

Pressure Relief Damper

PRD Series

PRD 40 - 100



Description

Pressure Relief Dampers are used in intake and discharge openings in commercial and residential ventilation systems. When the ventilation system is on, the blades of the pressure relief damper are held in the open position by the airflow. If the system is switched off, the damper blades close automatically, thus preventing reverse airflow and giving protection against the ingress of untempered air, rain and birds into the ventilation system.

Construction Standard

FRAME:

Gauge 18 (1.2mm thick) formed galvanized steel sheet.

BLADES:

100mm maximum width, 1.5mm thick extruded aluminum profile. Sealing strip on blades in foam gasket.

LINKAGE:

Galvanized steel sheet 15mm x 20 Gauge.

BEARINGS:

Bearing section in brass, 12mm diameter.

SHAFTS:

Blade stub shafts in plastic, 6mm x 6mm square.

MINIMUM SIZE:

150mm X 100mm (6in X 4in).

MAXIMUM SIZE:

1000mm X 1000mm (W X H) as single section without mullion.

2000mm X 2000mm (W X H) as single section with horizontal and vertical mullions.

Consult SAFID for multiple section assembly details.



SAFID certifies that the Pressure Relief Damper shown herein is licensed to bear the AMCA Seal for Model PRD 40-100 & PRD 40A-100. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to Air Performance Ratings.

Test Information

Tested for air performance in accordance with ANSI / AMCA Standard 500-L-12 (Pressure Drop), Figure 5.4 and 5.5.

PRD 40 - 110

General construction as type PRD 40 - 100 damper but frame is from mill finish aluminum sheets.

PRD 40 - 120

General construction as type PRD 40 - 100 damper but with counter weight.

PRD 40 - 130

General construction as type PRD 40 - 100 damper but with frame built of stainless steel sheet type 304, 2B finish.

