

# **ø125mm Ceiling Integrated Valves**

## **Instruction Manual**



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## 1. INTRODUCTION

### 1.1 What is in the box?



This box includes the following:

- x1 ø125mm Ceiling integrated supply/extract valve
- x1 Cardboard
- x2 Metal flange
- x4 Bolts
- x1 Installation manual
- x1 Air flow regulator

### 1.2. Product description

The ceiling integrated valves do both supply and extract air. Their purpose is to provide high air quality and thermal comfort without compromising on aesthetics. This is achieved by their frameless, hidden design that eliminates the issues of protruding valves. The design prevents dust build-up and is painted the same colour as the ceiling, ensuring that the system remains unobtrusive and effective.

The ceiling integrated valves work by controlling the airflow in a room, spreading it evenly, providing an efficient air distribution. They are designed to blend seamlessly into the ceiling, allowing air to flow through a slot. This helps maintain a consistent and comfortable temperature throughout the room. The aerodynamic design minimizes resistance and noise, making the valves both effective and quiet.

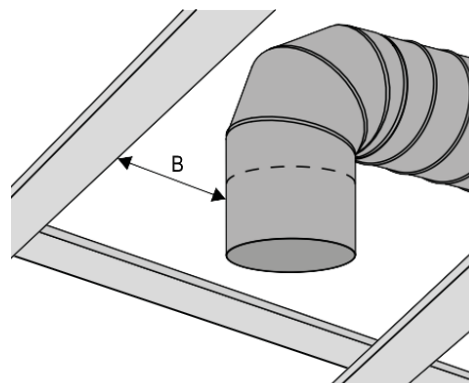
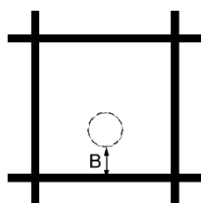
## 1.3 General safety instructions

This product is designed for continuously running ventilation. Continuous ventilation is necessary to ensure a healthy indoor air quality and to always maintain the building fabric in good condition.

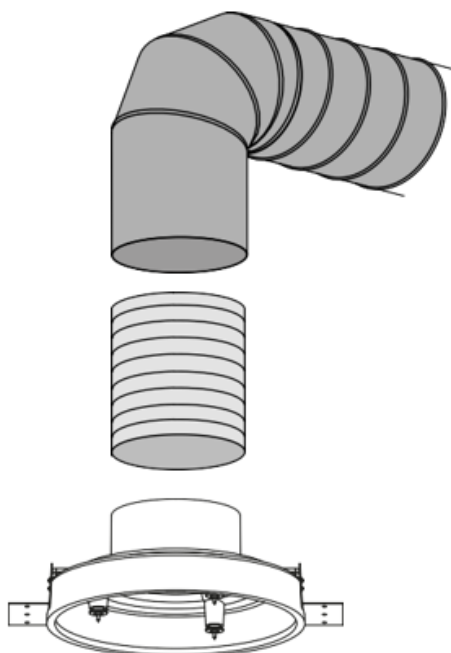
This valve must only be used and installed according to the installation, user and maintenance manual. (Otherwise, all guarantees and warranties will be void.)

**ATTENTION!** When making a layout draft for the ventilation system, ensure a minimum distance (B) exists between the ceiling valve's flange to the ceiling elements.

	B
Ceiling Integrated Valve	100

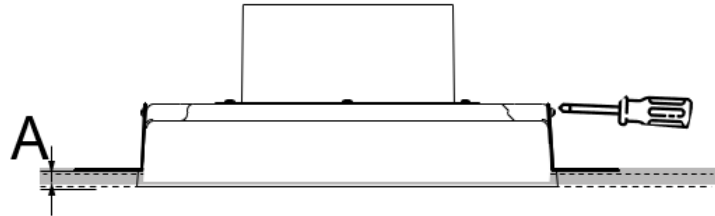


**ATTENTION!** To prevent vibration, a selection of flexible duct must be attached in between the ceiling valve and rigid duct.

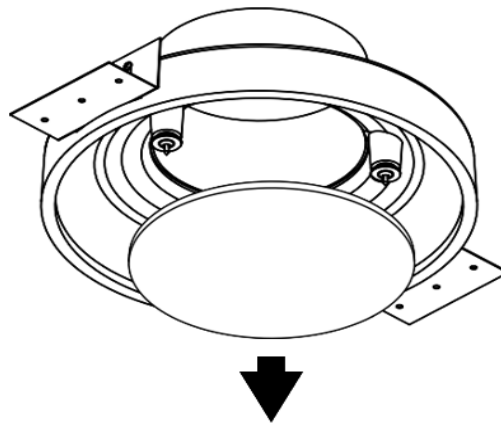


To attach the mounting brackets to plasterboard, use screws at least 3.9 mm in diameter.

Before starting the installation, secure the mounting brackets in pre-made holes on the ceiling valve's casing. Adjust the position of the mounting brackets based on the ceiling thickness (A).



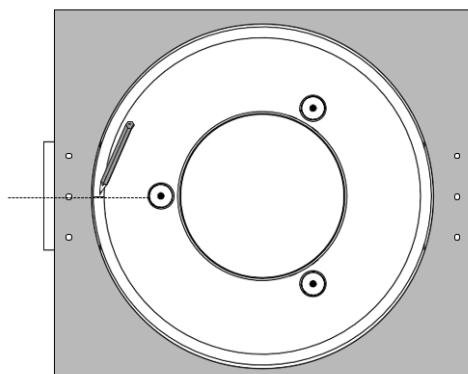
Remove the front panel fixed with magnet holders.



## 2. INSTALLATION

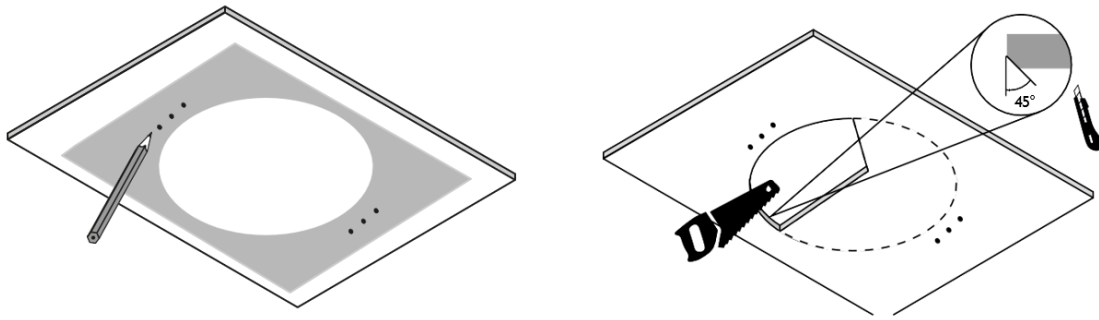
### 2.1 Mounting

1.



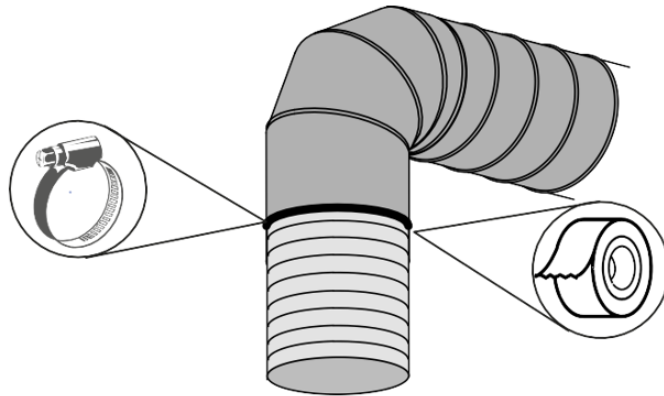
For comfortable mounting, locate the mounting template on the internal packing attachment. Align the template with the ceiling valve and make a mark coaxial to the hole in the middle.

2.



