

Acadian Technologies, Inc.

6840 East Meadow Lane • North Little Rock, AR 72118
877-FRP-XPRT



“ALAMO”
FIBERGLASS
CONTROL DAMPER

MODEL 201, 202 & 203 FIBERGLASS ROUND CONTROL DAMPER

ALAMO FIBERGLASS DAMPERS are manufactured by Acadian Technologies, Inc. to meet the needs of the air handling industry by providing a corrosion-resistant FRP Damper that is used to regulate a gas flow or shut off and isolate a system. The operating conditions for the dampers are designed to match the operating conditions of the duct system. Premium vinyl ester resins are used throughout the damper. Fire-retardant resins are also available for a Class 1 flame spread.

Models available as follows:

MODEL 201 is used to balance a system. This model is less expensive, has a shaft seal but does not have a blade seal.

MODEL 202 has a shaft seal and full circumferential blade stop and is used as a shut off damper where a leakage rate of 3 cfm/ft² at 12" wc is allowed.

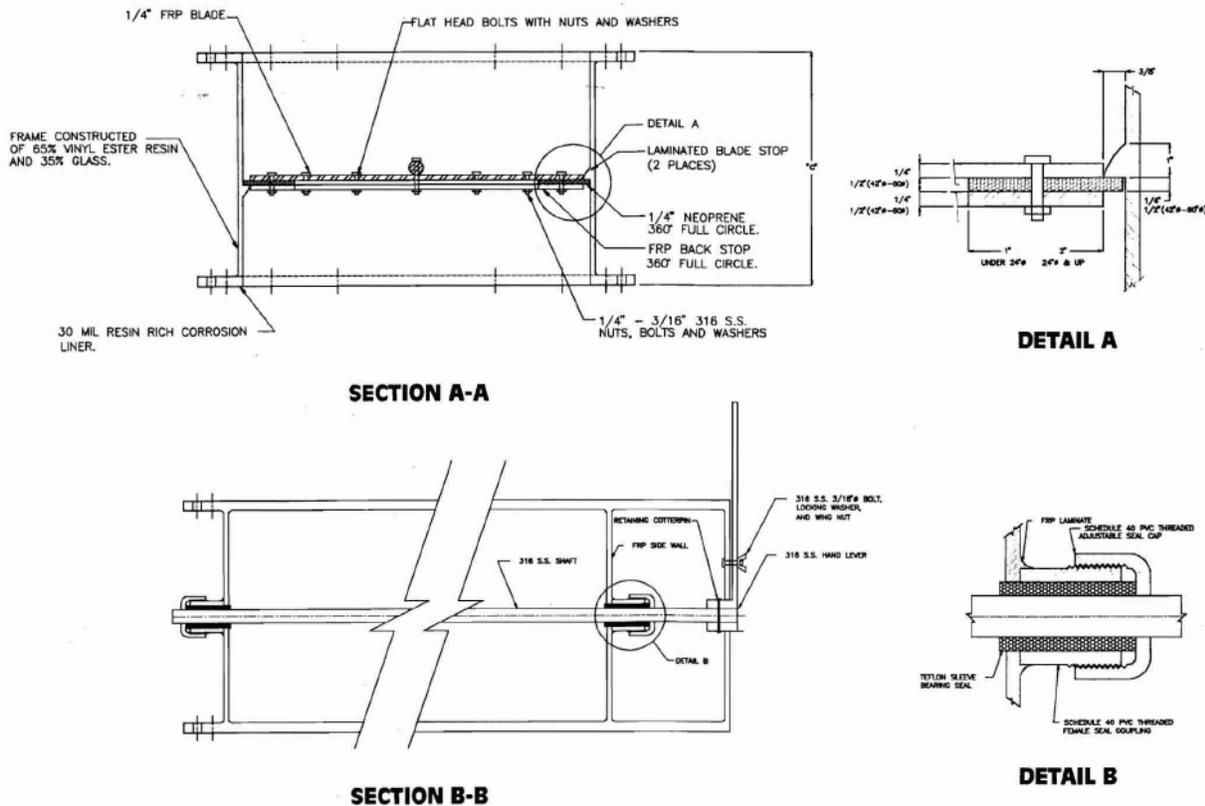
MODEL 203 has a shaft seal, a blade seal and a full circumferential blade stop. Model 203 is designed for up to 30" wc with a leakage rate of 5.2 cfm/ft².

Bearings are mounted "outboard" to the damper body and contained in a plastic sleeve with a NPT end. The bearing is Teflon and the seal is an appropriate elastomer for the chemical service. All is contained within this sleeve with a retaining nut. The blade is a heavy fiberglass disk with an optional full circumferential blade seal. This seal seats against the damper body. All hardware exposed to the gas stream is 316 SS. Shafts are vinyl ester or optional 316 SS.

Care is taken to produce the highest quality damper and tooling is used to produce reproducible and consistent parts. The damper body is one piece construction, hand lain on a polished steel mold.