Catalog ID: PRD 40-100 & PRD 40A-100

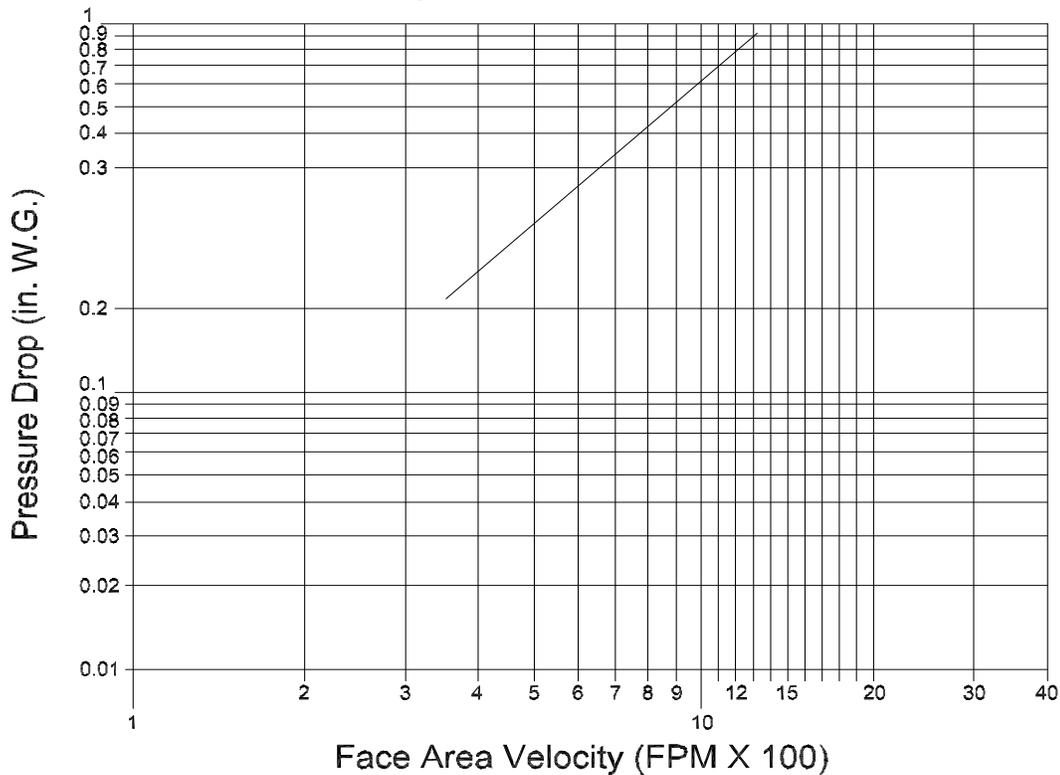
February 1, 2014

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Air Performance

Pressure Drop

Intake Airflow Direction
PRD 40 - 100



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Test Information
Tested for air performance in accordance with ANSI / AMCA Standard 500-L-12 (Pressure Drop), Figure 5.4.

Catalog ID: PRD 40-100 & PRD 40A-100

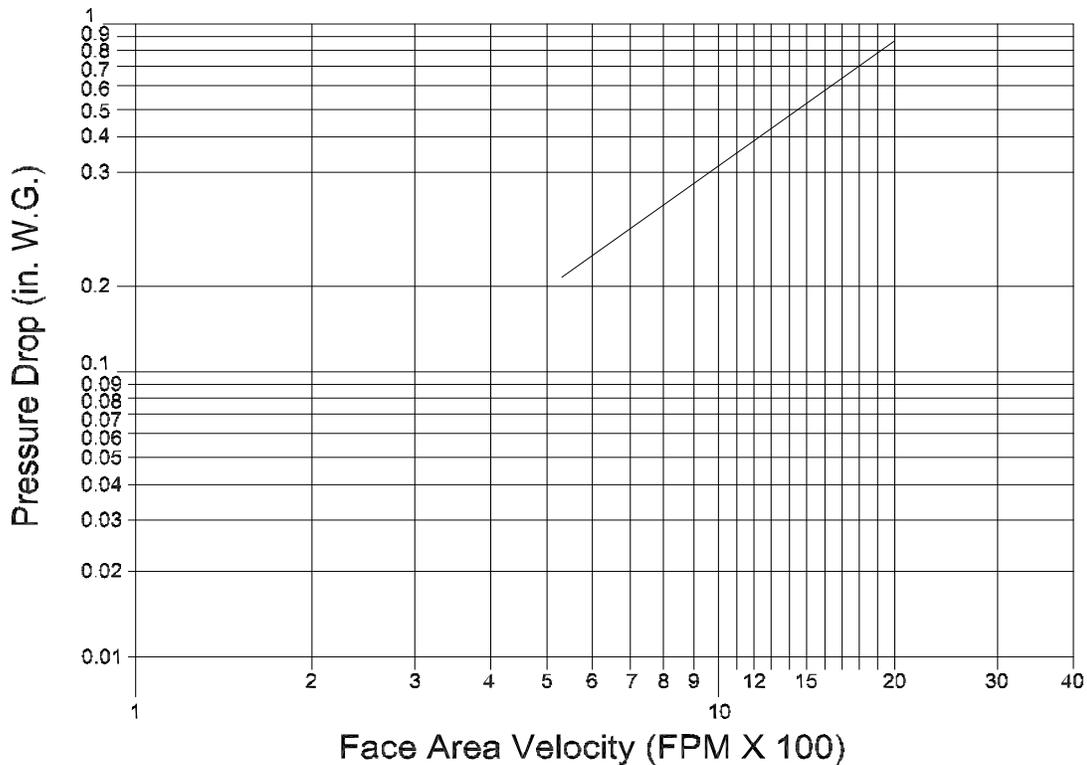
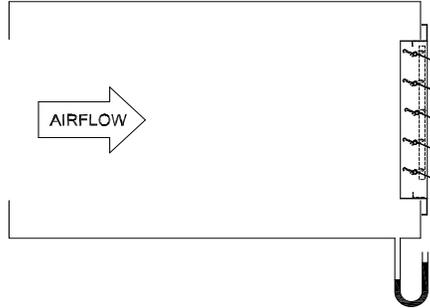
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Air Performance

Pressure Drop

Intake Airflow Direction
PRD 40A - 100



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Test Information

Tested for air performance in accordance with ANSI / AMCA Standard 500-L-12 (Pressure Drop), Figure 5.5.

