

# Pressure Relief Flaps

Models D-PRF and G-PRF

## Features

- All aluminium construction
- Duct mounting pressure relief flap
- Wall mounting pressure relief flap



*action*air

Dampers Controls Fancoils

Ruskin Air Management Limited

[www.ruskinuk.co.uk](http://www.ruskinuk.co.uk)

## Introduction

A functional range of aluminium dampers available from Actionair, the Model D-PRF duct mounting pressure relief flap and the Model G-PRF wall mounting pressure relief flap.

The Model D-PRF incorporates a duct mounting flanged frame for either vertical or horizontal mounting and is suitable for low velocity, low pressure systems.

Model G-PRF is designed with a grille style flange for vertical mounting only and is suitable for low velocity, low pressure applications.

Each damper is constructed from aluminium extrusions and aluminium sections with nylon bushes and neoprene seals fitted to the pressure relief flaps. Maximum operating temperature 70 °C.

Both models of pressure relief flaps may have additional weights fitted to the blades whilst the Model D-PRF is also available with linked blades to provide a uniform operation.

## Model D-PRF

### Description

Model D-PRF is suitable for use in low pressure, low velocity applications and may be mounted vertically or horizontally. Blades are fitted with free running nylon bushes to operate at minimum pressure. Each blade is also fitted with neoprene edge seals, for uniform operation the blades can be linked, also adjustable blade weights can be added. A matching twin frame may also be provided to ensure the blades are not obstructed and open within the extended casing.

Minimum size is 150mm x 150mm and maximum single section is 2000mm x 2000mm. Note: a mullion is fitted for sizes over 1000mm. Multiple assemblies are available.

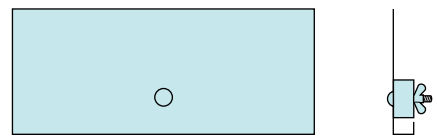
### Blade Arrangement

Mechanical stops prevent blades from fully opening to 90 degrees.

### Duct Mounting Pressure Relief Flap

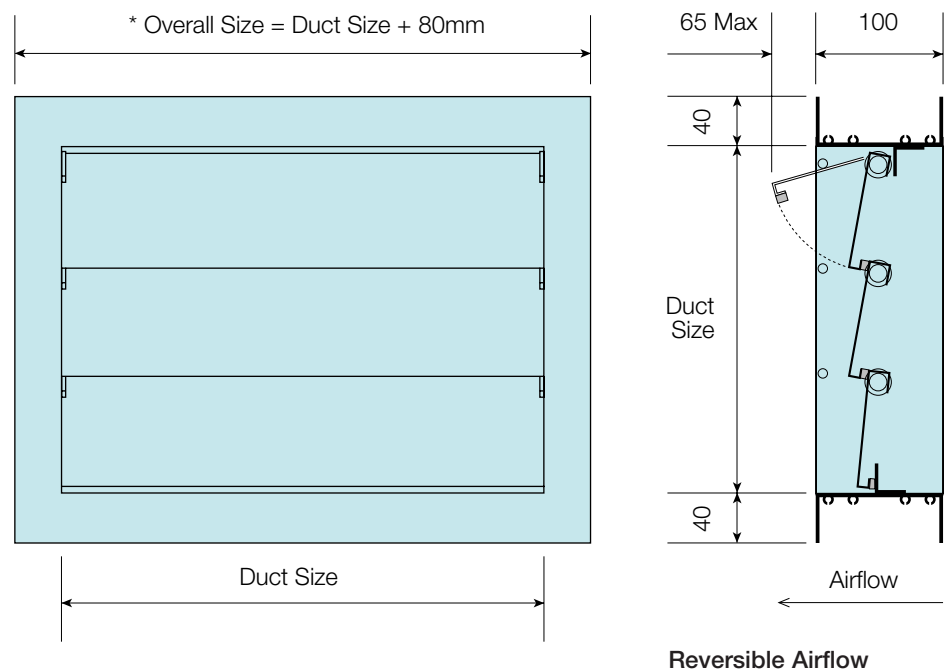


### Blade Arrangement



Optional Weights

### Dimensions and Airflow Direction



### Performance Guide

Duct Velocity m/s	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
Pressure (Pa)	7	12	17	21	24	28	32	37

