



SMOKE DAMPER
LEAKAGE CLASS I OR II
STEEL • VEE BLADE
MODELS: 1260 AND 1261 (TYPE A)



QUALIFICATIONS:

- **UL 555S & CAN/ULC-S112.1 CLASSIFIED SMOKE DAMPER** Leakage Class I or II at 250°F or 350°F elevated temperature. (File # R9492)
- **Meets NFPA 90A, 92, 101 and 105 as well as IBC and NBC (Canada) Building Code requirements.**
- **City of New York. Board of Standards and Appeals. Cal. No. 460-88-SA.**
- **California State Fire Marshal: Fire Damper Listing No. 3225-0935:0107.**
- **Maximum velocity: 2000 fpm @ 4" w.g. (10 m/s @ 1 kPa).**

Model Series 1260 Dampers are ideal for applications where building codes require a leakage rated smoke damper as part of a static smoke control or dynamic smoke management system. The 1260 Series has been especially designed and tested to offer a rugged cost effective damper well suited to the majority of commercial applications. Qualified for vertical or horizontal installation with airflow in either direction.

STANDARD CONSTRUCTION:

- Frame:** 5" x 7/8" x 16 ga. (127 x 22 x 1.6) galv. steel hat channel.
Blades: 6" (152) wide on 5 1/2" (140) centers. 16 ga. (1.6) galvanized steel vee groove or double-skin design.
Linkage: Concealed in frame. 12 ga. (2.7) plated steel.
Bearings: 1/2" (13) dia. self-lubricating oilite bronze.
Axles: 1/2" (13) dia. plated steel double bolted to blades.
Jackshaft: 1/2" (13) dia. plated steel.
Jamb Seals: Stainless steel.
Blade Seals: Silicone on vee groove blade.

Sizes (Duct W x H):

Velocity/ Pressure Rating	Elevated Temp. °F	Minimum		Maximum	
		Single Section	Single Section	Multiple Section	
		Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal
24	250/350	8" x 8" (203 x 203)	36" x 48" (914 x 1219)	144" x 48" (3658 x 1219) or 36" x 96" (914 x 2438)	

Notes: Dampers with duct heights less than 8" (203) require a Type 'B' sleeve enclosure (Model 1262). Units less than 8" (203) in width require a Type 'C' enclosure (Model 1263).

BASE MODEL SELECTION:

- 1260** With actuator side mounting plate
- 1261** Standard factory sleeve 16" long x 20 ga. (406 x 1.0) (18 ga. for dampers over 84" [2134] in width).
- 1261** Non-standard sleeve. Specify _____ length _____ ga. Available up to 36" (914) dependent upon wall thickness and 10 through 20 ga. (3.5 through 1.0).

LEAKAGE CLASS / ELEVATED TEMPERATURE:

- I II @ 250°F (Standard)
- I II @ 350°F (Optional)

DYNAMIC VELOCITY/PRESSURE RATING:

- 24** 2000 fpm @ 4" w.g. (Standard)

ACTUATOR SELECTION:

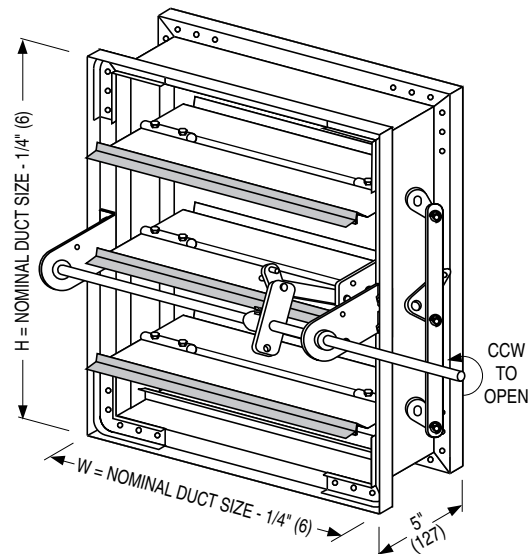
- Electric** **Pneumatic** Specify model _____.

SCHEDULE TYPE:

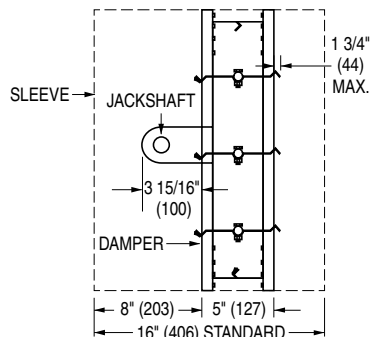
PROJECT:

ENGINEER:

CONTRACTOR:



MODEL 1260
(Side Mounting Plate/Sleeve not shown)



Wall Thickness	Minimum Sleeve Length
4 (102)	16 (406)
8 (203)	20 (508)
12 (305)	24 (610)
16 (406)	28 (711)

MODEL 1261:
TYPE A SLEEVE

ACTUATOR LOCATION:

- External** (std.) **Internal** (in the airstream)

ACTUATOR FAIL POSITION:

- Normally Closed** (std.) **Normally Open**

OPTIONS:

- BS** Stainless steel bearings
- MLS-300** Position indicator switch package
- DSDL** Low Flow Smoke Detector
- DSDN** No Flow Smoke Detector
- TDF1** Flange (one end)
- TDF2** Flange (both ends)
- Special features** _____.