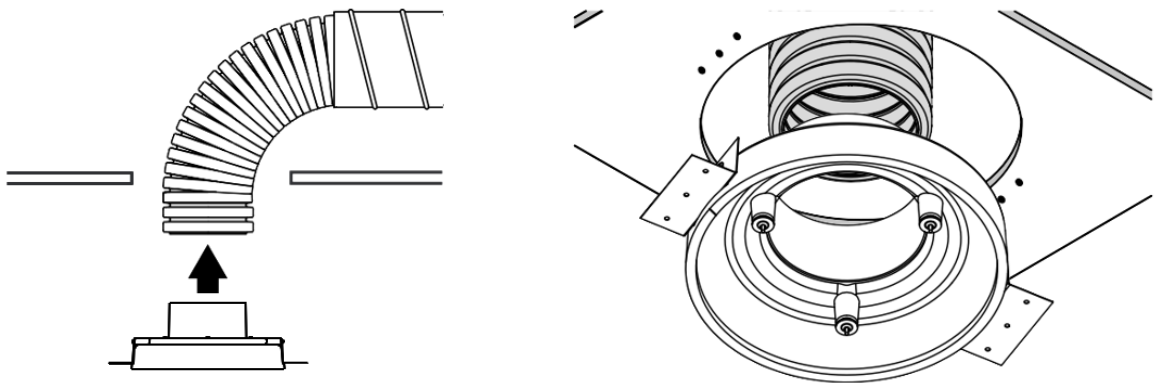
Align the template with the ceiling and mark up the places to install the ceiling valve and make holes for mounting. Make a hole in the plasterboard. Remove the chamfer at a 45° angle up to 1/3 plasterboard thickness.

3.



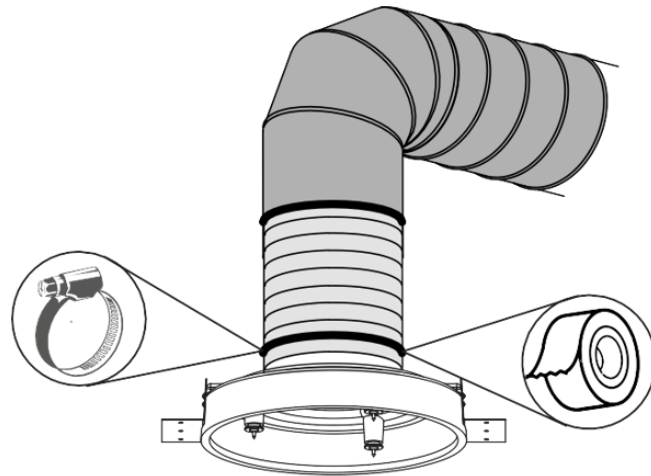
Connect the flexible air duct to rigid air duct. Fix the connection with the worm drive clamp or duct tape.

4.



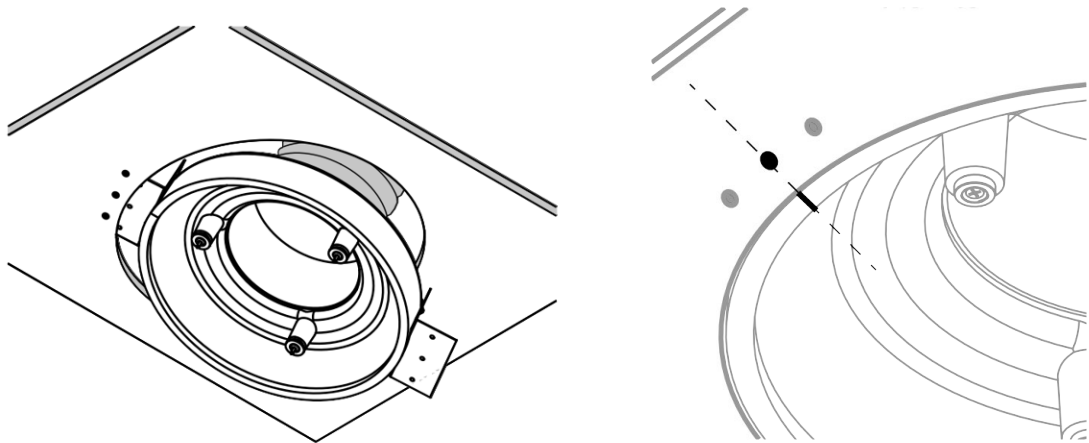
Install the air duct onto the ceiling valve's flange.

5.



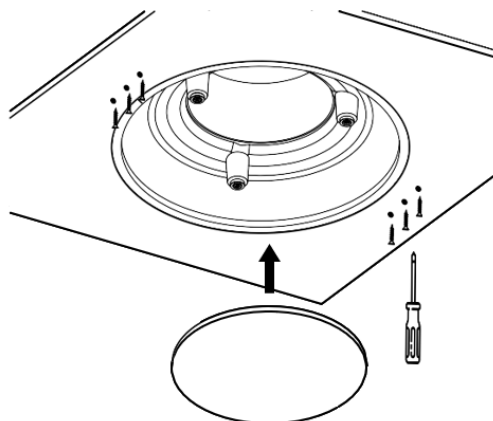
Secure the connection with the worm drive clamp or duct tape.

6.



Install the ceiling valve into the hole in the ceiling. The mounting brackets must be supported with the back side of the plasterboard.  
Align the mark on the ceiling valve with the centre of the hole in the middle.

7.

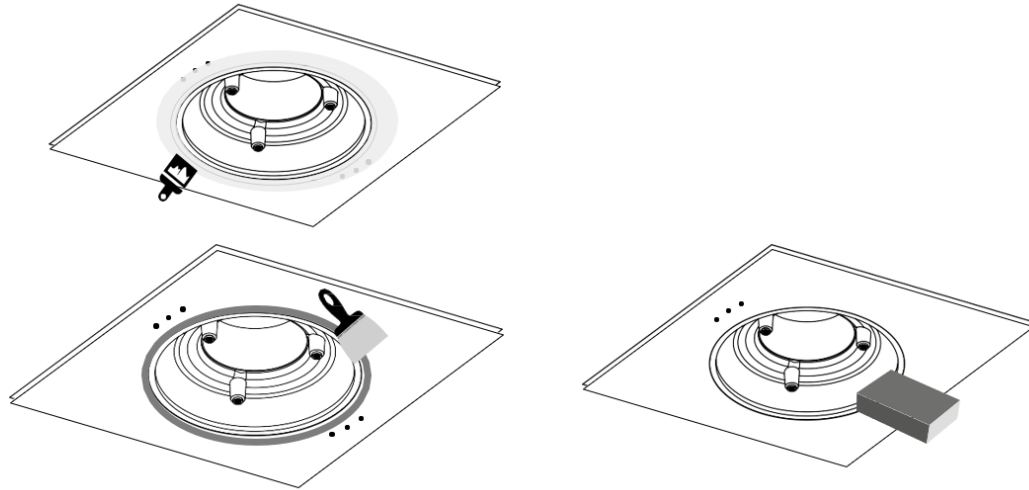


Secure the ceiling valve with screws. Install the front panel fixed with magnet holders.

## 2.2. Decoration

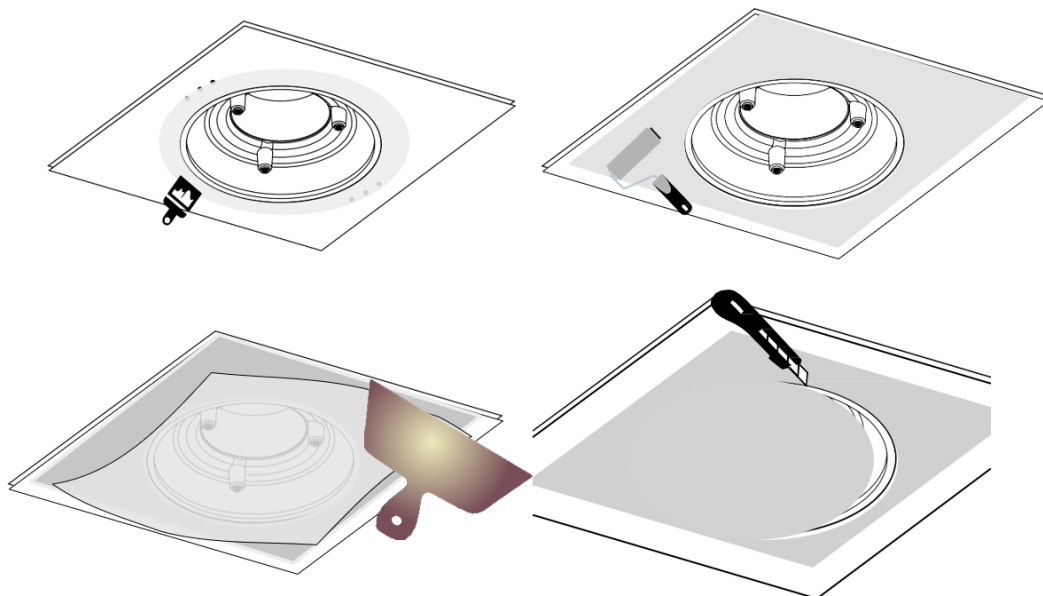
ATTENTION! When marking up holes and decorating, it is recommended to use the technology, instruments and materials approved by the plasterboard manufacturer or local standard of the country where the plasterboard is being mounted.

