

FRP Damper Butterfly Valves



CHEMLINE
Plastics Limited

Your Pipeline To Quality

Fiberglass Reinforced Plastic (FRP) Engineered Dampers

SERIES: DBF

SIZES: 12" – 96"

Less than 1% Leakage

Abrasion Resistant

All FRP

Features

Light Weight

- A 72" Damper Butterfly Valve weighs 950 lbs.

Custom Designed

- Engineered for specific service conditions

High Strength

- Made of high elongation vinyl ester resin for high resistance to impact and thermal shock. Heavy duty design for higher pressure drops.

Abrasion Resistant

- Valves can be designed to provide high abrasion resistance outperforming all other materials of construction

Low Leakage

- Gas leakage of less than 1% can be provided with a temperature range from -40°C to 80°C

Low Stem Torque

- Teflon® bearings on both ends of shaft assure low torque and maintenance-free operation

Fire Retardant

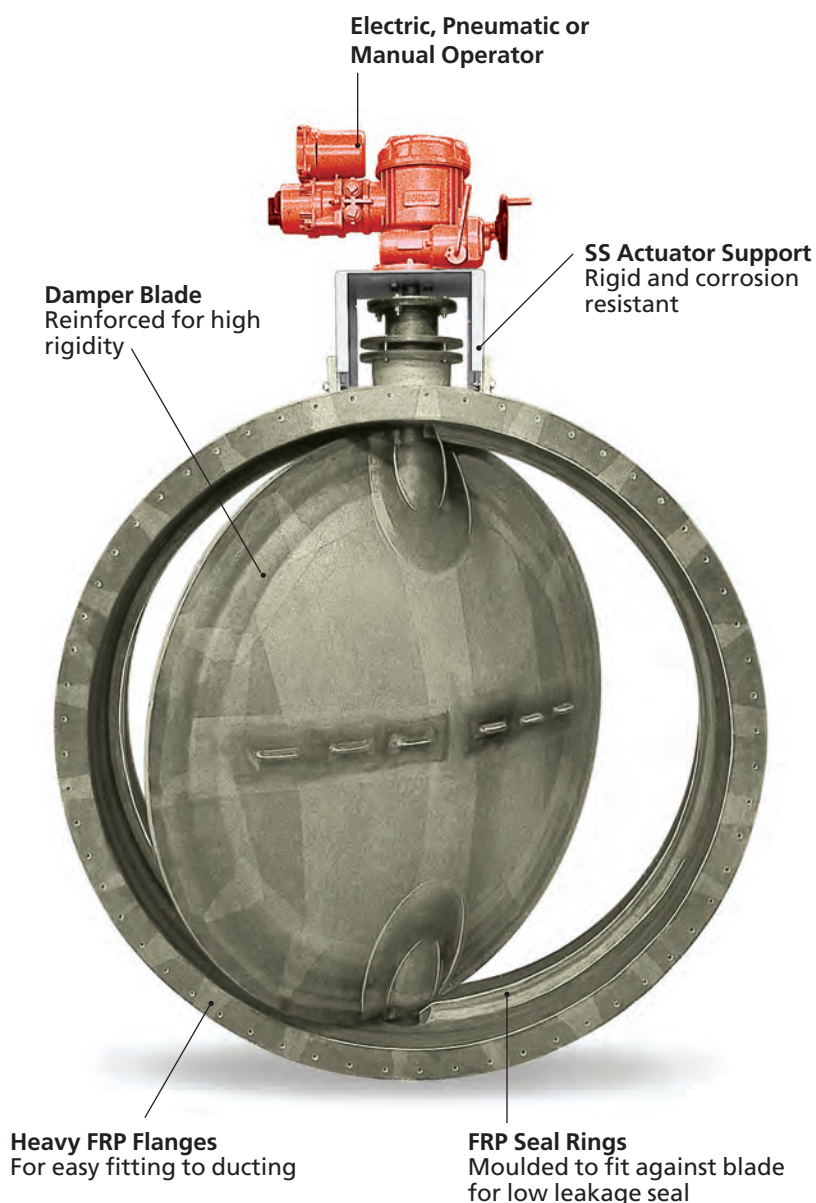
- Special Fire Retardant Resin is incorporated in all models

