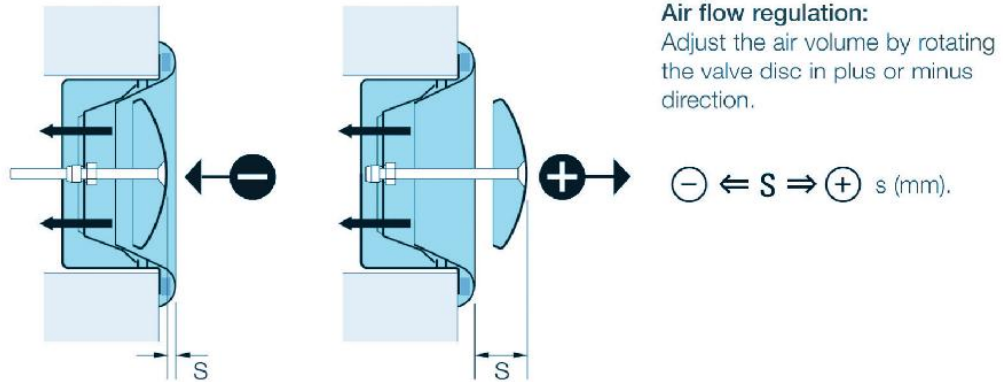
Size :

Size	ØB	ØD
100	100	139
125	125	160
150	150	192
160	160	196
200	200	232

Finish : Standard mill finish or powder coated all colors available upon request.



ALUMINIUM PERFORMANCE DATA



Extract Volume (l/s)

Size	Core Position	10		15		20		25		30		40		50		60	
		Noise (NR)	PD Pa	Noise (NR)	PD Pa	Noise (NR)	PD Pa	Noise (NR)	PD Pa	Noise (NR)	PD Pa	Noise (NR)	PD Pa	Noise (NR)	PD Pa	Noise (NR)	PD Pa
100	MR	20	30	29	62	34	100										
	FO		8		16	20	26										
125	MR		11		24	20	41	27	65	33	95	45	140	N/A	N/A		
	FO					15	24	20	24	20	34	34	29	35	93		
150	MR				13		21	21	31	26	44	33	63	38	102		
	FO						11		11	15	20	25	27	39			
160	MR				14		25	20	39	25	54	33	80	39	120		
	FO						11		16	20	23	25	41	30	64		

Extract Volume (l/s)

Size	Core Position	50		60		70		80		90		100		110		120	
		Noise (NR)	PD Pa	Noise (NR)	PD Pa	Noise (NR)	PD Pa	Noise (NR)	PD Pa	Noise (NR)	PD Pa	Noise (NR)	PD Pa	Noise (NR)	PD Pa	Noise (NR)	PD Pa
200	MR	26	40	36	60	40	80	45	100	48	115	50	150	N/A	N/A	N/A	N/A
	FO		9		13	17	20	20	22	24	29	27	40	32	43	35	50

Core: Position Setting. MR: Mid Range. FO: Fully Open