Round Dampers





MANUAL DAMPERS

TheModel ED-I is an ideal manual balancing damper, with the added ability of complete shut off for control. For use in up to 12" round.

MODEL ED-I

STANDARD CONSTRUCTION:

FRAME:

24 ga. thru 10" 20 ga. thru 12"

BLADE:

24 ga. thru 10" 20 ga. thru 12"

GASKET:

Foam

HAND QUADRANT:

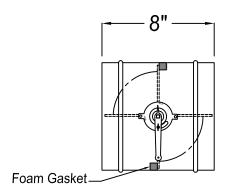
1/4" square axle

FINISH:

Galvanized

MAXIMUM VELOCITY:

1400 FPM



approx. 1/8" o.d. undersized

Job Name:	
Location:	
Architect:	☐ MODEL ED-I
Engineer:	
Contractor:	





MANUAL DAMPERS

The Model ED is an ideal manual balancing damper for duct up to 20" round.

STANDARD CONSTRUCTION:

FRAME:

24 ga. thru 12" 20 ga. thru 20"

BLADE:

20 ga. thru 14" 18 ga. thru 20"

HAND QUADRANT:

1/4" square axle-Steel

Options:

- □ 1/4" Continous Shaft; Steel
- □ Nylon Bushings
- □ Stand Off Bracket
- □ Paint Grip

FINISH:

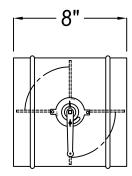
Galvanized

MAXIMUM VELOCITY:

1400 FPM



MODEL ED



approx. 1/8" o.d. undersized

Job Name:	
Location:	
Architect:	☐ MODEL ED
Engineer:	
Contractor:	



MANUAL DAMPERS

The Model RD is a G-90 galvanized steel damper with factory mounted with heavy duty locking hand quadrant designed especially for manual balancing applications. It is easy to install, seal, and becomes part of the duct work.

DIAMETER	LENGTH	BODY & BLADE
4 - 10"	8"	20 ga.
12 - 18"	8"	20 ga.
20 - 30"	8"	20 ga.
32 - 40"	8"	18 ga.



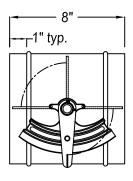
MODEL RD approx. 1/8" o.d. undersized

SHAFT:

1/2" round solid aluminum (thru 30") 3/4" round solid steel (32" thru 40")

BEARING:

Molded synthetic Nylon 6/6



Contractor:

MAXIMUM VELOCITY		
DIAMETER	FPM	Max. Pressure Differential
4 - 8"	2600	3"
10 - 12"	2400	2.5"
14 - 18"	2300	2"
20 - 24"	2300	1.5"
26 - 30"	2200	1.25"
32 - 40"	2000	0.75"

VARIATIONS:

	Stainless steel	body	. blade.	shaft a	nd d	baut	ran

☐ All aluminum construction w/ steel plated quadrant

☐ Extended quadrant 2"

Job Name:		
Location:		
Architect:		
Engineer:		
	-	

■ MODEL RD





DUAL WALL DAMPERS For Spiral Duct

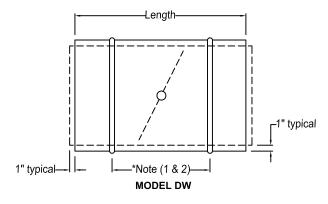
The MODEL DW is an insulated galvanized steel balancing damper for spiral duct. It is easy to install, seal, and becomes part of the duct work.

I.D. Diameter	Body Length	Exterior Body	Interior Body (solid)	Blade	Shaft
4-10"	8"	18 ga.	18 ga.	18 ga.	1/2"Ø
12-24"	8"	18 ga.	18 ga.	16 ga.	1/2"Ø
25-34"	8"	16 ga.	18 ga.	16 ga.	1/2"Ø
35-42"	8"	*14 ga.	18 ga.	16 ga.	3/4"Ø
43-52"	8"	*12 ga.	16 ga.	14 ga.	3/4"Ø
53-66"	8"	*10 ga.	16 ga.	12 ga.	3/4"Ø

BEARING: Interior and Exterior Body: Bronze oilite

INSULATION: Fiberglass





Approximately 1/8" O.D. & I.D. undersize

Note: Both damper bodies fit inside of spiral duct (male connection)

*Note (1) 5-7/16" - 4" Thru 10" 7-7/16" - 12" Thru 66"

*Note (2) Seal Bead Not Available above 35".

VARIATIONS:

Heavier Gauge Construction
Stainless Steel Body, Blade, Shaft, and Bearing
All Aluminum Construction w/ Bronze Oilite Bearing
Hand Quadrant
☐ Actuator

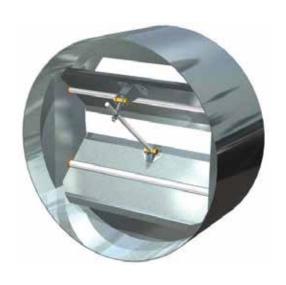
Low leakage Blade Gasket

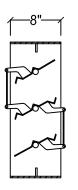
Job Name:	
_ocation:	
Architect:	☐ MODEL DW
Engineer:	
Contractor:	

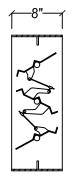


ROUND MULTI-BLADE DAMPER

The Model R-PB & R-OB was developed to maintain a more even airflow through the duct system.







