



Jet Nozzle Diffusers JA



DESCRIPTION:

Available in a variety of sizes and with multiple mounting options, the Nozzle Diffuser (JA) is well suited to industrial and commercial applications that require long throws and accurate directional control for full mixing or spot cooling and heating.

MATERIAL :

Aluminum

FUNCTION :

The architectural styling of the JA provides a modern alternative to traditional diffusers while providing superior performance characteristics. Ideal applications include: convention centers, meeting halls, airports, shopping malls, and auditoriums.

FINISHING :

- Powder coated in RAL9010 colour as standard. Other colours on request

INSTALLATION :

- Screw
- No Fixing

ACCESSORIES:

- Plenum box

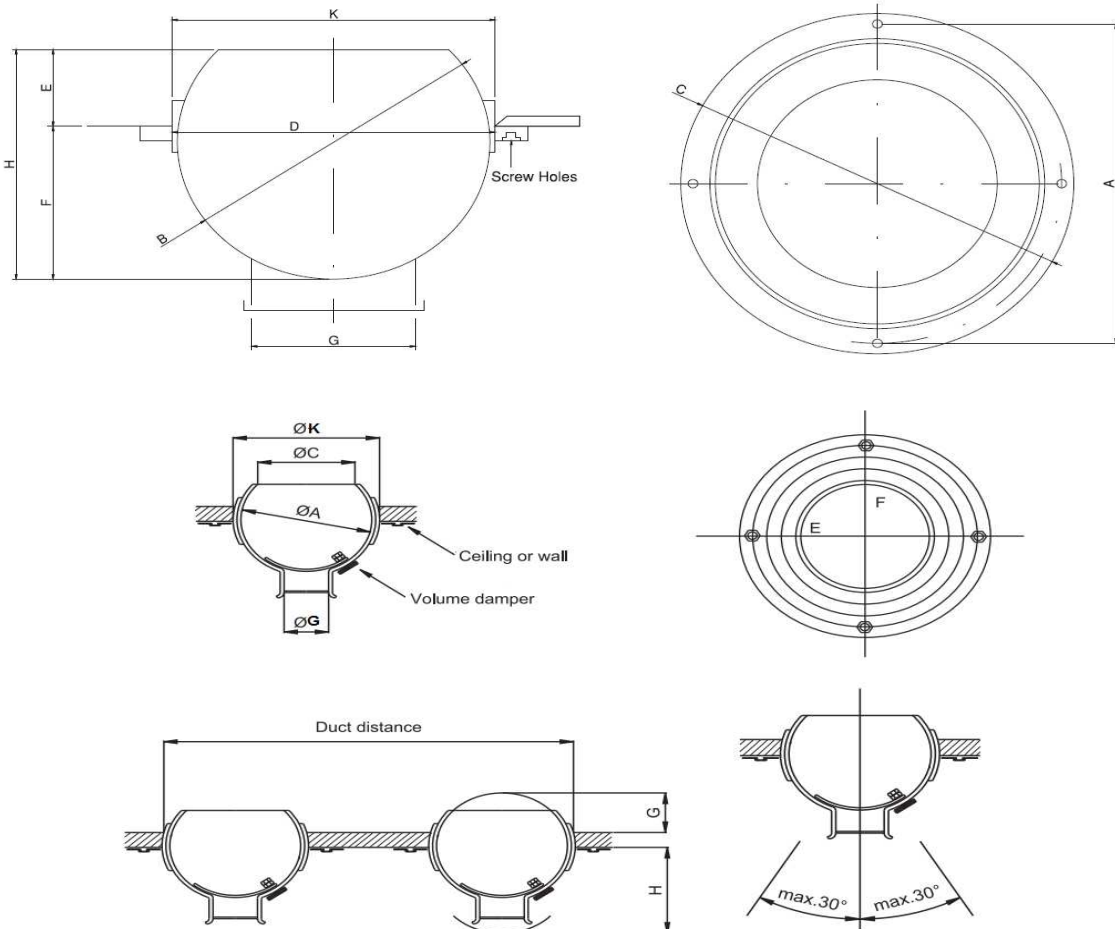


STANDARD SIZES (mm):

