



JET NOZZLES



SJN SERIES



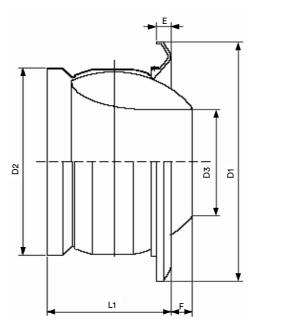
Dimensions

SJN consist of a spherical discharge nozzle mounted in a housing and is complete with a front mounting flange and circular spigot for direct connection to circular duct.

A rear duct connection with a spigot or a saddle with flange are available as option for fixing to the side of rectangular or circular ducts.

SIZE	D1	D2	D3	Е	F	L1	L2
100	162	98	50	10	2	78	80
125	185	123	64	10	4	89	90
160	216	158	82	11	10	106	110
200	273	198	108	16	14	127	140
250	318	248	136	16	23	159	170
315	400	313	174	23	29	189	220
400	483	398	230	24	47	223	260
500	596	498	286	27.5	60	290	340

For supply with actuator, L2= 365mm for all sizes.





Description

The SJN Series jet nozzles are designed to ventilate large indoor spaces such as exhibitions halls, theatres, museums, foyers etc., outlets with long jet throws are needed.

The discharge direction is determined by the outlet angle, $(\pm 30^{\circ} \text{ around the outlet axis})$ and can be adjusted manually or motorized.

The jet nozzle can be installed on walls, bulk heads and pillars.

It also has extra ordinary good acoustic characteristics and is therefore well suited for air distribution in indoor spaces and critical areas such as stages, conference rooms, theatres, museums and broadcasting studios and concert halls.

Standard Construction

Materials:

The face cover and the nozzle are made of aluminum with natural finish and can be painted or powder coated (RAL 9010) or to any other color.

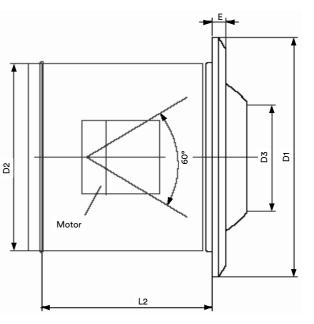
Two plastic rings (color RAL 9010) are used for mounting of the eyeball. All duct connections, spigots, collar saddles and flanges are supplied in galvanized steel finish. Finish:

The standard coating finish is polyester powder coating, white color RAL 9010 (Code: ZO).

Optional Finish:

 Natural anodized aluminium finish (Code: Z1).
The powder coating can be of any color if requested as specified (Code: Z2).

			Duct D)iamete	r		
SIZE	200	250	315	500	630	800	1000
100	٠						
125		•					
160			٠	٠	•	٠	
200				٠	•	٠	
250				٠	•	٠	
315				٠	•	٠	
400					•	٠	
500						٠	•



Technical Selection

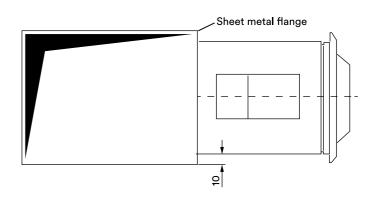




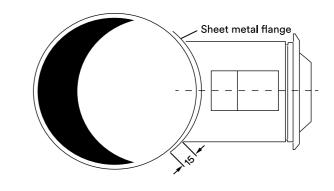
Installation Details

The jet nozzles can be installed on rectangular or circular ducts as nozzles can be supplied with flanges, collar saddles anf spigots.

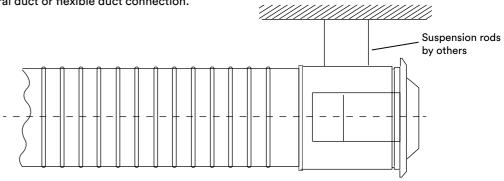
SJN - R Example of a rectangular duct connection.



SJN - C Example of a circular duct.



SJN - S Example of a spiral duct or flexible duct connection.



Throw (m) 10m 20m 30m Air SIZES Velocity Volume Pressure Volume Pressure Volume Pressure ٧L W/ flow rate loss flow rate loss flow rate loss dB(Â) dB(Â) dB(Â) (m/s) (Pa) (Pa) (M³/h) (Pa) (M³/h) (M³/h) 93.6 <20 82.8 <20 <20 <20 0.25 <20 8.3 <20 <20 <20 <20 <20 <20 <20 <20 <20 ____ 93.6 <20 <20 0.5 8.3 <20 <20 <20 <20 1.0

NOTE

The above table provides a guide for selecting the size of the SJN Jet Nozzle. For selection outside the limits of above table, please contact SAFID.

INSTALLATION DETAILS

ORDER REFERENCE DETAILS





JET NOZZLES

Order Details

Order Code:	SJN-R	-	м	-	ZO	/	250 Ø
Model: SJN-R : Rectangular duct			Ī		Ī		Ī
SJN-C : Circular duct SJN-S : Spiral duct or Flexible duc	t						
Control Method:							
M : Manual							
A1 : Actuator 220V or 230V							
A2 : Actuator 24V							
A3 : Modulating actuator (010V)							
Coating Finish:							
Z0 = Powder coated, white color R	AL 9010 (standard	d) ——— (k					
Z1 = Natural anodized aluminium f	inish						
Z2 = Any other color if requested a	as specified						
Sizes (mm)							

Order Example

100, 125, 160, 200, 250, 315, 400, 500

Order Code:

Ordering Make : SAFID Type: SJN-R-M-Z01/250Ø Qty.: 1pc.