The standard operator is a 316 SS handle on a locking quadrant. Handwheels, chainwheels, electric or pneumatic operators are available on all models. Standard flanges are duct PS15-69 size and drilling. ANSI Flanges are available. Standard gel-coat is white. Other colors, primers and paints are available. Polyester isophthalic, bisphenol, and furan resins are available.

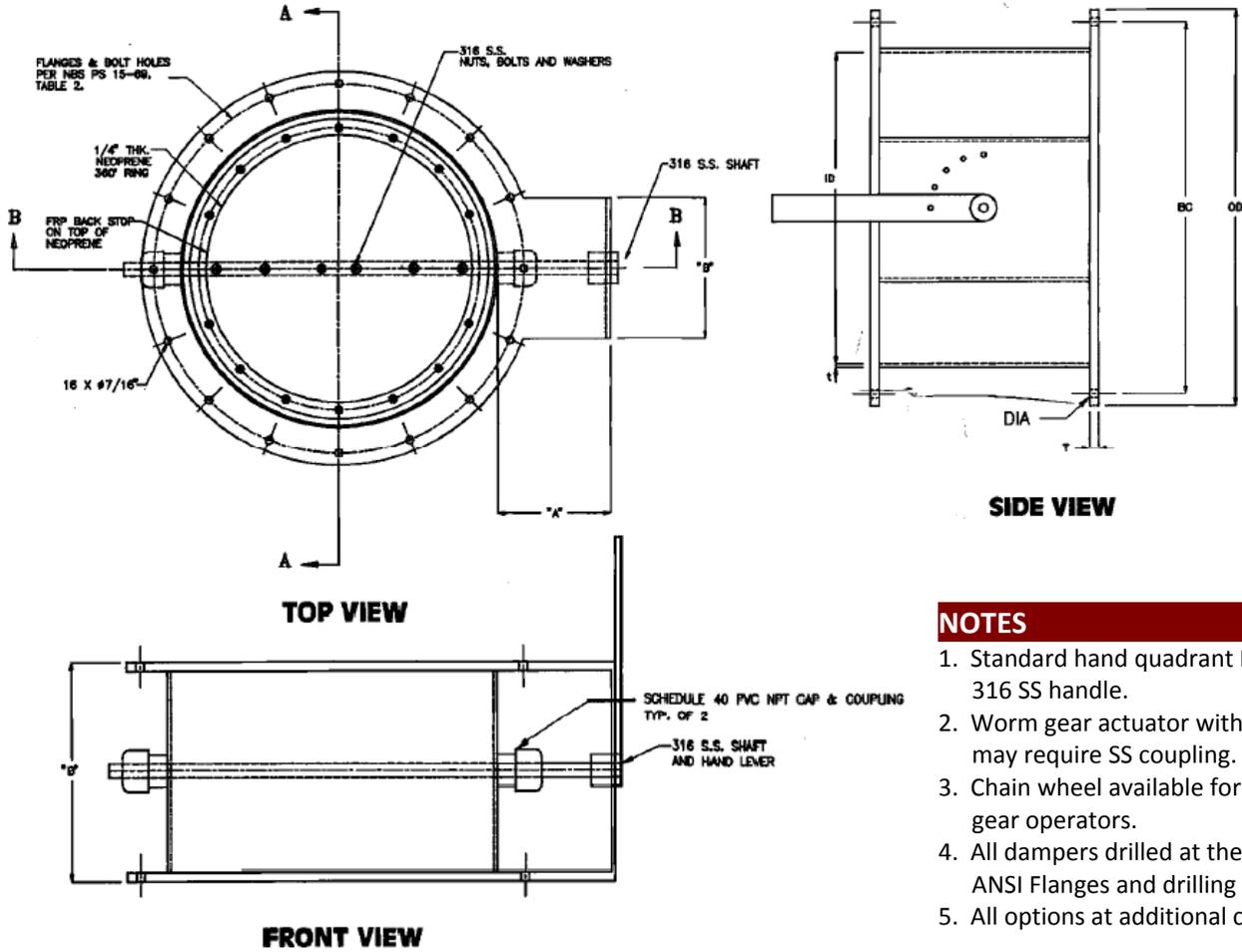
CONTROL DAMPER CROSS SECTIONS



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STANDARD CONSTRUCTION



NOTES

1. Standard hand quadrant FRP with 316 SS handle.
2. Worm gear actuator with wheel may require SS coupling.
3. Chain wheel available for worm gear operators.
4. All dampers drilled at the factory. ANSI Flanges and drilling optional.
5. All options at additional cost.

FRAME

Fiberglass body Vinyl Ester Resin. See table below for dimensions.

BLADE

Fiberglass, Vinyl Ester Resin

AXLE

Pultruded Fiberglass,
Vinyl Ester Resin or 316 SS

SIZES

6", 8", 10", 12", 14", 16", 18"
20", 24", 30", 36", 42", 48", 54",
60" and 72".

