

## PRD Pressure Relief Damper

### ■ Description

ASLI pressure relief dampers (PRD) are designed to maintain certain amount of pressure in a pressurized zone (staircase, operation theatre, etc). The amount of pressure maintained in the pressurized zone is adjustable by the counterweight on the PRD. Three different types of PRD (Type A, B, and C) are available for different pressure requirements.

### ■ Materials

- Frame: Galvanized steel, 1.0mm thickness.
- Blade: Aluminum steel, 0.5mm thickness.

### ■ Surface Finish

- Frame: Mill galvanized.
- Blade: Mill aluminum.

### ■ Blade Action

- Parallel blade.

### ■ Temperature Limits

- -40°C to +93°C

### ■ Connection Method

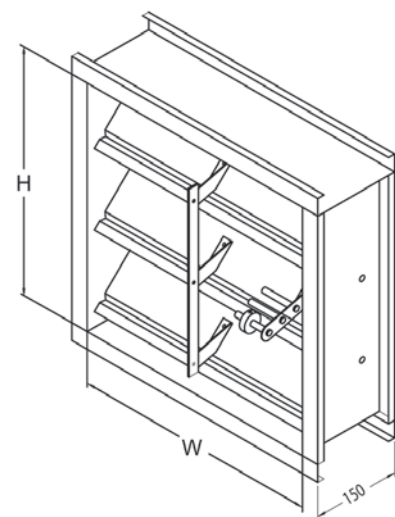
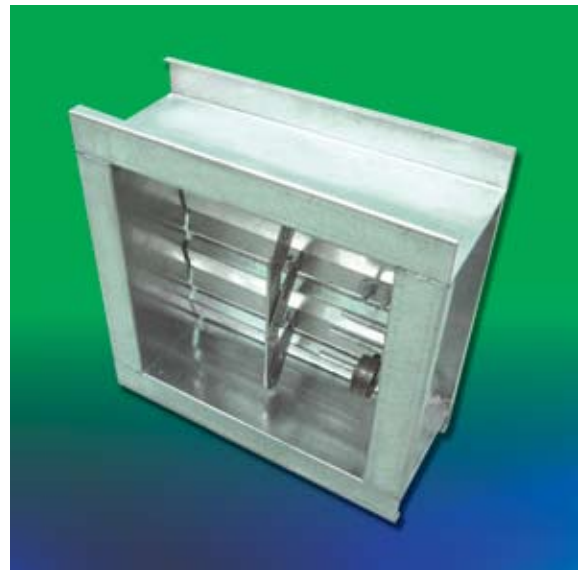
- Slip joint (S) or flange joint for TDC (T)

### ■ Counterweight

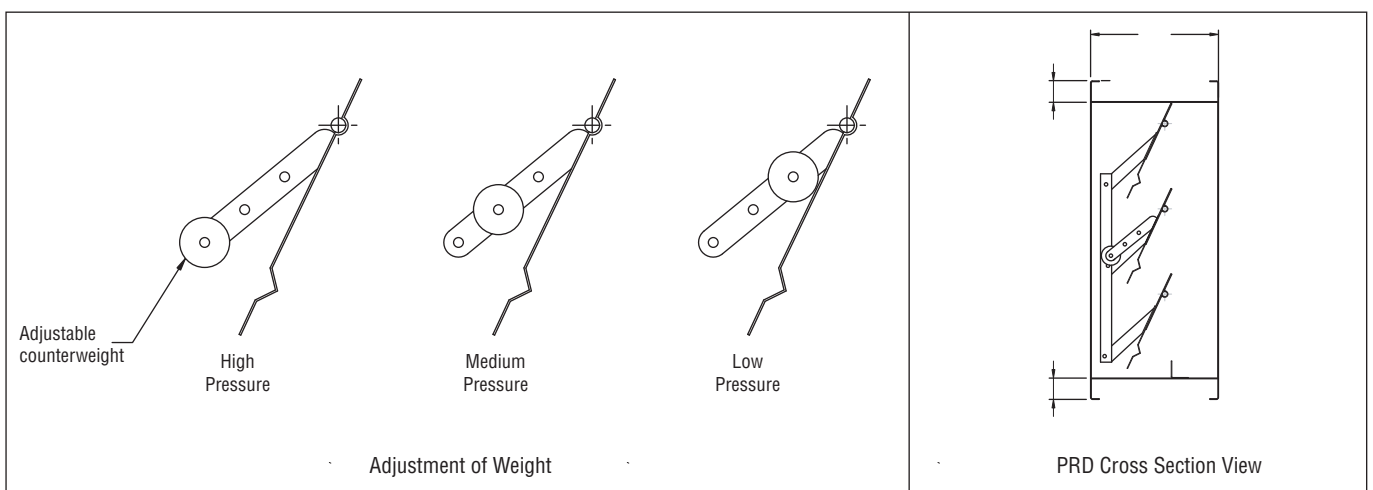
- Blade mounted with adjustable weight (low, medium, high pressure)

