**Standard Construction and Materials**

**FRAME:** 5\(\frac{1}{2}\) x \(\frac{3}{4}\) x 16 GA, galvanized steel hat channel. A flat head and sill are used for sizes up to 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 on galvanized steel.

**ACTUATOR:** 24VAC/DC Electric: factory-installed for power-open/spring-close (fail close) operation. External left-hand mounted as viewed from jackshaft side of damper.

**Options**

Exact Size (no undercut)
Flange - Front, Rear or Both
Right Hand and/or Internal Actuator Mounting Locations (restrictions apply)
Dual Position Indication (IDPI) Switches
Model SM-501 Flow-Rated Smoke Detector
Model 2151 No-Flow Smoke Detector (12" minimum damper height)
Remote test box
Momentary test switch
Transformers
Tab-Lock retaining angles - 1 or 2 sets
Stainless steel bearings
Stainless steel axles
Security bars
Sleeves of various depths and gauge thickness (restrictions apply)
No sleeves or side plates only (restrictions apply)
Round or oval transitions
Short-width (less than 8") and/or short-height (less than 6") transitions

**Notes**

1. Nominal deductions will be made to the opening size given.
2. Dampers greater than or equal to 12" in height with factory mounted SM-501 smoke detectors require a minimum 19" deep sleeve (10\(\frac{1}{2}\)" on the actuator side). Detectors will be mounted on the side of the damper opposite actuator.
3. Dampers less than 12" in height with factory mounted SM-501 smoke detectors require a minimum 20 deep sleeve (11\(\frac{1}{2}\)" 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 sleeve.
5. 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 and Vertical Min Panel</th>
<th>Horizontal and Vertical Max Panel</th>
<th>Horizontal and Vertical Max Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Transition</td>
<td></td>
<td></td>
<td>8&quot; x 6&quot; frame</td>
<td>22&quot; x 22&quot; frame</td>
<td>96&quot; x 48&quot; frame</td>
</tr>
<tr>
<td>C-Round</td>
<td>250°F</td>
<td>2000 FPM, 4 in. 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>
<td>46&quot; dia. duct-or-46&quot; x 46&quot; duct</td>
</tr>
<tr>
<td>-or- C-Square</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>C-Oval</td>
<td></td>
<td></td>
<td>4&quot; dia. duct (8&quot; x 6&quot; frame)</td>
<td>22&quot; x 22&quot; duct</td>
<td>94&quot; x 46&quot; duct</td>
</tr>
<tr>
<td>-or- C-Rectangular</td>
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</tbody>
</table>

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

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Operational Rating
Maximum Differential Pressure: 4 in. w.g.
Maximum Velocity: 2000 fpm

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

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.

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Cesco Products certifies that the GA2M 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.