For installation instructions, see IOM-SDINST.
 Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
10 - 11 - 24	1260	4 - 28 - 14	1260-1



SMOKE DAMPER
LEAKAGE CLASS I OR II
STEEL • VEE BLADE
MODEL: 1262 (TYPE B SLEEVE ENCLOSURE)



QUALIFICATIONS:

- **UL 555S & CAN/ULC-S112.1 CLASSIFIED SMOKE DAMPER Leakage Class I or II at 250°F or 350°F elevated temperature. (File # R9492)**
- **Meets NFPA 90A, 92, 101 and 105 as well as IBC and NBC (Canada) Building Code requirements.**
- **City of New York. Board of Standards and Appeals. Cal. No. 460-88-SA.**
- **California State Fire Marshal: Fire Damper Listing No. 3225-0935:0107.**
- **Maximum velocity: 2000 fpm @ 4" w.g. (10 m/s @ 1 kPa).**

Model Series 1260 Dampers are ideal for applications where building codes require a leakage rated smoke damper as part of a static smoke control or dynamic smoke management system. The 1260 Series has been especially designed and tested to offer a rugged cost effective damper well suited to the majority of commercial applications. Qualified for vertical or horizontal installation with airflow in either direction.

STANDARD CONSTRUCTION:

- Frame:** 5" x 7/8" x 16 ga. (127 x 22 x 1.6) galvanized steel hat channel.
- Blades:** 6" (152) wide on 5 1/2" (140) centers. 16 ga. (1.6) galvanized steel vee groove or double-skin design.
- Linkage:** Concealed in frame. 12 ga. (2.7) plated steel.
- Bearings:** 1/2" (13) dia. self-lubricating oilite bronze.
- Axles:** 1/2" (13) dia. plated steel double bolted to blades.
- Jackshaft:** 1/2" (13) dia. plated steel.
- Jamb Seals:** Stainless steel.
- Blade Seals:** Silicone on vee groove blade.

Sizes (Duct W x H):

Velocity/ Pressure Rating	Elevated Temp. °F	Minimum		Maximum	
		Single Section	Single Section	Multiple Section	
		Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal
24	250/350	8" x 4" (203 x 102) Overall damper height is 8" (203).	36" x 7 1/2" (914 x 191)	144" x 7 1/2" (3658 x 191)	

Notes: Dampers with duct heights less than 8" (203) require a Type 'B' sleeve enclosure (Model 1262). Units less than 8" (203) in width require a Type 'C' enclosure (Model 1263).

BASE MODEL SELECTION:

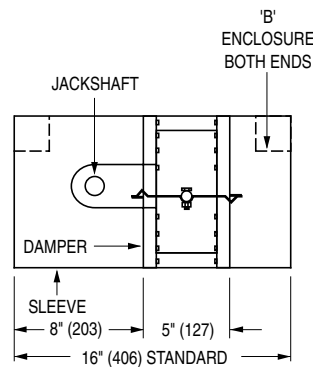
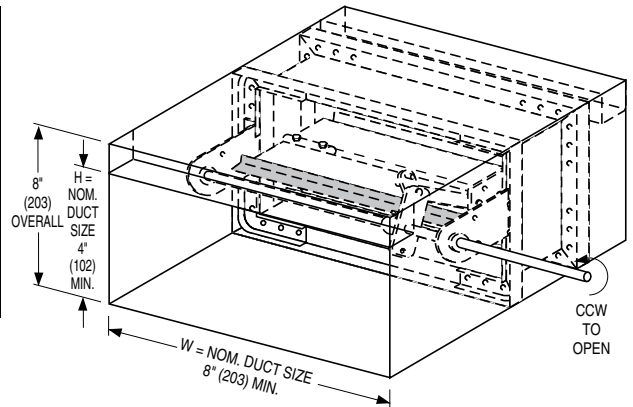
- 1262** Std. factory sleeve (caulked to UL requirements) 16" long x 20 ga. (406 x 1.0) (18 ga. for dampers over 84" [2134] in width).
- 1262** Non-standard sleeve. Specify _____ length _____ ga. Available up to 36" (914) dependent upon wall thickness and 10 through 20 ga. (3.5 through 1.0).