### ■ Standard Size (W X H X D)

- 300 X 300 X 150, 400 X 300 X 150, 400 X 400 X 150 (mm X mm X mm)



PRD Isometric View

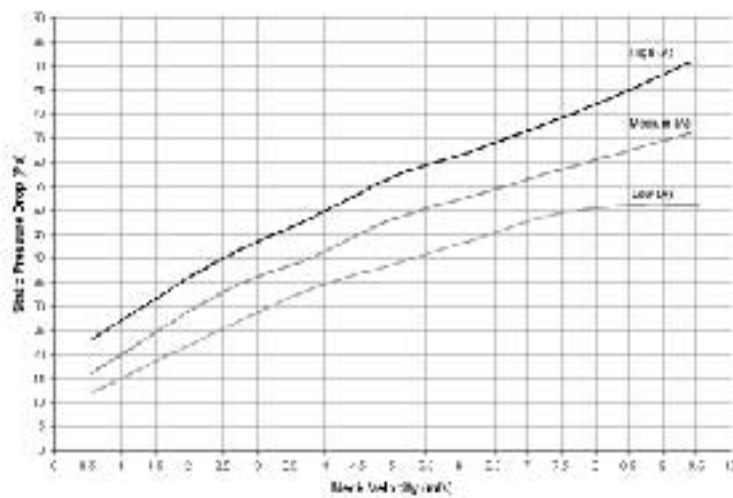


## PRD Pressure Relief Damper

### PRD Recommended Selection Guide

Neck Size (mm x mm)	Type	Pressure Range
300 x 300	A	15 Pa - 60 Pa
300 x 300	B	30 Pa - 90 Pa
400 x 300	A	25 Pa - 65 Pa
400 x 300	B	35 Pa - 90 Pa
400 x 400	B	18 Pa - 33 Pa
400 x 400	C	25 Pa - 60 Pa

### PRD Performance Data



TChart 1: Air flow performance of PRD (300mm X 300mm X 150mm) Type A.

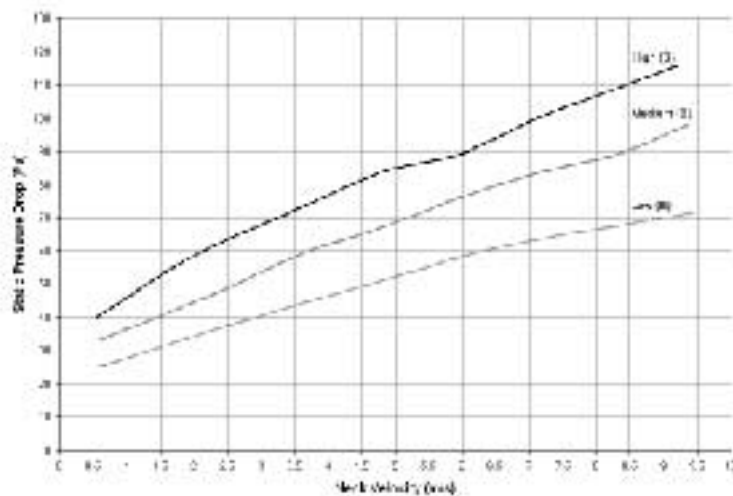


Chart 2: Air flow performance of PRD (300mm X 300mm X 150mm) Type B.

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### ■ PRD Performance Data

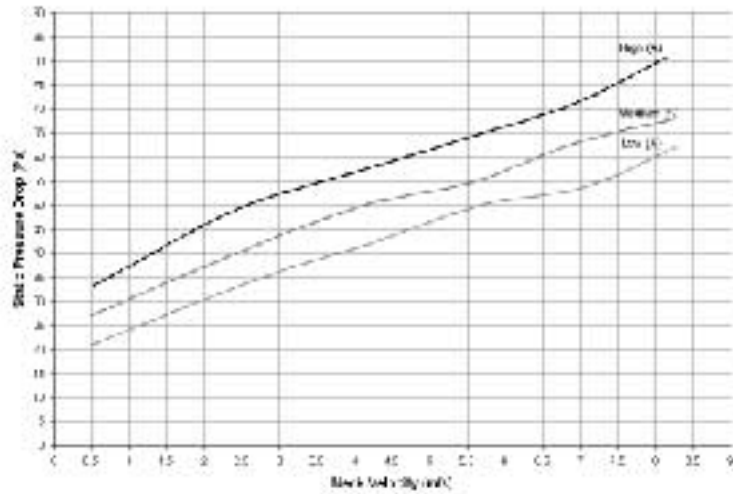


Chart 3: Air flow performance of PRD (400mm X 300mm X 150mm) Type A.

