

Heavy Duty Backdraft Dampers



Butterfly Backdraft Dampers

ALPHAIR's heavy duty butterfly backdraft dampers are designed specifically for axial fans, like the *JetStream* Vane Axial Series. The standard design series offers a robust self-closing design, suitable for most industrial and mining applications. Our heavy duty reinforced model has been enhanced for more aggressive environments.

Product Range

ALPHAIR Butterfly Backdraft Dampers range from 18" to 104" I.D., in three standard design orientations; horizontal, vertical up and vertical down flows. Custom built dampers up to 20 ft diameter are available, contact our sales engineers for more information.

Standard Design

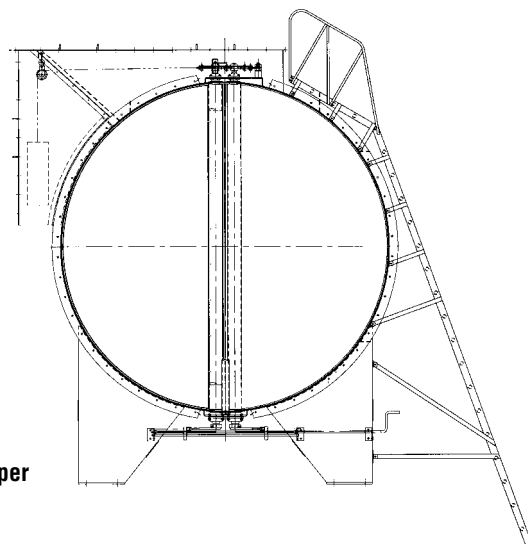
- All steel heavy gauge housing.
- Flanges rolled from steel flat bar, and continuously welded to the casing using submerged arc technology, for smooth continuous weld.
- Reinforced steel damper blades welded to high-strength tubular shafts with C 1020 cold rolled stub shafts. Supported in oil impregnated bronze bushings with rubber bumpers to cushion upon full open position.
- Interconnecting blade linkage for simultaneous opening.
- Counterweight connected through large diameter, pulley by aircraft cable.
- Continuous blade stop ring welded to housing, gasket for quiet operation.

Heavy Duty Design

- Extra flat-bar reinforcing on damper blades.
- Flat-bar blade support grid for full-closed position.
- Regreasable, flange mount anti-friction bearings for damper shafts.

Optional Accessories

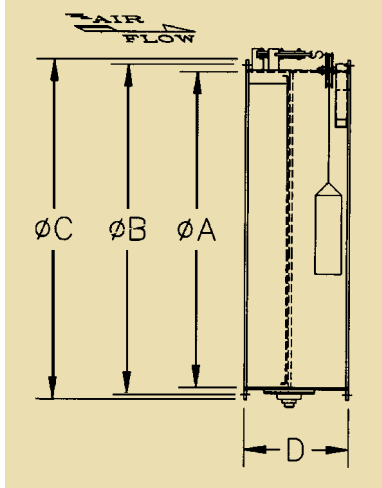
- Two position pneumatic or electric actuators.
- Finish painting to customer specification.
- Weather cover for counterweight mechanism.
- Limit switches and safety-overrides



