

FIRE & SMOKE AND SMOKE DAMPERS

This operation and maintenance instructions should not serve as a standard basis for all damper products and other manufacturers, but for Safeair-Dowco damper products.

All fire smoke and smoke dampers require routine maintenance procedures in order for dampers to operate as intended in any case in which fire and smoke may occur within the building. Periodic testing of all parts linked to the damper is essential to maintaining a working damper. Check that all actuators, blades, fans, etc. are functioning properly and that nothing is preventing blades or controls from operating. Be sure to check that nothing is blocking or hindering air way passage. Safeair-Dowco recommends that each routine operation and maintenance procedure follow with NFPA92A, NFPA80 and NFPA105 requirements and local authority approvals.

MAINTENANCE:

1. Check interior and exterior sides of dampers for any major defects or material disintegration that may prevent proper functioning of damper.
 - a. In serious damage contact Safeair-Dowco <http://safeair-dowco.com/contact.php>
2. Re-tighten any loose linkage or attached equipment, such as actuator.
3. Shafts, bearings, pivot points etc. should be cleaned and lubricated with a light spray oil. Any and all access should be removed.
 - a. *Use silicone based lubricant and not petroleum based lubricant.*
 - b. *Dampers with non-mettalic or carbon sleeve bearings do not require lubrication*
4. Blades should be checked for freedom of movement.
5. Blades should also be disconnected from their operators and manually checked (Blades should move freely with no binding or twisting).
6. Motors (electric or pneumatic) should be visually checked through their complete cycle for defects, binding or misalignment. Operator anchorage and fittings should also be checked.
 - a. *Damper should be operated under normal airflow conditions.*
7. If in any case actuators, blades or linkage is not properly functioning, contact Safe-Air Dowco at our given inquiry page located above to be further assisted.

TESTING PROCEDURE:

1. With the thermal disc intact, heat the thermal disc with a temperate heat source,
 - a. *Make sure not to overheat and damage the thermal disc.*
2. Check that the thermal disc functions properly as it will activate the actuator to close the damper blades.
 - a. **(Be sure to keep hands out of path while blades are closing)**
3. When testing procedure is done and all parts are working collectively and properly, allow thermal disc to cool.
4. Reset the disc located on the outside of damper, which will then re-open the damper blades allowing airflow.
5. Record date of testing procedure and label on a sheet.
6. Repeat testing procedure on a set periodic routine.