LEAKAGE CLASS / ELEVATED TEMPERATURE:

- I II @ 250°F (Standard)
- I II @ 350°F (Optional)

DYNAMIC VELOCITY/PRESSURE RATING:

- 24** 2000 fpm @ 4" w.g. (Standard)



Wall Thickness	Minimum Sleeve Length
4 (102)	16 (406)
8 (203)	20 (508)
12 (305)	24 (610)
16 (406)	28 (711)

ACTUATOR SELECTION:

- Electric** **Pneumatic** Specify model _____

ACTUATOR LOCATION:

- External** (std.) **Internal** (in the airstream)

ACTUATOR FAIL POSITION:

- Normally Closed** (std.) **Normally Open**

OPTIONS:

- BS** Stainless steel bearings
- MLS-300** Position indicator switch package
- Special features** _____

For installation instructions, see IOM-SDINST.
 Dimensions are in inches (mm).

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	10 - 11 - 24	1260	4 - 28 - 14	1260-2



SMOKE DAMPER
LEAKAGE CLASS I OR II
STEEL • VEE BLADE
ROUND DUCT CONNECTION
MODEL: 1263 (TYPE C SLEEVE ENCLOSURE)



QUALIFICATIONS:

- **UL 555S & CAN/ULC-S112.1 CLASSIFIED SMOKE DAMPER** Leakage Class I or II at 250°F or 350°F elevated temperature. (File # R9492)
- **Meets NFPA 90A, 92, 101 and 105 as well as IBC and NBC (Canada) Building Code requirements.**
- **City of New York. Board of Standards and Appeals. Cal. No. 460-88-SA.**
- **California State Fire Marshal: Fire Damper Listing No. 3225-0935:0107.**
- **Maximum velocity: 2000 fpm @ 4" w.g. (10 m/s @ 1 kPa).**

Model Series 1260 Dampers are ideal for applications where building codes require a leakage rated smoke damper as part of a static smoke control or dynamic smoke management system. The 1260 Series has been designed and tested to offer a rugged cost effective damper well suited to the majority of commercial applications. Qualified for vertical or horizontal installation with airflow in either direction.

STANDARD CONSTRUCTION:

- Frame:** 5" x 7/8" x 16 ga. (127 x 22 x 1.6) galvanized steel hat channel.
- Blades:** 6" (152) wide on 5 1/2" (140) centers. 16 ga. (1.6) galvanized steel vee groove or double-skin design.
- Linkage:** Concealed in frame. 12 ga. (2.7) plated steel.
- Bearings:** 1/2" (13) dia. self-lubricating oilite bronze.
- Axles:** 1/2" (13) dia. plated steel double bolted to blades.
- Jackshaft:** 1/2" (13) dia. plated steel.
- Jamb Seals:** Stainless steel.
- Blade Seals:** Silicone on vee groove blade.

Round Duct Connection Sizes (Duct Dia.):

Velocity/ Pressure Rating	Elevated Temp. °F	Minimum		Maximum	
		Single Section	Single Section	Multiple Section	
		Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal
24	250/350	4" (102) dia. Overall damper size is 8" x 8" (203 x 203) min.	34" (864) dia.	46" (1168) dia.	

Notes: Dampers with duct heights less than 8" (203) require a Type 'B' sleeve enclosure (Model 1262). Units less than 8" (203) in width require a Type 'C' enclosure (Model 1263).

BASE MODEL SELECTION:

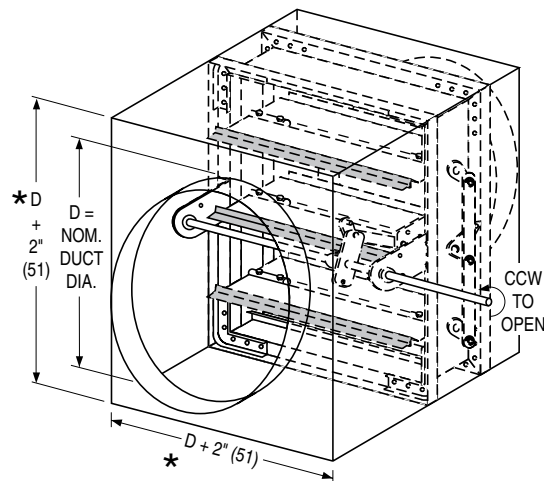
- 1263** Standard factory sleeve (caulked to UL requirements) 16" long x 20 ga. (406 x 1.0).
- 1263** Non-standard sleeve. Specify _____ length _____ ga. Available up to 36" (914) dependent upon wall thickness and 10 through 20 ga. (3.5 through 1.0).

LEAKAGE CLASS / ELEVATED TEMPERATURE:

- I II @ 250°F (Standard)
- I II @ 350°F (Optional)

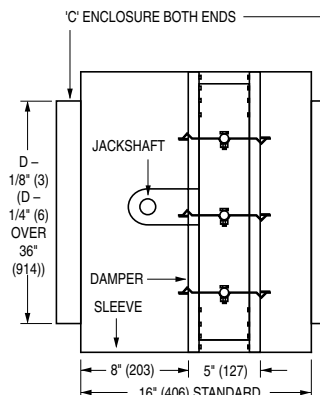
DYNAMIC VELOCITY/PRESSURE RATING:

- 24** 2000 fpm @ 4" w.g. (Standard)



* or 8" (203) min.

