

Smoke Damper

Motorized Damper / Control Damper



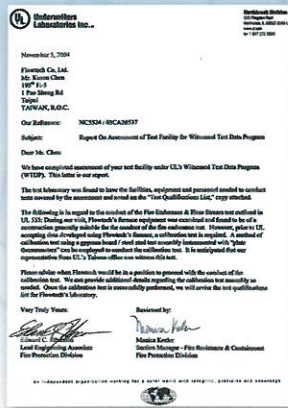


GLOBALLY RECOGNIZED CERTIFICATIONS AND STANDARDS

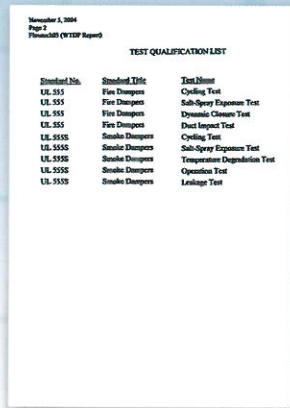


Ventilation Performance and Smoke management Laboratory

Any series of ventilation products such as fans, dampers required performance and quality requirements, can be provided by the laboratory for a full range of testing services. Technical requirements with an independent and impartial implementation for each test was supervision under by TAF, hence, all the domestic public works and fire safety related with ventilation products, do not have to shift the products to oversea for testing, and those owners and consultants would not have the trouble for witnessed commuting to foreign countries any more, this even saving more time and costs.



The only UL certification LAB. in ASIA.



TUV certificates



TAF LAB certificates



Fan Performance Testing Facility

Standards

- AMCA 210
- ISO 5801
- BS 848-1
- DIN 24163-2

Smoke Damper Leakage Testing Facility

Standards

- AMCA 500
- UL 555S
- ISO 10294
- GB 15930

Louver Pressure Drop Testing Facility

Standards

- AMCA 500

Silencer / Acoustical Louver Testing Facility

Standards

- ASTM-E477
- ISO 7235

Jet Fan Thrust Testing Facility

Standards

- ISO 13350
- BS 848-10

Fire Damper Testing Facility

Standards

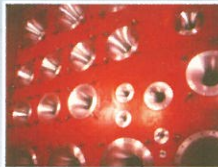
- UL 555

Standards

- AMCA 210
- AMCA 300
- AMCA 500
- AS 4429
- ASTM-E477
- ASHRAE 149
- DIN 24163-2
- BS 7346-2
- BS 848-1
- BS 848-2
- BS 848-10
- GA 211
- GB 15930
- EN 12101-3
- ISO 5801
- ISO 7235
- ISO 10294
- ISO 13350
- UL 555
- UL 555S



