**Standard Construction and Materials**

**FRAME:** 5½” x ¾” x 16 GA. 304 stainless steel hat channel. A flat head and sill are used for dampers less than or equal to 13” high.

**BLADES:** 16 GA. 304 stainless steel single thickness, parallel action.

**AXLES:** 304 stainless steel stub.

**BEARINGS:** Stainless steel.

**LINKAGE:** P304 stainless steel angle and crank plates with stainless steel pivots, in-jamb type.

**STOPS:** 18 GA. 304 stainless steel angles at head and sill.

**BLADE SEALS:** Silicone.

**JAMB SEALS:** Stainless steel.

**SLEEVE:** Minimum 20 GA. 304 stainless steel by 18” long.

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

**ACTUATOR:** Electric with heat response device (EHRD) or pneumatic with heat response device (PHRD). Factory-installed for Power-Open/Spring-Close (fail close) operation. External left hand mounted as viewed from jackshaft side of damper.

**FINISH:** Mill on 304 stainless steel.

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### Options

Type 316 Stainless Steel (where available)

- External right hand actuator mounting location
- Integral Dual Position Indication (IDPI) switches
- Sensotherm re-openable heat response device (ESOT) for electric actuator
- Sensotherm re-openable heat response device (PSOT) for pneumatic actuator

- Model SM-501 Flow-rated smoke detector (10” minimum damper height)
- Tab-Lock retaining angles
- Copper tubing (for pneumatic actuators)
- Sieves of various depths and gauge thicknesses
- Round or oval transitions
- Short-width (less than 8”) and/or short-height (less than 6”) transitions

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### Notes

1. Damper frames are provided approximately ¼” undercut. The addition of a sleeve will increase the size of the assembly.
2. Damper with smoke detector must have a minimum sleeve of 19” (10½” on the actuator side and 3” on the non-actuator side).
3. Dampers for horizontal installation can only be mounted in a fire barrier constructed of masonry/concrete materials.
4. On dampers with all internal actuators, minimum height for factory mounted smoke detectors to be 14”.

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### Damper Sizes

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Horz &amp; Vert</th>
<th>2000 fpm, 4 in. w.g.</th>
<th>3000 fpm, 4 in. w.g.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panels</td>
<td>Horizontal</td>
<td>Max Panel</td>
<td>Max Panel</td>
</tr>
<tr>
<td>Rectangular</td>
<td>4”W x 4’H (16”W x 6’H frame)</td>
<td>24” W x 24’H</td>
<td>36” W x 32’H</td>
</tr>
<tr>
<td></td>
<td></td>
<td>108” W x 32’H</td>
<td>108” W x 32’H</td>
</tr>
<tr>
<td>Round</td>
<td>4” dia.</td>
<td>22” dia.</td>
<td>30” dia.</td>
</tr>
<tr>
<td></td>
<td>(16”W x 6’H frame)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Oval</td>
<td>4”W x 4’H (16”W x 6’H frame)</td>
<td>22” W x 22’H</td>
<td>34”W x 30’H</td>
</tr>
<tr>
<td></td>
<td></td>
<td>106”W x 30’H</td>
<td>106”W x 30’H</td>
</tr>
</tbody>
</table>

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

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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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**Division of Mestek**

**Member of AMCA**

**www.cescoproducts.com**

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April 2019

**MODEL CG2(SS)**

**SD-CG2SS-19.04**

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**Combination Fire/Smoke Damper**

- 1½ Hr. Rated
- Single Thickness Blade
- Leakage Class II
- 250°F or 350°F Rated
- Stainless Steel

**450 Riverside Dr • Wyalusing PA, 18853**

**Phone: 570-746-1888 • Fax: 570-746-9286**

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**UNDERWRITERS LABORATORIES INC.®**

**CLASSIFIED DYNAMIC FIRE AND SMOKE DAMPER**

**FIRE RESISTANCE RATING 1½ HR**

**LEAKAGE RESISTANCE CLASS II**

**FILE # R6462**

- Underwriters Laboratories Inc. Standards 555 and 555S
- National Fire Protection Association Standards 80 and 90A
- ICC’s International Building Code
- New York City MEA Listing #111-99-M
- California State Fire Marshal Listing #3225-1328:119

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**The 3” dimension will increase if sleeve length is increased.**

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**CES-21-01-07**
Operational Rating
Maximum Differential Pressure: 4 in. w.g.
Maximum Face Velocity: 2000 FPM (3000 FPM for selected size/actuator combinations)

Leakage Rating
UL Leakage Class II
10 CFM per sq.ft. maximum @ 1 in. w.g.
20 CFM per sq.ft. maximum @ 4 in. w.g.

Sound Rating
The Noise Criterion data below was tested in accordance with ASTM E477.99 in the center octave band.

<table>
<thead>
<tr>
<th>Damper Size</th>
<th>Velocity (fpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1000</td>
</tr>
<tr>
<td>12&quot;W x 12&quot;H</td>
<td>31</td>
</tr>
<tr>
<td>24&quot;W x 24&quot;H</td>
<td>33</td>
</tr>
</tbody>
</table>

Pressure Drop Rating
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 CG2(SS) 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.