



PINODq

Extract air valve with
exceptional design



Technical description

Design

The convexly shaped PINOD is a representative of classic Nordic design with clean lines. The silent and easily cleaned. PINOD is available with square perforation. Reliable measurement combined with quick and precise commissioning.

Materials and finish

PINOD is produced in powder coated steel sheet, white standard color RAL9016.

PINODq is also available in alternative colors: pure white (9010), jet black (9005), white aluminium (9006) and grey aluminium (9023+9007).

Project planning

Use dimensioning charts to design the unit. Sound from a valve mounted directly in connection with a bend (4 dB) or T-piece (8 dB) will increase the sound compared to charts.

Installation and commissioning

Install PINODq by dismantling the front, insert the spigot in the duct, fasten with screws or rivet and re-mount the perforated front. When commissioning, start by measuring the pressure with the valve fully open. Dismount the front again, use the accompanying magnet strips and cover desired amount of rows. Re-mount the cover and measure again. Use the k-factor and a pressure measurement equipment to set the correct airflow

Maintenance

Clean air diffuser when necessary using warm water and soap. Alternatively use a vacuum cleaner.

K-factor

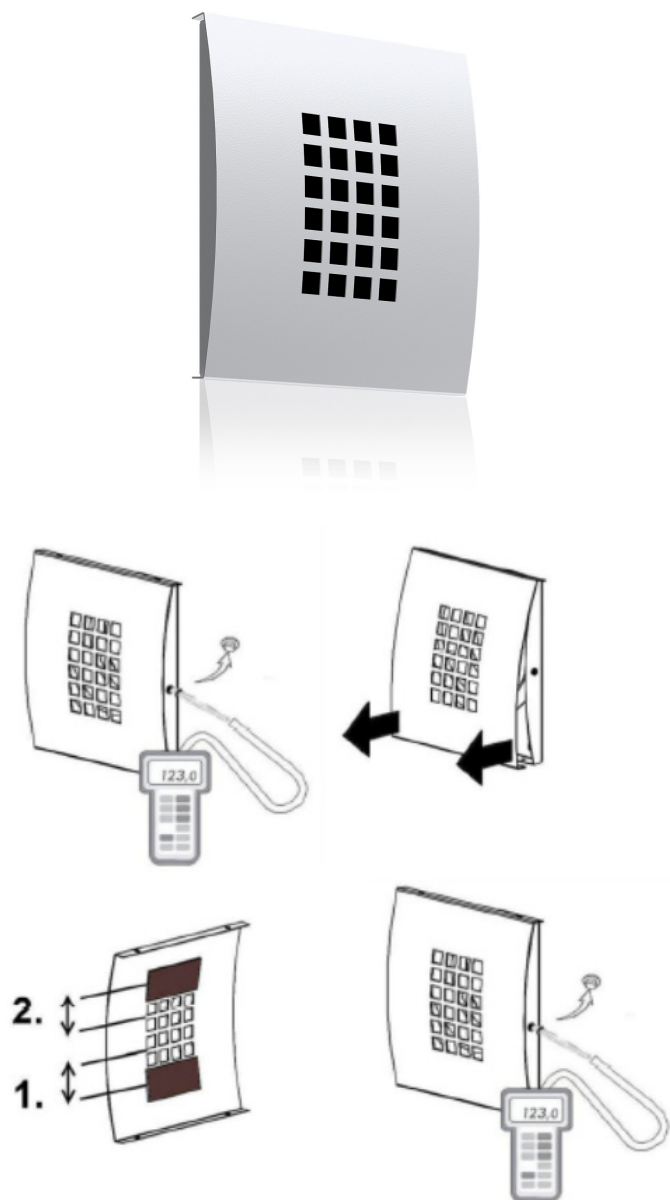
A pressure of at least 5 Pa is required to obtain at least ± 10% accuracy of the airflow.

Environment

Building declaration is downloadable at our homepage www.swegon.com

Also available in the following colours:

| | | | |
|--|--|---|---|
|  Pure white RAL 9010 |  Jet black RAL 9005 |  White aluminium RAL 9006 |  Grey aluminium RAL 9023+9007 |
|--|--|---|---|



$$q = k \cdot \sqrt{p}$$

$$p = \left(\frac{q}{k}\right)^2$$

q = Airflow l/s
 p = Pressure (Pa)
 k = Commissioning factor

Figure 1. commissioning

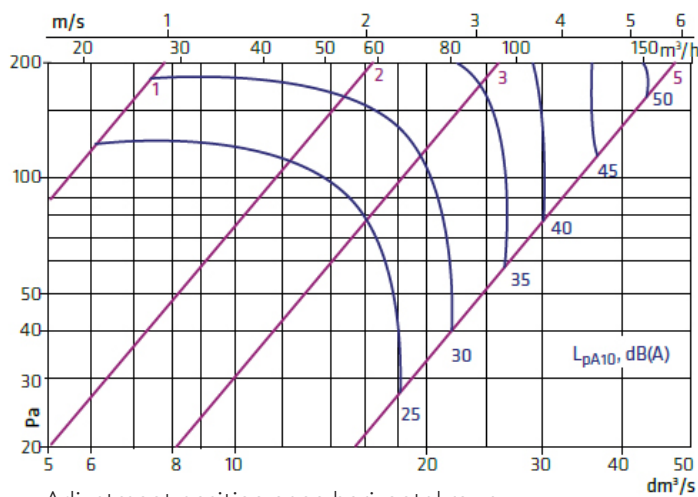
| | | k | |
|-------------|---|---------|--------|
| PINODq | | 100 | 125 |
| | | 5x4x=20 | 6x4=24 |
| A | | 2,5 | 3,1 |
| Closed rows | 1 | 2,0 | 2,6 |
| | 2 | 1,5 | 2,1 |
| | 3 | 1,0 | 1,5 |
| | 4 | 0,5 | 1,0 |
| | 5 | | 0,5 |

| Dimension | Airflow | | Sound dB(A) | Pressure (Pa) |
|--|---------|------|----------------|------------------|
| | l/s | m3/h | | |
| PINODq 100 | 16 | 58 | 25 | 80 |
| PINODq 125 | 22 | 79 | 25 | 90 |
| 3 (Ø100) and 4 (Ø125) perforated rows open | | | | |