STYLE CR : FOR ROUND DUCT



Wall Thickness	Minimum Sleeve Length
4 (102)	16 (406)
8 (203)	20 (508)
12 (305)	24 (610)
16 (406)	28 (711)

ACTUATOR SELECTION:

- Electric Pneumatic Specify model _____

ACTUATOR LOCATION:

- External (std.) Internal (in the airstream)

ACTUATOR FAIL POSITION:

- Normally Closed (std.) Normally Open

OPTIONS:

- BS** Stainless steel bearings
- MLS-300** Position indicator switch package
- DSDL** Low Flow Smoke Detector
- DSDN** No Flow Smoke Detector
- Special features** _____

For installation instructions, see IOM-SDINST.
 Dimensions are in inches (mm).

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	10 - 11 - 24	1260	4 - 28 - 14	1260-3



SMOKE DAMPER
 LEAKAGE CLASS I OR II • STEEL • VEE BLADE
 SQUARE, RECTANGULAR OR OVAL DUCT
 CONNECTION
MODEL: 1263 (TYPE C SLEEVE ENCLOSURE)



QUALIFICATIONS:

- **UL 555S & CAN/ULC-S112.1 CLASSIFIED SMOKE DAMPER** Leakage Class I or II at 250°F or 350°F elevated temperature. (File # R9492)
- **Meets NFPA 90A, 92, 101 and 105 as well as IBC and NBC (Canada) Building Code requirements.**
- **City of New York. Board of Standards and Appeals. Cal. No. 460-88-SA.**
- **California State Fire Marshal: Fire Damper Listing No. 3225-0935:0107.**
- **Maximum velocity: 2000 fpm @ 4" w.g. (10 m/s @ 1 kPa).**

Model Series 1260 Dampers are ideal for applications where building codes require a leakage rated smoke damper as part of a static smoke control or dynamic smoke management system. The 1260 Series has been designed and tested to offer a rugged cost effective damper well suited to the majority of commercial applications. Qualified for vertical or horizontal installation with airflow in either direction.

STANDARD CONSTRUCTION:

- Frame:** 5" x 7/8" x 16 ga. (127 x 22 x 1.6) galvanized steel hat channel.
- Blades:** 6" (152) wide on 5 1/2" (140) centers. 16 ga. (1.6) galvanized steel vee groove or double-skin design.
- Linkage:** Concealed in frame. 12 ga. (2.7) plated steel.
- Bearings:** 1/2" (13) dia. self-lubricating oilite bronze.
- Axles:** 1/2" (13) dia. plated steel double bolted to blades.
- Jackshaft:** 1/2" (13) dia. plated steel.
- Jamb Seals:** Stainless steel.
- Blade Seals:** Silicone on vee groove blade.

Square, Rectangular or Oval Duct Connection Sizes (Duct W x H):

Velocity/ Pressure Rating	Elevated Temp. °F	Minimum		Maximum	
		Single Section		Multiple Section	
		Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal
24	250/350	4" x 4" (102 x 102) Overall damper size is 8" x 8" (203 x 203).	34" x 46" (864 x 1168)	142" x 46" (3607 x 1168) or 34" x 94" (864 x 2388)	

Notes: Dampers with duct heights less than 8" (203) require a Type 'B' sleeve enclosure (Model 1262). Units less than 8" (203) in width require a Type 'C' enclosure (Model 1263).

BASE MODEL SELECTION:

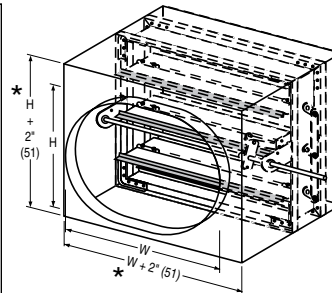
- 1263** Std. factory sleeve (caulked to UL requirements) 16" long x 20 ga. (406 x 1.0) (18 ga. for dampers over 84" [2134] in width).
- 1263** Non-standard sleeve. Specify _____ length _____ ga. Available up to 36" (914) dependent upon wall thickness and 10 through 20 ga. (3.5 through 1.0).