1.



1. Remove dust from surfaces and crevices. Apply a water based primer.
2. When dry, fill the gap between the air valve and the plasterboard with filler.
3. After the filler has dried, sand the surface.

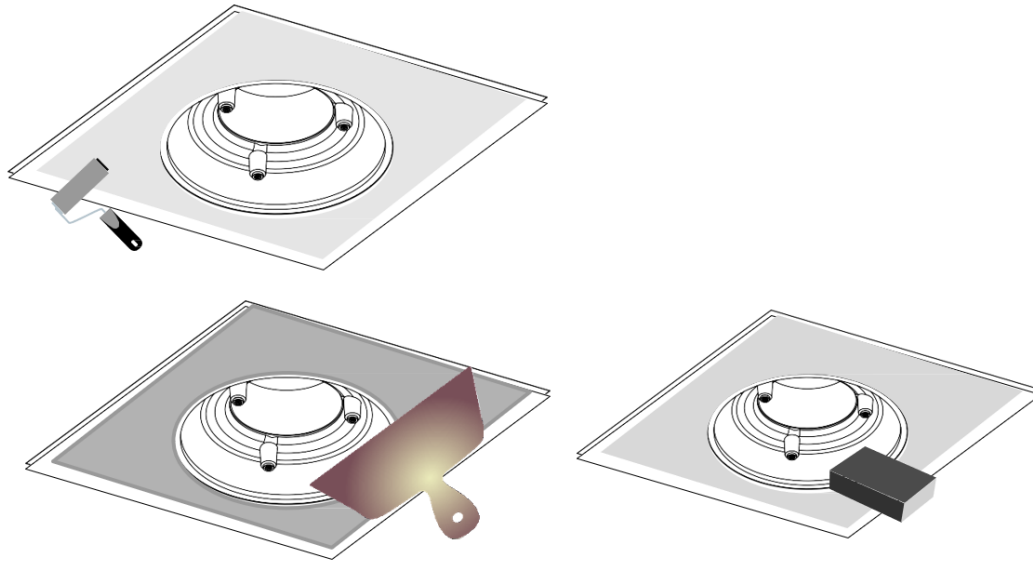
2.



1. Apply the water based primer.
2. After the primer has dried, apply the filler to the plasterboard.
3. Attach the glass fibre mesh and gently press it into the filler with a spatula. Then apply a covering coat of filler over the glass fibre mesh.
4. After drying, cut the fibreglass cloth to the inner contour of the air valve.
5. Sand the surface.

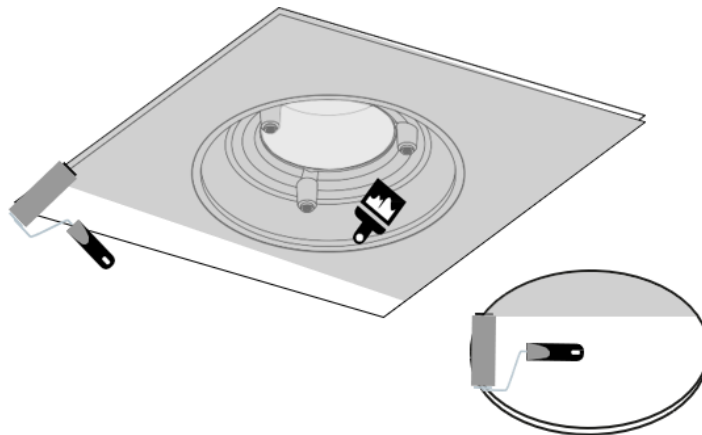


3.



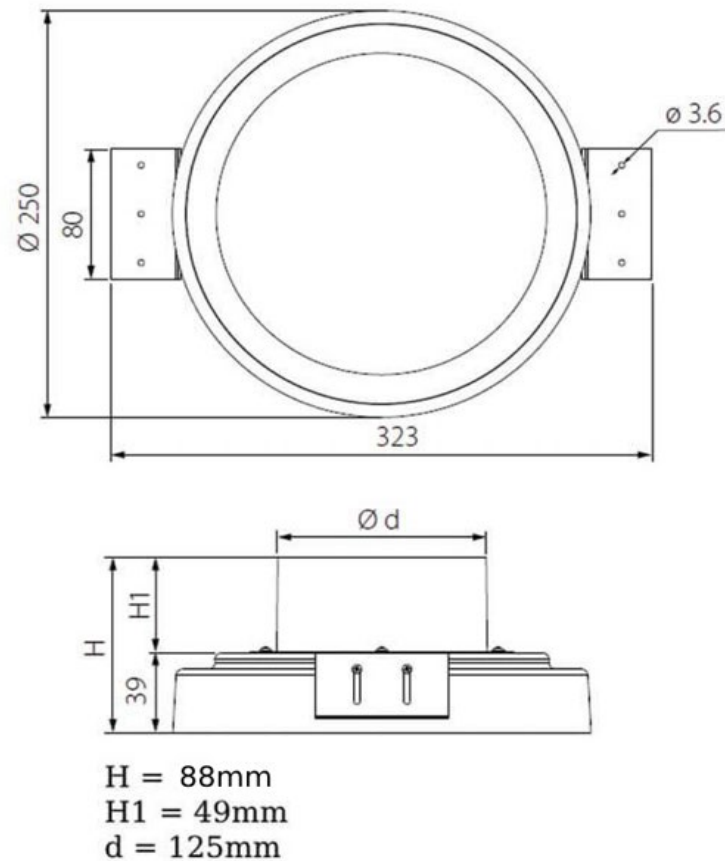
1. Apply the water based primer.
2. When dry, apply filler and sand the surface.

4.



1. Apply a primer (the one recommended by the paint's manufacturer).
2. Paint the air valve and the plasterboard.
3. For highly humid rooms, use the appropriate high-humidity primer and paint.

