



## SUBMITTAL DATA

# INDUSTRIAL BUTTERFLY BACKDRAFT DAMPER

The Model I-900 is a heavy duty flanged frame style industrial backdraft damper. It is designed to control backflow and provide shut-off in HVAC or industrial process control systems. It is counterbalanced to operate in vertical or horizontal positions.

## **RATINGS:**

Pressure: 10" [254mm] w.g. - differential pressure

- through 40" [1016mm]

8" [203.2mm] w.g. - differential pressure

- through 48" [1219.2mm]

5" [127mm] w.g. - differential pressure

- through 60" [1524mm]

Velocity: 5000 fpm laminar flow 3000 fpm turbulent flow Temperature: 250° F [121.11° C]



## STANDARD CONSTRUCTION:

Flange: Angle Rings

Blades: Aluminum 11 ga. through 24" [609.6mm]

8 ga. through 50" [1270mm] 6 ga. through 60" [1524mm]

Spring Hinges: Painted steel with S.S. inner tension

spring (adjustable)

sizes 6"-14" [152.4-355.6mm] dia. (single blade w/ one hinge)

**|--10.00"--|** 

Model I-900-DF

(double flanged)

Finish: Zinc Rich Gray Primer Other: Rubber Bumpers

## OPTIONS:

Stainless steel construction (304 S.S. Only)

Aluminum construction (w/ 304 S.S. Hinges)

(w/ 304 S.S. Hinges) Reinforcement

☐ Omit bolt holes over 24" [609.6mm]

Omit bolt holes over 2

## Balancing Instructions:

See Decals (on each side of damper)
-Assist to Open

-Assist to Close See 4 slots in angle ring side of damper.

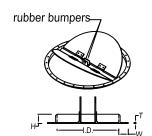
-Two per side

Use 5/32" hex wrench to adjust

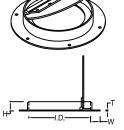
To relieve pressure, please depress spring with hex wrench. (clockwise adds more torque) (do not exceed six ratchet clicks)

Damper begins to open at \_\_\_\_\_ w.g. (please specify, additional charge may apply)

Not Ideal for Pressure below 2" [50.8mm]



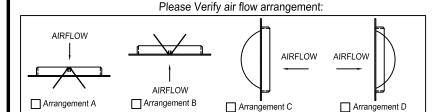
### Model I-900-F



Model I-900-F (single blade sizes 6"-14")

