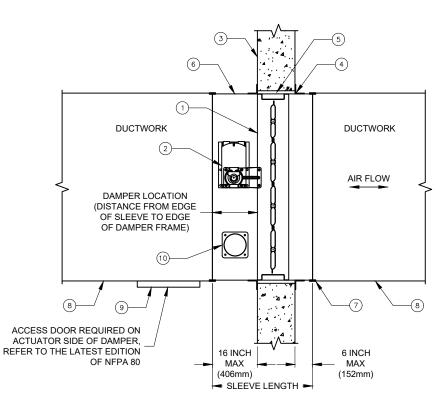
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ITEM:

- UL CLASSIFIED AS BOTH A FIRE DAMPER AND A LEAKAGE RATED SMOKE DAMPER
 1.1 1-1/2 HR. LABEL FOR FIRE SEPARATIONS RATED LESS THAN 3 HOURS
 1.2 3 HR. LABEL FOR FIRE SEPARATIONS 3 HRS OR GREATER (MODEL FSD-331)
- 2. UL QUALIFIED DAMPER/ACTUATOR ASSEMBLY (ELECTRIC)
- 3. RATED BARRIER
- 4. RETAINING ANGLES
- 5. EXPANSION CLEARANCE
- 6. DAMPER SLEEVE
- 7. BREAKAWAY JOINT
- 8. STEEL DUCT
- 9. ACCESS DOOR (NFPA 80 AND 105)
- 10. UL LISTED HEAT RESPONSIVE DEVICE (RRL, RRL/OCI, TOR)

NOTE:

- DAMPERS SHALL BE CONSTRUCTED, TESTED, LABELED AND INSTALLED IN ACCORDANCE WITH UL 555, UL 555S, NFPA 80, NFPA 90A, NFPA 92, NFPA 101, NFPA 105, AND DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- DAMPER RATING SHALL MEET THE REQUIREMENTS OF INTERNATIONAL BUILDING CODE (IBC) AND COMPLY WITH LOCAL CODE REQUIREMENTS.
- DAMPERS SHALL BE RATED FOR VERTICAL OR HORIZONTAL MOUNTING AS REQUIRED AND SHOWN ON PROJECT PLANS.
- DAMPER OPENING (EXPANSION GAPS) SHALL BE PER DAMPER MANUFACTURER'S UL APPROVED INSTALLATION INSTRUCTIONS.
- 3.1. MAXIMUM DAMPER OPENING MAY NOT EXCEED THE DAMPER MANUFACTURER'S MAXIMUM UL LISTED SIZE.
- 4. SLEEVE GAUGE, TERMINATIONS AND RETAINING ANGLES SHALL BE AS REQUIRED AND COMPLY WITH UL AND SMACNA REQUIREMENTS.
- HEAT RESPONSIVE DEVICE SHALL BE A SINGLE TEMPERATURE ELECTRIC HEAT SENSOR OR DUAL TEMPERATURE OVERRIDE SENSOR. CHECK PROJECT SPECIFIC REQUIREMENTS AND SPECIFICATIONS FOR TYPE AND TEMPERATURE RATINGS.
- ACCESS DOORS SHALL BE PROVIDED FOR INSPECTION, TESTING AND MAINTENANCE TO COMPLY WITH NFPA 80 AND 105.
- 7. FSD-311 MAY BE MOUNTED EITHER HORIZONTALLY OR VERTICALLY. BLADE AXIS MUST REMAIN HORIZONTAL.
- BASIS OF DESIGN SHALL BE GREENHECK FSD-311 1-1/2 HOUR RATED STEEL AIRFOIL BLADE COMBINATION FIRE SMOKE DAMPER. (Alternate models: FSD-312 1-1/2 hour rated; FSD-311M 1-1/2 hour rated modulating; FSD-331 3 hour rated)

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