Catalog ID: PRD 40-100 & PRD 40A-100

February 1, 2014

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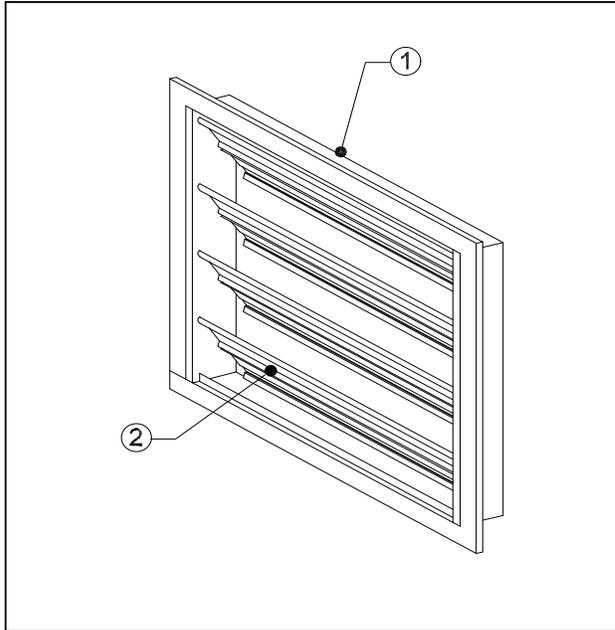
Pressure Relief Damper

PRD Series

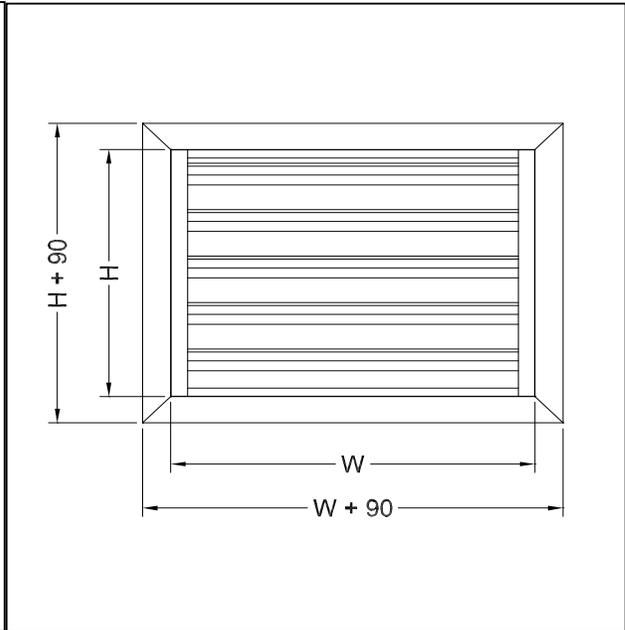
Construction - Dimension and details

1 - Casing	3 - Bearing Section	5 - Sealing Strip
2 - Blades	4 - Linkage (concealed in frame)	

