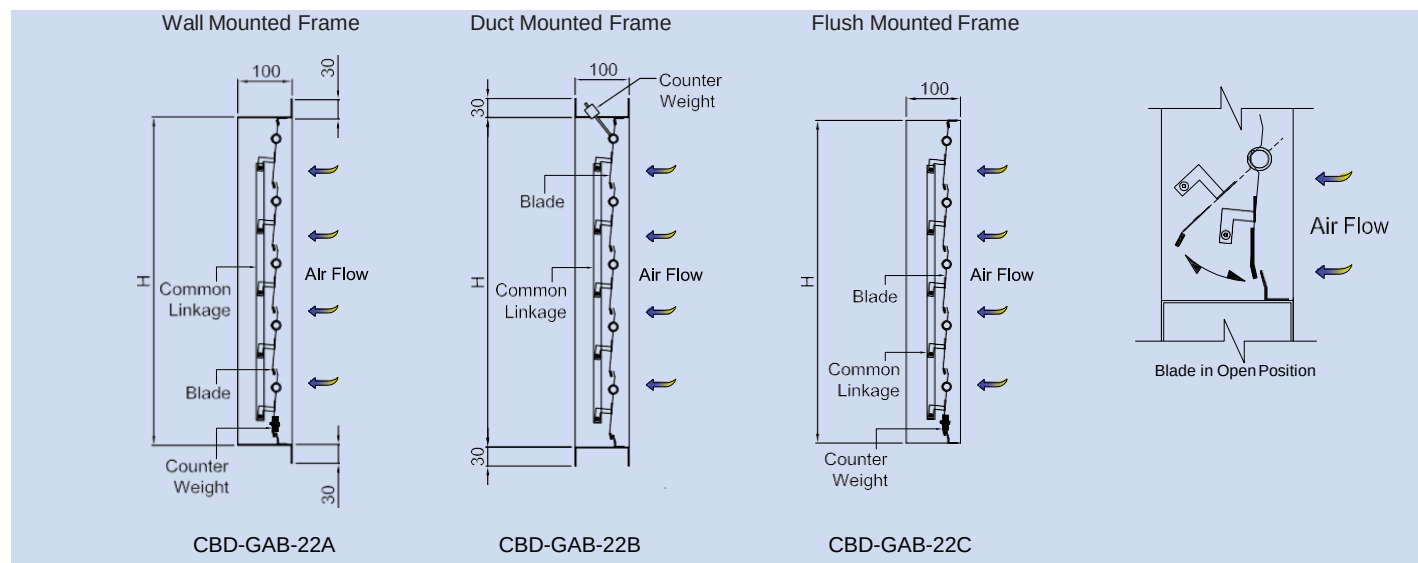


Counter Balancing Damper - CBD

B-20 Series

Model: CBD-GAB-21/22; Blade Width:1 – Up to 100 mm ; 2 – Up to 150 mm

Type : A - Wall Mounted; B - Duct Mounted; C - Flush Mounted



Standard Construction

Frame

0.9 mm (20 gauge) roll formed galvanized steel channel.

Blade

0.9 mm (20 gauge) roll formed aluminium.

Bushes

12 mm Ø Nylon.

Shaft

12 mm Ø Galvanized Steel.

Gasket

1.5 mm thick, 7 mm wide foam gasket.

Linkage

Common galvanized steel linkage.

Counter Weight

For easy adjustment and balancing in the field.

Finish

Galvanized Mill finish.

Mounting

Vertical.

Optional Fittings:

Limit Switches

Remote indication for damper open or close.

Brass Bushes

12 mm Ø bushes for heavy duty applications.

Transitions

Neck adaptor for round duct connections.

Finish

Available with Powder coating , please specify color.

Note :

Please contact **BETEC CAD.** for customized design & additional information.

B-20 Series Model Details

Model	Frame		Blade	
	Material	Thickness	Material	Thickness
CBD-GB-21/22 A/B/C	GI	0.9 mm	GI	0.9 mm
CBD-GAB-21/22 A/B/C	GI	0.9* mm	AL	0.9* mm
CBD-SB-21/22 A/B/C	SS	0.9 mm	SS	0.9 mm
CBD-AB-21/22 A/B/C	AL	0.9 mm	AL	0.9 mm

Alphabet indicates the type of installation

A - Wall Mounted.

B - Duct Mounted

C - Flush Mounted.

Optional Construction Details

Frame : Thickness up to 3 mm

Frame Depth : Up to 150 mm.

Blade : Thickness up to 1.5 mm

Frame and Blade Material : Stainless Steel (304/316L)

Any Combination of W x H									
CBD-GAB-21/22									
Width in Inchs	4"	8"	12"	16"	20"	24"	32"	36"	40"
Height in inches	4"	8"	12"	16"	20"	24"	32"	36"	40"

Note:

Maximum single module construction - 1 meter x 1 meter
Multiple module available with mullion.

Selected Products of the company have been Classified / Listed / Tested by various international testing authorities.