LEAKAGE CLASS / ELEVATED TEMPERATURE:

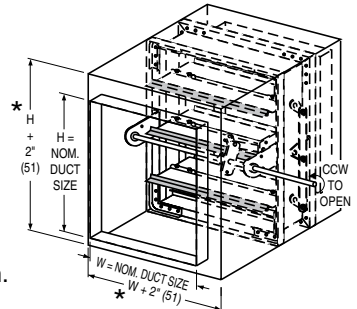
- I II @ 250°F (Standard)
- I II @ 350°F (Optional)

DYNAMIC VELOCITY/PRESSURE RATING:

- 24** 2000 fpm @ 4" w.g. (Standard)

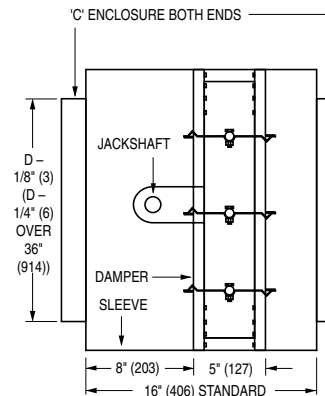


STYLE CO:
FOR OVAL DUCT



STYLE CSR : FOR SQUARE OR
RECTANGULAR DUCT

* or 8" (203) min.



Wall Thickness	Minimum Sleeve Length
4 (102)	16 (406)
8 (203)	20 (508)
12 (305)	24 (610)
16 (406)	28 (711)

ACTUATOR SELECTION:

- Electric** **Pneumatic** Specify model _____ .

ACTUATOR LOCATION:

- External** (std.) **Internal** (in the airstream)

ACTUATOR FAIL POSITION:

- Normally Closed** (std.) **Normally Open**

OPTIONS:

- BS** Stainless steel bearings
- MLS-300** Position indicator switch package
- DSDL** Low Flow Smoke Detector
- DSDN** No Flow Smoke Detector
- Special features** _____ .

For installation instructions, see IOM-SDINST.
Dimensions are in inches (mm).

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	10 - 11 - 24	1260	4 - 28 - 14	1260-4

DAMPER TEST SWITCH

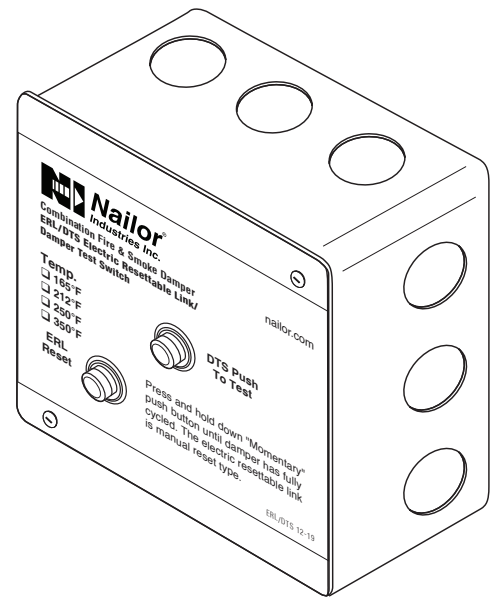
FOR USE WITH ALL SMOKE AND COMBINATION FIRE/SMOKE DAMPERS

MODEL: DTS

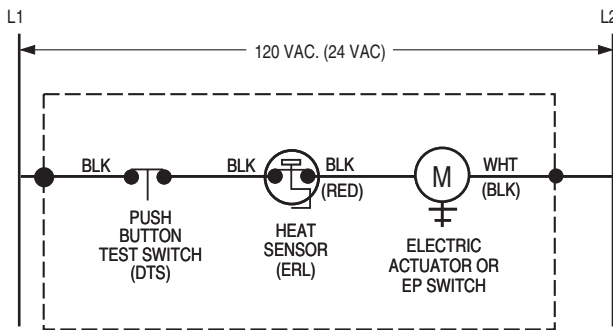
The DTS (Damper Test Switch) is an optional "momentary" push button test switch available on all Nailor smoke and combination fire/smoke dampers. The DTS provides the ability to "cycle test" the damper by pushing and holding down the button until the damper has cycled and closure has been visually verified, either by inspecting the damper through the access door or by confirmation at a remote control panel when equipped with the optional MLS-300 position indicator.

The DTS is mounted right on the damper and enables a single maintenance person to test and cycle the damper, eliminating the need for help from another person in the control room.

When a combination fire/smoke damper is ordered, the DTS is combined with the ERL (Electric Resettable Link), in a common enclosure.



WIRING DIAGRAMS:



MOUNTED ON DAMPER (FACTORY WIRING TERMINATES AT SPLICE POINTS INDICATED INSIDE 4" x 4" ELECTRICAL BOX)

Figure 1. DTS/ERL Damper Test Switch with Electric Resettable Link

Belimo Actuator Aux. Switch Wiring Connections

Model Series	Open (OP)	Closed (CL)
FSTF	Orange / Gray	Violet / Red
FSLF / FSAFA	Gray / Gray	Violet / Violet
FSNF / FSAFB	White S4 / S6	White S1 / S2

