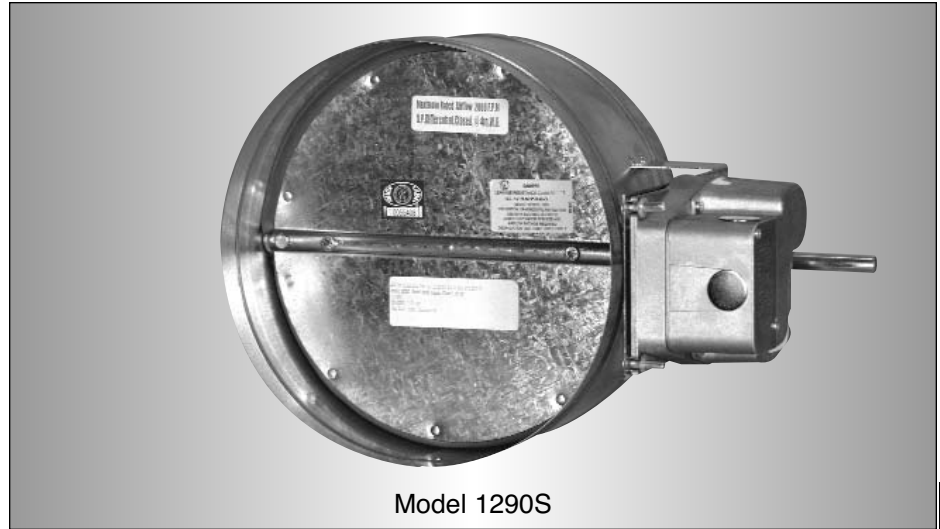


- UL 555S CLASSIFIED SMOKE DAMPER
- CLASS I AT 350°F
- TRUE ROUND DESIGN
- FOR STATIC OR DYNAMIC SYSTEMS

MODEL: 1290S



Nailor's Model 1290S is ideal for applications where building codes require a leakage rated smoke damper for operational smoke control in static or dynamic smoke management systems. The 1290S damper is an economical true round smoke damper designed and qualified for round ductwork. Features include a sturdy beaded casing for superior rigidity and a laminated blade that is double bolted to axles for positive connection. The 1290S smoke damper offers the lowest leakage class available and is qualified for installation with airflow in either direction.

UL

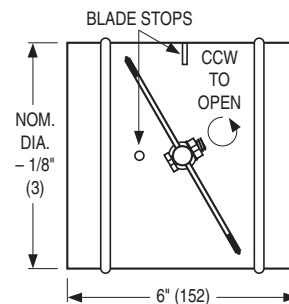
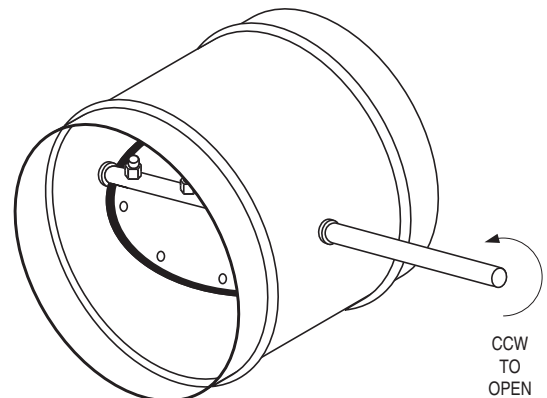
SMOKE DAMPERS

QUALIFICATIONS:

- UL 555S Classified Smoke Damper (File # 9492).
- Leakage Class I at 350°F Elevated Temperature.
- For use in Static or Dynamic Smoke Control Systems.
- Meets NFPA 90A, NFPA 92A, BOCA, SBCCI, UBC, and IBC requirements.
- Maximum velocity of 2000 fpm (10 m/s) @4" w.g. (1kPa).

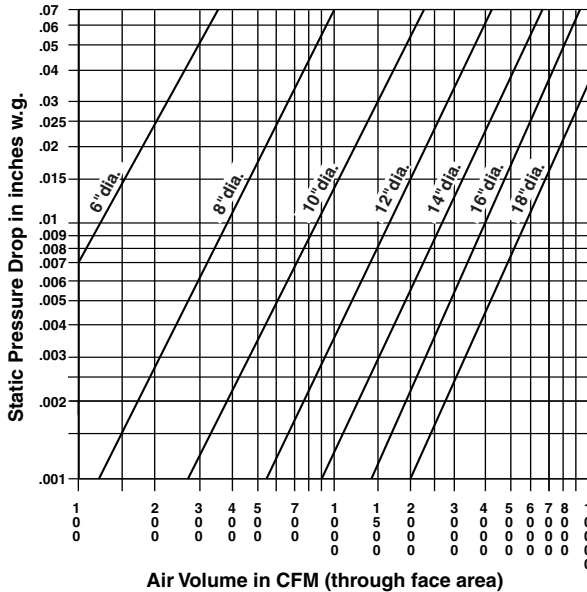
CONSTRUCTION DETAILS:

- FRAME:** 20 gauge (1.0) galvanized steel integral sleeve.
- BLADES:** 2 x 20 gauge (1.0) galvanized steel laminated together, 14 gauge (2.0) equivalent thickness.
- BEARINGS:** 1/2" (13) dia. self-lubricating oilite bronze.
- DRIVE SHAFT/ AXLES:** 1/2" (13) dia. plated steel double bolted to blade. Drive shaft extends approx. 6" (152) beyond frame.
- BLADE SEAL:** Silicone rubber. Peripheral gasket sandwiched between two piece blade.
- AVAILABLE SIZES:** 6" (152) through 24" (610) diameter in nominal 2" (51) increments.
Vertical or horizontal installation.