Engineering and Performance Data - PRD/CBD/BDD

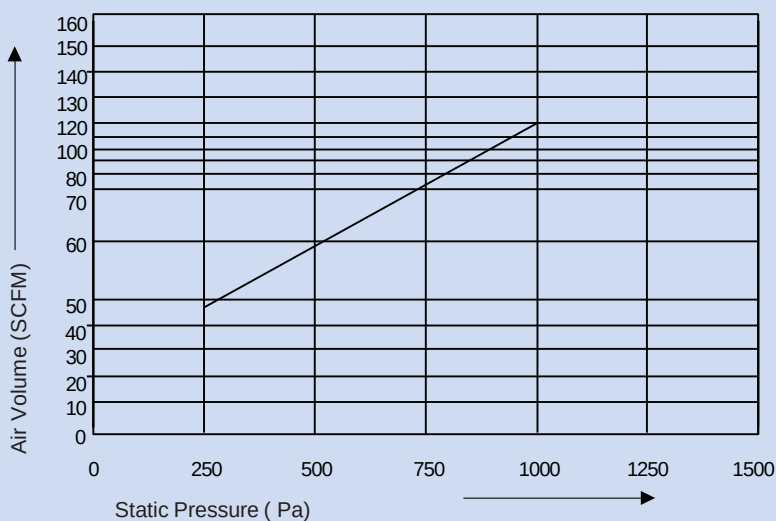
B-10/20/30 Series

Quick selection Table				
Frame		Blade		Start to Open Pressure in. w.g
Material	Thickness (mm)	Material	Thickness (mm)	
GI	0.9	AL	0.7	0.03
GI	0.9	GI	0.7	0.08
SS	0.9	SS	0.7	0.08
AL	0.9	AL	0.7	0.03
GI	0.9	AL	0.9	0.04
GI	0.9	GI	0.9	0.1
SS	0.9	SS	0.9	0.1
AL	0.9	AL	0.9	0.04

Note: Damper size may cause start-open pressure to vary from above mentioned values.
For specific start to open pressure and counter balance weight, please contact **BETEC CAD**.

Model: B-10 / 20 / 30 Series

System Static Pressure Vs. Air Leakage



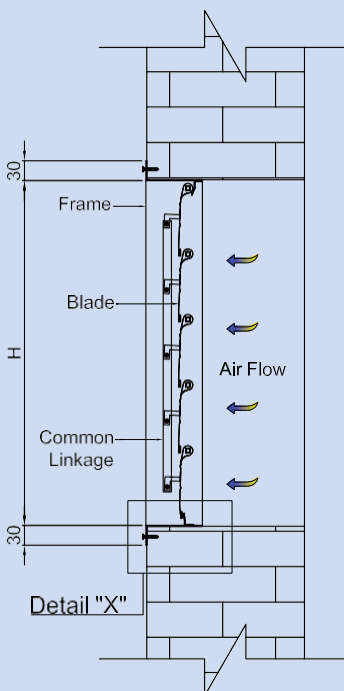
- Leakage data is based on pressure relief dampers blades in 100% closed position.
- Dampers Construction based on International standards for leakage DW 142 Class C.

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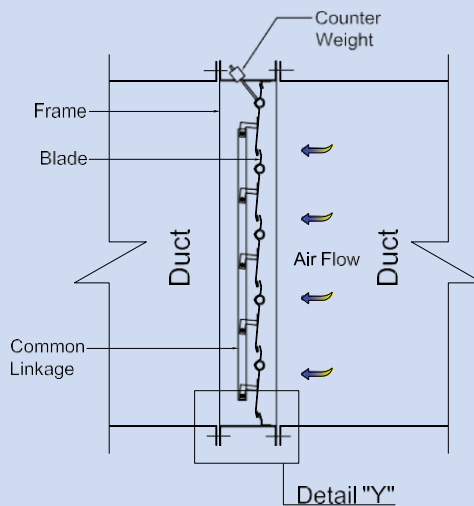


Pressure Relief Dampers

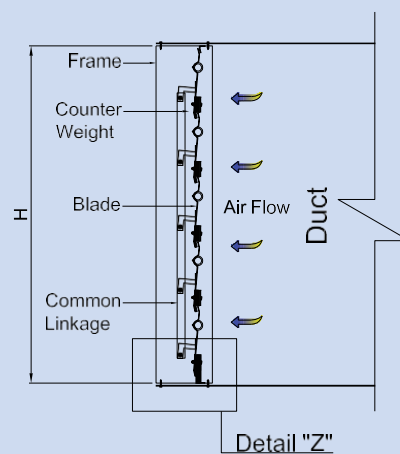
Installation Details



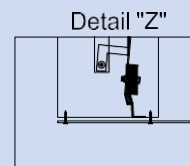
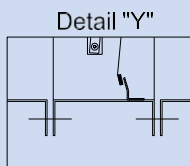
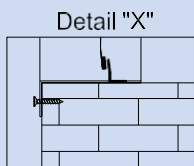
Wall Mounting Installation



Duct Mounting Installation



Flush Mounting Installation



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Ordering Data

PRD/ NRD - CBD - BDD							
Pressure Relief Damper							
↑	G	Galvanized Steel					
	S	Stainless Steel					
	A	Aluminium					
	↑	G	Galvanized Steel				
		A	Aluminium				
		S	Stainless Steel				
	↑	↑	B	BETEC CAD.			
			10	Pressure Relief Damper / Non Return Damper			
			20	Counter Balancing Damper			
			30	Backdraft Damper			
		↑	1	Up to 100 mm			
				Up to 150 mm			
			↑	A	Wall Mounted		
				B	Duct Mounted		
				C	Flush Mounted		
PRD / NRD / CBD / BDD	X	X	B	X	X	X	PRD-GB-11A
	Frame Material	Blade Material		Series	Blade Type	Blade Operation	

Note :

- For blade type, add Series to blade type.
For example: PRD-GB-(10+1=11) A => PRD-GB-11A.
- If frame and blade material is same, use single alphabet.
Example : PRD-GB-11A where G = Galvanized frame and blade.
PRD-GAB-11A where G = Galvanized frame.
A = Aluminium blade.

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