

SVS5

LONG RANGE NOZZLE



Description:

Long range aluminium nozzle with a variable airflow angle regulated by an electric actuator or set manually.

Intended use

Long range nozzles are designed for air supply in low- and medium-pressure ventilation systems of large public or industrial facilities. They are especially recommended where it is required to provide warm or cool air over long distances.

Design

The SVS5 consists of a mounting stub inside which there is a movable element supplying air, made of satin aluminium in a natural colour. Other RAL colours are available upon request.

The movable element of the nozzle has a range of movement of 30 degrees from the central axis and can be adjusted in any direction with manual adjustment (standard version) and 30 degrees from the central axis vertically or horizontally with manual adjustment or optionally with an electric actuator (available for nozzles with nominal diameters from 80 to 230 mm). A PMS ring covering the mounting screws can be ordered for the SVS5 nozzle.

Installation

As standard, the SVS5 nozzles are designed for direct mounting on rectangular ventilation ducts with screws. They can also be equipped with an R-type cap for mounting on the side of round spiro ducts or an RF cap for mounting on the ends of flexible ducts. As standard, the caps are made of galvanized steel, there is an option of making them of aluminium (only the connection to the Flex type cable).

Dimensions

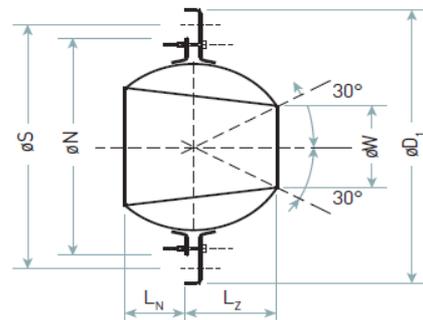


Figure 4. Dimensions of the SVS5 long range nozzle.

Table 1. Dimensions of SVS5 nozzles.

Size	øD ₁ [mm]	øW [mm]	øN [mm]	øS [mm]	L _N [mm]	L _Z [mm]
40	139	40	109	119	20	41
50	169	50	132	148	25	50
80	249	80	206	226	66	52
110	289	110	246	266	58	82
150	389	150	346	366	92	128
200	489	200	446	466	103	172
230	489	230	446	466	105	160

Table 2. SVS5 nozzle accessory dimensions.

Size	øF [mm]	L _R [mm]	DN [mm]	ød [mm]	L _{RF} [mm]
40	115	150	160–450	78	120
50	135	150	200–500	98	160
80	205	200	315–630	158	220
110	250	300	315–800	198	220
150	352	300	500–800	248	250
200	452	350	500–1000	398	290
230	452	350	500–1000	398	290

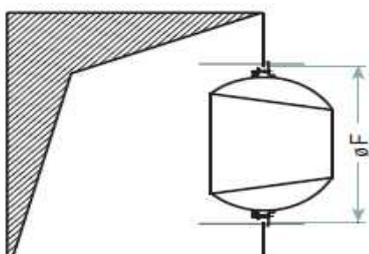


Figure 1. Installation directly on a rectangular duct.

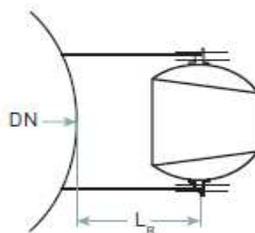


Figure 2. Installation on a round duct with an R-type cap.

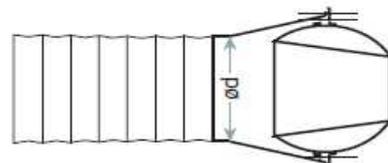


Figure 3. Installation at the end of a round cable with an RF cap.



Technical data of the diffusers, including pressure loss, noise level and airflow ranges, is available at smay.eu, in the document Flow Characteristics for Grilles and Diffusers.

SVS5 – Long range nozzle

When ordering, please provide information in accordance with the following pattern:

SVS5 - <S> - <R> - <P><RAL> / <ADD>

Where:

S	Nominal diameter: 40, 50, 80, 110, 150, 200, 230
R	Control
	NR – Manual regulation
	NS – Adjustment with an electric actuator (only for diameters of 80–230 mm) [default 24 V AC/DC, proportional control 0–10 V]**
P	Finish*
	AS – Satin aluminium
	AL – Painted aluminium
RAL	Colour according to the RAL palette (for AL execution, RAL9010 by default)*
ADD	Here, please specify additional accessories as below

Accessories:

PMS	Mounting screw masking ring
R	Attachment for mounting on the side of a round spiro
RF	Cap for mounting on the end of a round flex cable

* Optional values – if not specified, default values will be used

** Additionally specify: principle of operation of the actuator and supply voltage.

Example of product marking: **SVS5-80-NS-AL9010/PMS**
(24 V AC/DC, 0–10 V proportional control)



Revit blocks, selection program and approval documents available at www.smay.pl.