

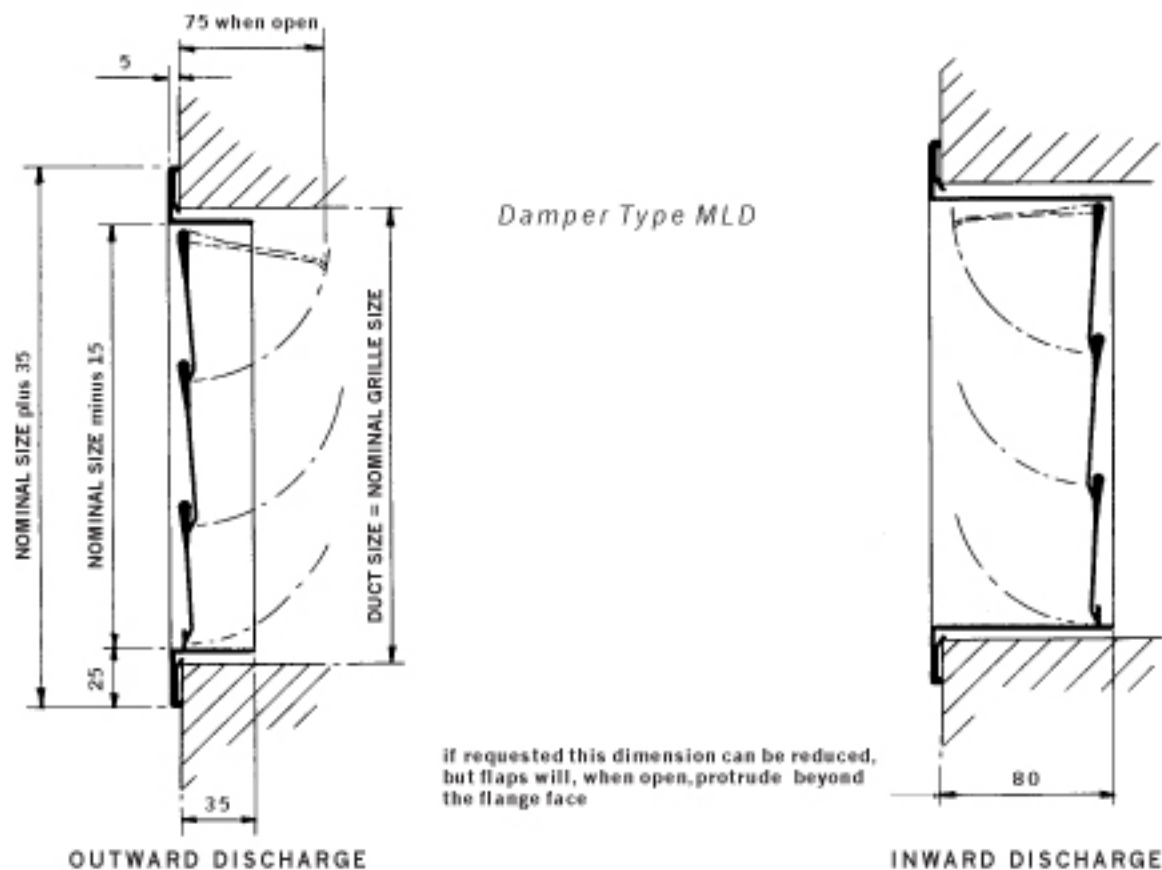


*air diffusion*  
**FNW**  
*Engineering Developments Ltd*

## **Pressure Flaps Type MLD**

**New Street Skelmanthorpe Huddersfield HD8 9BL Telephone 01484 861233 Fax 01484 864928**

All products are manufactured in the UK at the above address



TYPE MLD plastic faced Multi-Leaf pressure relief damper consists of a single set of horizontal light gauge plastic flaps mounted on stainless steel axles pivoting about their top edge which swing open under slight air pressure, the amount of opening being dependent upon the quantity of air being discharged in relation to the size of the damper.

The damper case being manufactured in zinc coated steel and polyester powder coated prior to assembly. A self coloured plastic extruded flange facing being fitted over the steel flange.

Produced in standard sizes of 50mm size increments from 150 x 150 up to and including 1000 x 1000 a 25mm wide mullion being provided to limit the span of the flaps to a maximum of 500 mm.

When specifying a damper size the length dimension must be stated first, i.e. Length x Height thereby ensuring the flaps will be horizontal when the damper is fitted. Dampers can be produced in any intermediate size of the 50mm increment on both length and height.

Colours Black or White.