# Model G-PRF

## Wall Mounting Pressure Relief Flap

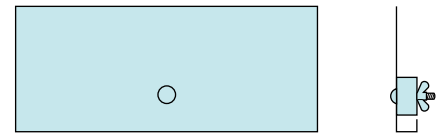
### Description

Model G-PRF is suitable for use in low pressure, low velocity applications although only for vertical mounting. Blades are fitted with free running nylon bushes to operate at minimum pressure. Each blade is also fitted with neoprene edge seals. A matching flange and adjustable blade weights are available on request.

Minimum size is 100mm x 100mm and maximum single section is 1800mm x 1200mm. Note: a mullion is fitted after 650mm and 1200mm in width.

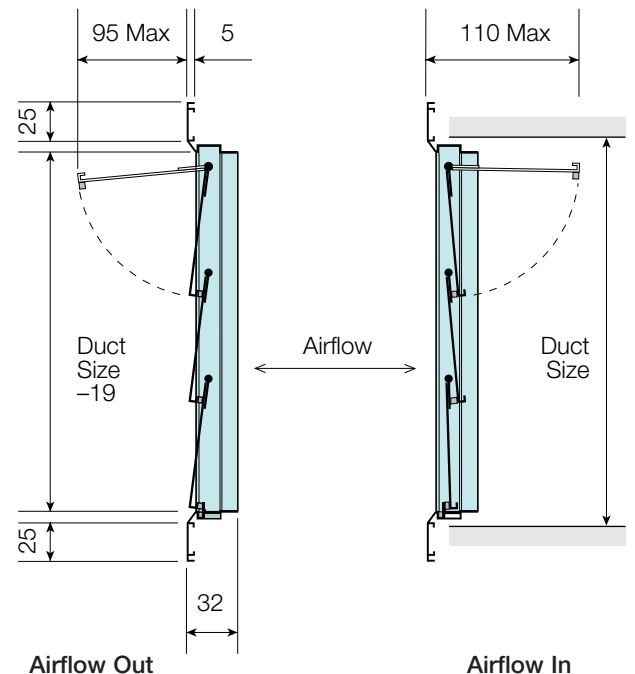
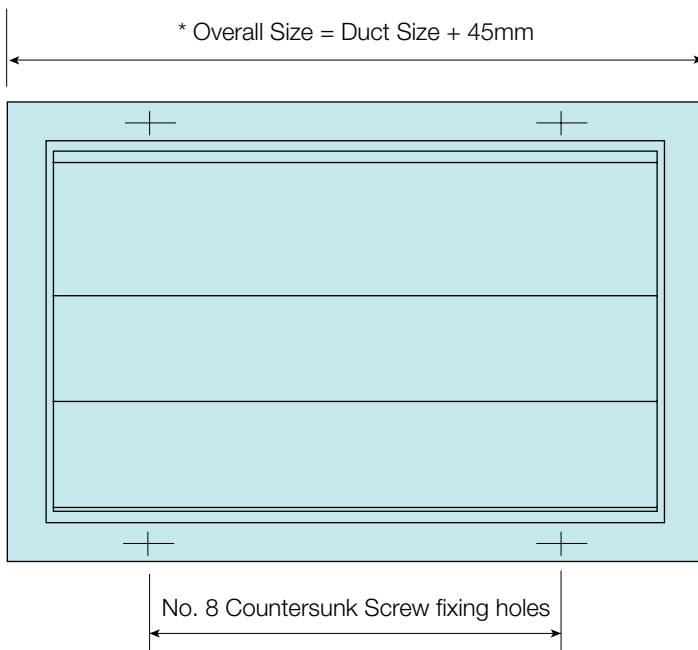