PERFORMANCE DATA:

PRESSURE DROP (damper fully open)



Imperial figures shown.
To convert to SI (metric) system:

Multiply:

CFM x .4719 = liters per second

inches w.g. x .2486 = kilopascals

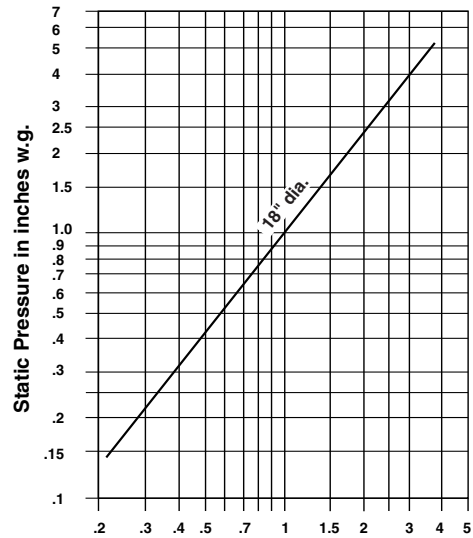
fpm x .00508 = meters per second

cfm per sq. ft. x 5.08 = liters/second per sq. meter.

Air Volume in CFM (through face area)

Tested per AMCA Standard 500-D, Fig. 5.3.

AIR LEAKAGE (damper closed)



Air Leakage in CFM/sq. ft. (through face area)

Tested per AMCA Standard 500-D, Fig. 5.5.

SMOKE DAMPERS

HOW TO SPECIFY

MODEL: 1290S

SUGGESTED SPECIFICATION:

Provide and install, as shown on plans and/or schedules, Round Smoke Dampers, as manufactured by Nailor Industries, meeting or exceeding the following criteria: Frame/integral sleeve shall be roll-formed from 20 ga. (1.0) galvanized steel, beaded for structural strength. Blade shall be of two 20 ga. (1.0) galvanized steel pieces laminated together with an equivalent thickness of 14 ga. (2.0). Blade seal shall be silicone rubber sandwiched between blade pieces and shall completely encircle blade periphery. Blade axles shall be 1/2" (13) dia. plated steel double bolted to blade. Hex or square friction-fit or press-fit axles are not acceptable. Bearings shall be self-lubricating oilite bronze type.

Dampers shall meet the requirements of NFPA 90A and 92A and shall be classified as a Class I Leakage Rated (Smoke) Damper under UL 555S at an elevated temperature of 350°F (177°C) and each damper shall bear a UL label verifying same. Dampers shall be suitable for use in dynamic or static smoke control systems. Dampers shall have been operation tested by UL to a minimum rated airflow of 2000 fpm (10.16 m/s) velocity with blades fully open, at a rated static pressure differential of 4 in. w.g. (1kPa) with blades fully closed. Appropriate electric **or** pneumatic (**specifier select one**) actuators shall be factory installed by damper manufacturer and shall have been tested and classified together under UL 555S at an elevated temperature of 350°F (177°C). Actuators shall incorporate an OEM internal spring-return mechanisms. External after-market spring mechanisms are not acceptable. Damper and actuator assembly shall be factory cycled a minimum of three times to ensure correct operation.

Damper manufacturer shall submit independent test data verifying pressure drop, leakage characteristics and airflow conditions.

Standard of acceptance: Nailor Industries Model 1290S.

ROUND SMOKE DAMPER

MODEL: 1290S

VARIABLES / ACCESSORIES

VARIABLES:	CODE	DESCRIPTION
ACTUATORS:	MS4 MS8 296	Honeywell MS4X09 (120 VAC) Honeywell MS8X09 (24 VAC) Siemens 331-2961 (25 psi)
ACCESSORIES	CODE	DESCRIPTION
POSITION INDICATOR: E. P. SWITCH:	300 EP1 EP2	MLS-300 Switch Pack 120 VAC Siemens 2651008 24 VAC Siemens 2651007

HOW TO ORDER

ROUND SMOKE DAMPER

MODEL: 1290S

HOW TO ORDER:

Select model number and size, then select from each variable. Choose accessories as desired. See above for description of variables and accessories.

MODEL	SIZE (DIA.)	ACTUATOR	ACCESSORIES
1290S	ie: 12" or 304(mm) dia.	MS4 MS8 296	300 EP1 EP2