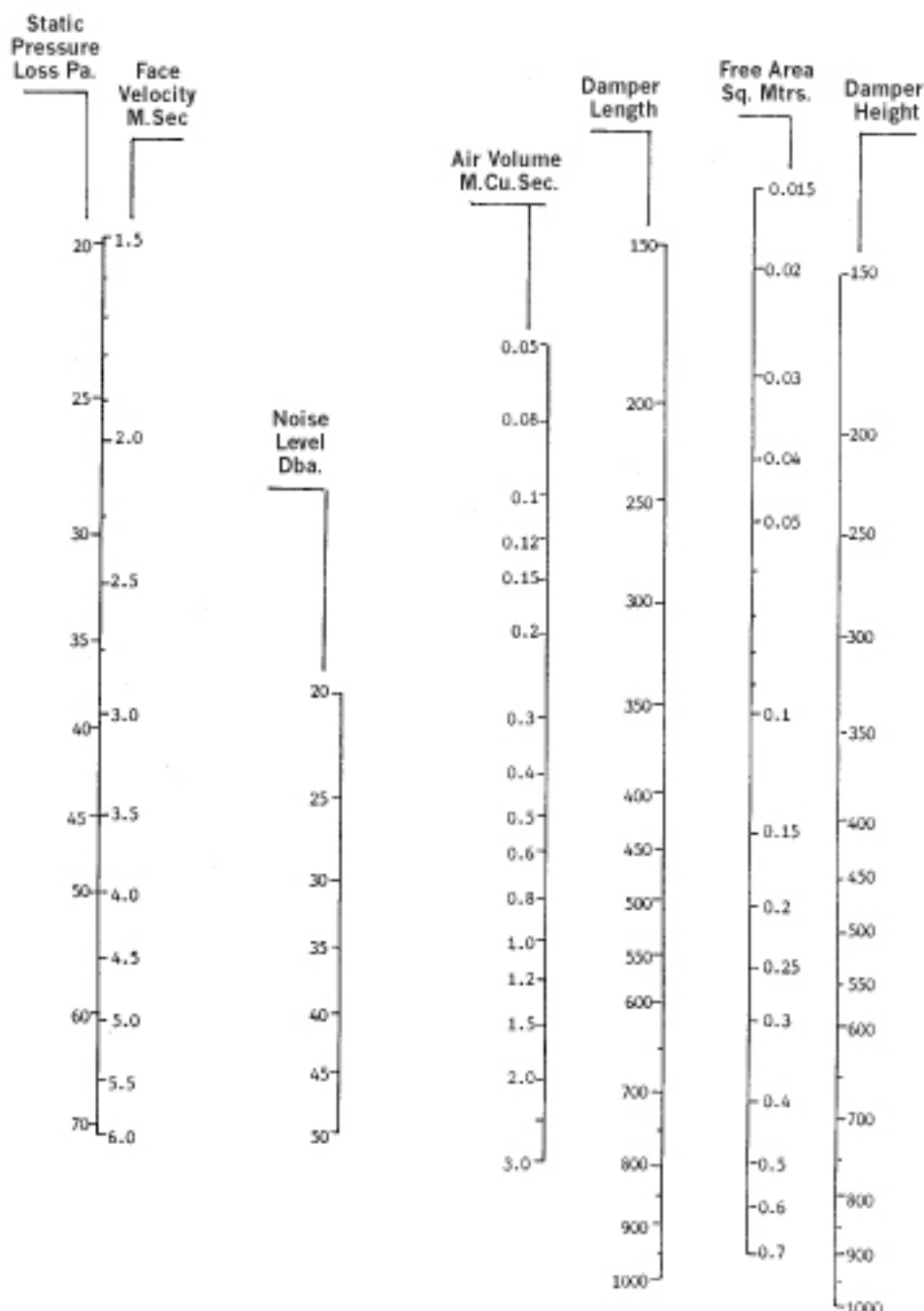
Dampers can be supplied without fixing flanges, the damper being mounted in a channel frame for pushing into and securing inside the duct or opening.

Dampers may be fitted in unit with any return air grille or louvre, the grille casing being extended to accommodate the pivoting flaps.

If dampers are to be fitted within an internal wall or partition, the spigot depth can be reduced and a matching rear loose flange can be provided for fitting to the rear of the opening. The minimum thickness that can be accommodated being 40mm (Although at this thickness the flaps, when open, would protrude beyond the flange face.)

When fitted to an external wall, a cowl or External Louvre should be fitted to nullify as much as possible, the effects of wind pressure.

## PERFORMANCE DATA



Assuming the Air Volume and Pressure Loss required are the know factors, from the above nomogram, place a rule intersecting these values, and the Free Area of the pressure damper to fulfill those conditions can be read off.

Pivoting the rule about the Free Area value, the damper length and height dimensions can also be read off.

Before assessing the free area required, due account should be taken of possible leakage through other openings in the room being considered ie. clearances around doors, hatchways or windows etc. When fitted to an external wall, a cowl or external louvre should be fitted to nullify, as much as possible the effects of wind pressure.