

# **Application**

Model SSWDR-53 is a round backdraft dampers which may be mounted horizontally for airflow down or up or vertically for horizontal airflow.

## **Ratings**

**Pressure** 

3 in. wg (0.7 kPa)

**Velocity** 

2000 fpm (10.2 m/s)

**Temperature** 

180°F (82°C)

Start open pressure for a 12 inch SSWDR-53

0.08 in. wg (0.02 kPa)



Damper is approximately  $\frac{1}{8}$  in. (3mm) undersize.

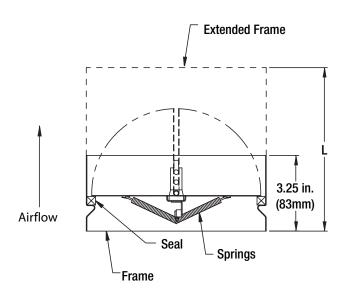
### Construction

	Standard	Optional	
Frame Material	304 Stainless Steel	-	
Frame Thickness	20 ga. (1mm)	-	
Frame Type	Standard	Extended Frame	
Blade Material	304 Stainless Steel	-	
Blade Thickness	24 ga. (0.7mm)	-	
Blade Type	Round	-	
Blade Seals	Closed cell neoprene/ EPDM/SBR blend	-	
Flow Direction	Vertical Up	Horizontal, Vertical Down	

W x H	Minimum Size	Maximum Size
Inches	4	24
mm	102	610

## **Options and Accessories**

• Clean Wrap



Frame Dimensions		
Damper Model	Length	
SSWDR-53 Standard Frame	3.25 in. (83mm)	

SSWDR-53 Extended Frame			
Damper Diameter	Length "L"		
5 in 10.999 in.	7.25 in.		
(127mm - 279mm)	(184mm)		
11 in 16.999 in.	10.25 in.		
(279mm - 432mm)	(260mm)		
17 in 24 in.	13.25 in.		
(432mm - 610mm)	(336mm)		

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#### **Ducted Inlet Ducted Outlet**

6	in.	12	in.	24	in.
Velocity (fpm)	Pressure (in. wg)	Velocity (fpm)	Pressure (in. wg)	Velocity (fpm)	Pressure (in. wg)
500	.233	500	.07	500	.045
1000	.321	1000	.135	1000	.132
1500	.444	1500	.228	1500	.252
2000	.601	2000	.392	2000	.448

#### Free Inlet Ducted Outlet

6	in.	12	in.	24	in.
Velocity (fpm)	Pressure (in. wg)	Velocity (fpm)	Pressure (in. wg)	Velocity (fpm)	Pressure (in. wg)
500	.236	500	.072	500	.049
1000	.317	1000	.105	1000	.136
1500	.414	1500	.205	1500	.274
2000	.549	2000	.35	2000	.484

# Leakage

Vertical Up Flow			
WDR-53	Leakage (cfm/ft²)		
Damper Diameter	1 in. wg 3 in. wg (0.25 kPa) (.75 kPa)		
12 in.	5.7	5.1	
24 in.	4	5.4	

Vertical Down Flow			
WDR-53	Leakage (cfm/ft²)		
Damper Diameter	1 in. wg (0.25 kPa)	3 in. wg (.75 kPa)	
12 in.	9.4	5.8	
24 in.	3.9	5.5	

Horizontal Flow			
WDR-53	Leakage (cfm/ft²)		
Damper Diameter	1 in. wg (0.25 kPa)	3 in. wg (.75 kPa)	
12 in.	4.9	4.9	
24 in.	3.4	4.9	

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## **Document Links**

**Damper Warranty** 



Catalog



