

Technical Data Sheet



D7 Gear Volume Control damper

PRODUCT DETAILS

The outstanding feature of standard Spur Gear wheel volume control damper is the toothed wheels instead of the conventional linkage mechanism to operate the blades. The advantages of toothed wheel over the linkage mechanism is limited not only with the neat appearance it provides but also the more free area achieved by placing the gears outside the air stream

Extruded aerofoil type aluminium blades while allowing a laminar flow across the blade depth also prevent the air from producing turbulence. Thus pressure exerted by the air on duct walls due to turbulence is considerably reduced.



Construction features

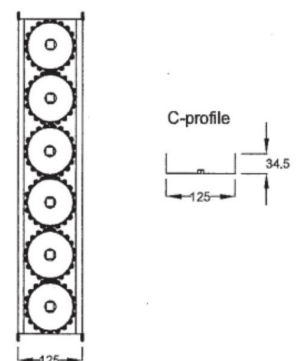
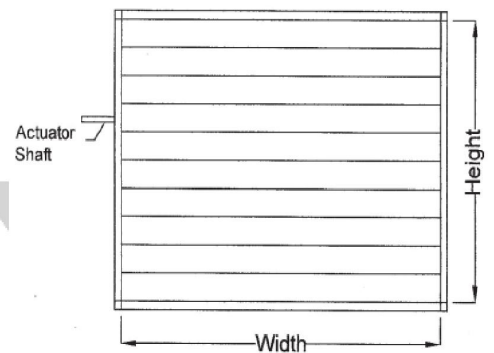
- Frames and blades of toothed volume control damper are extruded aluminium alloy and are mill finished.
- The frame and blade have a typical wall thickness of 1.5mm (16 gauge)
- Concealed gear train in high grade nylon construction.
- Suitable for manual and motorized operation.
- Siemens volume control damper actuator is used for motorized operation.

Geared Wheels:

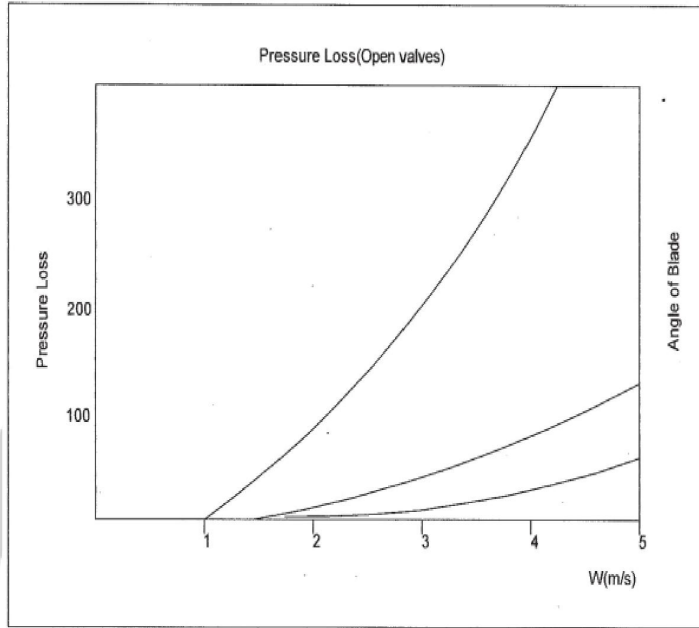
- For damper with a maximum height or width of 1000 mm toothed wheel on one side is adequate
- For damper size above 1000 mm in width and height toothed wheels shall be provided on both side of the damper.
- For single-sided Spur gear wheels place axle temporarily on the opposite side
- For temperatures above +50oC all axles are to be fastened using fastened bolts

Actuator:

- In order to aid the control of damper from a remote location an actuator is to be installed. A round to square plated steel with 13 mm Ø is used as actuator shaft.



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Pressure Loss wrt to Wind speed