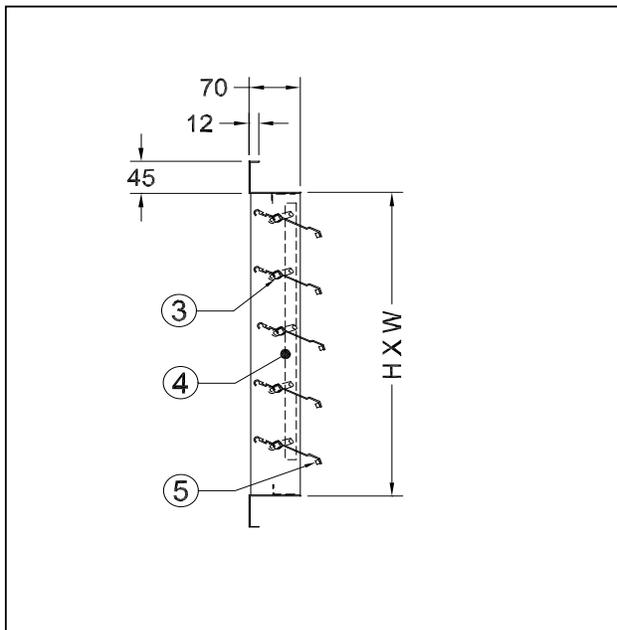
PRD 40



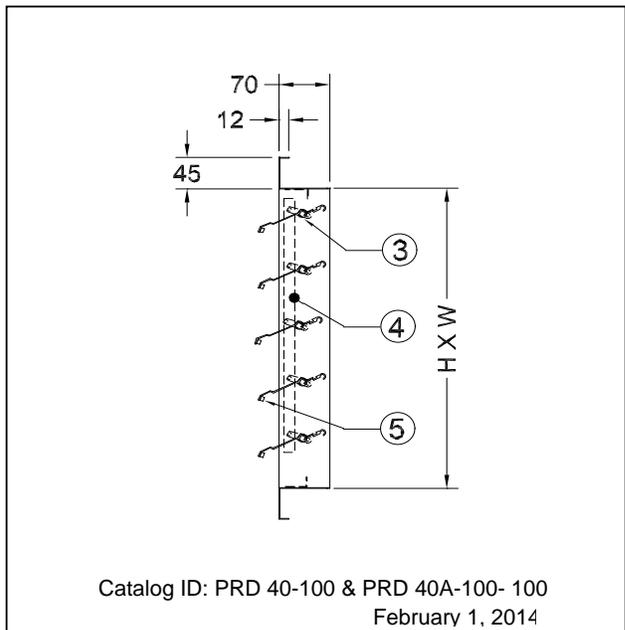
PRD 40 - 100...110...120...130



PRD 40 - 100...110...120...130



PRD 40A - 100...110...120...130

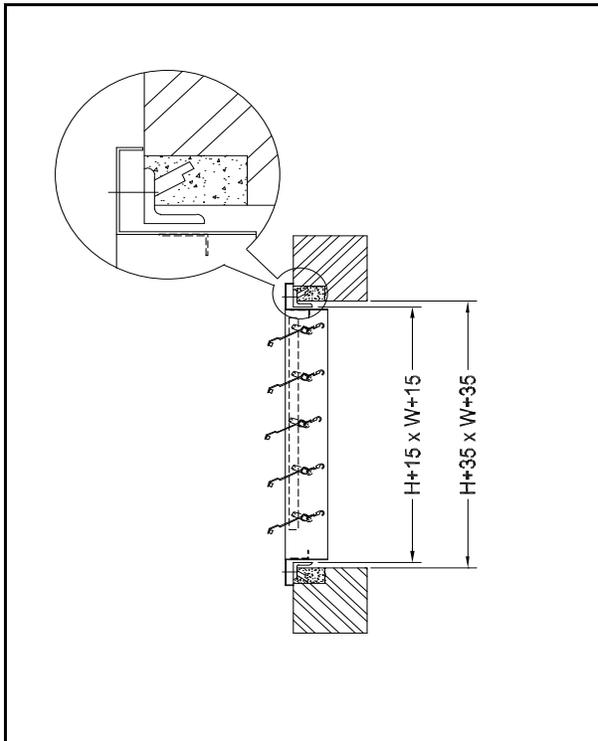


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Installation Details



Order Example

Product Type: PRD 40 - 100 - aaa x aaa

PRD 40 - 100 _____

PRD 40 - 110 _____

PRD 40 - 120 _____

PRD 40 - 130 _____

PRD 40A - 100 _____

PRD 40A - 110 _____

PRD 40A - 120 _____

PRD 40A - 130 _____

Sizes _____

STANDARD

Make: SAFID

Type : PRD 40 - 100 - 500 x 500

Type : PRD 40A - 100 - 500 x 500

Standard Sizes

W	H
100	100
100	200
150	300
200	400
250	500
300	600
350	700
400	800
450	900
500	1000
600	1200
700	1300
800	1400
900	1500
1000	1600
1200	1700

Specification Text

Pressure Relief Dampers are used for intake and discharge openings in ventilation systems to prevent reverse airflow and for protection against ingress of rain into ventilation systems. Basically the frame is built of galvanised steel (standard) or aluminum and extruded aluminum blades with blade seals opening and closing automatically.

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