



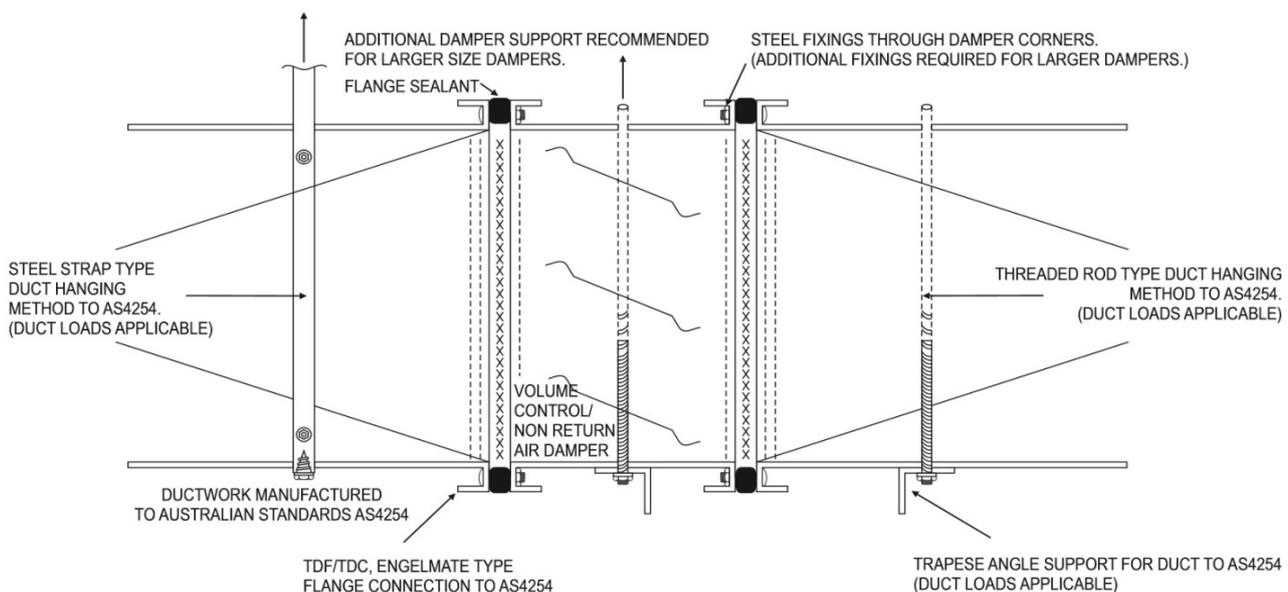
## MODEL 3100 NON RETURN DAMPER - DAMPER TO DUCT CONNECTION

Volume Control Damper / Non Return Damper - Damper to Duct Connection

Drawing 3100-3

### INSTALLATION INSTRUCTIONS

- 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](http://www.bullockmfg.com.au)
- Complete an **INITIAL DAMPER TEST** before installing. Should damper function appropriately proceed with installation.
- Before installing damper ALL ductwork, filter/conditioner housings or plenums must be self supported to AS4254 duct standards. Refer to Australian Standard AS4254 as a guide to flange details available and ductwork installation methods.
- Apply sealant to wall/slab/conditioner housing face before positioning damper. Note: Dampers orientation labelling showing "top" and/or "airflow direction" if required shall be adhered to.
- Attach damper to wall/slab or plenum by mechanically fixing through damper corners. For larger size dampers additional fixings will be required at a recommended 200mm - 250mm centred spacings around damper frame, and channel or angle supports under bottom of damper frame to prevent sagging.
- With damper installed correctly in a square and sealed position cautiously repeat the initial damper test. Should operational checks show correct installation, proceed to connect actuator to damper if required.



**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 drive shaft.

