

UL 555/555S - Classified Motorized Fire Smoke Damper

B-20 Series

Type : Motorized Fire Smoke Damper
Model : MSFD-GSB-20C2-A/R
Fire Rating : 20 Series-1½ hour.
Leakage Rating : Class - II
Blade Type : 3V Single Skin; A : Parallel Operation
Construction : Galvanized Steel (GI) & Stainless Steel (SS)

MSFD B-20 Series is a high performance UL 555 / 555S Classified combination of fire and smoke damper with 1½hr. fire rating , installed vertically or horizontally (with blades running horizontally) and is rated for airflow and leakage Class-II leakage in either direction.



MSFD-GSB-20C2-A

UL-555S Test Ratings

Fire Rating : 1½ hrs. / 3 hrs
Leakage Rating : Class - II
Max Velocity : 2000 fpm
Temperature : 250 °F (121 °C)
Max Operating Pressure: 4 in. w.g (1000 pa)

Standard Construction

Frame
 16 gauge (1.4 mm - 1.7 mm) thick galvanized steel.
Blades
 Parallel operated 3 'V' type blade made of 16 gauge (1.4 mm - 1.7 mm) thick stainless steel.
Blade Seals
 Silicon rubber blade seals.
Jamb Seals
 Stainless steel.
Jack Shaft
 ½" x ½" (12 mm) Galvanized steel square shaft.
Thermal Response Device (TRD)
 165°F.

Actuator
 Honeywell (24V AC, 120V AC, 230V AC).
Sleeve
 Minimum 0.9 mm, single section is field or factory installed. Multiple section is factory installed. Sleeve thickness as per NFPA table 3-4.6.3.
Limit Switches
 For BMS open / close indication.

Optional Fittings

Retaining Angles
 1½" x 1½" x 16 gauge (40 x 40 x 1.5 mm).
Indicator
 Externally mounted open, close visible Indicator.
Push Button
 For manual reset of damper.
Transitions (R)
 Neck adapter for round duct connections.
Junction Box

Model : MSFD-GSB-20C2-A/R UL 555/555S Damper meets the required standards of SMACNA, NFPA, IBC, BOCA, ICBO, UL.

MSFD - B-20 Series-Model Details

Model	Material		Damper Operation	
	Frame	Blade	Standard	Optional
MSFD-GSB-20C2-A/R	GI	SS	FC	FO

Minimum Sleeve thickness for Breakeaway joints as per NFPA 90A Table 3-4.6.3

Air Duct Diameter or Maximum Width		Minimum sleeve thickness	
Inch	mm	Inch	gauge
12 or Less	305	0.018	26
13-30	330-762	0.024	24
31-54	787-1372	0.03	22
55-84	1397-2134	0.036	20
85 or more	2159	0.047	18

Actuator Location		Operating Voltage	
Standard	Optional	Standard	Optional
Left Side	Right side	230 V	120 V / 24 V

Actuator location standard: Left side from rear view (Jack shaft view)

Note :
 FC : Fail Close in the event of Fire
 FO : Fail Open in the event of Fire

WHILE ORDERING INDICATE THE DAMPER IS FC/FO (FAIL CLOSE / FAIL OPEN)

Optional Construction (UL Certification N/A)

Frame : Stainless Steel 16 gauge (304/316L)
Blade : Stainless Steel 16 gauge (304/316L)

Selected Products of the company have been Classified / Listed / Tested by various international testing authorities.



