### Standard Construction and Materials

**FRAME:** 5½" x ⅛" x 16 GA. galvanized steel hat channel. A flat head and sill are used for sizes through 13" high.

**BLADES:** 20 GA. galvanized steel double skinned (equal to 14 GA.), parallel action.

**AXLES:** Plated solid steel stub.

**BEARINGS:** Oil impregnated bronze.

**LINKAGE:** Plated steel angle and crank plates with stainless steel pivots, in-jamb type.

**STOPS:** 18 GA. galvanized steel at head and sill.

**BLADE SEALS:** Silicone.

**JAMB SEALS:** Stainless steel.

**SLEEVE:** Minimum 20 GA. galvanized steel by 18" long.

**CAULKING:** Hardcast Irongrip 601 or UL-listed equivalent.

**FINISH:** Mill.

**ACTUATOR:** 24VAC/DC electric with heat response device (EHRD) factory-installed for Power-Open/Power-Close (fail close) operation. External left hand mounted as viewed from jack shaft side of damper.

### Options

- Exact size (no undercut)
- Sleeve - Transitions
- Right hand and/or internal actuator mounting locations (Restrictions apply)
- Dual Position Indication (DPI) Switches
- Sensotherm Re-openable Heat Response Device (ESOT)
- Model SM-501 Flow-rated smoke detector
- Model 2D51 No-flow smoke detector (12" minimum damper height)
- Remote test box
- Momentary test switch
- Transformers
- Tab-Lock retaining angles
- Stainless steel bearings
- Stainless steel axle
- Security bars
- Short-width (less than 8") and/or short-height (less than 6") transitions.

### Notes

1. Damper frames are provided approximately ¼" undersized. The addition of a sleeve will increase the size of the assembly.
2. Damper less than or equal to 12" in height with factory mounted SM-501 smoke detectors require a minimum 19" deep sleeve (10½" on the actuator side). Detectors will be mounted on the side of damper opposite actuator.
3. Damper less than 12" in height with factory mounted SM-501 smoke detectors require a minimum 20" deep sleeve (11½" on the actuator side). Detectors will be mounted on the bottom or top of damper.
4. Smoke detectors can be ordered for field mounting with standard 18" deep sleeves. Unless otherwise noted, the size you order will equal the size of your duct work.
5. Dampers for horizontal installation can only be mounted in a fire constructed of masonry/concrete materials.
6. Actuator control signal is 2 - 10 VDC or with addition of 500 ohm resistor (by others) is 4 - 20 mA.

### Damper Sizes

<table>
<thead>
<tr>
<th>Damper Style</th>
<th>Temp. Rating</th>
<th>Velocity &amp; Pressure</th>
<th>Horizontal &amp; Vertical</th>
<th>Horizontal &amp; Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Transition</td>
<td>250°F</td>
<td>2000 fpm, 4&quot; w.g.</td>
<td>8&quot; x 6&quot; frame</td>
<td>24&quot; x 24&quot; frame</td>
</tr>
<tr>
<td>C - Round or C-Square</td>
<td>250°F</td>
<td>2000 fpm, 4&quot; w.g.</td>
<td>4&quot; dia. duct or 4&quot; x 4&quot; duct (8&quot; x 6&quot; frame)</td>
<td>22&quot; dia. duct or 22&quot; x 22&quot; duct</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>96&quot; x 48&quot; frame</td>
<td>46&quot; dia. duct or 46&quot; x 46&quot; duct</td>
</tr>
</tbody>
</table>

All dimensions are shown as width x height.

- **For no transition**, the size you order will equal the damper's frame size, which should equal the duct size. Unless otherwise noted, the size you order will equal the size of your duct work.
- **For transition**, the damper size should equal the following: width + 2" x height + 2".

*Dampers smaller than minimum frame size require a transition. Reference SD-TRFS.*

For handwritten orders, use the schedule block on page 2.

In the interest of product development, Cesco Products reserves the right to make changes without notice.

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SD-CA2M-19.04

Cesco Products
Division of Mestek
Member of AMCA

CES-21-01-13
Operational Ratings
Maximum Differential Pressure: 4 in. w.g.
Maximum Velocity: 2000 fpm

Leakage Ratings
UL Leakage Class II
10 cfm per sq. ft. maximum @ 1 in. wg
20 cfm per sq. ft. maximum @ 4 in. wg

Pressure Drop Ratings
The Pressure drop data shown below is based on laboratory conditions. The test setup does not take into account elbows or other duct fittings that are part of every actual duct system. The configuration of the actual duct system immediately upstream and downstream of the damper often contributes more pressure loss than the damper itself.

This product was tested in accordance with AMCA Standard 500D, Figure 5.3.
Intake air converted to standard air density.

Cesco Products certifies that the CA2M damper shown here is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Air Performance Ratings only.