



PRD *Pressure Relief Damper*





Introduction

Prudent Aire Pressure Relief Damper are used to relieve built-up pressure in HVAC system to prevent damage to other components, or to allow pressure for the area to be regulated to control air movement or omitting the two closing and counter acting weights system, PRDS series utilizes singular adjustable closing weight to perform the pressure relieving function.

CONSTRUCTIONS & MATERIALS

- Parallel blade action
- Available in vertical and horizontal configuration
- Damper sectioning :
 - 100 < Length < 950 = 1 Section
 - 1000 < Length < 1950 = 2 Sections
 - Minimum size : 100 x 100 mm
 - Maximum size : 2350 x 1450 mm = 1 module

Frame Construction



Galvanized Steel

Blade Construction



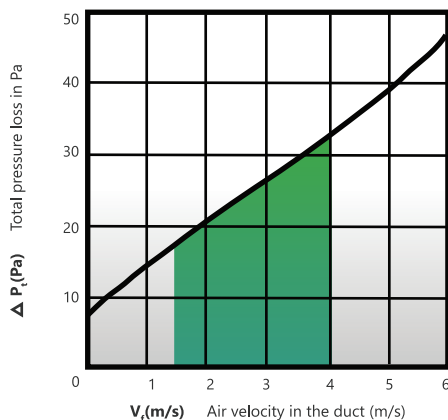
Aluminium
(For length < 600mm)



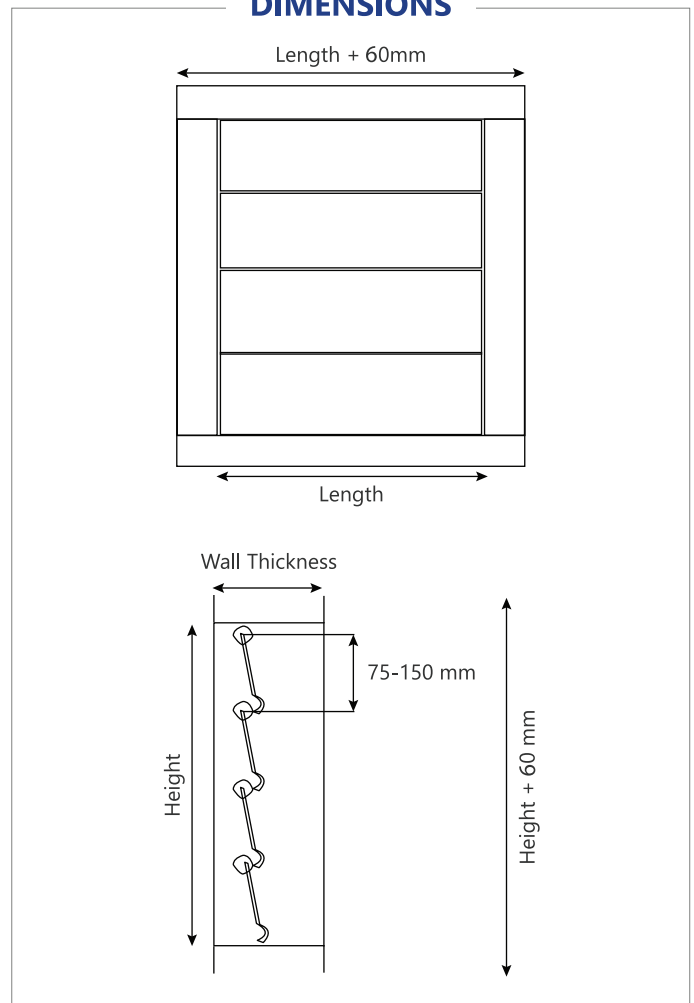
Galvanized Steel
(For length > 600mm)

PERFORMANCE STANDARD

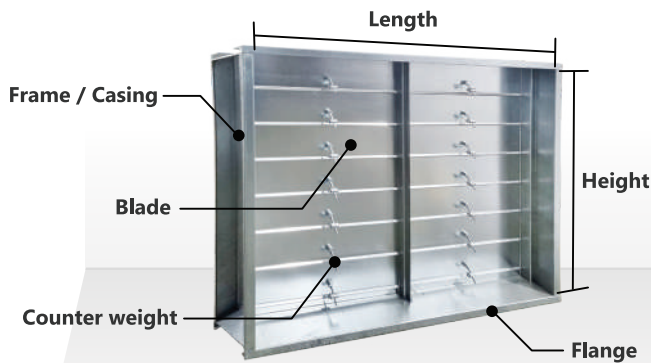
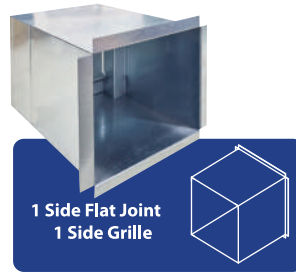
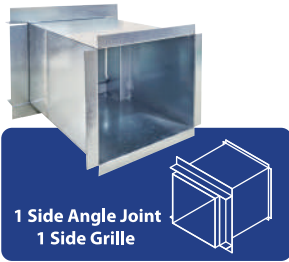
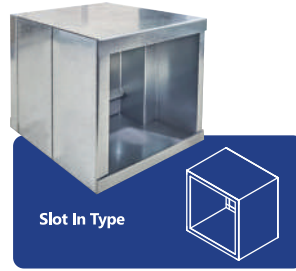
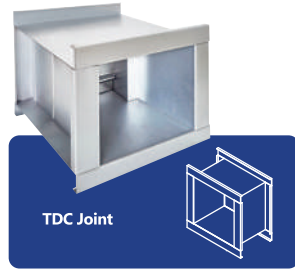
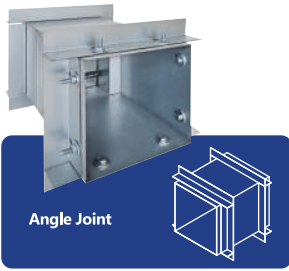
TOTAL PRESSURE DROP



DIMENSIONS



JOINING METHODS



Notice :

Damper size would be fabricate as exact neck size

PRD TECHNICAL SPECIFICATION

Casing Assembly

- 0.8mm - 1.0mm thick casing section. Casing section to be welded externally with welding beads to be ground flush. Multiple modular to be provided for damper larger than 2350mm length x 1450mm height. Standard wall thickness to be 150mm, unless otherwise stated.
- Standard joining method to be in TDC joint, unless otherwise stated.
- Material provided to be galvanized steel, unless otherwise stated.

Damper Blade Assembly

- 0.45mm single skin configuration. The individual blade to be in single V-grooves design. Blade operation to be of Parallel Blade configuration. 6mm galvanized steel full length shaft to be provided for each blade section.
- Adjustable counter weight to be installed at every single blade for on-site adjustment purpose.
- Material provided to be galvanized steel, unless otherwise stated.

Linkage Cover & Side Seals

- 1.0mm pre-formed angles to be welded to the damper casing assembly to provide both blade stop and sealing functions.
- Material provided to be galvanized steel, unless otherwise stated.

Finishing

- Damper assembly to be in natural finish of the material.



PRD | Pressure Relief Damper

Products Range

- Grilles 
- Diffusers 
- Dampers  ◀
- Fire & Smoke Protection 
- VAV 
- Others 
- Accessories 



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