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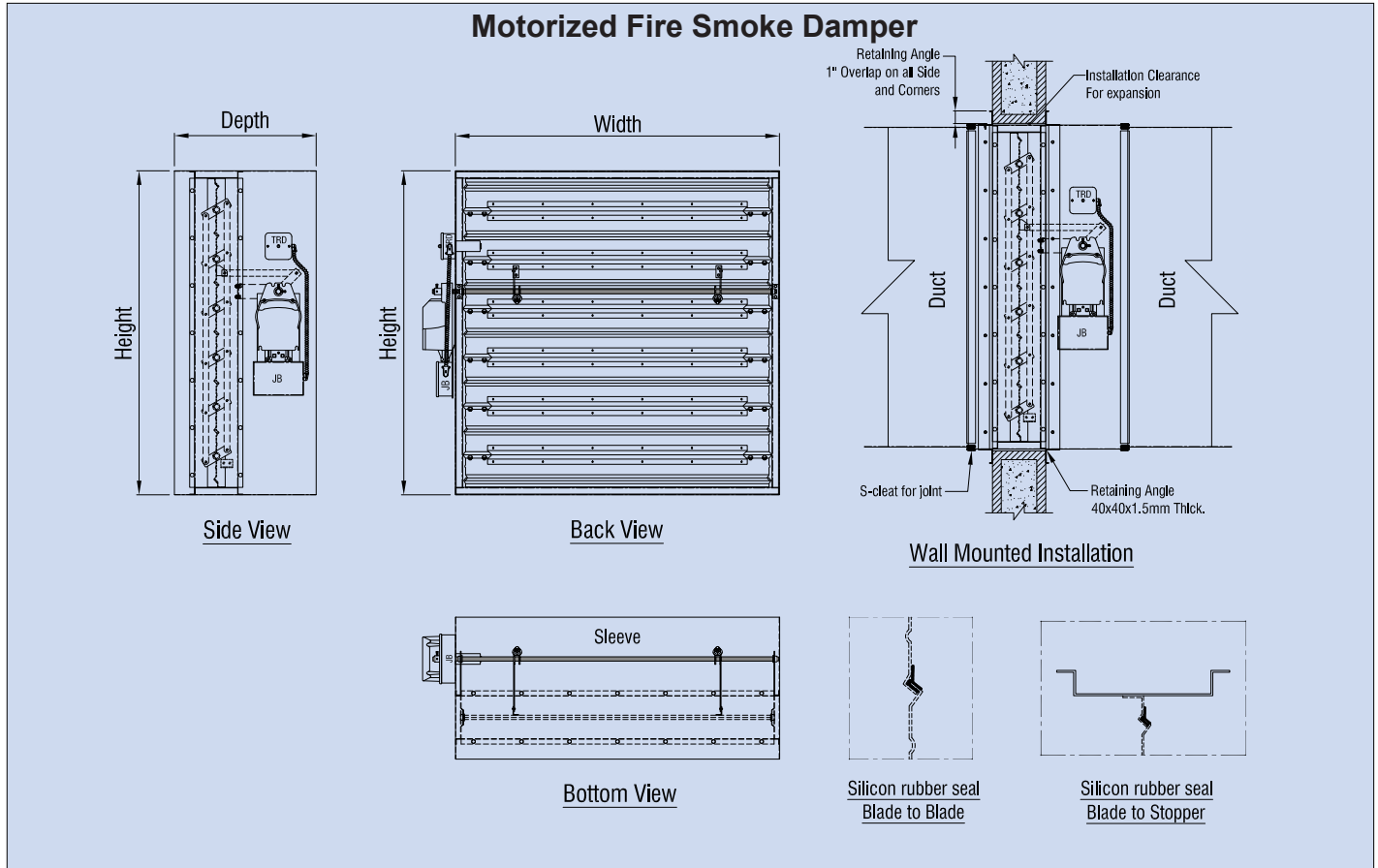
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UL Classified (see mark on product)
 UL Classified to American/Intl safety standards
 UL Standard 555 (Listing # R21925)

Size Limitation		
Module	Size : Width X Height	Mounting Position
Single	Min X Min. 9" x 9"	V/H
Single	Max X Max. 36" x 36"	V/H
Multiple	Max X Max 72" x 36"	V

Standard Sizes Any Combination of W x H			
Width (W)	Height (H)	Depth (D)	Module
9"	9"	16"	Single
10"	9"	16"	Single
10"	10"	16"	Single
12"	12"	16"	Single
16"	16"	16"	Single
20"	20"	16"	Single
24"	24"	16"	Single
30"	30"	16"	Single
36"	36"	16"	Single
72"	36"	16"	Multiple

Note : 9" x 9" - Sleeve will have reducer (with adopter neck)

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