Gear, Electric or Pneumatic Actuated

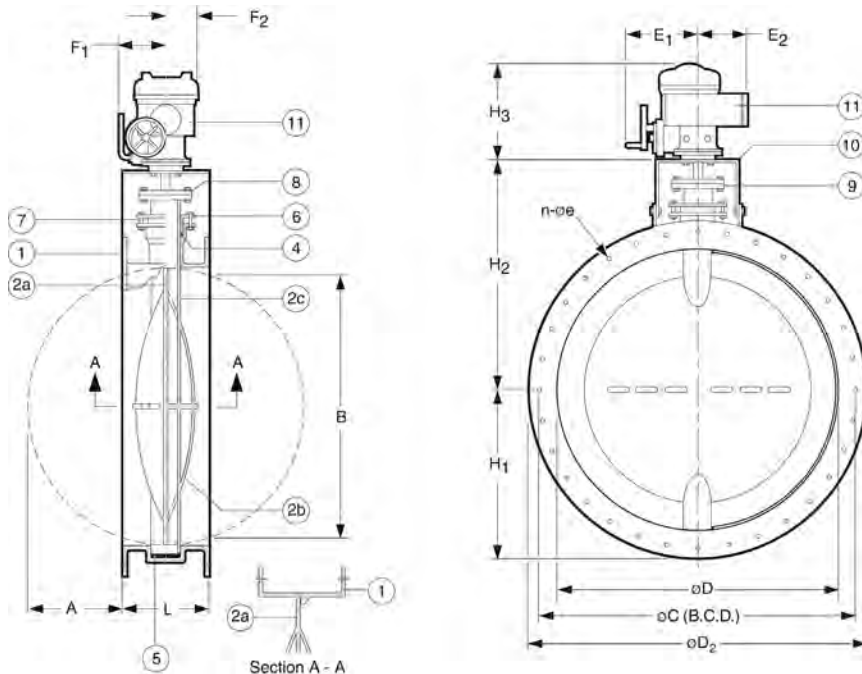
- Heavy duty manual gear operator or electric actuators are available

Positive Seal Models Available

- Consult Chemline with application details



DBF FRP Damper Butterfly Valves



PARTS

No.	Part	Pcs.	Materials
1	Body	1	FRP ¹
2a	Blade	1	FRP ¹
2b	Stiffener	1	FRP ¹
2c	Shaft	1	FRP ¹
4	Shaft Packing	1	PTFE Rope
5	Lower Shaft Bearing	1	PTFE
6	Gland	1	FRP ¹
7	Gland Nuts, Bolts & Washers	4 sets	304 SS
8	Shaft Top Plate	1	304 SS
9	Shaft Plate Nuts, Bolts & Washers	4 sets	FRP ¹ 304 SS
10	Operator Mount	1	304 SS
11	Operator	1	Electric, pneumatic or manual Gear

¹FRP=Fiberglass Reinforced Plastic

DIMENSIONS INCHES

Size	L	A	B	ØD	ØC	n	e	ØD ₂	E	F	H ₁	H ₂	H ₃
24"	12	5.75	20.2	23.5	27	20	0.44	28.4	CF	CF	14.2	23.3	CF
30"	12	8.75	26.9	29.5	33	28	0.44	34.4	CF	CF	17.2	26.3	CF
36"	15	11.75	33.4	35.5	39	32	0.44	40.4	CF	CF	20.2	29.3	CF
42"	15	14.75	39.7	41.5	45	36	0.44	46.4	CF	CF	23.2	32.3	CF
48"	15	17.75	46.0	47.5	52	44	0.44	54.4	CF	CF	27.2	35.3	CF
54"	18	20.75	52.1	53.5	58	44	0.56	60.4	CF	CF	30.2	38.3	CF
60"	18	23.75	58.3	59.5	64	52	0.56	66.4	CF	CF	33.2	41.3	CF
66"	18	26.75	64.4	65.5	70	52	0.56	72.4	CF	CF	36.2	44.3	CF
72"	18	29.75	70.5	71.5	76	52	0.56	78.4	CF	CF	39.2	47.3	CF

For all other sizes consult Chemline.

SAMPLE SPECIFICATION

- Material of construction shall be Derakane 510N resin or equal for the corrosion liner and Derakane 510N c/w antimony trioxide or equal for the structural portion of the damper (Class 1 fire rating as per ASTM E-84 tunnel test).
- Corrosion liner shall be made using one (1) layer of nexus veil followed by three (3) layers of 1.5 oz. chopped strand mat.
- All major components will be manufactured of FRP (i.e. body, shaft, blade and blade stiffener).
- FRP mating flanges will be an integral part of the damper with sizing as per CGSB 41-GP-22 latest addition.
- Two (2) 180 degree heavy FRP seal rings will be incorporated into body to fit against the FRP blade.
- Drive end of shaft will have a Teflon® shaft seal.
- Bottom end of shaft shall be supported on a Teflon® bearing surface.
- Shaft shall be designed to provide bending stiffness and torsional stiffness required for the applicable service.
- Reinforce FRP damper blade with dished surfaces will to ensure proper stiffness and strength.
- FRP shaft shall be machined at both ends to provide proper sealing and smooth bearing surfaces.
- Actuator support and coupling adapter shall be manufactured from 304 stainless steel to provide ample strength and corrosion resistance.

ELECTRIC ACTUATORS

- NEMA 4 epoxy coated enclosure
- Declutchable manual gear override
- Visual Position Indicator
- Torque plus Travel Limit Switches
- Motor Overload Protection
- Many options available

PNEUMATIC ACTUATORS

- Corrosion Resistant epoxy and Rilsan coated aluminum
- Spring Return or Double Acting
- Optional solenoid valves, positioners, limit switch boxes, hand wheel manual override, etc.

POSITIVE SEAL VERSIONS – Consult Chemline



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