MODEL R-PB (parallel blade)

MODEL R-OB (opposed blade)

approx. 1/4" o.d. undersized

STANDARD FEATURES:

FRAME: 16 ga galvanized steel, 8" deep

BLADES: 16 ga galvanized steel

BEARINGS: 1/2" dia. self lubricating porous bronze

BEARING PINS: 1/2" x 2" long plated steel rods

HARDWARE: Plated brackets, brass pivots, 1/4" dia. steel rods

CONTROL ROD: 1/2" x 9" long plated steel

FINISH: galvanized **MAX. TEMP.:** 200°F

MAX. VELOCITY: 2000 FPM

MIN. SIZE: 12" Ø

MAX. SIZE: 44" Ø

Contractor:

OPTIONS:

- ☐ Blade seals (EPDM) 180°F
- ☐ #304 stainless steel (including linkage)
- ☐ Actuators
- □ Powder coated (epoxy)
- □ Powder coated (polyester)

Job Name:	
_ocation:	
Architect:	☐ MODEL R-PB, R-OB
Engineer:	



CONTROL DAMPER

APPLICATION AND DESIGN:

The Model RI was developed in response to automation controls companies need for a damper with the flexibility to mount various manufacturers actuators and controls.

SHAFT:

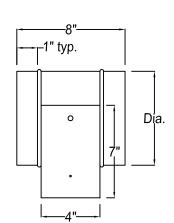
1/2" round solid aluminum (thru 30") 3/4" round solid steel (32" thru 46")

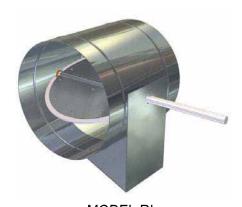
BEARING:

Bronze oilite (175°)

BLADE SEALS:

Crosslinked closed cell (200° F)





MODEL RI approx. 1/8" o.d. undersized

MOUNTING PLATE:

20 ga. galvanized steel

OPTIONS:

- ☐ Stainless steel body, blade, shaft and quadrant
- ☐ Silicone Blade Seal (400° F)
- ☐ All aluminum construction w/ steel plated quadrant
- ☐ Nylon 6/6 bushing (for aluminum construction)
- ☐ Extended quadrant 2"
- ☐ Factory furnished and mounted actuator
- ☐ Stainless steel bearings (700° F)
- ☐ Silica Seals (800° F)

Heavier Gauges:

- ☐ 16 ga
- ☐ 14 ga

MAXIMUM VELOCITY			
DIAMETER	FPM	MAX. PRESSURE DIFFERENTIAL	
4 - 8"	2600	6"	
10 - 12"	2400	5"	
14 - 18"	2300	4"	
20 - 24"	2300	3"	
26 - 30"	2200	2-1/2"	
32 - 46"	2000	1-3/4"	

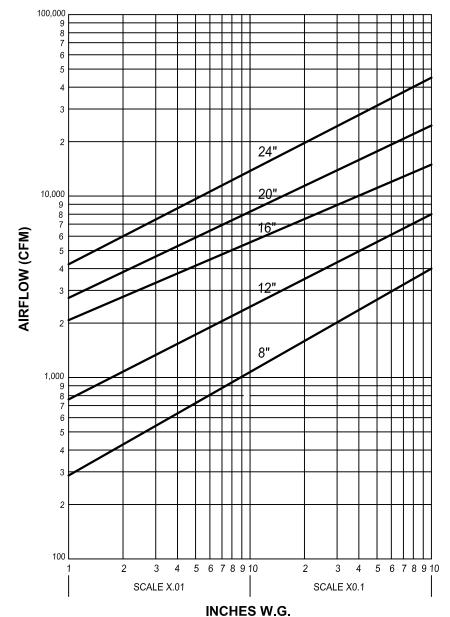
DIAMETER	LENGTH	BODY & BLADE
4 - 10"	8"	24 ga.
12 - 18"	8"	20 ga.
20 - 30"	8"	20 ga.
32 - 46"	8"	18 ga.

Job Name:	
Location:	
Architect:	☐ MODEL RI
Engineer:	
Contractor:	



ROUND DAMPERS

STATIC PRESSURE DROP



Determining Static Pressure Drop (Round)

To determine static pressure drop through an open damper, start on the left side of the damper pressure drop chart. Given the CFM of air flow through the damper, follow the CFM line to the diagonal line of the damper size required, then down to the static pressure drop of the unit.

Example:

The pressure drop of an 8" damper with 700 CFM flow is .051 inches w.g.

Job Name:

Location:

Architect:

Engineer:

Contractor:

□ Performance Data

Product Range

- ► Fire-Resisting Ductwork (BS & EN)
- ► Fire-rated Insulation (ASTM & UL)
- ➤ Sound Attenuators (ASTM & BS)
- ▶ VAV Boxes (AHRI)
- ▶ Life Safety Dampers (UL)
- ► Control Dampers (AMCA & BS)
- ➤ Access Doors (BS & EN)
- ► Louvers (AMCA)

- Smoke Exhaust, Building, Car Park & Tunnel Ventilation Fans (AMCA & EN)
- ► Domestic and Industrial Ventilation Fans
- ► AHU, FAHU, FCU, RTU, ERV & Ecology Units (Eurovent, TUV & AHRI)
- Electrostatic Precipitators (ESPs)& UL Listed Air Filters (UL)

Our Brands



Non-Coated Fire-Resisting Ductwork & Life Safety Dampers



Smoke Exhaust, Car Park & Tunnel Ventilation



Control Dampers, Louvers, Sound Attenuators & VAV Boxes



Fire-rated Insulation



Coated Fire-Resisting Ductwork



General Ventilation



AHU, FCU, RTU, ERV & Ecology Units

U.A.E

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Dammam 2nd Industrial City, Dammam 31952, K.S.A **Egypt**

Al Minya Industrial Zone, Al Minya Governorate 2427606, Egypt Qatar

Street 9 Industrial Area, Doha, Qatar





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