### **DIMENSIONS CHART**

	DIMENSIO	NS CHART	
Inside Diameter	Н	W	Т
6-3/16" [157.16mm]	1-1/4" [31.75mm]	1-1/4" [31.75mm]	1/8" [3.2mm]
7-3/16 [182.56]	1-1/4 [31.75]	1-1/4 [31.75]	1/8 [3.2]
8-3/16 [207.96]	1-1/4 [31.75]	1-1/4 [31.75]	1/8 [3.2]
9-3/16 [233.36]	1-1/4 [31.75]	1-1/4 [31.75]	1/8 [3.2]
10-3/16 [258.76]	1-1/4 [31.75]	1-1/4 [31.75]	1/8 [3.2]
11-3/16 [284.16]	1-1/4 [31.75]	1-1/4 [31.75]	1/8 [3.2]
12-3/16 [309.56]	1 1/2 [38.1]	1 1/2 [38.1]	1/8 [3.2]
13-3/16 [334.96]	1 1/2 [38.1]	1 1/2 [38.1]	1/8 [3.2]
14-3/16 [330.36]	1 1/2 [38.1]	1 1/2 [38.1]	1/8 [3.2]
15-3/16 [385.76]	1 1/2 [38.1]	1 1/2 [38.1]	1/8 [3.2]
16-3/16 [411.16]	1 1/2 [38.1]	1 1/2 [38.1]	3/16 [4.76]
17-3/16 [436.56]	1 1/2 [38.1]	1 1/2 [38.1]	3/16 [4.76]
18-3/16 [461.96]	1 1/2 [38.1]	1 1/2 [38.1]	3/16 [4.76]
19-3/16 [487.36]	1 1/2 [38.1]	1 1/2 [38.1]	3/16 [4.76]
20-3/16 [512.76]	1 1/2 [38.1]	1 1/2 [38.1]	3/16 [4.76]
21-3/16 [538.16]	1 1/2 [38.1]	1 1/2 [38.1]	3/16 [4.76]
22-3/16 [563.56]	1 1/2 [38.1]	1 1/2 [38.1]	3/16 [4.76]
23-3/16 [588.96]	1 1/2 [38.1]	1 1/2 [38.1]	3/16 [4.76]
24-3/16 [614.36]	1 1/2 [38.1]	1 1/2 [38.1]	3/16 [4.76]
25-3/16 [639.76]	2 [50.8]	2 [50.8]	3/16 [4.76]
26-3/16 [655.16]	2 [50.8]	2 [50.8]	3/16 [4.76]
27-3/16 [690.56]	2 [50.8]	2 [50.8]	3/16 [4.76]
28-3/16 [715.96]	2 [50.8]	2 [50.8]	3/16 [4.76]
29-3/16 [741.36]	2 [50.8]	2 [50.8]	3/16 [4.76]
30-3/16 [766.76]	2 [50.8]	2 [50.8]	3/16 [4.76]
31-3/16 [792.16]	2 [50.8]	2 [50.8]	3/16 [4.76]
32-3/16 [817.56]	2 [50.8]	2 [50.8]	3/16 [4.76]
33-3/16 [842.96]	2 [50.8]	2 [50.8]	3/16 [4.76]
34-3/16 [868.36]	2 [50.8]	2 [50.8]	3/16 [4.76]
35-3/16 [893.76]	2 [50.8]	2 [50.8]	3/16 [4.76]
36-3/16 [919.16]	2 [50.8]	2 [50.8]	3/16 [4.76]
37-3/16 [944.56]	2 [50.8]	2 [50.8]	3/16 [4.76]
38-3/16 [969.96]	2 [50.8]	2 [50.8]	3/16 [4.76]
39-3/16 [995.36]	2 [50.8]	2 [50.8]	3/16 [4.76]
40-3/16 [1020.76]	2 [50.8]	2 [50.8]	3/16 [4.76]
41-3/16 [1046.16]	2 [50.8]	2 [50.8]	3/16 [4.76]
42-3/16 [1071.56]	2 [50.8]	2 [50.8]	3/16 [4.76]
43-3/16 [1096.96]	2 [50.8]	2 [50.8]	3/16 [4.76]
44-3/16 [1122.36]	2 [50.8]	2 [50.8]	3/16 [4.76]
45-3/16 [1147.76]	2 [50.8]	2 [50.8]	3/16 [4.76]
46-3/16 [1173.16]	2 [50.8]	2 [50.8]	3/16 [4.76]
47-3/16 [1198.56]	2 [50.8]	2 [50.8]	3/16 [4.76]
48-3/16 [1223.96]	2 [50.8]	2 [50.8]	3/16 [4.76]
49-3/16 [1249.36]	2 [50.8]	2 [50.8]	3/16 [4.76]
50-3/16 [1274.76]	2 [50.8]	2 [50.8]	3/16 [4.76]
51-3/16 [1300.16]	2 [50.8]	2 [50.8]	3/16 [4.76]
52-3/16 [1325.56]	2 [50.8]	2 [50.8]	3/16 [4.76]
53-3/16 [1350.96]	2 [50.8]	2 [50.8]	3/16 [4.76]
54-3/16 [1376.36]	2 [50.8]	2 [50.8]	3/16 [4.76]
55-3/16 [1401.76]	2 [50.8]	2 [50.8]	3/16 [4.76]
56-3/16 [1427.16]	2 [50.8]	2 [50.8]	3/16 [4.76]
57-3/16 [1452.56]	2 [50.8]	2 [50.8]	3/16 [4.76]
58-3/16 [1477.96]	2 [50.8]	2 [50.8]	3/16 [4.76]
59-3/16 [1503.36]	2 [50.8]	2 [50.8]	3/16 [4.76]
60-3/16 [1528.76]	2 [50.8]	2 [50.8]	3/16 [4.76]
00-0/10 [1020./0]	1 = [00:0]	1 - 100.01	11



Job Name:	☐ Model I-900		
Location:			
Architect:	DRAWN BY: CLJ	DATE: 6-1-99	REV. DATE: 4-7-14
Engineer:	REV. NO.	APPROVED BY:	DWG. NO.:
Contractor:	21	BGT	F-25