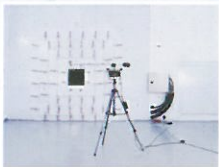
Exhaust Duct exit of Reverberant



Multiple Nozzles for Flow Measurement



Silencer in Exhaust Duct



Reverberant Room
360° Routing Microphone in Reverberant



Flow Straightener

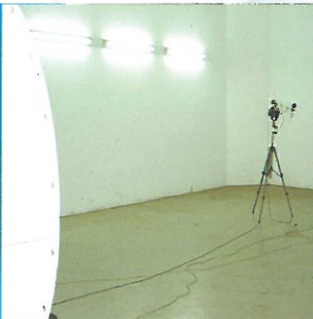


Figure 5.4-Leakage Test

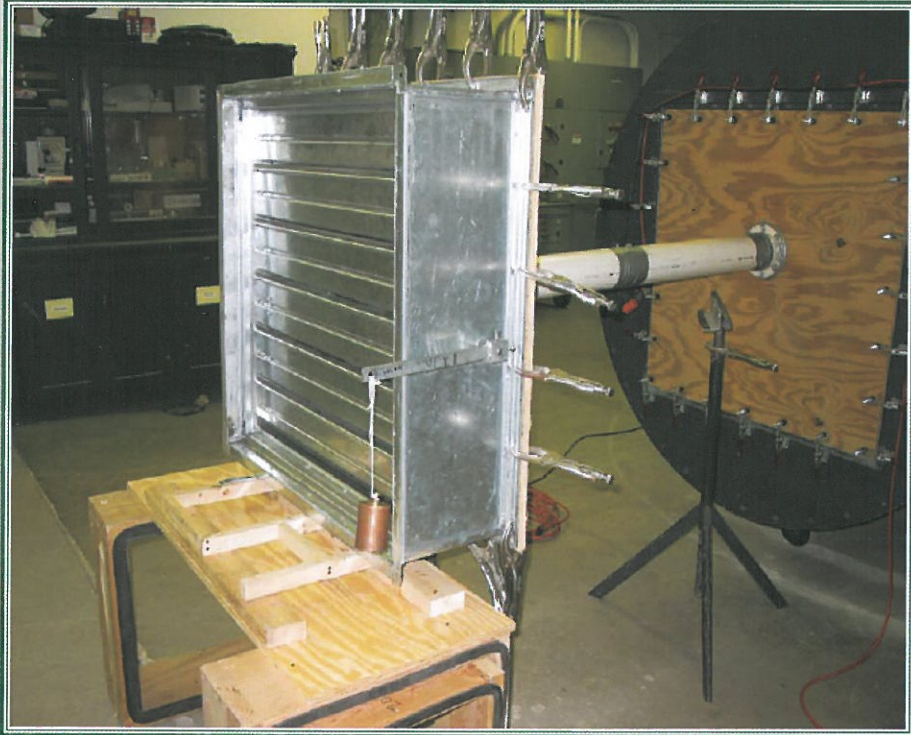
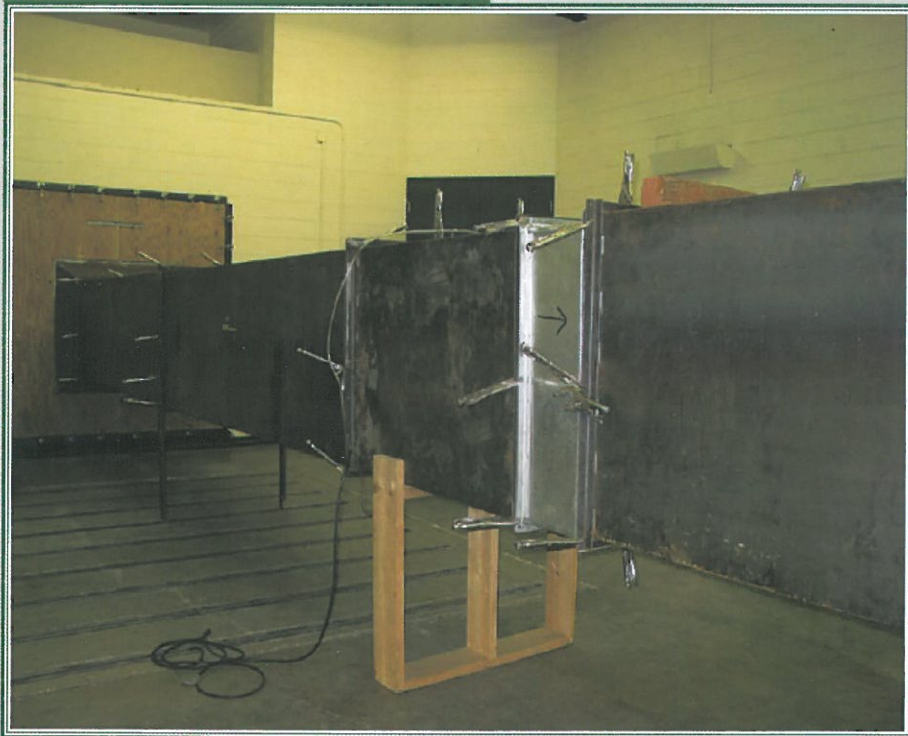


Figure 5.3-Ducted Intake Test



Smoke Damper

Motorized Damper / Control Damper



Application and design

The SD-11 smoke damper employs triple-V blades and hat channel frame for point-of origin control of smoke in static and dynamic smoke management systems. The SD-11 is qualified to 2,000 ft/min (10.2 m/s) and 4.in.wg. (1.0 kPa) and may be installed in, or adjacent to vertical walls or partitions, or horizontally in, or adjacent to floors or assemblies.

Both CD-11 control damper and MD-11 motorized damper application in the HVAC systems for automatic air control and manual balancing.

