



• **FRP BUTTERFLY DAMPERS**

Corrosion resistant FRP dampers are a perfect addition to your new or existing duct system. They provide excellent performance and long service life. The FRP composite eliminates normal maintenance and provides worry free operation.

As a leading manufacturer and fabricator of fiberglass reinforced plastic products for over 20 years, we have designed our butterfly damper specifically for use in most corrosive environments. These include wastewater treatment plants, pharmaceutical facilities, pulp & paper mills and chemical plants.

FRP construction provides excellent corrosion resistance in most industrial and commercial environments. Standard construction utilizes a fire retardant vinyl ester resin and a 50 mil internal corrosion barrier. Laminate construction can be custom tailored to suit your specific application.

Call the factory for pricing and availability.

• **Features include**

- Excellent corrosion resistance.
- Economical, initial cost is typically lower than comparable stainless steel models, yet provides superior performance and service life.
- Strong and lightweight
- Electrically non-conductive
- Thermally non-conductive
- Easy installation. Standard damper is provided with flanged ends per ASTM D-3982 & NBS PS 15-69, Table 2. Other flange drilling types can be provided.

An economical option is to fabricate our damper directly into duct spools. This option is available for projects only. Eliminating two pair of flanges significantly lowers cost.

CALL THE FACTORY FOR PRICING, OPTIONS, AND AVAILABILITY.



• **Available Styles**

◦ **Model Designation - BD**

This model is intended to provide an economical answer to your air volume needs. It is designed without stops or seals, for volume balancing only.

◦ **Model Designation - CD**

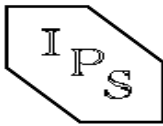
This model is intended to control air flow through branch & trunk lines. It is provided with positive blade stops and minimum blade to shell clearances. Design and construction minimizes leakage.

◦ **Model Designation - ACD**

This model is intended to control air flow when a positive seal & minimum leakage is required. It is well suited for use at fans, by-pass circuits and other equipment uses. It is provided with positive blade stops and a elastomeric blade seal and shaft seal. This model is certified for low leakage service.

• **Available Operators**

- Standard - Hand lever quadrant, custom fabricated using fiberglass channel & rods.
- Optional - Worm gear operator by *Dynatorque*, factory installed and tested. The exterior finish is painted to match the duct. Aluminum handwheels or chainwheels will be sized and provided as required. Several electric actuators are available.
Call the factory for information.



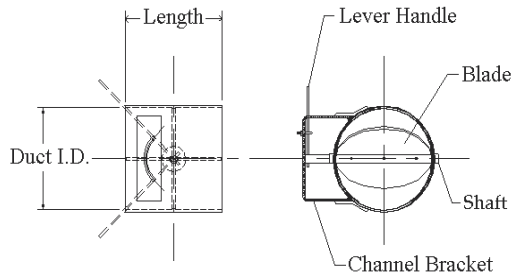
• **CONSTRUCTION**

Shell, blade and flange shall be contact molded per ASTM D-3982 and NBS PS 15-69.
 Liner laminate shall be "C" glass veil followed by one ply of chop strand mat. Structural laminate shall be alternating layers of chop strand mat.
 Resin system shall be a premium grade fire retardant vinyl ester with 3% antimony pentoxide.
 Exterior surface shall be resin rich, smooth and free of exposed glass fibers or sharp projections.
 Outer surface shall be coated with a premium grade pigmented urethane coating for increased ultra violet protection and weather ability.

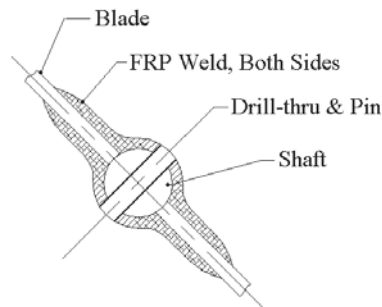
One piece shaft shall be a premium grade pultruded fiberglass solid round rod.

Shaft bearing shall be a matched fiberglass sleeve encapsulated in fiberglass.

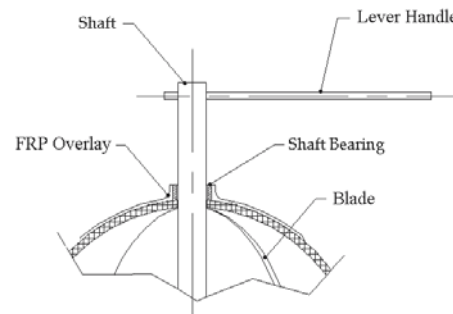
Available Sizes					
Dia.	Shell Thk.	Fig. Thk.	Blade Thk.	Axle Dia.	Length
6	0.125"	0.250"	0.250"	1.00"	6"
8	0.125"	0.250"	0.250"	1.00"	8"
10	0.125"	0.375"	0.250"	1.00"	10"
12	0.125"	0.375"	0.250"	1.00"	12"
14	0.125"	0.375"	0.250"	1.00"	12"
16	0.125"	0.500"	0.250"	1.00"	12"
18	0.125"	0.500"	0.250"	1.00"	12"
20	0.125"	0.500"	0.250"	1.00"	12"
24	0.188"	0.500"	0.375"	1.50"	12"
30	0.188"	0.500"	0.375"	1.50"	12"
36	0.188"	0.500"	0.375"	1.50"	12"
42	0.250"	0.625"	0.500"	2.00"	14"
48	0.250"	0.625"	0.500"	2.00"	14"
54	0.250"	0.625"	0.500"	2.00"	14"
60	0.250"	0.625"	0.500"	2.00"	14"
72	0.250"	0.625"	0.500"	2.00"	14"



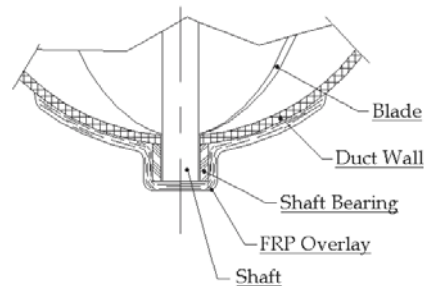
FRP Butterfly Damper



Cross-section of shaft & blade



Open Bearing Detail



Closed Bearing Detail

• **STANDARD SIZES**

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