

Series 9500 Aero-Vane Pressure Reducing Damper

SPECIFICATION:

Series 9500 pneumatically or electrically driven pressure or thermostatically controlled pressure reducing dampers shall be as manufactured by Young Regulator Company with sizes as shown and scheduled on the drawings. Dampers shall be constructed of a minimum 22 gauge galvanized steel housing with jamb seals and gasketed extruded aluminum and specially designed aerodynamic modulating Aero-Vanes. The design of the Aero-Vanes shall allow linear finite static pressure control without hysteresis. Aero-Vanes shall be individually driven to eliminate linkage adjustment problems. The design of the drive shaft shall allow interchangeability of electric, pneumatic, or manual controls. On electrically driven dampers, electric 24 VAC actuators shall be drive-open, drive-closed modulating-type motors to ensure finite control of pressure or of pressure or temperature. Timing shall be 60 seconds for quick response time. Thermostatic or pressure controllers shall be as detailed in the optional Accessories section of the specification. All power wiring, labor and materials including 115 to 24 VAC transformers shall be furnished and installed by others.

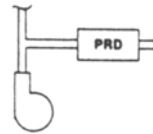
Pneumatically driven shall be furnished and installed by others. dampers shall be reverse acting and normally open. acting and normally open. Pneumatic, thermostatic or pressure controls shall be furnished and installed by others.

Typical Applications Series PA-6500

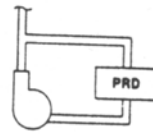
Main Duct Control
Air volume control for fan supply air.



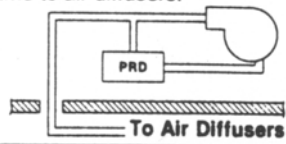
Branch Duct Control
Air volume control for branch ducts.



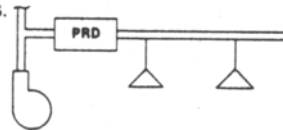
Fan By-Pass
Supply air fan by-pass. Alternative to main duct volume control.



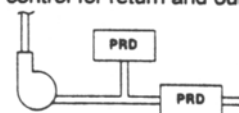
Rooftop Unit By-Pass
Supply fan by-pass air control. Constant volume to fan, variable volume to air diffusers.



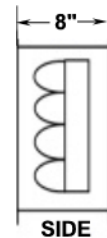
Zone Duct Control
Pressure control for zone duct feeding variable air volume diffusers.



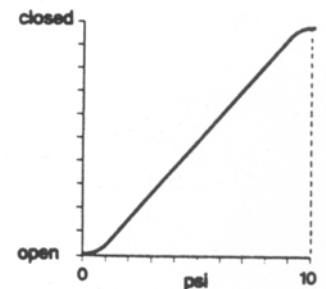
Return-Outside Air Control
Volume control for return and outside air to fan.



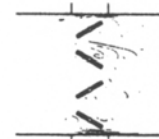
Efficiency Characteristics PA6500 Aero-Vane Damper



Immediate and linear operational flow control response.



Typical Air Foil Blade Damper



Response lag and non-linear operational flow control.

