

DEPENDABLE PRODUCTS SINCE 1955

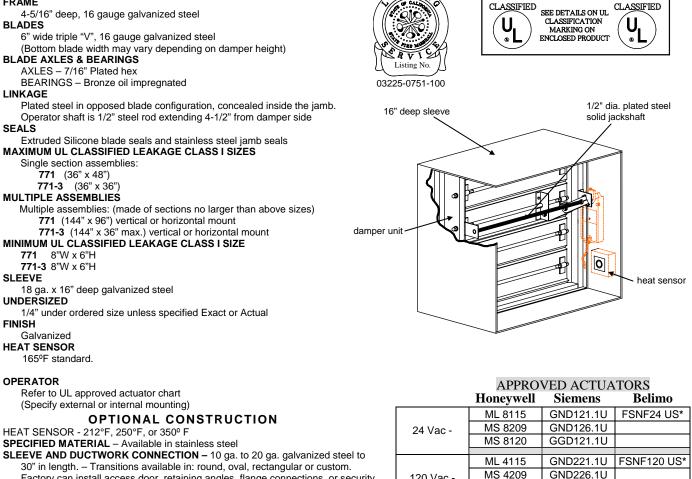
Fire/Smoke Damper – Model 771 & 771-3 CLASS I 771 (1-1/2 hr.) rated 771-3 (3 hr.) rated

Features - U.L. rated for static/dynamic closure & leakage CLASS I @ 350⁰ F, for use in a 771 (2-hour) and 771-3 (4-hour) wall or partition, for use in systems with velocities up to 2,000 FPM and pressure to 4" w.g. Meets NFPA 90A & UL555 & UL555S. Meets California State Fire Marshal requirements.

> Fire Damper ST/

STANDARD CONSTRUCTION

FRAME



Factory can install access door, retaining angles, flange connections, or security bars

Dampers 11" high and under will be single blade, and extend from the frame proportionately

ACCESSORIES

Smoke Detector Monitoring Station Indicator Switches **Dual Sensors**

DATE	ARCHIT	ECT		ENGINEER								
PROJECT												
ITEM	QTY	W	Н	DESCRIPTION								

	ML 8115	GND121.1U	FSNF24 US*	
24 Vac -	MS 8209	GND126.1U		
	MS 8120	GGD121.1U		
	ML 4115	GND221.1U	FSNF120 US*	
120 Vac -	MS 4209	GND226.1U		
	MS 4120	GGD221.1U		
000.14		GND321.1U		
230 Vac -		GGD321.1U		
Pneumatic –		331-2961		
(8-13 PSI)		331-3060		
(0-131 31)		331-4826		

* Only for dampers up to 24" x 24"

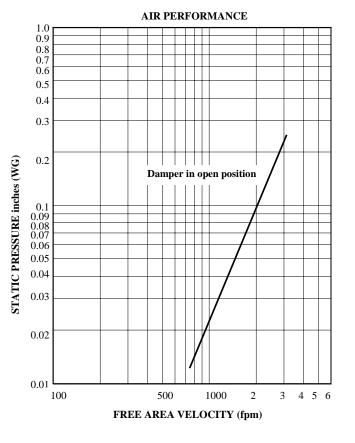


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SAFE-AIR OF ILLINOIS, INC.

Engineering and General Offices 1855 South 54th Avenue, Cicero, Illinois 60804 Phone 708-652-9100 FAX 708-652-9158

771 & 771-3 PERFORMANCE



3F2 • Alf

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

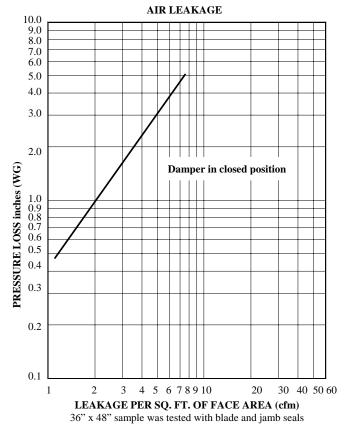
_____FPM (Free Area Velocity From "Air Performance" Graph)

_____CFM / _____ FPM Free Area Velocity = _____Sq. Ft. Free Area

Model 771 (1-1/2 hr.) rated CLASS I Model 771-3 (3 hr.) rated CLASS I

FREE AREA CALCULATIONS IN SQ. FT.

	WIDTH									
	Inches	12	16	20	24	28	32	36		
•	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		
H	24	1.28	1.80	2.31	2.83	3.34	3.85	4.37		
IG	28	1.51	2.11	2.72	3.32	3.93	4.53	5.14		
HEIGHT	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). Single sections 36"w x 48"h have been tested capable to close, mounted either vertical or horizontal, at 3000 fpm. @ 8" static pressure.