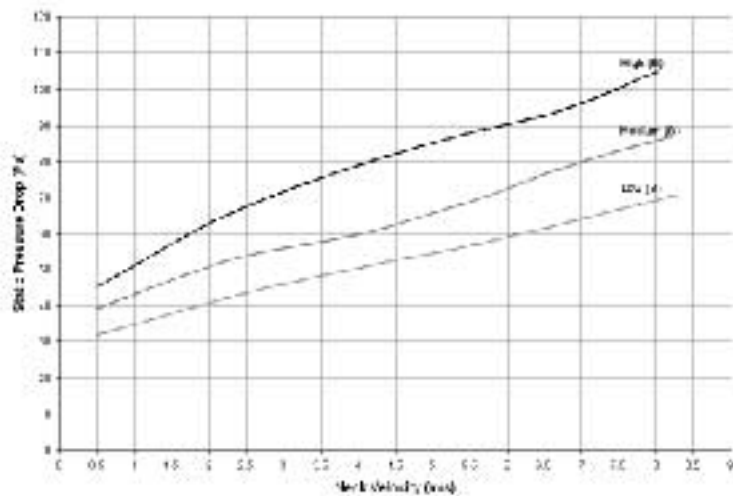


Chart 4: Air flow performance of PRD (400mm X 300mm X 150mm) Type B.

## PRD Pressure Relief Damper

### PRD Performance Data

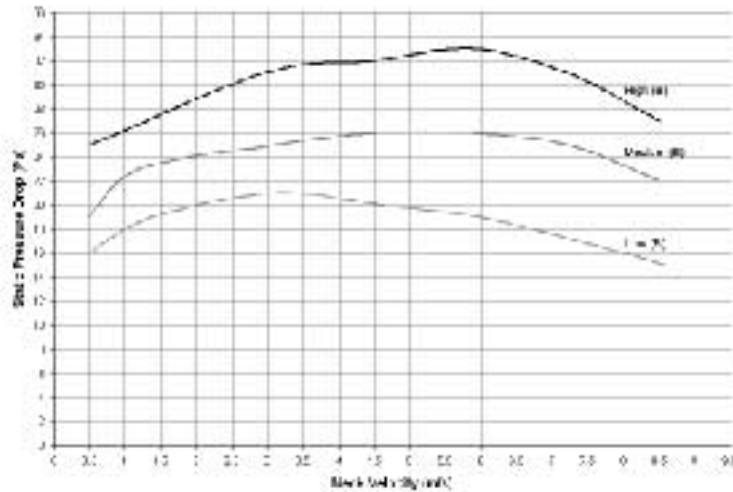


Chart 5: Air flow performance of PRD (400mm X 400mm X 150mm) Type B.

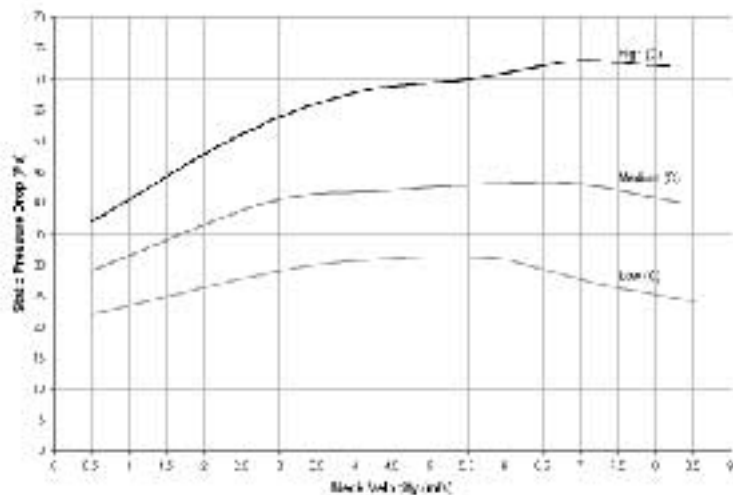


Chart 6: Air flow performance of PRD (400mm X 400mm X 150mm) Type C.

The above performance charts are tested with PRD ducted exhausting into an open area.

### PRD Order Code Unit:mm

Model	Neck Size (W X H X D)	Type	Connection Method (Left)	Connection Method (Right)
PRD	400mmX400mmX150	A,B,C	Slip Joint (S) Flange Joint for TDC (T)	Slip Joint (S) Flange Joint for TDC (T)

Example: PRD-400mmX400mmX150mm-A-TT