TYPE JA - AVAILABLE SIZES (mm)						
NECK DIAMETER						
Ø80	Ø120	Ø150	Ø200	Ø250	Ø315	Ø400
X	X	X	X	X	X	X

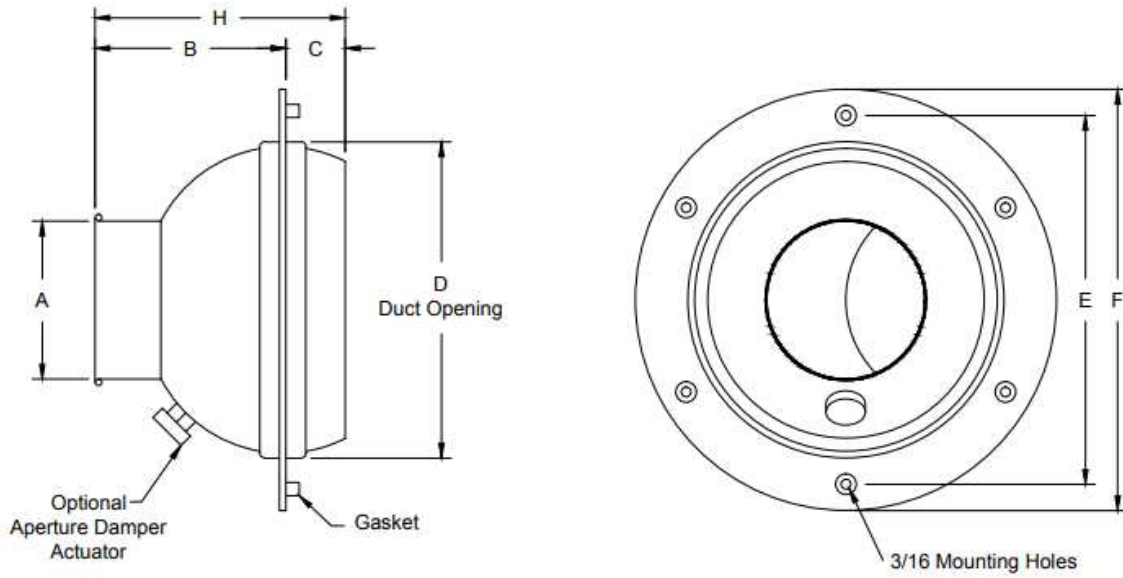
JA DIMENSIONS

MEASURE	A	B	C	D	E	F	G	H	K	Screw holes
JA 3	97	75	115	82	17	53	38	70	85	3
JA 4	122	100	140	107	24	65	50	89	111	4
JA 5	152	130	170	137	33	82	65	115	140	5
JA 6	172	150	190	158	38	94	75	132	161	5
JA 7	213	178	231	185	38	111	90	149	190	5
JA 8	232	200	250	204	44	120	100	164	208	5
JA 10	304	267	324	276	50	174	140	224	280	5
JA 12	342	305	363	314	63	200	165	263	318	5





MPK DIMENSIONS (Only U.S.)



SIZE	A	B	C	D	E	F	H	No. of Mtg Holes
6	3	3-5/8	1-1/8	6	7	8	4-3/4	4
8	4-3/8	4-5/8	1-3/4	8	9	10	6-1/8	4
10	5-3/4	6-1/4	2-1/2	10	11	12	8-3/4	6
12	7-3/8	6-1/2	3	12	13	14	9-1/2	6
14	8-5/8	7-3/8	4-1/8	14	15	16	11-1/2	6
16	9-3/4	8-1/2	4-5/8	16	17	18	13-1/8	6