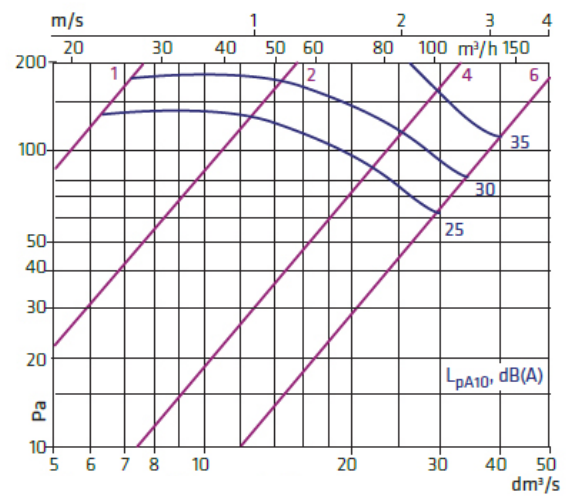
Dimensioning

- Noise level is presented in dB(A) with an acoustic room absorbance of 4 dB (10m² equivalent sound absorption area).
- Mounting directly after a bend (4 dB) or T-piece (8 dB) will increase the sound compared to charts
- The correction of the octave bands, and sound attenuation ΔL is specified for a fully open valve

PINODq-100



PINODq-125



Sound data

Sound power level L_w (dB) table K_{ok}

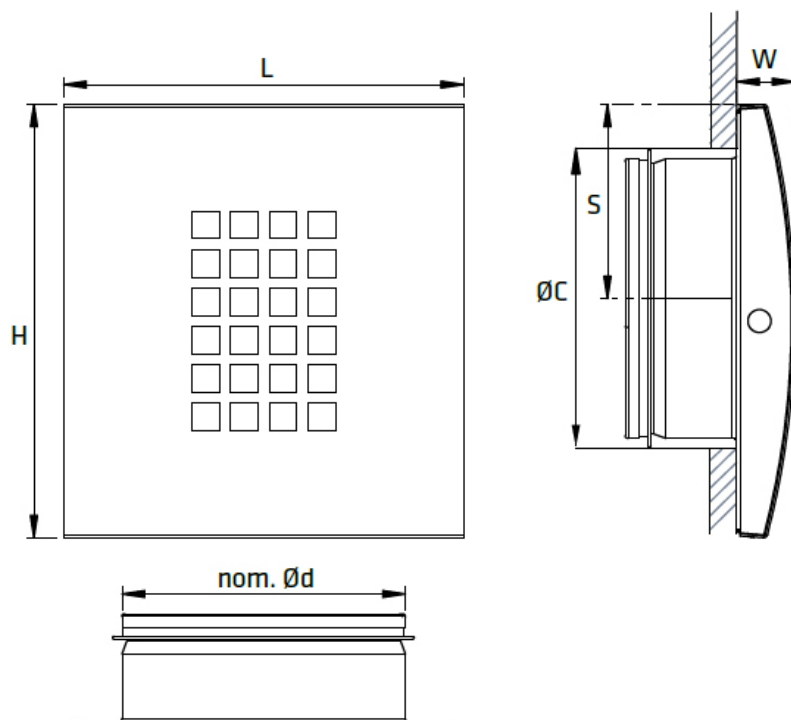
| | Frequency (octave) Hz | | | | | | | |
|-----------|-----------------------|-----|-----|-----|------|------|------|------|
| Dimension | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 100 | -6 | -2 | -1 | -2 | 0 | -2 | -9 | -10 |
| 125 | -11 | -2 | -3 | -4 | 0 | -2 | -7 | -8 |
| Tol +/- | 6 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |

Sound attenuation ΔL (dB) table

| | Frequency (octave) Hz | | | | | | | |
|-----------|-----------------------|-----|-----|-----|------|------|------|------|
| Dimension | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 100 | 22 | 16 | 11 | 7 | 0 | 5 | 2 | 3 |
| 125 | 19 | 14 | 9 | 3 | 1 | 6 | 3 | 4 |
| Tol +/- | 6 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |

Dimensions and weight

| | nom Ød | ØC | L | H | W | S | kg |
|------------|--------|-----|-----|-----|----|----|-----|
| PINODq-100 | 100 | 115 | 150 | 164 | 20 | 70 | 0,5 |
| PINODq-125 | 125 | 145 | 175 | 192 | 25 | 82 | 0,6 |



Order key

Product

Extract air valve PINODq aaa

Dimension: 100, 125

Alternative appearance

Color RAL bbb

9016(standard) 9010, 9005, 9006, (9023+9007)

Specification text

QME

EXTRACT AIR VALVE FOR WALL
OR CEILING MOUNTING

Perforated design extract air valve for premises with small airflows. Quick and easy commissioning, and possible to select with alternative colors.

FDXX

Supplier:

Swegon

Type:

PINODq

Color:

RAL bbb

Dim.

aaa xx pcs