MAXIMUM TEMPERATURE

300 Degrees F.

MAXIMUM SYSTEM PRESSURE

30" w.g.

SIZES	FLANGE THICKNESS	FLANGE DIAMETER O.D.	BOLT CIRCLE DIA.	BOLT HOLE DIA.	# OF BOLT HOLES	BLADE EDGE THICKNESS	AXLE DIA.
6"	1/4"	10 3/8"	9"	7/16"	8	3/8"	3/4"
8"	1/4"	12 3/8"	11"	7/16"	8	3/8"	3/4"
10"	3/8"	14 3/8"	13"	7/16"	12	3/8"	3/4"
12"	3/8"	16 3/8"	15"	7/16"	12	3/8"	3/4"
14"	3/8"	18 3/8"	17"	7/16"	12	3/8"	3/4"
16"	1/2"	20 3/8"	19"	7/16"	16	3/8"	1 1/4"
18"	1/2"	22 3/8"	21"	7/16"	16	3/8"	1 1/4"
20"	1/2"	24 3/8"	23"	7/16"	20	1/2"	1 1/4"
24"	1/2"	28 3/8"	27"	7/16"	20	1/2"	1 1/4"
30"	1/2"	34 3/8"	33"	7/16"	28	1/2"	1 1/4"
36"	1/2"	40 3/8"	39"	7/16"	32	1/2"	2"
42"	5/8"	46 3/8"	45"	7/16"	36	3/4"	2"
48"	5/8"	54 3/8"	52"	9/16"	44	3/4"	2"
54"	5/8"	60 3/8"	58"	9/16"	44	3/4"	2"
60"	5/8"	66 3/8"	64"	9/16"	52	3/4"	2"
72"	5/8"	78 3/8"	76"	9/16"	52	3/4"	2"

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SUGGESTED SPECIFICATIONS FOR ROUND FRP BUTTERFLY DAMPERS

Furnish and install at locations shown on plans round FRP single-blade fiberglass dampers. Damper frame shall be of one piece construction with a resin rich interior corrosion barrier minimum of 100 mils. A structural lay-up shall consist of alternate layers of chopped strand mat and woven roving to conform to ASME/ANSI RTP1 and PS15-69. The glass to resin ratio shall be a minimum of 35% glass, 65% resin. Wall thickness, flange thickness, drilling pattern and width shall conform to PS15-69. Exterior surface of the damper shall contain UV inhibitors and a gel-coat, color to match duct system.

The damper blade shall be constructed of the same materials as the damper frame and have a resin rich surfacing veil on both sides. Blade stiffeners shall be FRP

or FRP encapsulated as required for stiffness. The axle shall be pultruded fiberglass or 316 stainless or 316 stainless encapsulated in FRP, as required to meet corrosion resistance requirements. Leakage shall not exceed 3 cfm/ft² at 12" w.g. or 5.25 cfm per ft² at 30" w.g. as required in this specification. Damper shall be provided with stainless steel hand locking quadrant, gear operators, chainwheels operators or other actuation devices as required in this specification. All interior metal shall be 316 stainless steel. Gaskets shall be closed cell neoprene. Other gasket material available upon request.

All FRP fabrication shall meet or exceed quality requirements of PS15-69 and ASME/ANSI RTP1. Damper shall be Acadian Technologies Models 201, 202 or 203.

CERTIFIED RATINGS AUTHORIZED BY AMCA



DAMPER DIAMETER	STATIC PRESSURE	TOTAL LEAKAGE	STATIC PRESSURE	TOTAL LEAKAGE
48"	12" w.g.	37.20	30"	66.00 CFM
42"	12" w.g.	28.60	30"	50.53 CFM
36"	12" w.g.	21.06	30"	37.21 CFM
30"	12" w.g.	14.62	30"	25.84 CFM
24"	12" w.g.	9.36	30"	16.54 CFM
20"	12" w.g.	6.49	30"	11.46 CFM
18"	12" w.g.	5.26	30"	9.29 CFM
16"	12" w.g.	4.16	30"	7.35 CFM
14"	12" w.g.	3.18	30"	5.62 CFM
12"	12" w.g.	2.34	30"	4.13 CFM
10"	12" w.g.	1.62	30"	2.80 CFM
8"	12" w.g.	1.43	30"	2.76 CFM
6"	12" w.g.	1.27	30"	2.12 CFM

Acadian Technologies certifies that the "Alamo" Dampers herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Rating Program.

1. Test Method per MACA Standard 500-89
2. Torque: #1049 in/lbs for 48" damper
67.25 in/lbs for 6" damper
3. Larger size dampers are available.
4. Air leakage is based on operation between 50°F-104°F.

GUARANTEE

ALAMO DAMPERS are warranted for two (2) years from the date of purchase to be free from defects in manufacture, materials or workmanship. Liability shall not exceed the purchase price of the damper and is limited to repair or replacement. Acadian Technologies, Inc. shall not be liable for any costs incurred either directly or indirectly other than repair or replacement of the product.

