

**Attention: Before operating BSR series safety damper, user must read this operating manual carefully, please! Keeping the manual for reference.**

## **BSR Series Safety Damper**

Executing standard: Q/320500BSK001-2001

# **OPERATING MANUAL**

ISO9001: 2000 CERTIFIED

**SUZHOU CLEANING TECH. RESEARCH INSTITUTE  
BAISHEN TECHNOLOGY (SUZHOU) CO., LTD.**

**Welcome to use BSR Series Safety Damper, thank you warmly entering into our company's consumer team!**

## **1. General description**

BSR series safety damper (safety damper for short) is air cleaning device matching with cleaning workshop. Using the safety damper can control pressure indoor to expulsion extra air. It will maintain positive differential pressure between indoor and outdoor, and avoid dirty air flowing backwards to indoor.

The safety damper is one fruit of our company, which absorbed advanced technology of the same kind of products in Japan. It features novelty structure, beautiful appearance, convenient maintenance and etc. This device is widely used in industry and research fields such as electron, machine, medicine, food and biology engineering.

## **2. Technical specification**

Starting Differential Pressure	0.5mmAq
Range of Differential Pressure	0.5~2.5mmAq
Thickness of Wall	30~50mm
Air Volume	0~1500m <sup>3</sup> /h
Outline Dimension	600×400×170mm
Net Weight	10kg (approx.)

## **3. Operating principle**

The safety damper is installed on the wall. When the pressure indoor is over the setting pressure, open valve (aluminum sheet) of the safety damper automatically in order to expulsion extra air. It will maintain positive differential pressure between indoor and outdoor, and avoid dirty air flowing backwards to indoor. Heavy hammer position can be adjusted according to air quantity and differential pressure.

## **4. Construction**

4.1 The safety damper is hang type.

4.2 The cabin of the safety damper is made of first-class cold rolling steel sheet flexed and jointing. The surface is treated by rust prevention and then baking varnish. It is beautiful and durable.

4.3 It features novelty structure, portability, beautiful appearance, convenient installation.

4.4 Heavy hammer position can be adjusted according to air quantity and differential pressure.

4.5 The valve is made of aluminum sheet. The weight is light and it will not rust.

4.6 The valve is sustained by rolling bearing. Turn on it easily.

## **5. Installation**

5.1 Choose the wall, which can endure the weight of the safety damper. If the wall cannot endure it or endure it unsteadily, please add auxiliary structure.

5.2 The safety damper installed must avoid inclining to prevent the cabin from distorting.

5.3 If the working cabin is installed newly or has not been used for a long time, before operating its circle must be cleaned with dustcollector or other tools, which cannot make dust.

5.4 The thickness of the wall can adjust between 30 and 50mm.

## **6. Operation**

6.1 Place the safety damper in little dust and wetness place. It is used in indoor, so don't use it outdoor.

6.2 The safety damper cannot be cleaned by volatile oil or diluent to prevent lacquer coating from destroying and discoloring.

6.3 Choose the ground or wall, which can endure the weight of the safety damper.

6.4 If the safety damper is installed sideling, the cabin will distort.

6.5 Forbid using it in situation such as low temperature, high temperature, much wetness, dew fall, much dust and oil smoke, mirage.

6.6 The condition of using it:

Temperature: 5~40 °C

Relative humidity:  $\leq 85\%$  (35°C)

6.7 When it is transported and reserve, it cannot be strongly struck and drenched by water directly. Otherwise, it will be broken and rust.

## **7. Maintenance**

7.1 According to the cleanliness of the circumstance, the surface of the safety damper should be regularly (general every one week) cleaned by cloth, which cannot make dust.

7.2 Keep cleanness and avoid being struck.

## 8. Appendix

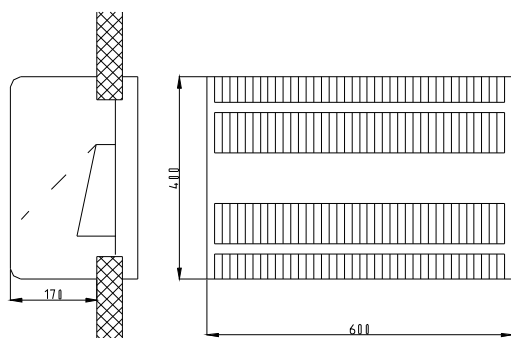


Fig.1 Sketch map of installation

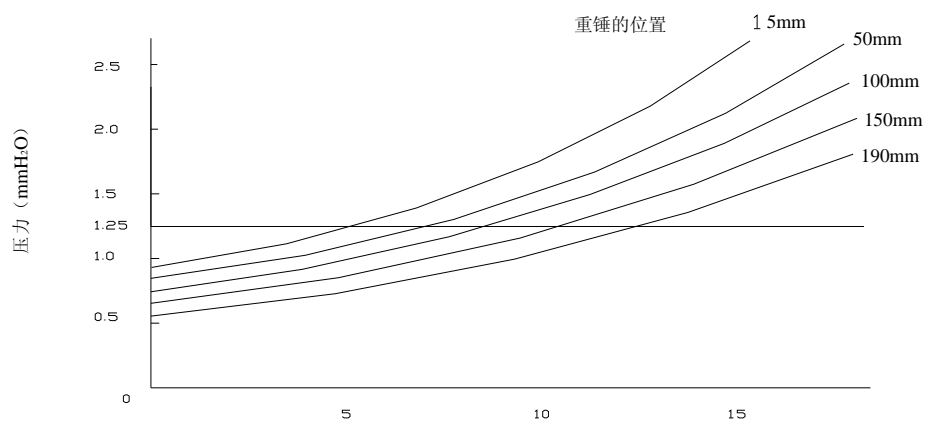


Fig.2 Characteristic curve of air volume and differential pressure

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