SD

CD

MD

A

B

C

-

D

E

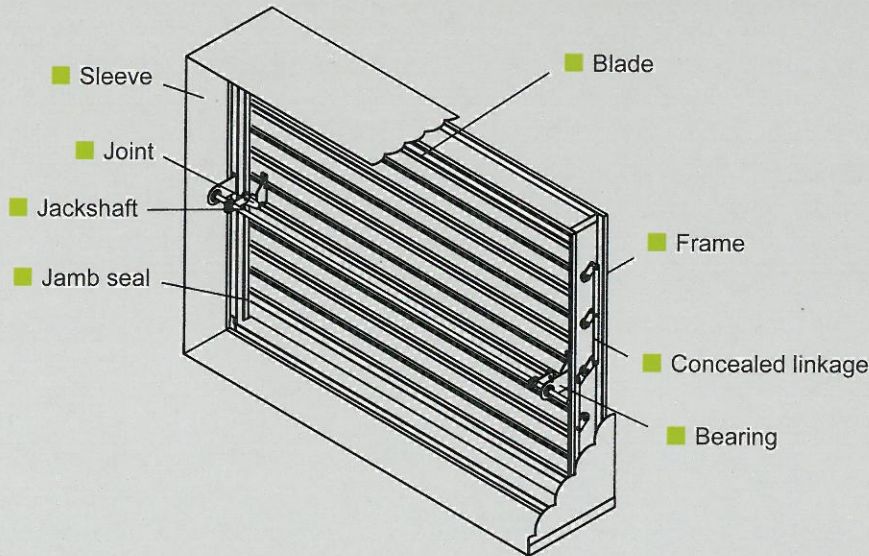
-

F

G

H

A. Product Type		F. Max. Velocity(For UL Recognize)	
SD	Smoke Damper	1	10.2m/s(2000 fpm)
CD	Control Damper		
MD	Motorized Damper		
B. Blade Type		2	15.2m/s(3000 fpm)
0.	None	3	20.2m/s(4000 fpm)
1.	Triple-V Blade	G. Max. Pressure(For UL Recognize)	
C. Air Leakage		A.	0.5 kPa (2 in-Wg)
1	Class I	B.	1.0 kPa (4 in-Wg)
2	Class II	C.	1.5 kPa (6 in-Wg)
3	Class III	H. Temperature(For UL Recognize)	
D. Fire Rating(For UL Recognize)		A.	74°C (165°F) operating
0	None	B.	100°C (212°F) operating
E. Mounting(For UL Recognize)		C.	121°C (250°F) operating
V	Vertical	D.	141°C (285°F) operating
M	Horizontal	E.	177°C (350°F) operating



Standard construction

- **Frame** : 5" × 1" (123mm×23mm) galvanized steel hat channel with interlocking corner gusset.
- **Blades** : 6" × 16 gauge (153mm×1.6mm) galvanized steel –triple–V.
- **Side-Plate** : 12" × 16 gauge (300mm×1.6mm) galvanized steel.
- **Jackshaft** : 1/2" (12.5mm) diameter plated steel hex.
- **Linkage** : Concealed in frame.
- **Bearings** : Stainless steel oilite, sleeve-type.
- **Seals** : Silicone blade edge seals and flexible metal mount.
- **Minimum Size** : 12" × 12" (305mm × 305mm)
Maximum Size : 48" × 48" (1220 x 1220 mm)
Multiple Size : 96" × 96" (2440 x 2440 mm)

For UL Certification

■ Ratings

UL 555 Fire Resistance Rating: 3 hour (vertical)

UL 555S Leakage Class: 1 [8 cfm/sq.ft. @ 4 in.wg.]
 [(0.04 m³/s/m² @ 1.0 kPa)]

Maximum Dynamic Closure Velocity: 2,000 fpm (10.2 m/s)

Maximum UL555S Rated Pressure: 6 in.wg. (1.5 kPa)

Maximum Temperature: 350°F (177°C)

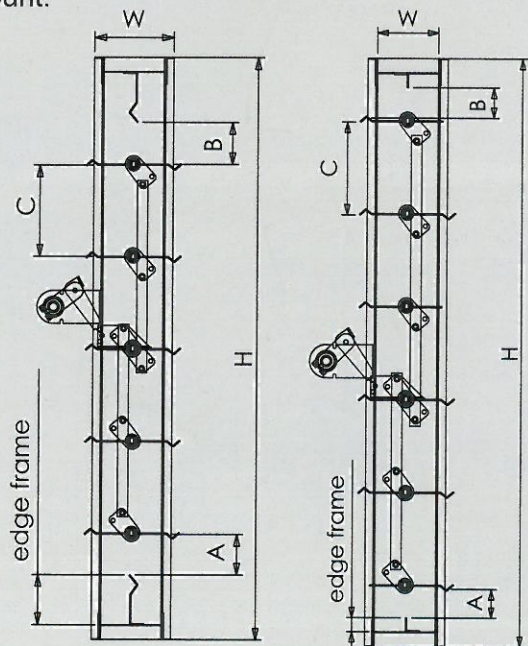
■ Listings

UL 555 and 555S listing: R26192

Meets NFPA Standards: 90A, 92A, 92B and 101

Minimum Size: 8" × 8" (203x203mm);

Maximum Size: 36" × 36" (914x914mm)