## 2.3 Dimensions



## 3. TECHNICAL SPECIFICATION

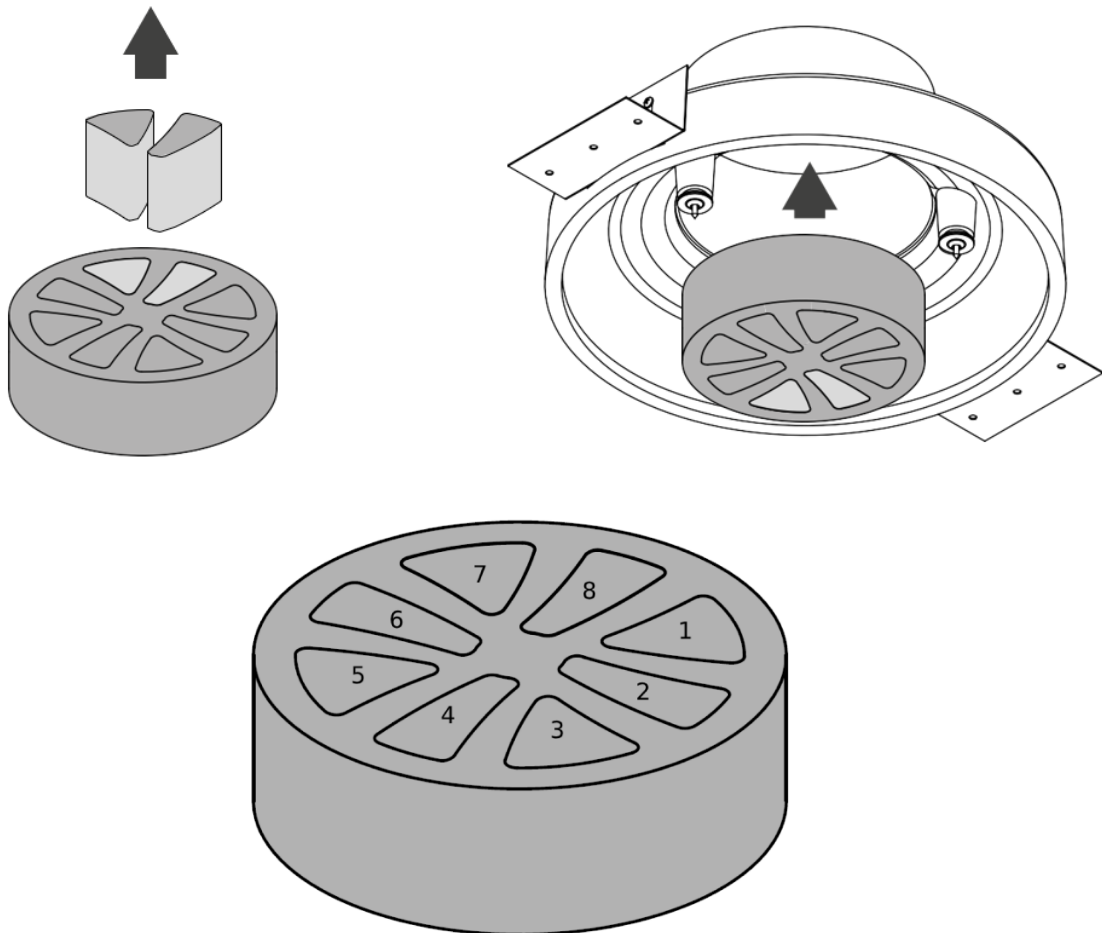
### 3.1 Product technical information

Specification	Ø125mm Ceiling Integrated Valve
Max airflow (m³/h / l/s)	90/25
Material	Polyurethane foam
Ceiling type	Plasterboard
Sound pressure (dB) at 90m³/h	25
Max Equivalent area (mm²)	6,000
Internal diameter (mm)	Ø125
External diameter (mm)	Ø250
Weight (kg)	4.5
Part number	90002245
EAN	5019009338132

## 3.2 Airflow regulator

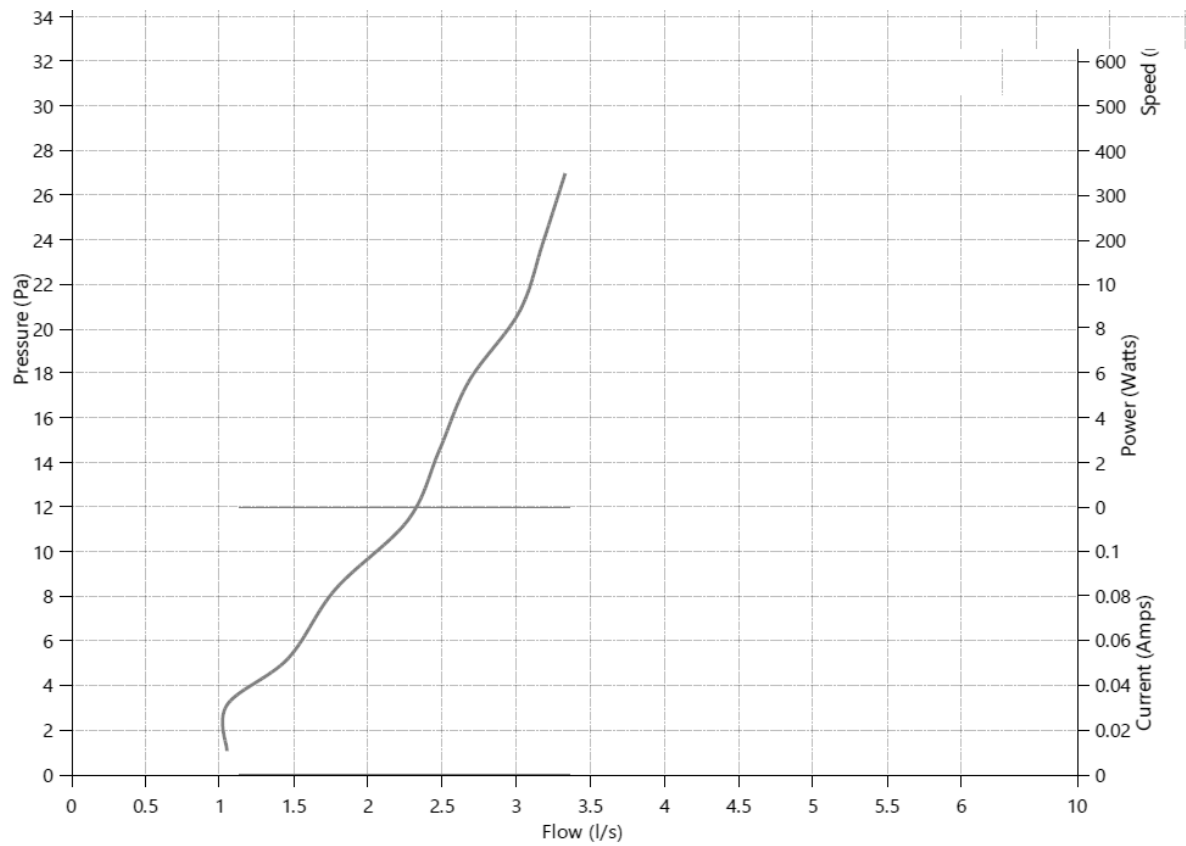
The valve's air flow is adjusted via the round airflow regulator.

To adjust, remove the inserts from the airflow regulator if necessary and place it in the ceiling valve's spigot.