Description

The RJN jet nozzle series is designed for areas where a long throw is needed. The large free area allows handling of large air flow rates with low pressure loss. Available with one, two, three or four elements per panel.

Ajustable core can be rotated through 360° and tilted up to a maximum of 30° from mid position to produce a wide variation in airjet angles.

Fully directional jet nozzles for high air flow rates and long throws.

RJN S

Single element without panel for installation in a round duct.

Standard Construction

Materials:

The face cover (panel) and nozzle are fabricated using 22 gauge galvanized steel sheet and are powder coated to a white color, RAL 9010.

JET NOZZLES

RJN SERIES



Finish:

The standard coating finish is polyester powder coating, white color RAL 9010 (Code: Z0).

Optional Finish:

1. The powder coating can be of any color if requested as specifiied (Code: Z2).

SIZE

Ø200

Ø250

Ø300

Ø350

Dimensions: Jet Nozzles With Panel

Standard Sizes (n=number of elements)

MODEL

RJN 1

RJN 2

RJN 3 RJN 4

RJN 1

RJN 2

RJN 3

RJN 4

RJN 1

RJN 2

RJN 3

RJN 4

RJN 1

RJN 2

RJN 3

RJN 4



Е

70

70

70

70

F

90

90

90

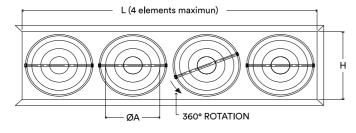
90



Dimensions: Jet Nozzles Without Panel

Standard Sizes (n=number of elements)

SIZE	MODEL	n	ØA	ØB	ØC	E	F
Ø200	RJNS	1	200	-	129	70	90
Ø250	RJNS	1	250	178	100	70	90
Ø315	RJNS	1	315	244	122	70	90
Ø400	RJNS	1	400	329	165	70	90



L

300

600

900

1200

350

700

1050

1400

400

800

1200

1600

450

900

1350

1800

n

1

2

3

4

1

2

3

4

1

2

3

4

1

2

3

4

н

300

350

400

450

ØΑ

200

250

300

350

ØΒ

150

175

200

225

øс

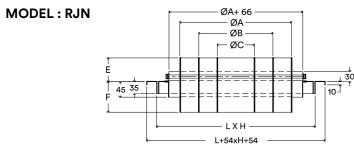
100

100

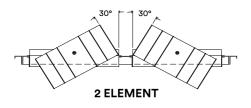
100

100

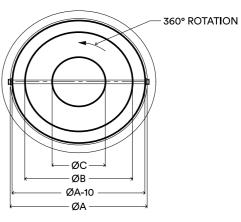
MODEL: RJN 4

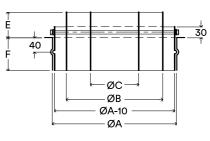


1 ELEMENT



MODEL : RJN S





JET NOZZLES

TOP VIEW

SECTION VIEW

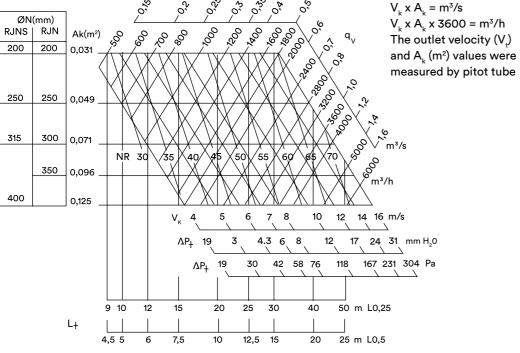
Selection Diagram



Air flow measurement



Order Details



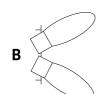
Correction for concentrated jet

Models	n	L, A	L, B	NR
RJN 2	2	x 1,14	x 1	+ 3
RJN 3	3	x 1,20	x 1	+ 5
RJN 4	4	x 1,25	x 1	+ 6

A = Concentrated jet

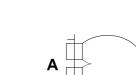
B = Separate jet

q total (1) Enter diagram with $q_y =$ n



qv

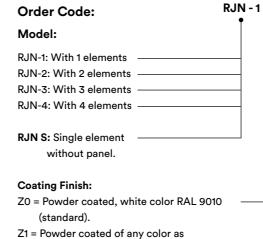
n



:Air flow per elements (diagram data).

q total : Total air flow per unit

:Number of elements.



requested.

Sizes (mm)

Model: RJN - ø200, ø250, ø300, ø350

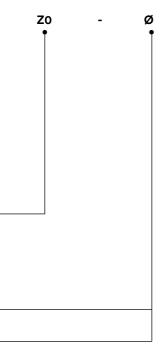
Model: RJNS - ø200, ø250, ø315, ø400

Order Example

Ordering

Make	: SAFID
Туре	: Jet Nozzle with panel and with one elemen
Coating finish	: Powder coated, white color RAL 9010
Model	: RJN-1-Z0 / ø350
Qty.	:1 pc.
Make	: SAFID
Туре	: Jet Nozzle without panel for installation in
Coating finish	: Powder coated, white color RAL 9010
Model	: RJN-S-Z0 / ø315
Qty.	:1pc.

ORDER REFERENCE DETAILS



nt.

round duct.