

Modulating Fire/Smoke Damper – Model 772M & 772M-3 CLASS II
***772M (1-1/2 hr.) rated *772M-3 (3 hr.) rated**

Features – U.L. rated for dynamic closure & leakage CLASS II @ 350°F (176°C), for use in a 2 hour wall or partition. Meets NFPA 90A & UL555 & UL555S. Meets California State Fire Marshal requirements.

STANDARD CONSTRUCTION

FRAME

4-5/16" (110) deep, 16 gauge (1.6) galvanized steel

BLADES

6" (152) wide, 16 gauge (1.6) galvanized steel
 (Bottom blade width may vary depending on damper height)

BLADE AXLES & BEARINGS

AXLES – 7/16"(11) Plated hex
 BEARINGS – Bronze oil impregnated

LINKAGE

Plated steel in opposed blade configuration, concealed inside of jamb.
 Operator shaft is 1/2" (13) steel rod extending 4-1/2" (114) from damper side

SEALS

Silicone blade edge and stainless steel jamb seals

MAXIMUM UL CLASSIFIED LEAKAGE CLASS II SIZES

772 - 36" W x 48"H (914 x 1219)

772-3 – 36"W x 36"H (914 x 914)

MULTIPLE SECTIONS

Maximum Multiple Size is 144"w x 48"h (3658 x 1219) in one common sleeve with one actuator on each section (Dynamic Rated)
 Available also in 144"w x 96"h (3658 x 2438) (Static Rated)

MINIMUM UL CLASSIFIED LEAKAGE CLASS II SIZE

8"W x 6"H (203 x 152)

SLEEVE

18 ga. x 16" (1.3 x 406) deep galvanized steel

UNDERSIZED

1/4" (102) under ordered size unless specified Exact or Actual

FINISH

Galvanized

FUSIBLE LINK ASSEMBLY

165° F (73°C)

OPERATOR

Pneumatic

OPTIONAL CONSTRUCTION

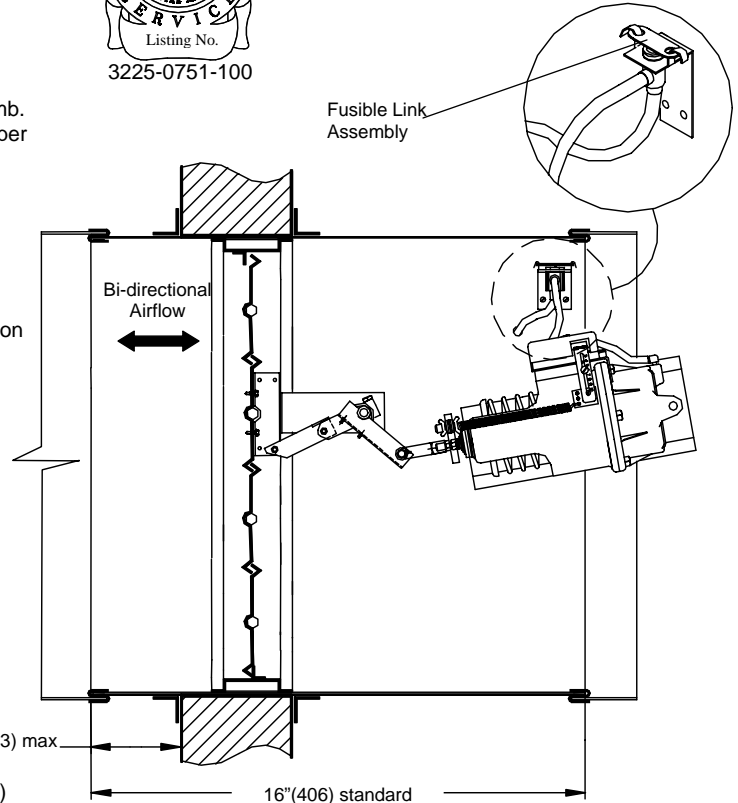
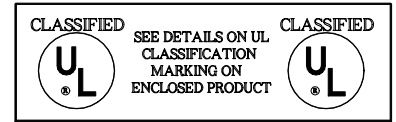
SPECIFIED MATERIAL – Available in Stainless

SLEEVE AND DUCTWORK CONNECTION – 10 ga.(3.5) to 20 ga.(1.0) galvanized steel to 30" (762) in length. – Transitions available in: round, oval, rectangular or custom. Factory can install access door, retaining angles, or flange connections.

*Dampers 11" (279) high and under will be a single blade, and extend from the frame proportionately

ACCESSORIES

- Smoke Detector
- Indicator Switches
- Monitoring Station



APPROVED ACTUATOR

332-2792 Pneumatic - Siemens

DATE	ARCHITECT			ENGINEER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION



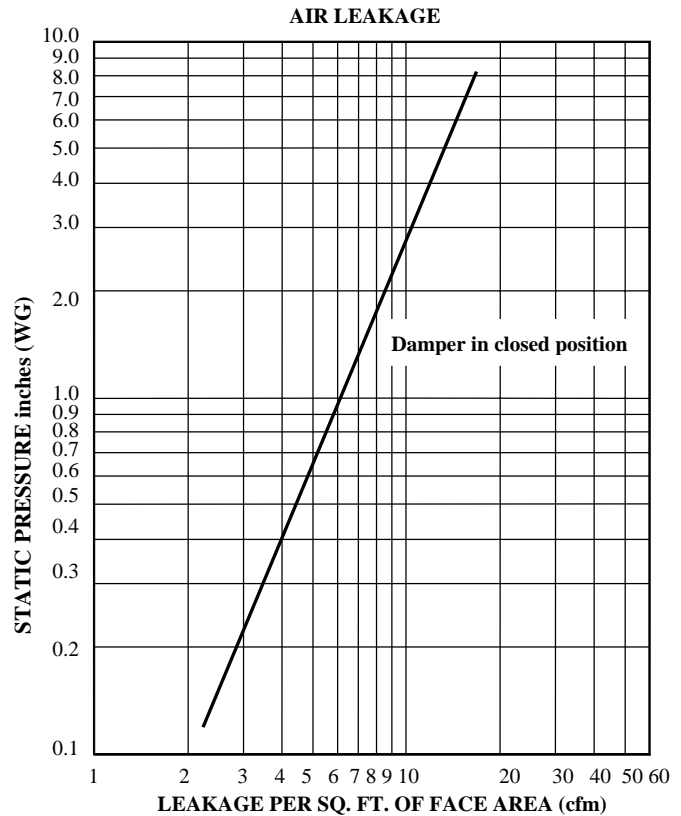
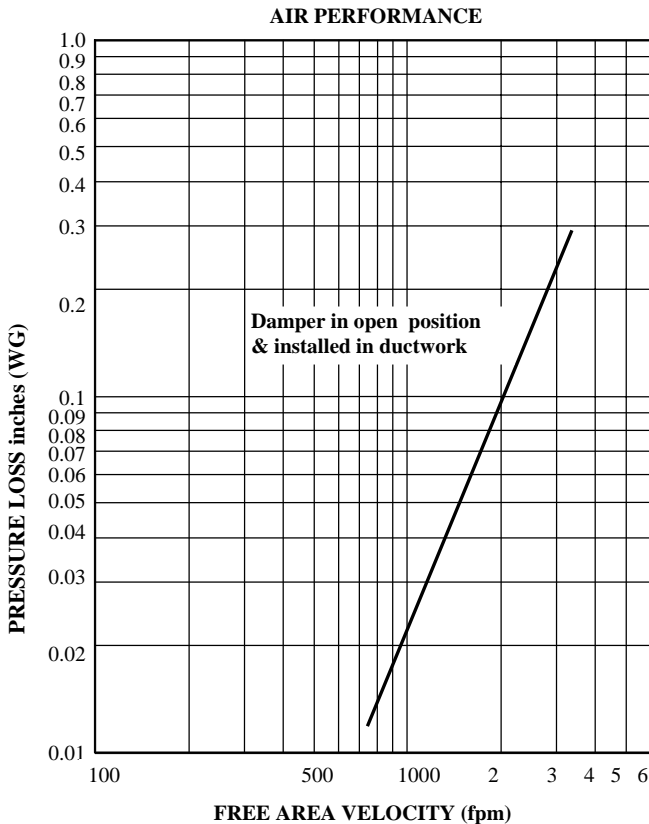
DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR OF ILLINOIS, INC.

Engineering and General Offices

1855 South 54th Avenue, Cicero, Illinois 60804

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The graph above shows the results of a 36" W x 48"H (914 x 1219) test sample.

CALCULATING PRESSURE LOSS:

Based upon a given flow rate (in CFM), the flowing pressure loss may be determined from the "air performance graph, knowing the sq. ft. of free area of the damper. Alternately, the free area may be determined based upon a volumetric flow rate and a maximum pressure loss. Utilizing the "air performance" graph.

_____ in. W.C. Max. Pressure Loss Intake or Exhaust
 _____ FPM (Free Area Velocity From "Air Performance" Graph)
 _____ CFM / _____ FPM Free Area Velocity = _____ Sq. Ft. Free Area

Model 772M (1-1/2 hr.) rated CLASS II
Model 772M-3 (3 hr.) rated CLASS II

FREE AREA CALCULATIONS IN SQ. FT.

		WIDTH						
		12	16	20	24	28	32	36
HEIGHT	12	0.56	0.78	1.00	1.22	1.44	1.67	1.89
	16	0.83	1.17	1.50	1.83	2.17	2.50	2.83
	20	1.06	1.48	1.91	2.33	2.75	3.18	3.60
	24	1.28	1.80	2.31	2.83	3.34	3.85	4.37
	28	1.51	2.11	2.72	3.32	3.93	4.53	5.14
	32	1.79	2.50	3.22	3.93	4.65	5.36	6.08
	36	2.01	2.82	3.63	4.43	5.24	6.04	6.85
	40	2.37	3.30	4.23	5.17	6.10	7.04	7.97
	44	2.60	3.63	4.66	5.68	6.71	7.74	8.77
48	2.84	3.96	5.08	6.20	7.32	8.44	9.56	

U. L. CLASSIFIED DYNAMIC CLOSURE RATING

Our maximum recommended operating for this damper is 2000 fpm @ 4" static pressure. This damper has been tested in accordance with the U.L. requirements for closure under installed " system in operation " conditions, (Dynamic closure).