JA SELECTION TABLE

Qv(m ³ /h)	MODEL	JA 4	JA 7	JA 8	JA 10	JA 12	JA 14
	Ak (m ²)	0,0034	0,0068	0,0080	0,0170	0,0215	0,0430
100	L ₁ (m)	9,0					
	NR	17					
	Pt (Pa)	40,0					
	Vk (m/s)	8,4					
150	L ₁ (m)	13,0	9,0				
	NR	31	15				
	Pt (Pa)	84,0	28,0				
	Vk (m/s)	13,0	6,8				
200	L ₁ (m)	18,0	14,0	12,0			
	NR	40	25	17			
	Pt (Pa)	160,0	57,0	30,0			
	Vk (m/s)	17,5	9,4	7,0			
300	L ₁ (m)		20,0	17,0			
	NR		37	29			
	Pt (Pa)		120,0	68,0			
	Vk (m/s)		14,0	11,0			
400	L ₁ (m)		27,0	23,0	16,0		
	NR		46	38	20		
	Pt (Pa)		200,0	120,0	30,0		
	Vk (m/s)		19,0	14,0	7,0		
500	L ₁ (m)			28,0	20,0	17,0	
	NR			45	27	18	
	Pt (Pa)			180,0	50,0	25,0	
	Vk (m/s)			17,0	9,0	6,6	
600	L ₁ (m)				25,0	21,0	
	NR				32	25	
	Pt (Pa)				68,0	38,0	
	Vk (m/s)				11,0	8,0	
800	L ₁ (m)				33,0	28,0	20,0
	NR				42	34	16
	Pt (Pa)				120,0	64,0	17,0
	Vk (m/s)				14,0	10,5	5,6
1000	L ₁ (m)				40,0	35,0	25,0
	NR				48	40	23
	Pt (Pa)				180,0	100,0	28,0
	Vk (m/s)				18,0	13,5	6,8
1500	L ₁ (m)					51,0	38,0
	NR					53	35
	Pt (Pa)					220,0	60,0
	Vk (m/s)					19,5	10,0
2000	L ₁ (m)						50,0
	NR						44
	Pt (Pa)						100,0
	Vk (m/s)						13,5
3000	L ₁ (m)						63,0
	NR						56
	Pt (Pa)						230,0
	Vk (m/s)						20,0

Selections table
 criterias
 Vt=0,25 m/s



MPK SELECTION TABLE (Only U.S.)

Model	Nozzle Velocity (fpm)	1000	1500	2000	2500	3000	3500	4000
MPK-04	CFM	22	33	44	55	66	77	88
	Projection	3-6-12	4-8-17	6-12-23	8-16-24	9-18-27	10-21-30	12-22-32
	Total Pressure	0.03	0.07	0.13	0.20	0.28	0.39	0.50
	NC	<15	<15	<15	19	23	26	30
MPK-06	CFM	49	74	98	123	147	172	196
	Projection	4-8-16	6-12-23	8-16-27	10-20-30	12-21-32	14-25-36	16-26-38
	Total Pressure	0.05	0.12	0.22	0.34	0.49	0.66	0.86
	NC	<15	<15	15	21	25	29	33
MPK-08	CFM	104	157	209	261	313	365	418
	Projection	6-11-23	8-17-34	11-23-39	14-28-44	17-31-46	20-35-52	23-38-55
	Total Pressure	0.06	0.14	0.24	0.38	0.53	0.70	0.92
	NC	<15	<15	17	24	30	35	38
MPK-10	CFM	180	270	261	451	541	631	721
	Projection	7-15-30	11-22-45	15-30-51	19-37-57	22-41-61	26-47-69	30-50-72
	Total Pressure	0.07	0.15	0.25	0.39	0.56	0.74	0.96
	NC	<15	<15	21	29	35	40	45
MPK-12	CFM	297	445	593	742	890	1038	1187
	Projection	10-19-38	14-29-57	19-38-65	24-48-74	29-52-78	33-60-88	38-64-93
	Total Pressure	0.07	0.15	0.26	0.40	0.58	0.78	1.01
	NC	<15	15	24	32	38	44	47
MPK-14	CFM	406	609	811	1014	1217	1420	1623
	Projection	11-22-45	17-33-67	22-44-76	28-56-86	33-61-91	39-70-103	45-75-108
	Total Pressure	0.07	0.15	0.26	0.41	0.58	0.79	1.02
	NC	<15	15	25	33	39	44	48
MPK-16	CFM	518	778	1036	1296	1555	1815	2074
	Projection	13-25-50	19-38-76	25-50-86	32-63-97	38-69-103	44-79-117	50-84-122
	Total Pressure	0.07	0.14	0.26	0.41	0.58	0.80	1.03
	NC	<15	16	26	33	39	44	49

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM : Airflow / Standard air density and isothermal conditions.