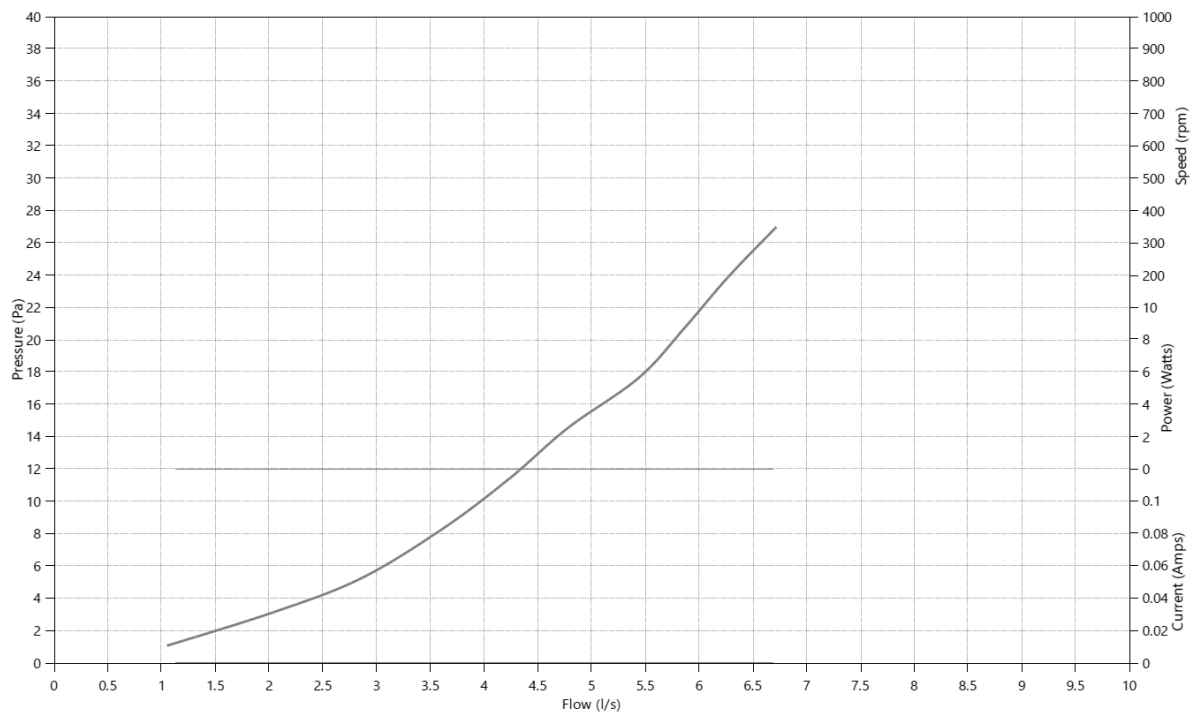


## 3.2. Performance

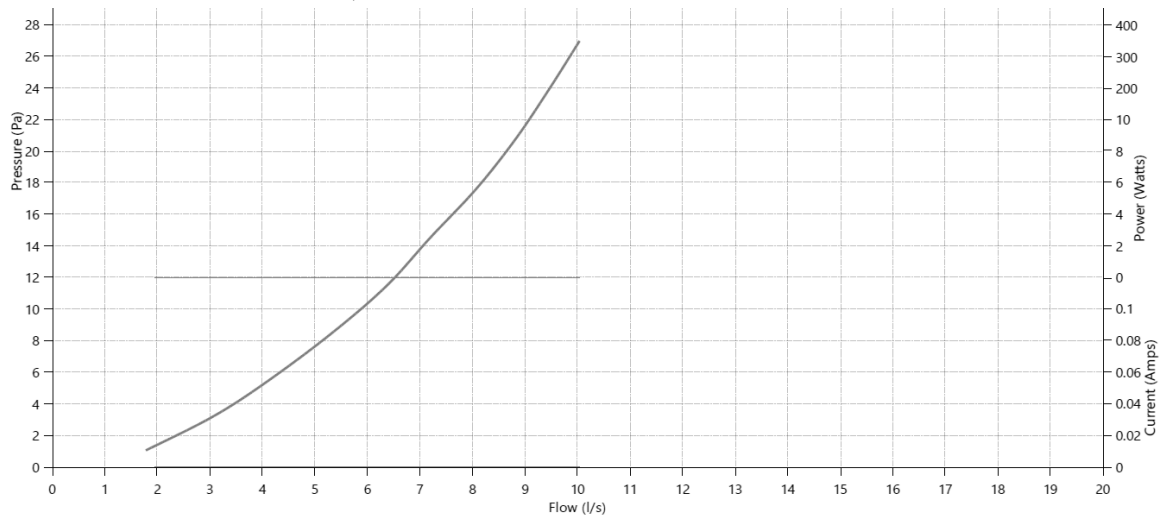
- Slots removed - 1



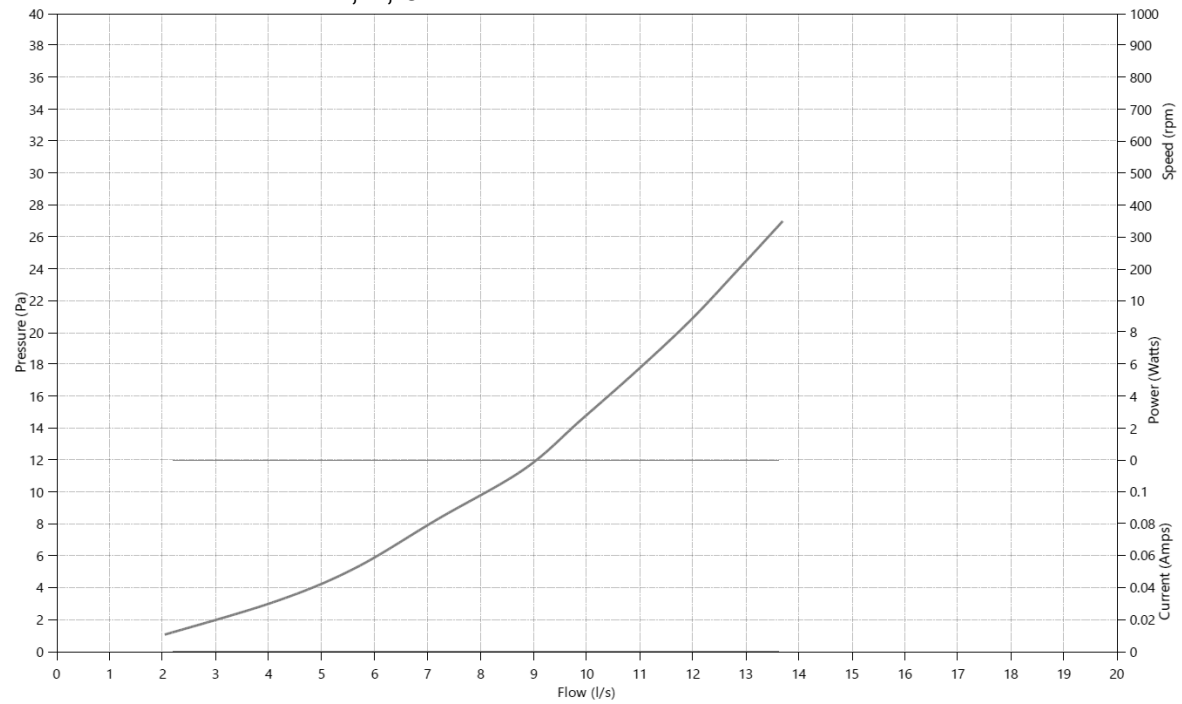
- Slots removed - 1 and 2



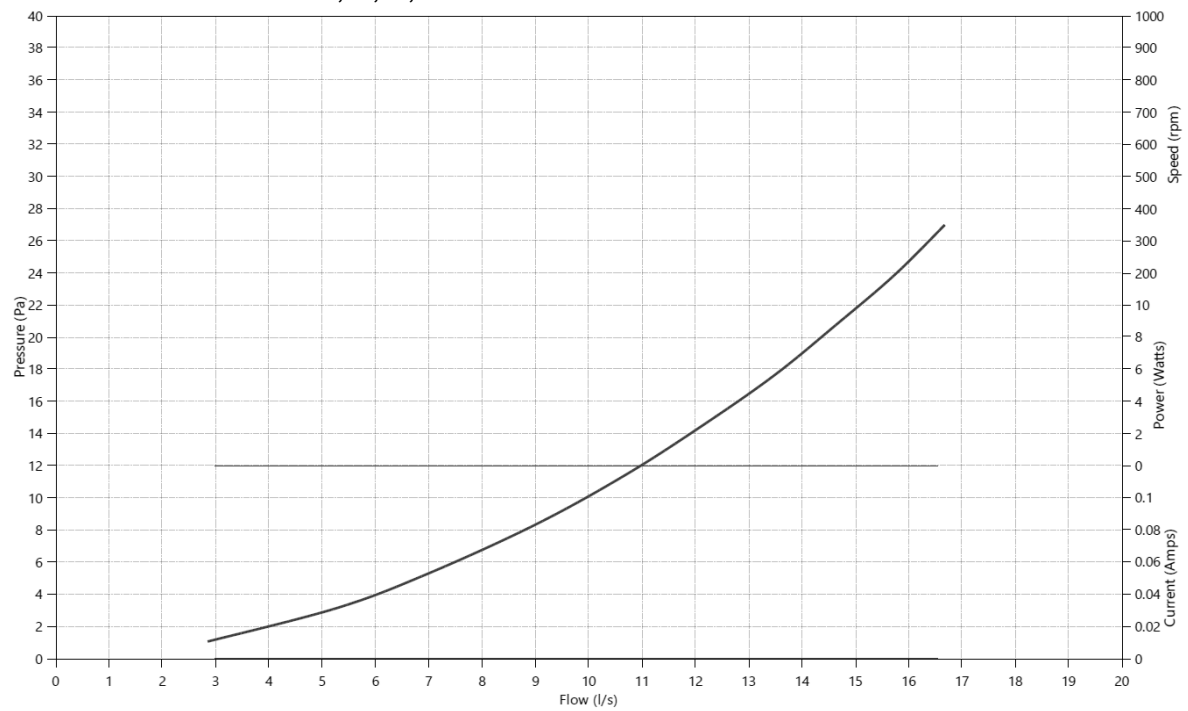
- Slots removed - 1,2 and 3



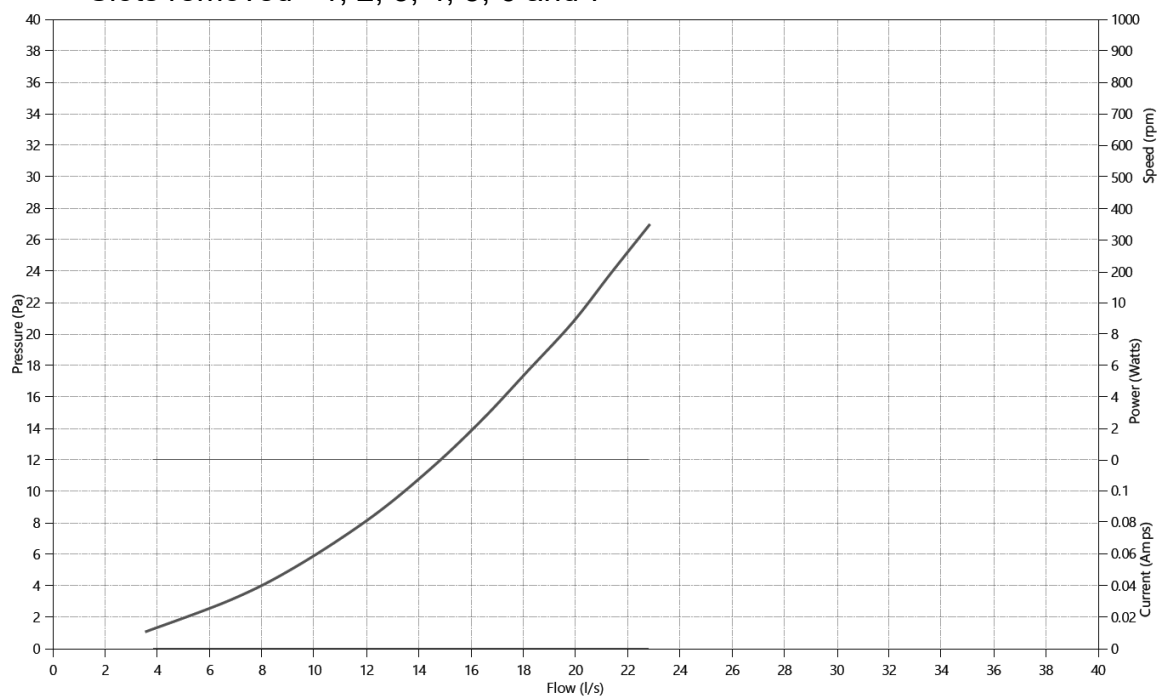