Type 1 \cong 914mm×914mm
(UL Certification)

Type 2 < 914mm×914mm

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Motorized Damper / Control Damper



Options

■ Alternate actuator

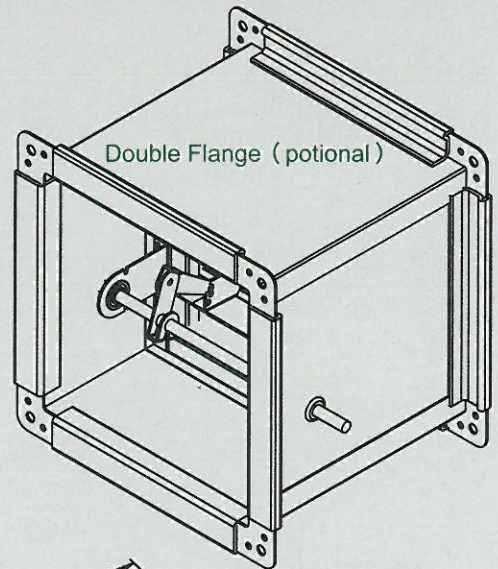
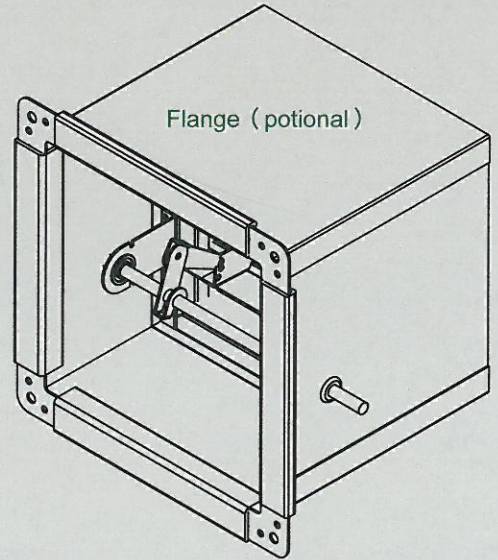
- 24V DC
- 110V AC
- 220V AC
- 7 N-m
- 13N-m
- 20N-m
- Other

■ Factory installed sleeve

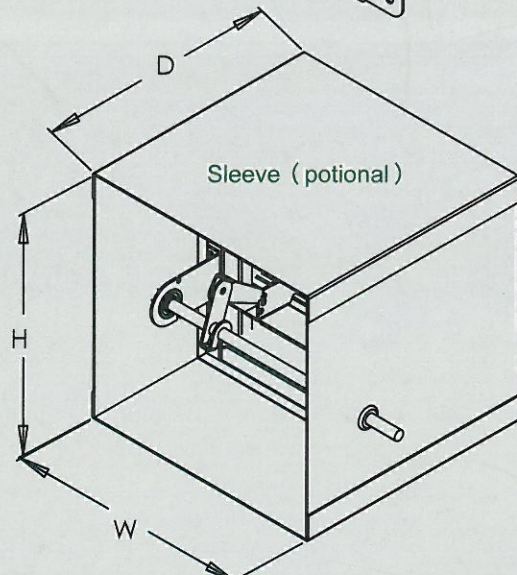
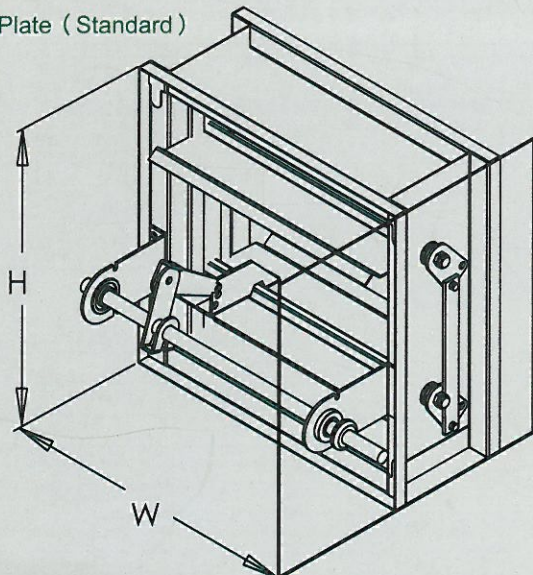
- Gauge: 19# (1.2mm) 16# (1.6mm)
- Length: 12" (305mm) 16" (406mm) Other

■ Factory installed

- Side plate (Standard)
- Flange
- Double Flange
- Sleeve



Side Plate (Standard)





THE FLOWTECH GROUP

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CNo. : SD-11(E) August 2014

AGENT :