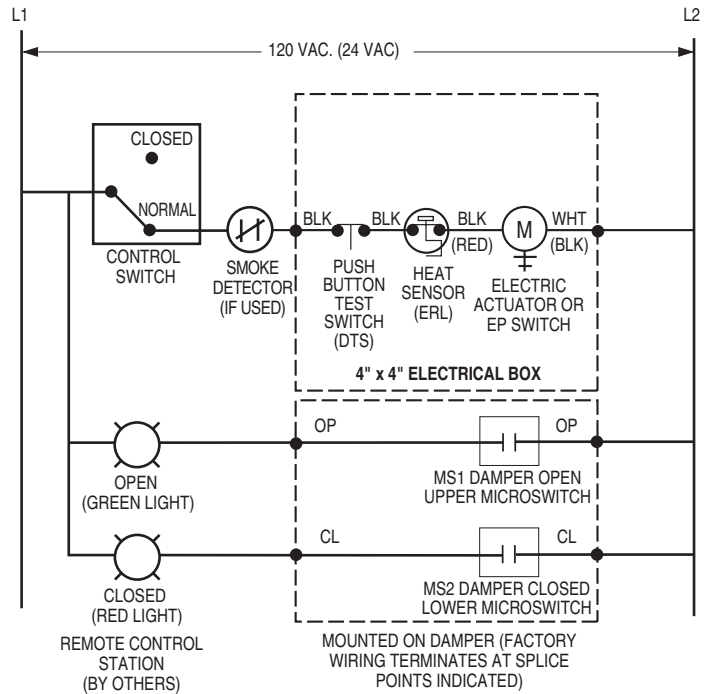


Figure 2. DTS/ERL with MLS-300 Belimo (actuator aux. switches) Position Indicator Package

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

DATE

B SERIES

SUPERSEDES

DRAWING NO.

9 - 3 - 20

FD-ACC

3 - 29 - 18

DTS

WIRING DIAGRAMS:

Honeywell Actuator Aux. Switch Wiring Connections

Model Series	Open (OP)	Closed (CL)
MSXX04	Yellow / Yellow	Blue / Blue
MSXX20	Yellow / Yellow	Blue / Blue

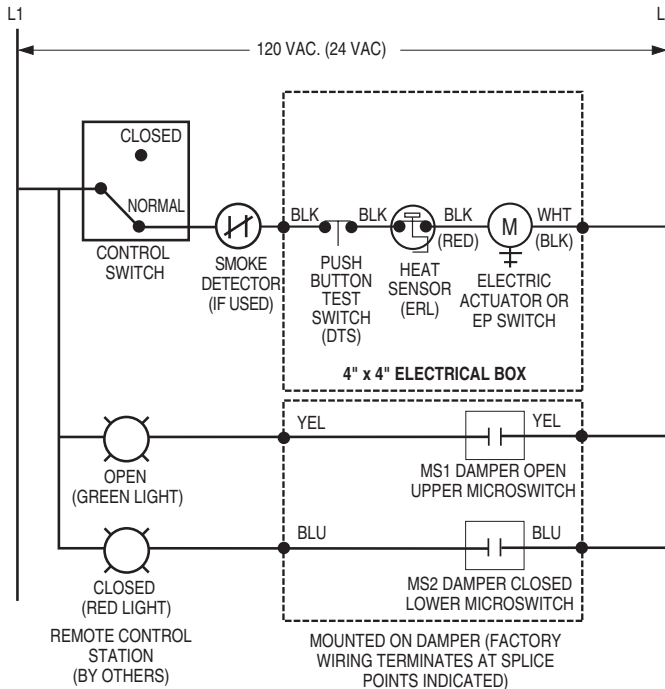


Figure 3. DTS/ERL with MLS-300 Nailor or Honeywell (actuator aux. switches) Position Indicator Package

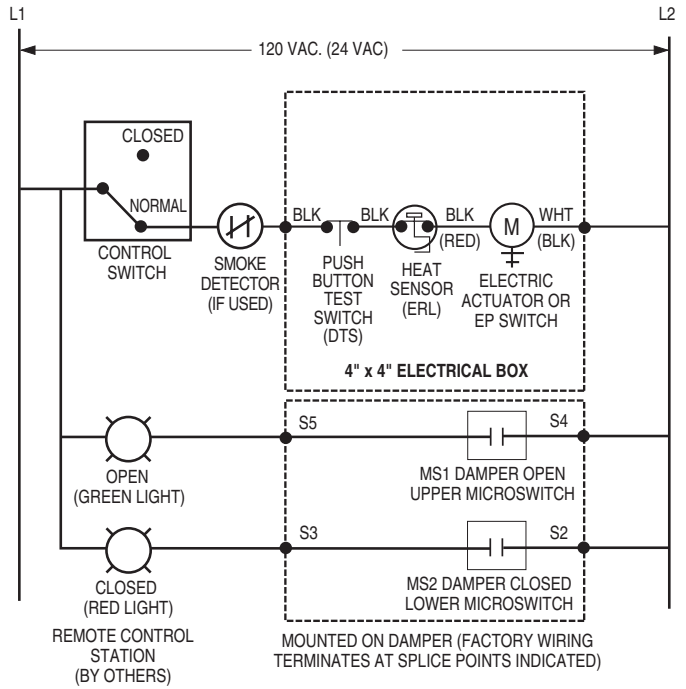
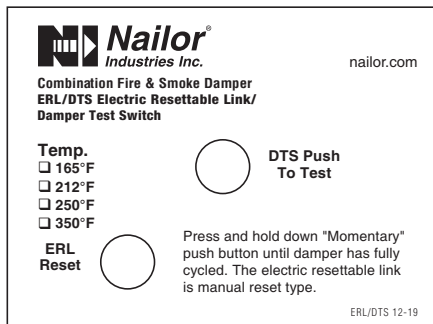
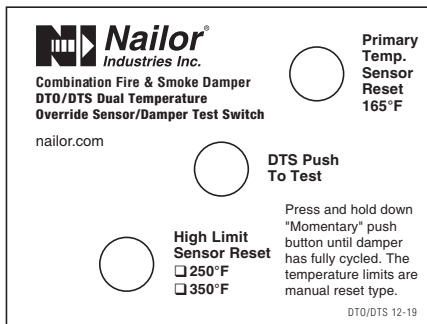