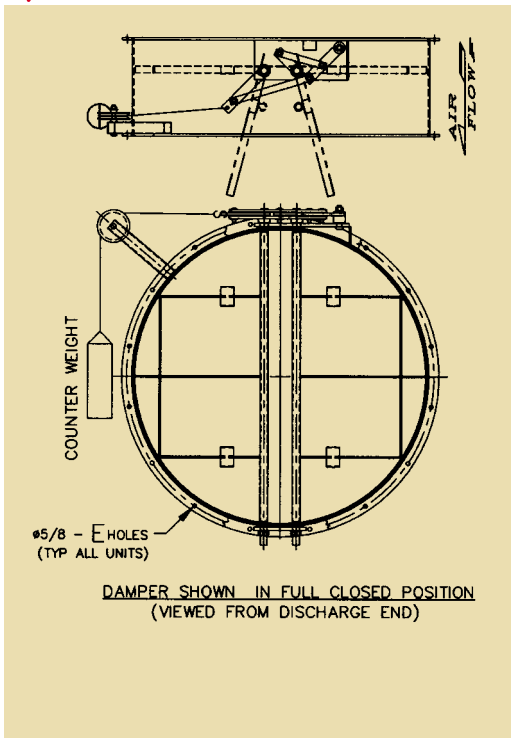
Heavy Duty
Custom Damper

Principal Damper Dimensions

Dimensions in inches



Unit Size	A I.D	B B.C.D.	C REF	D WIDTH	E	WT LBS
18	18 $\frac{1}{2}$	19 $\frac{1}{2}$	21 $\frac{1}{2}$	10	12	61
21 $\frac{1}{4}$	21 $\frac{1}{2}$	23 $\frac{1}{2}$	24 $\frac{1}{2}$	10	12	75
23 $\frac{1}{4}$	23 $\frac{1}{2}$	25 $\frac{1}{2}$	26 $\frac{1}{2}$	10	12	87
24	24	26 $\frac{1}{2}$	27 $\frac{1}{2}$	10	12	90
25	25	27 $\frac{1}{2}$	28 $\frac{3}{8}$	10	12	98
25 $\frac{1}{4}$	25 $\frac{1}{2}$	27 $\frac{1}{2}$	28 $\frac{5}{8}$	10	12	99
27 $\frac{1}{4}$	27 $\frac{1}{2}$	29 $\frac{1}{2}$	30 $\frac{1}{2}$	10	12	111
28	28	30 $\frac{1}{2}$	31 $\frac{1}{2}$	10	12	116
29 $\frac{1}{4}$	29 $\frac{1}{2}$	31 $\frac{1}{2}$	32 $\frac{1}{2}$	10	12	123
30	30	32 $\frac{1}{2}$	33 $\frac{1}{2}$	10	12	128
32	32	33 $\frac{1}{2}$	35 $\frac{1}{2}$	12	12	139
34	34	35 $\frac{1}{2}$	37 $\frac{1}{2}$	12	12	151
36	36	38	39 $\frac{1}{2}$	12	12	162
38	38	40	41 $\frac{1}{2}$	12	12	176
40	40 $\frac{1}{2}$	41 $\frac{1}{2}$	43 $\frac{1}{2}$	15	16	210
42	42	44	45 $\frac{1}{2}$	15	16	214
42 $\frac{1}{4}$	42 $\frac{1}{2}$	44 $\frac{1}{4}$	45 $\frac{3}{4}$	15	16	218
44	44 $\frac{1}{4}$	46	47 $\frac{1}{2}$	15	16	225
45	45	47	48 $\frac{1}{2}$	15	16	235
48	48	50	51 $\frac{1}{2}$	15	16	280
52	52 $\frac{1}{2}$	54 $\frac{1}{2}$	56 $\frac{1}{2}$	15	24	320
54	54	56 $\frac{1}{2}$	58 $\frac{1}{2}$	15	16	330
56	56 $\frac{1}{2}$	58 $\frac{1}{2}$	60 $\frac{1}{2}$	15	24	350
60	60	62 $\frac{1}{2}$	64 $\frac{1}{2}$	15	24	380
66	66	69 $\frac{1}{2}$	71 $\frac{1}{2}$	15	24	400
72	72	75 $\frac{1}{2}$	77 $\frac{1}{2}$	15	24	530
78	78	81 $\frac{1}{2}$	84 $\frac{1}{2}$	15	24	627
80	80 $\frac{1}{2}$	83 $\frac{1}{2}$	86 $\frac{1}{2}$	15	24	640
84	84	87 $\frac{1}{2}$	90 $\frac{1}{2}$	15	24	660
88	88 $\frac{1}{2}$	91 $\frac{1}{2}$	94 $\frac{1}{2}$	15	24	700
96	96 $\frac{1}{2}$	99 $\frac{1}{2}$	102 $\frac{1}{2}$	15	24	740
104	104 $\frac{1}{2}$	107 $\frac{1}{2}$	110 $\frac{1}{2}$	15	24	765



Dimensions subject to change.
Certified prints available on request.

ALPHAIR

(204) 694-6666 • Fax (204) 694-6204 • email: sales@alphair.mb.ca • 1221 Sherwin Road, Winnipeg, MB, Canada R3H 0V1
Website: www.alphair.mb.ca