



MODEL 3100 NON RETURN DAMPER - IN-DUCT INSTALLATION

Volume Control Damper / Non Return Damper - In-Duct Installation

Drawing 3100-2

INSTALLATION INSTRUCTIONS

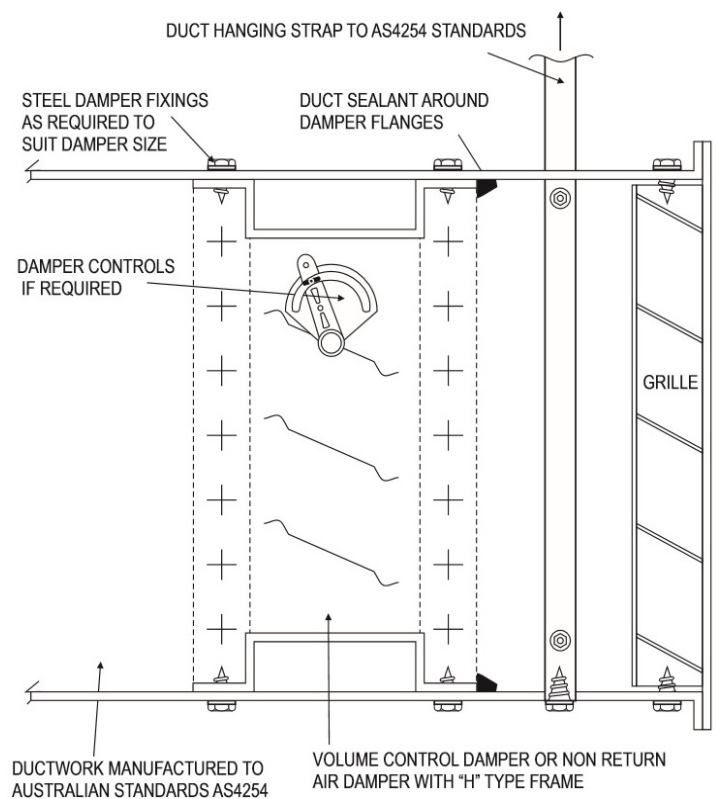
- 1. INITIAL DAMPER TEST** Before installing, check damper for damage caused by mishandling and/or transportation. Visually inspect the integrity of the dampers: blades, frames, corner brackets, interconnecting blade linkages, bearings and pivots, operational drives or quadrants and blade seals.

Check the damper blade operation by opening and closing the blade(s) via the manually operated quadrant or the motor drive spindle/shaft. Clamps, pliers or other mechanical attachments may be required to assist you with this procedure. With the Model 3100 Non-return Air Damper simply push blades to test operation.

NOTE: Ensure the damper is placed in an upright position and on a stable, flat, firm surface before this is attempted as damage may occur to some parts of the dampers blade seals, requiring replacement and causing site delays.

Should damper be in sound condition then proceed with installation, otherwise contact your local Bullock supplier installation. Details are available at our website: www.bullockmfg.com.au

- 2.** Complete an 'initial damper test' before installing. Should damper function appropriately proceed with installation.
- 3.** Accurately measure position in duct for damper operator shaft to protrude through duct. Remove 2 x hexagonal head bolts from drive and blade, then push drive in until flush with frame.
- 4.** Note dampers orientational labelling showing "top" and or "airflow direction" if required these shall be adhered to.
- 5.** Slide damper into ductwork or plenum then mechanically fix damper internally through the damper at approximately 20mm - 250mm centres.
- 6.** Push drive shaft through measured hole in duct and replace hexagonal drive blade bolts.
- 7.** Seal between damper frame and ductwork using duct-sealer or silicon sealant.
- 8.** Repeat initial damper operational test to ensure correct operation.



NOTE: Should damper blades drag upon the damper frame (Models 6700/6500) this indicates frame misalignment and the installation is incorrect. Align frame correctly before continuing damper test. Damage to the dampers vital blade sealing system may render the damper inoperable. The damper would then need to be returned to the manufacturer for repairs at a cost to the installer. Should operational checks show correct installation, proceed to connect actuator to damper drive shaft.