- Slots removed - 1, 2, 3 and 4



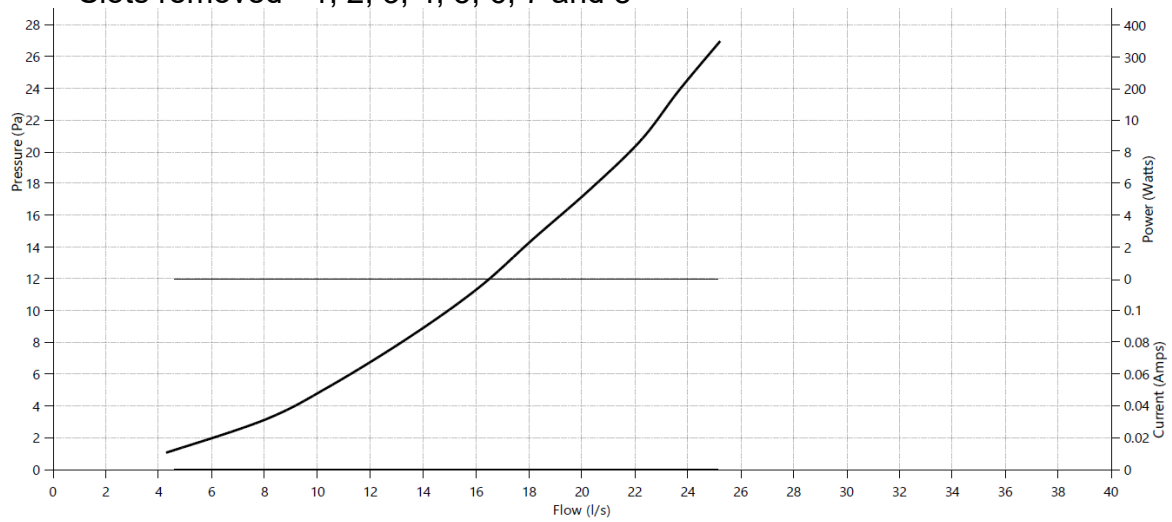
- Slots removed - 1, 2, 3, 4 and 5



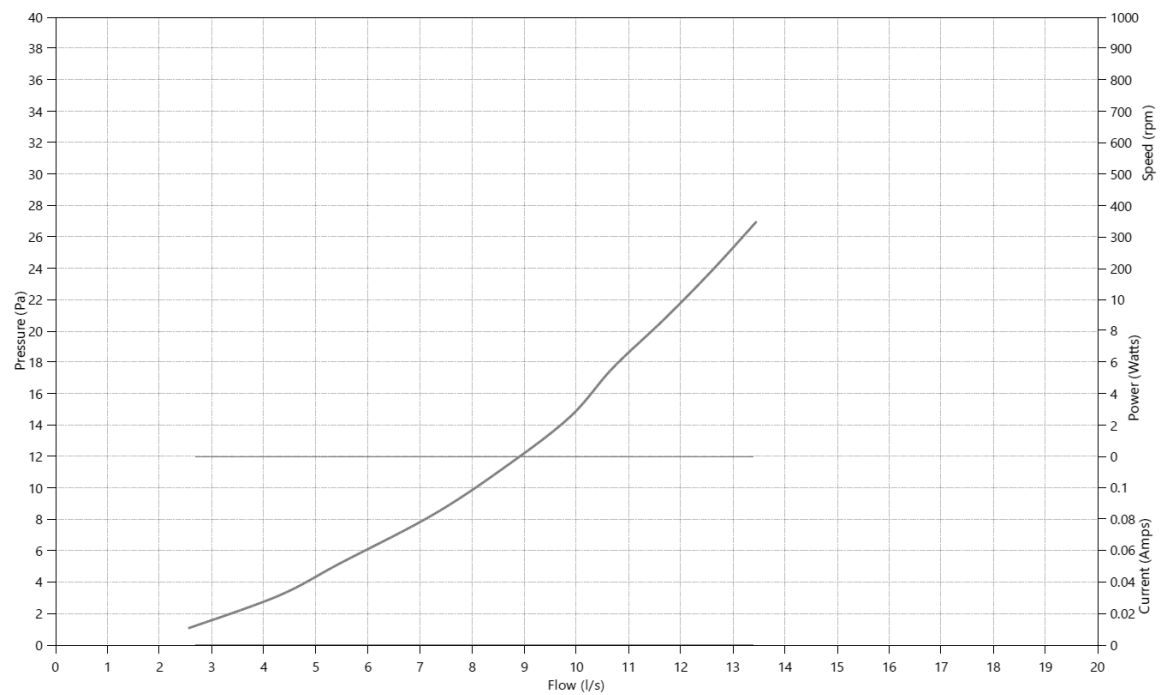
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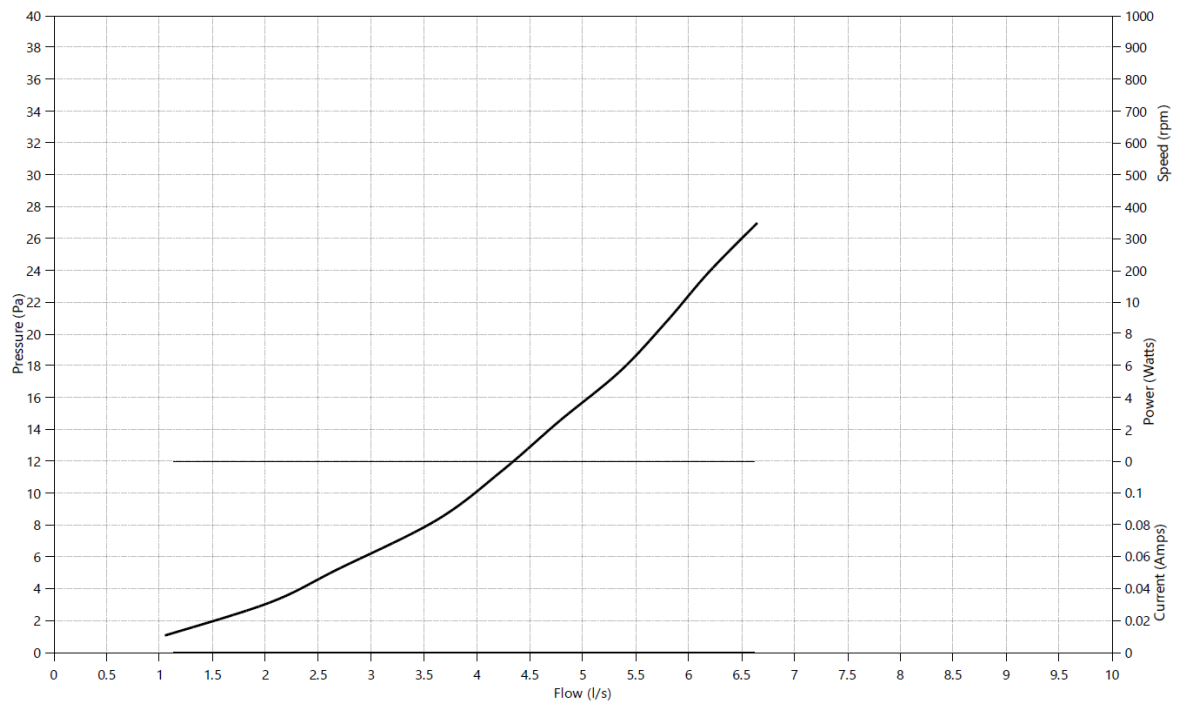
- Slots removed - 1, 2, 3, 4, 5, 6, 7 and 8



