

## Adjusting the Threshold Pressure

apreco externally weighted air pressure relief vents achieve the characteristic pressure/flow curve by a combination of aerodynamics and adjustment of the centre of gravity of the air control blade.

Adjustments to the threshold pressures are achieved by adjusting the position of the balance weights.

The balancing system comprises a moveable weight which is attached to the stub shaft at each end of the blade within one of the compartments on either side of the frame.

The position of the weights on the carrier adjusts the sensitivity of the action of the blade and is factory set

It is NOT ADVISED that adjustments be made to the sensitivity setting.

### To adjust the threshold pressure:

1. Remove the plastic plugs from the access ports in the side of the frame.
2. Line up the blade so that the dome nut at the end of the counterbalance mechanism is directly opposite the access port.
3. Using a 7mm AF long socket, engaged on the dome nut at the end of the carrier, rotate the nut to move the position of the weight along the lead screw. For standard flow arrangements, anti-clockwise rotation of the nut will move the weight to the rear of the compartment, increasing the threshold pressure. Clockwise rotation of the nut will have the opposite affect.

#### NOTE:

1. The adjusting nut should turn relatively easily. At the limits of travel of the balancing weight the nut will become more difficult to turn.
2. Covers removed for illustration purposes.

**DO NOT TIGHTEN THE NUT BEYOND THE LIMITS.**

Units configured for Horizontal mounting will require removal of the removable blade stop in order to rotate the blade sufficiently to bring the adjusting nut opposite the access port.

4. To check the new pressure setting, use an accurate manometer to measure the differential pressure across the stabiliser. Carefully and slowly open an appropriate door to gradually lower the differential pressure to a level below the threshold pressure at which point the air control blade will close. The level of differential pressure at which the stabiliser blade closes is the new threshold pressure.

5. Replace plastic plug

#### Useful Tip

If an air control blade is oscillating between open and closed, then there is insufficient air passing through the unit when it opens, and once the blade opens the differential pressure subsides below the threshold level causing the blade to close. To reduce the oscillation (hunting), manually close one or more blades until the remaining blades stay open without hunting. This will effectively match the capacity of the unit to the reduced flow requirement.