### Blade Arrangement



Optional Weights

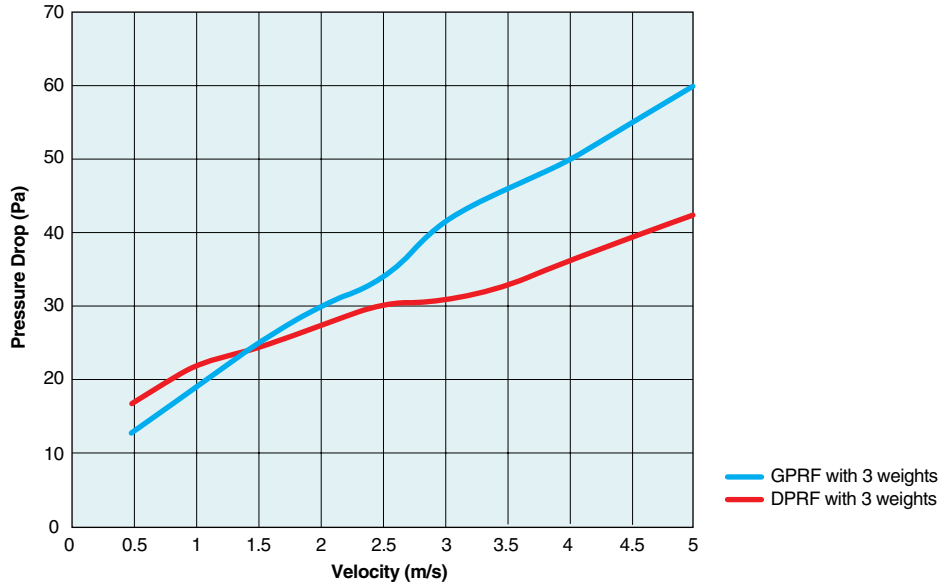
### Dimensions and Airflow Direction



### Performance Guide

Duct Velocity m/s	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
Pressure (Pa)	7	12	17	21	24	28	32	37

## Models D-PRF and G-PRF Pressure Relief Flaps Pressure Drop



## Ordering Procedure

Please Specify

### Model D-PRF Example

Flange Style	Model Type	Fixing	Operation	Finish	Control
F40	D-PRF	F0	O	O	O
F40 – 40mm Flanged Frame	D-PRF – Duct Air Pressure Relief Flap	F0 – No Fixing. Standard	O – Airflow OUT  TF – Extra Twin Frame (For Blade Fully Open Operation, within Casing) <small>Please state separately on order if required.</small>	O – Mill Finish Aluminium Blades and Frame	O – Standard (Plain Blades) W – Weighted Blades L – Linked Blades W/L – Weighted & Linked Blades

\*If overall dimensions are critical, these must be stated on order.

### Model G-PRF Example

Flange Style	Model Type	Fixing	Operation	Finish	Control
25C	G-PRF	F1	I	O	O
25C – 25mm Grille Flange (Standard Model G-PRF)	G-PRF – Grille Air Pressure Relief Flap	F1 – Countersunk Screw Holes in Flange. Standard	O – Airflow OUT  I – Airflow IN <b>Please specify airflow direction when ordering</b>	O – Mill Finish Aluminium Blades and Frame. Standard	O – Plain Blades. Standard W – Weighted Blades

\*If overall dimensions are critical, these must be stated on order.

For further application, technical and pricing information, please refer to Actionair Sales Office.

# Ruskin Air Management Limited

South Street, Whitstable, Kent CT5 3DU England.  
Tel: 01227 276100 Fax: 01227 264262  
Email: sales@actionair.co.uk Website: www.actionair.co.uk

**actionair**  
Dampers Controls Fancoils

Ruskin Air Management Limited is a ISO 9001 and 14001 registered company