Figure 4. DTS/ERL with MLS-300 Siemens GJD Series (actuator auxiliary switches) Position Indicator Package

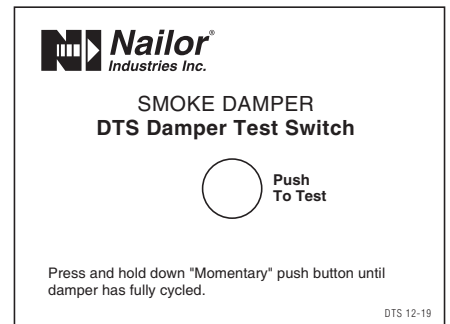
DTS LABEL VARIATIONS:



ERL/DTS Combination Fire/Smoke Damper



DTO/DTS Combination Fire/Smoke Damper



DTS Smoke Damper

SCHEDULE TYPE

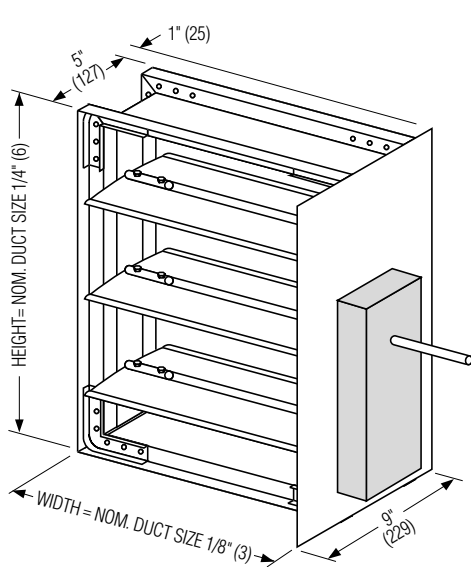
PROJECT

ENGINEER

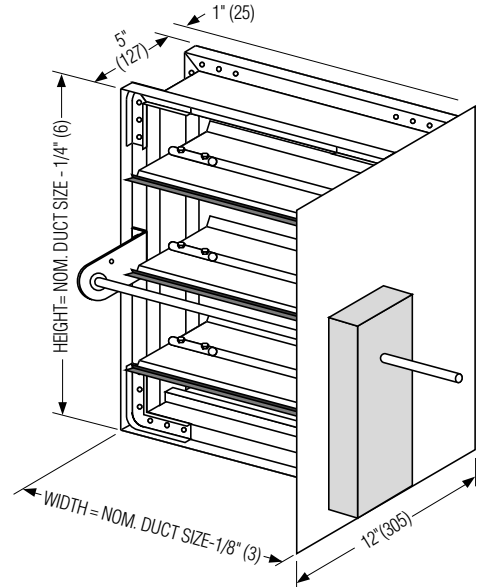
CONTRACTOR



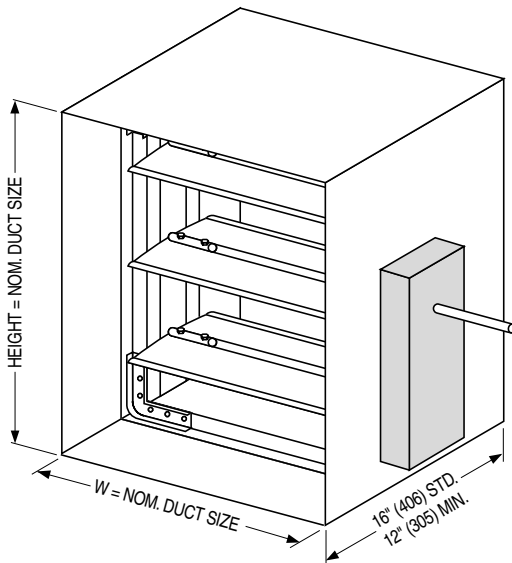
**SMP SIDE ACTUATOR MOUNTING PLATE
AND TYPE 'A' SLEEVE DETAIL
SMOKE DAMPERS
MODEL SERIES: 1210, 1260 AND 1280**



