## STANDARD CONSTRUCTION

FRAME: Fabricated steel channel.

BLADE: Single thickness with reinforcing gussets welded to blade parallel

to air flow as required.

SHAFT: Plated steel continuous length welded to blade.

BEARINGS: Sintered stainless steel flanged sleeve, pressed into the frame.

**STOP:** Angle stops to prevent over-rotation of blade.

OPERATOR: Extended shaft 6" long beyond frame flanges with counterbalance

to assist or resist airflow.

FINISH: Mill / Galvanized / Zinc rich touch up.

TEMP. LIMIT: 200°F

Consult the factory for temperature limits over 200°F.

## **OPTIONS**

Materials - stainless steel and others

Ball bearings

Finishes - Acrylic, baked enamel, etc. Perimeter holes: one flange or two flanges

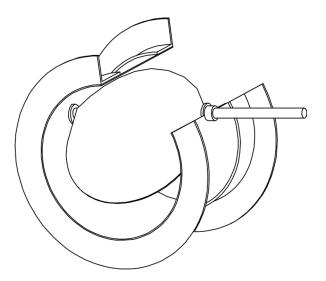
Low leakage seal systems

### **NOTES**

- 1. Construction may be with other materials when required to meet special conditions, such as: temperature, pressure, velocity, system environment, or other specifications.
- 2. Approximate shipping weight is 5 lbs./in. of inside diameter.

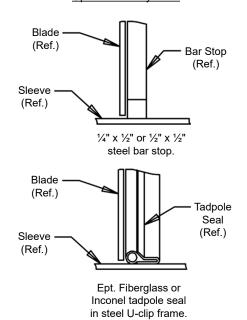
## **DAMPER SIZING CHART**

Inside Diameter		Frame		Blade	Shaft	
Above	Through	Depth	Flanges	Thickness	Diameter	
10"	12"	10" 10 GA.	Ι 12 (ΞΔ		1/2"	
12"	24"		1½" x 1½" x ½" for 12" to 15" dia.	10 GA. to 36"	3/4"	
		10" 10 GA.	1½" x 1½" x ¾6" for 16" to 24" dia.	dia.		
24"	48"		2" x 2" x <sup>3</sup> / <sub>16</sub> " for 25" to 48" dia.	10 GA. w/ (2) gussets for 37" to 48" dia.	1"	



The construction described above is conservative. There are applications where this design may be used in sizes that can operate satisfactorily when static pressures are above 8 in w.g.

#### Optional Seal Systems



Item #	Qty	Damper Size I.D.	Tag	ging	ı	Remarks		Union Made	
Arch.	/ Eng.:		EDR:		ECN:		Job:		
Conti	ractor:								
Project:			Date:		DWN:		DWG:		

In the interest of product development, Louvers & Dampers reserves the right to make changes without notice.



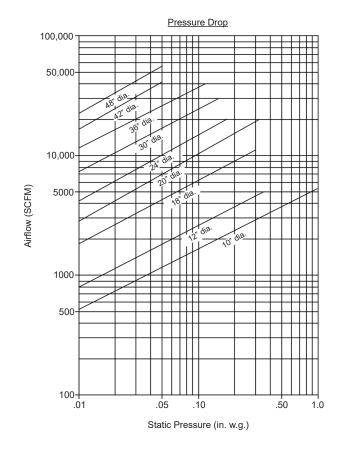
# PERFORMANCE DATA

### Pressure and Velocity Limitations

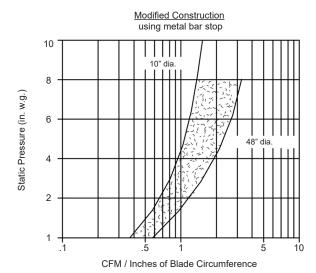
The model 580-BD damper has been designed to operate satisfactorily within the limits shown below. Consult the factory when applications exceed the limits shown.

Damper Diameter	Max System Static Pressure	Max System Velocity		
10" to 12"	8"	6000 FPM		
13" to 24"	8"	5500 FPM		
25" to 36"	8"	5000 FPM		
37" to 48"	8"	4000 FPM		

Damper performance for pressure drop and air leakage is based on AMCA Standard 500 using fig. 5.3 (damper installed with duct upstream and downstream for pressure drop) and fig. 5.4 for air leakage. Static pressure and CFM are corrected to .075 lbs./cu.ft. air density.



## DAMPER LEAKAGE CHART



Leakage results shown are based on tests using various damper sizes. The shaded area between the graph lines indicate normal expected leakage range for a standard damper operating conditions and sizes.

