

## UL 555S - Classified Motorized Smoke Damper

## B-20 Series

**Type** : Motorized Smoke Damper  
**Model** : MSD-GSB-20C2-A/R  
**Leakge Rating** : Class - II  
**Blade Type** : 3V Single Skin; A : Parallel Operation  
**Construction** : Galvanized Steel (GI) & Stainless Steel (SS)

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

### UL-555S Test Ratings

**Leakge 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.

#### 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).

#### Thermal Response Device (TRD)

165°F.

#### Indicator

Externally mounted open, close visible Indicator.

#### Push Button

For manual reset of damper.

#### Transitions (R)

Neck adapter for round duct connections.

#### Junction Box

#### Smoke Detector



MSD-GSB-20C2-A/R

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

### MSD - B-20 Series - Model Details

| Model            | Material |       | Damper Operation |          |
|------------------|----------|-------|------------------|----------|
|                  | Frame    | Blade | Standard         | Optional |
| MSD-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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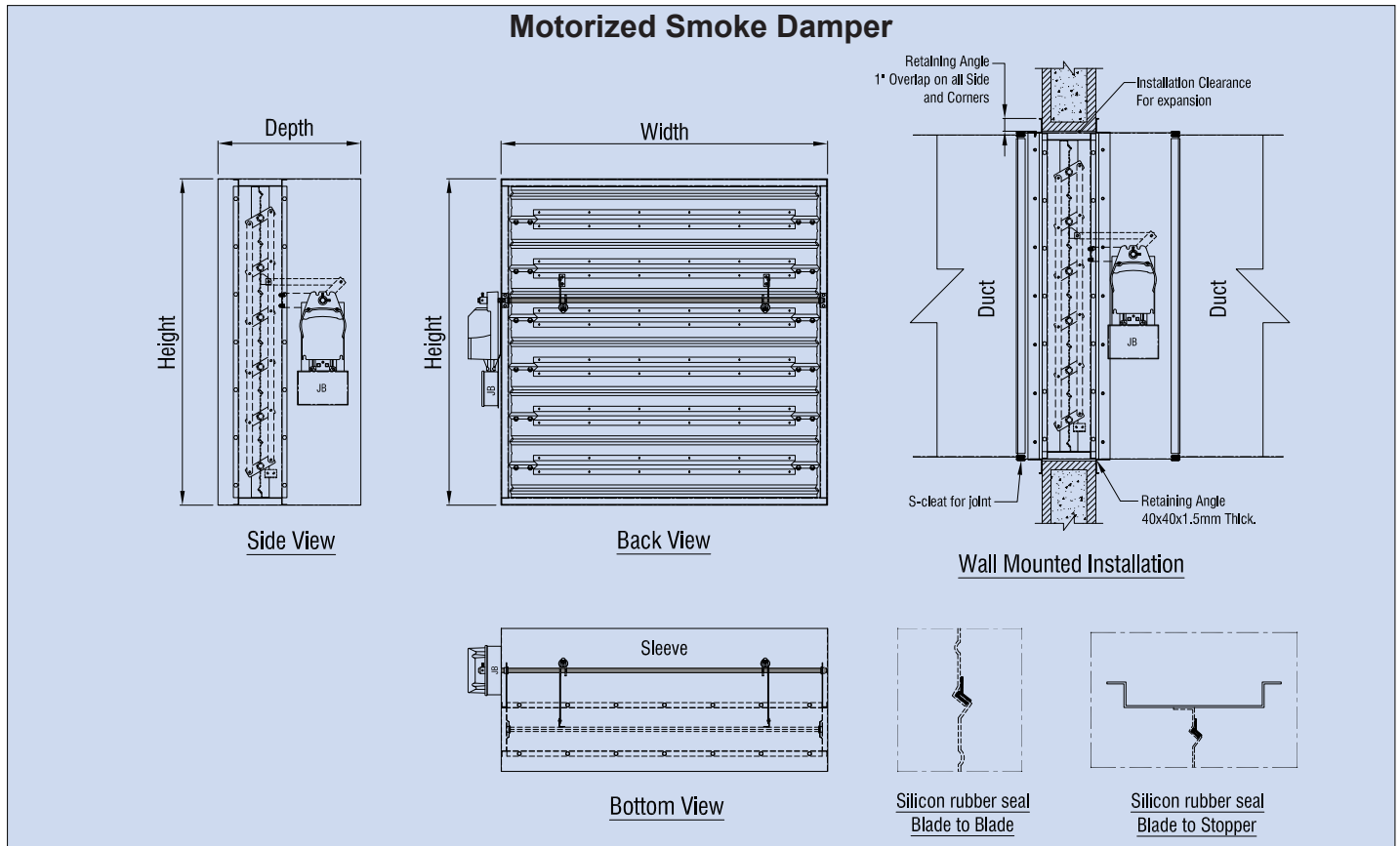

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Blade Type : 3V Single Skin; A : Parallel Operation

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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/H               |

| Standard Sizes<br>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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