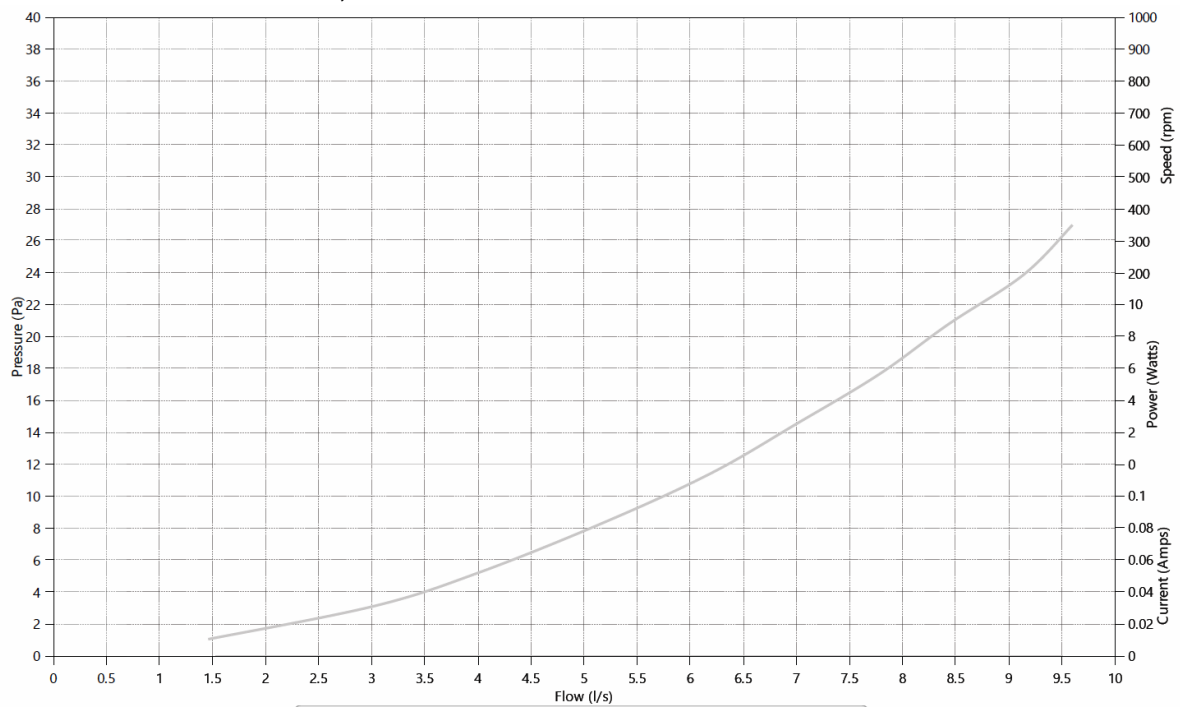
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- Slots removed – 1 and 3