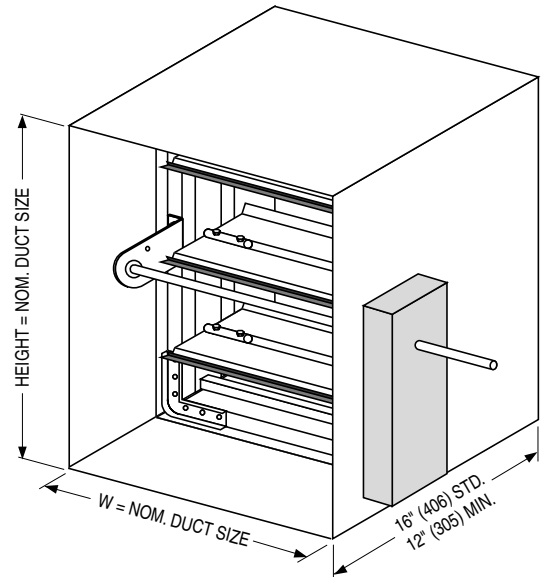
**SMP SIDE ACTUATOR MOUNTING PLATE
DIRECT DRIVE MODELS**



**SMP SIDE ACTUATOR MOUNTING PLATE
JACKSHAFT DRIVE MODELS**



**TYPE 'A' SLEEVE
DIRECT DRIVE MODELS**



**TYPE 'A' SLEEVE
JACKSHAFT DRIVE MODELS**

NOTE:

Smoke Dampers shall be installed in accordance with NFPA 90A, latest edition and Nailor installation instructions – see IOM-SDINST. Dampers must be installed within 24" (610) of the smoke barrier to conform with installation requirements.

SCHEDULE TYPE:		Dimensions are in inches (mm).			
PROJECT:					
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	11 - 4 - 13	1200	9-00R/1200-11	SMP-SL-1	

PERFORMANCE DATA:

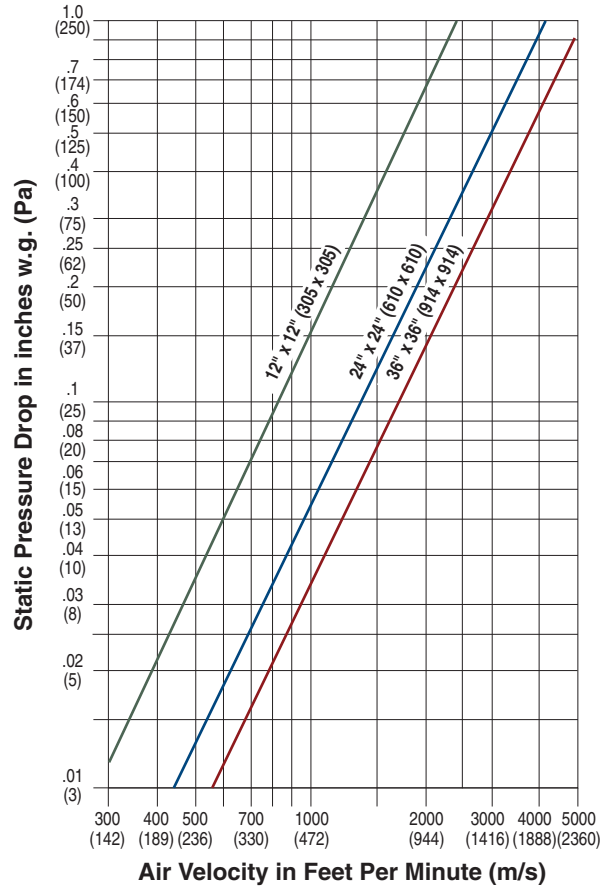
MODEL SERIES: 1260

LEAKAGE CLASS:

The 1260 Series Smoke Damper has been designed and qualified under UL 555S in order to provide maximum system design flexibility. It is available with a Class I or Class II leakage rating with all damper/actuator assemblies having been tested successfully at an elevated temperature of 250°F (121°C) or 350°F (177°C) under airflow of 2000 fpm (10 m/s) at 4" w.g. (1 kPa).

Maximum Performance Ratings	
UL 555S Leakage Rating	Class I
Maximum Velocity	2000 fpm (10 m/s)
Maximum Pressure	4 in. w.g. (1 kPa)
Maximum Temperature	350°F (177°C)

PRESSURE DROP:



Pressure drop tested per AMCA Standard 500-D, Figure 5.3.
Data corrected to standard air density of 0.075 lbs/ft.³.