

## Application

The BR-10 series is an eccentrically pivoted backdraft damper for low velocity systems. BR-10 series is a horizontally mounted damper and designed to allow vertical airflow up and prevent reverse airflow. On-blade counterweights are provided to fine tune start-to-open and full open blade operation. Ball bearings minimize friction.

### Recommended Applications

- Gravity hood intake and exhaust
- Stairwell pressurization
- Room pressurization
- Ductwork outlets

### Poor Applications

- Propeller fan outlets (high velocity)
- Centrifugal fan outlets (high velocity)
- Building pressurization (sensitive to wind)
- Pressure relief exceeding 0.3 in. wg (0.075 kPa)

## Ratings

### Back Pressure

2.0 in. wg (0.5 kPa)

### Start-to-Open Pressure

0.05 in. wg (.01 kPa)

### Velocity

2,000 fpm (10.2 m/s)

### Temperature

180°F (82°C)

## Construction

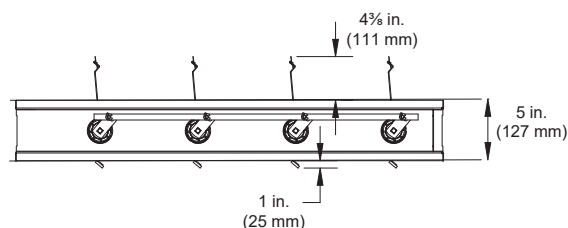
|                         | Standard                              | Optional         |
|-------------------------|---------------------------------------|------------------|
| <b>Frame Material</b>   | Galvanized Steel                      | 304SS, Aluminum  |
| <b>Frame Thickness</b>  | 16 ga. (1.5mm)                        | -                |
| <b>Frame Type</b>       | No Flange (BR-10)                     | -                |
|                         | Flange on Discharge (BR-11)           | -                |
|                         | Flange on Intake (BR-12)              | -                |
| <b>Blade Material</b>   | Aluminum                              | -                |
| <b>Blade Seal</b>       | TPE                                   | None             |
| <b>Blade Thickness</b>  | 0.063 in. (1.6mm)                     | -                |
| <b>Axle</b>             | Plated Steel                          | 316SS            |
| <b>Axle Bearings</b>    | Galvanized Ball                       | Acetal w/SS Ball |
| <b>Linkage Material</b> | Galvanized Steel                      | -                |
| <b>Jamb Seal</b>        | None                                  | EPDM             |
| <b>Counterbalance</b>   | Blade mounted with adjustable weights | -                |



\*W & H dimensions furnished approximately ¼ in. (6 mm) undersize.

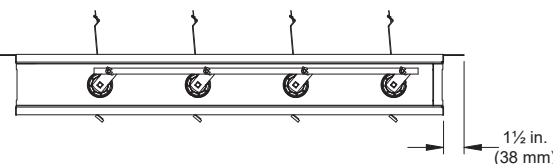
### BR-10

No Flange



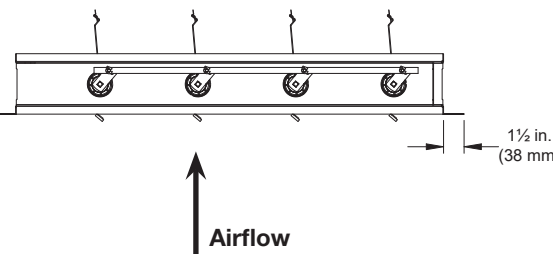
### BR-11

Flange on Discharge



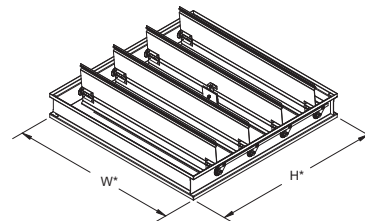
### BR-12

Flange on Intake



## Size Limitations

| W x H         | Minimum Size | Maximum Size   |                   |
|---------------|--------------|----------------|-------------------|
|               |              | Single Section | Multiple Sections |
| <b>Inches</b> | 8 x 6        | 48 x 74        | 96 x 148          |
| <b>mm</b>     | 203 x 152    | 1220 x 1880    | 2438 x 3759       |

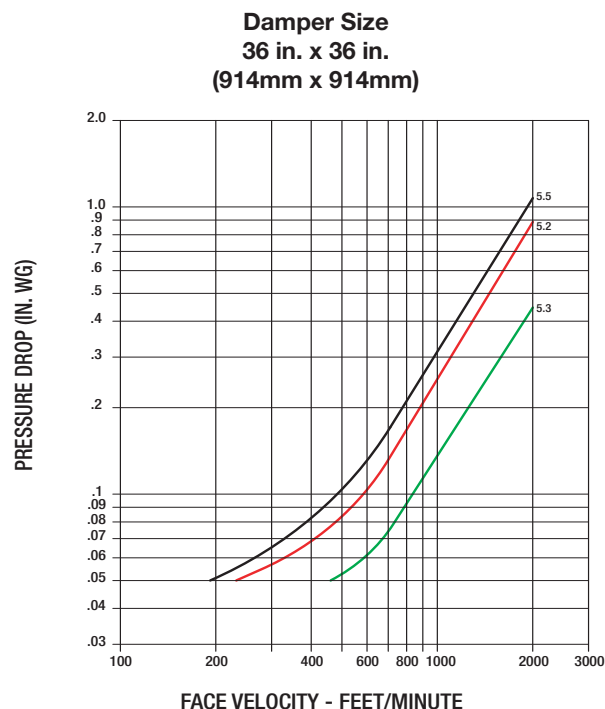
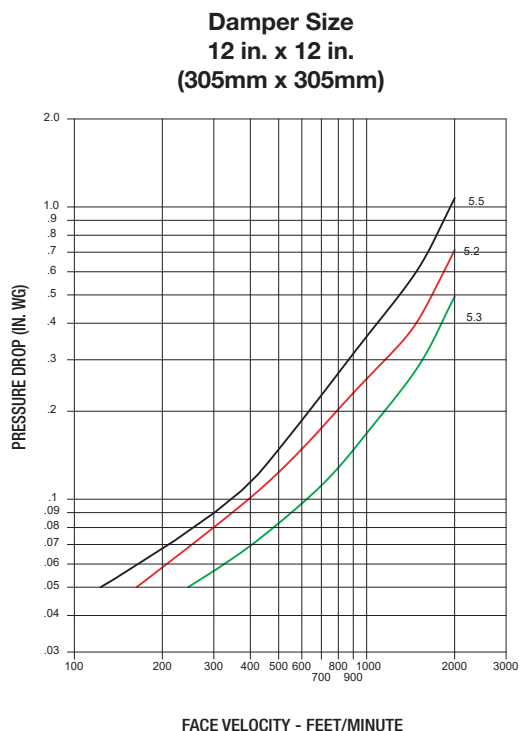


## Feature

- Selectable start open from .05 to .30 in. wg (0.012 kPa - 0.075 kPa).

Performance data results from testing a 12 in. x 12 in. and 36 in. x 36 in. (305mm x 305mm and 914mm x 914mm) in accordance with AMCA Standard 500-D using Figure 5.3 (fully ducted), 5.2 (ducted exhausting into an open area), and 5.5 (plenum mounted). All data has been corrected to represent standard air density at 0.075 lb/ft<sup>3</sup> (1.201 kg/m<sup>3</sup>).

Pressure drop data shown is based on minimum start open pressure. Higher start open pressure will result in different pressure drop.



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