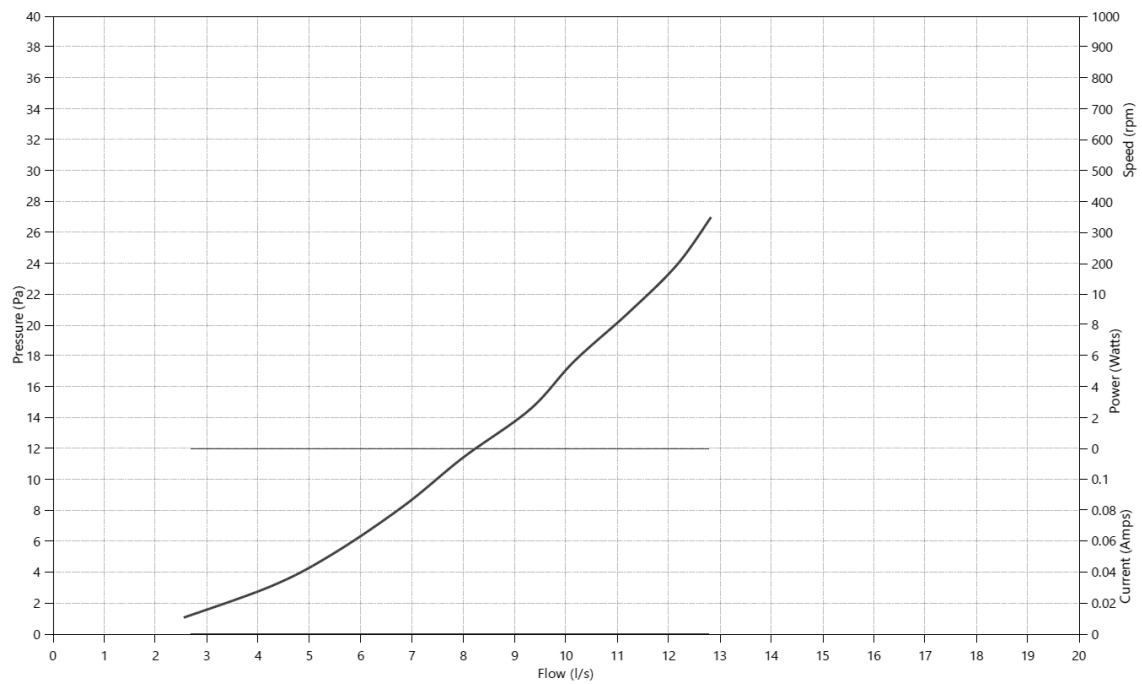


- Slots removed – 1, 3 and 5

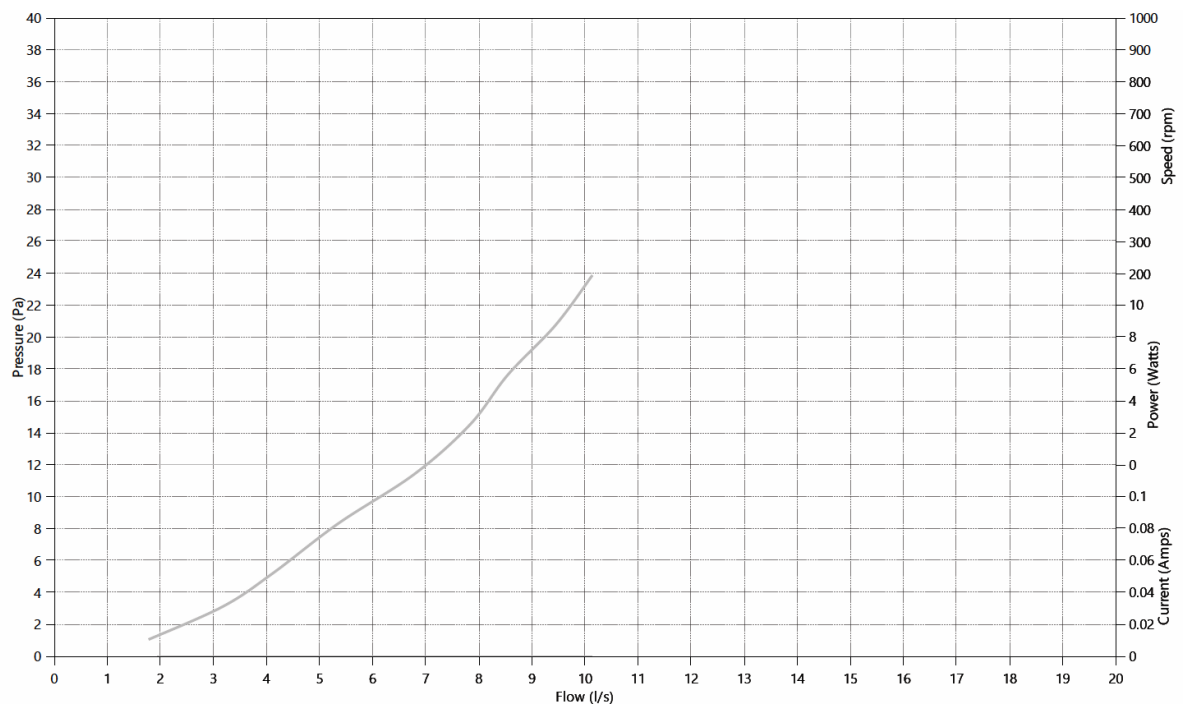




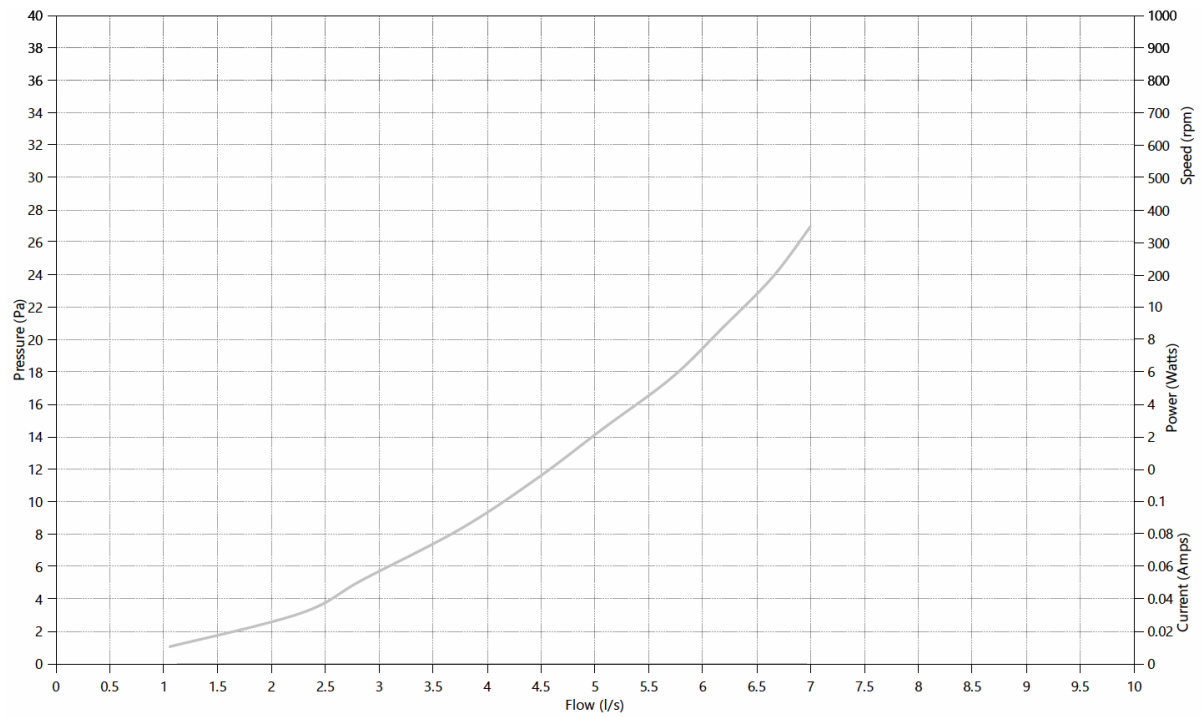
- Slots removed – 1, 3, 5 and 7



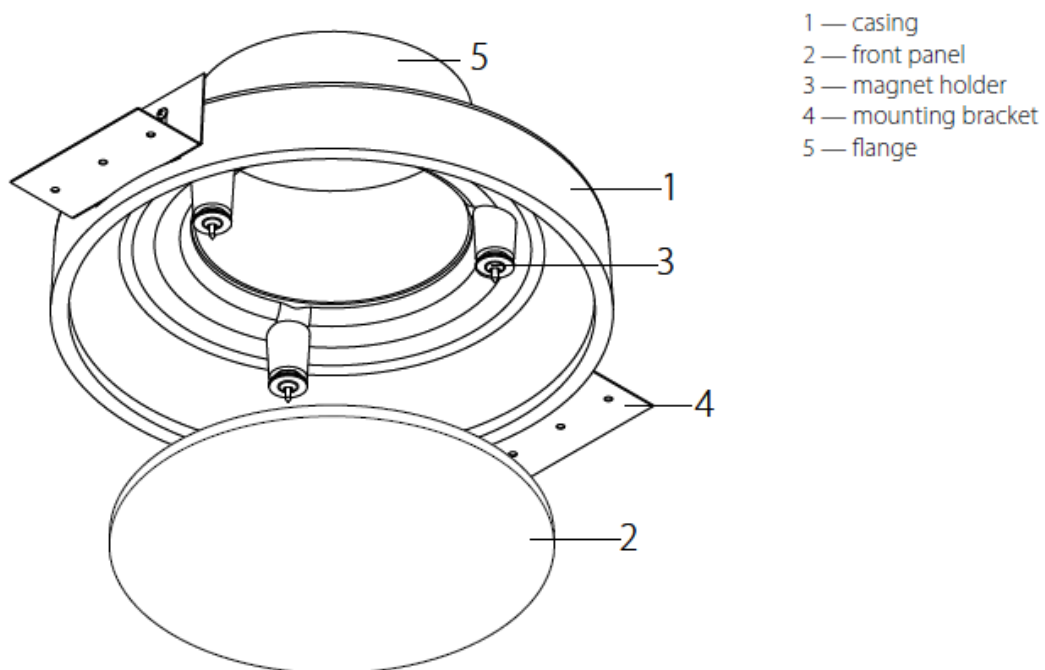
- Slots removed – 2, 4 and 6



- Slots removed – 4

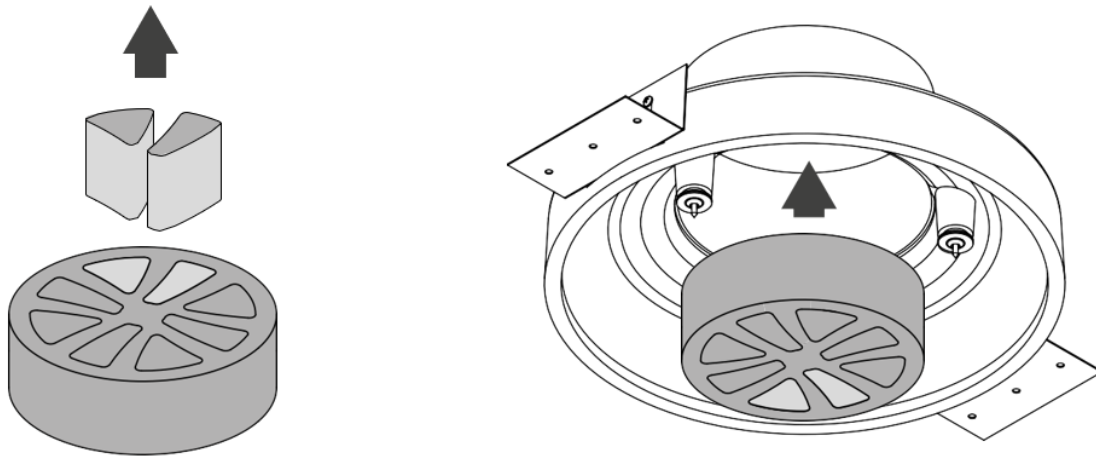


## 4. EXPLODED VIEW AND PARTS LIST



## 5. PRODUCT COMMISSIONING

The valve's air flow is adjusted via the round airflow regulator.



Begin by removing any necessary inserts from the airflow regulator to allow proper adjustment. Once prepared, insert the regulator into the spigot connection of the ceiling integrated valve. Ensure it is seated securely to maintain airflow control.

## 6. MAINTENANCE

Regular maintenance of the ceiling integrated valve is essential to ensure optimal performance and longevity.

To clean the air valve, remove the front cover and use a soft brush to remove dust and debris buildup. Reattach the front cover by aligning it properly to the magnets.

## 7. DECOMMISSIONING AND DISPOSAL

This product must be disposed as construction waste. Parts that are at end of life due to wear and tear, corrosion, fatigue and or other effects that cannot be discerned must be disposed of in the correct manner conforming to local and / or international guidelines and regulations. Intended or unintended further use of worn parts can result in danger to persons and the environment.



Packaging materials should be disposed of in the correct manner conforming to local and / or international guidelines and regulations. Some packaging can be re-cycled. In this case seek advice from a qualified waste management company.



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80001722 - Issue 1 06/25