NC : Noise Criteria [NC] curve which is not exceeded with a Room Attenuation of 10dB and based on Sound Power Level RE: 10-12 watts

Total Pressure : Inches of water gauge required.

Projection : Projection distance {Throw} in feet from the Nozzle discharge at which the maximum velocity has been reduced to specified terminal velocity [Vt].

Nozzle Velocity : Nozzle Discharge Velocity in feet per minute [fpm].

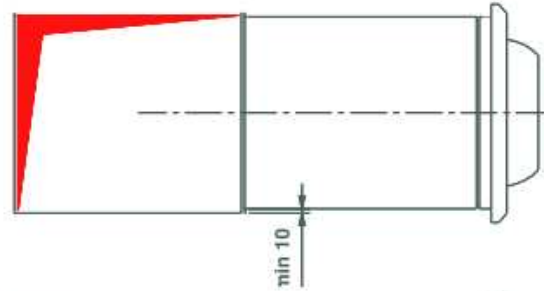
Terminal Velocity : Maximum velocity [Vt] in feet per minute [fpm] at the specified distance from the outlet face [Throw] 400 fpm, 200 fpm and 100 fpm respectively



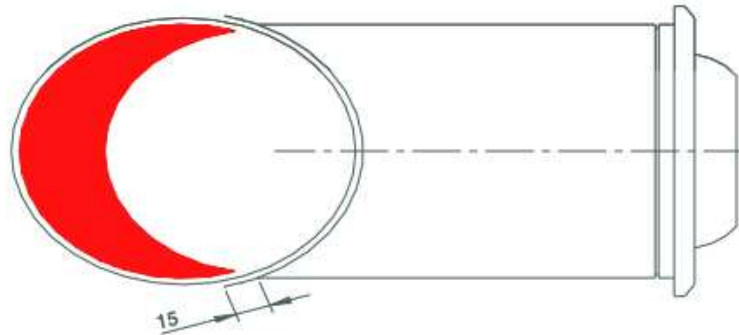
INSTALLATION:

Jet nozzles are suitable for mounting on rectangular or circular ducts. For both connection types, there is a circular drilled flange appropriate to be fixed with screws or rivets.

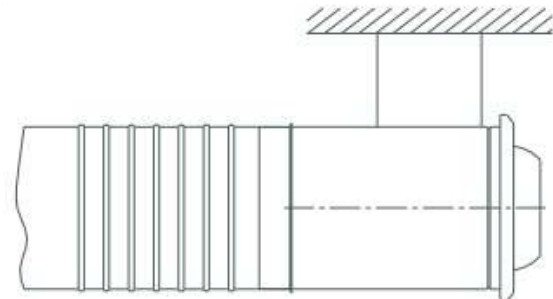
Rectangular duct connection example



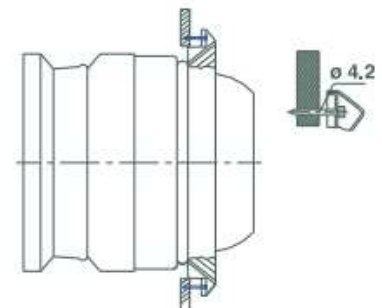
Round duct connection example



Flexible duct connection example



Wall installation example





ORDER CODES

JA	00	RAL9010	SM	D 315mm
JA: without Damper JA-D : With Damper				D: Neck Diameter 00: No Mounting SM: Screw Mounting
00: Without Plenum Box PL: With Plenum Box				00: No coating EX: Eloxal Coating RAL----: Powder Coating