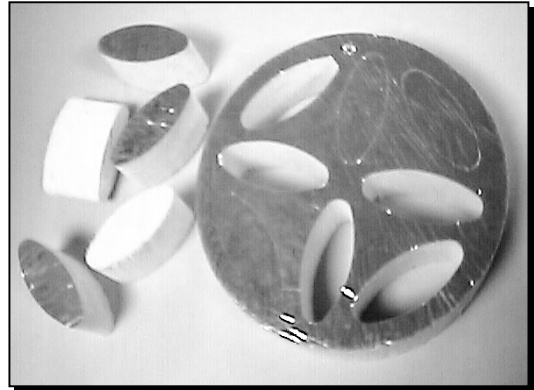


Introduction

MSR is a regulator device reducing noise in air channel of diffusers for supply and exhaust air.

MSR allows wide-scale regulating of air flow and pressure drop in diffusers, ensuring an especially low noise level.

**Applications**

MSR devices are used on both supply and exhaust ends of ventilation systems, to regulate air flow. MSR devices can be used with control valves, grilles or independently.

The MSR device is installed into the air channel, before the diffuser. On exhaust, the MSR can be installed immediately after the diffuser. On supply, the MSR device must be installed on a distance of 100 – 250 mm from the diffuser, this allows the turbulences to calm down after the MSR device, before the air flow reaches the diffuser.

The method for regulating air flow and pressure drop consists of changing the number of elliptical openings of the MSR device. To achieve better reduction in air channel noise and better pressure drop, two MSR devices can be installed one after another, with a distance of 50 – 100 mm between them.

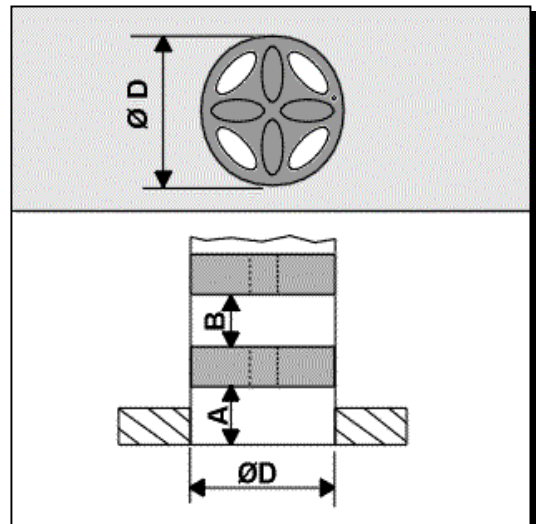
Design and measurements

An MSR device is made of heat resistant (600 °C) pressed foam rubber.

The device is installed into a ventilation channel. The regulating part has a thickness of 50 mm. Standard diameters are 100, 125, 160 and 200 mm.

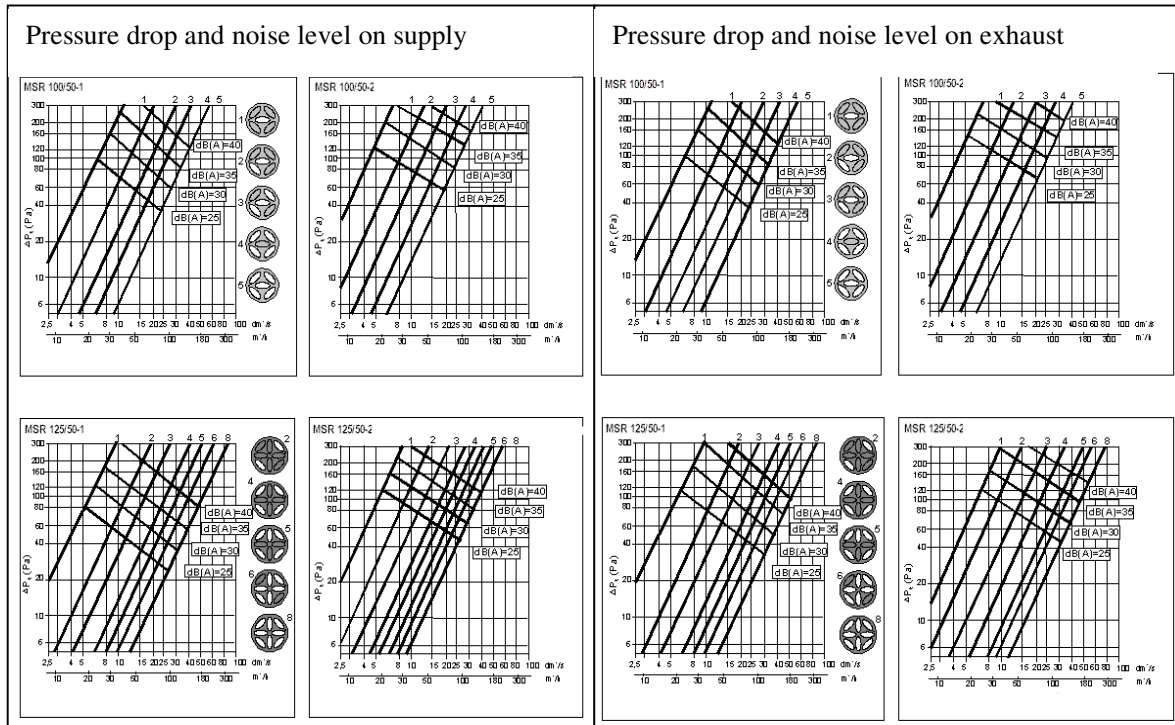
For MSR devices with a diameter of 100 or 125 mm, the size of the elliptical openings is 45 x 20 mm, for larger devices it is 70 x 30 mm.

$A_{\text{exhaust}} = 0 - 50 \text{ mm}$
 $A_{\text{supply}} = 50 - 350 \text{ mm}$
 $B_{\text{distance}} = 50 - 100 \text{ mm}$



Identification
MSR 160/50-2

(MSR – product name, 160 – diameter, 50 – thickness, 2 – number of parts)

Technical parameters
MSR 100 and MSR 125

MSR 160 and MSR 200
