

VOLARA<sup>®</sup> TYPE A gasket material is sandwiched between damper halves and has high temperature resistance, low moisture absorption and excellent chemical resistance.

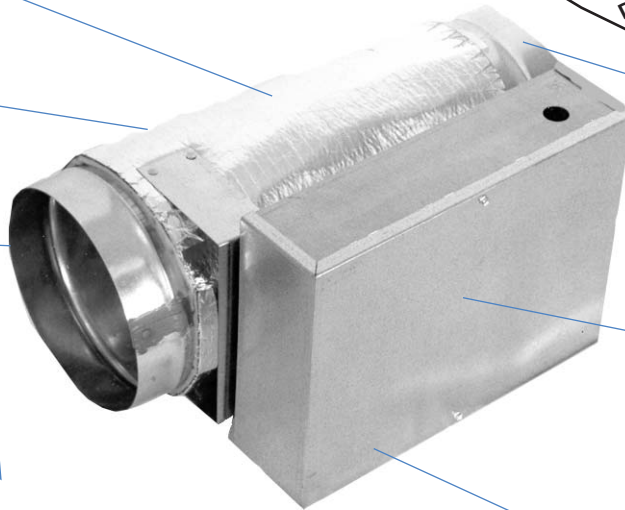
Sandwich damper design is mechanically fastened to the damper shaft for low leakage, low noise, and low pressure drops. (Rigid 18 gauge construction.)

Solid steel 3/8" damper shaft rotates in oil impregnated sintered bronze bearings.

1/2" external foil faced insulated inlet and outlet collar. There is **NO** insulation in the air stream.

Calibration chart for flow measuring and balancing.

Flow measuring and balancing taps.



Round discharge.

Sturdy 22 gauge galvanized steel construction suitable for field duct connections. (Optional stainless steel available.)

Standard controls enclosure.

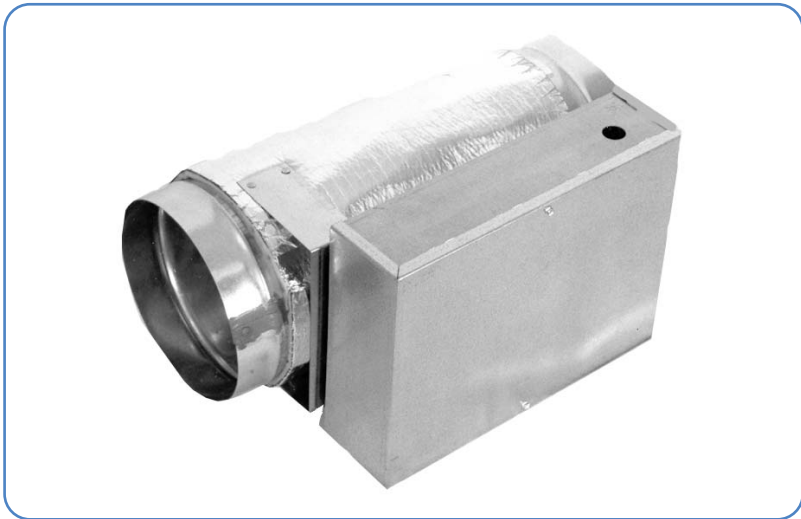
Slot in damper shaft to indicate damper position.

10 feet tubing and pitot tube included.

## Model AVRO



IAQ Insulation Standard



▼ Model AVR

The Carnes Model AVR is designed to control either by-pass pressure or discharge pressure within a duct system. Such applications would be using a constant volume central fan with Variable Air Volume Units (VAV), multiple Carnes Remote Activated Diffusers (model SRAD), or multiple Carnes Thermal Diffusers (model SFPV). The result is limiting wasted air and reduced noise levels.

In a By-pass Pressure design, the damper will **open** relieving excess pressure to a return duct or simply

into the ceiling plenum. The Model AVR should be sized for handling 80% of the total air flow and then subtracting the amount of air flow of the **smallest** zone. The pressure tap is installed upstream of unit.

In a Discharge Pressure design, the damper will **close** to increase the pressure drop to the duct branch. The model AVR should be sized to handle the **highest** CFM for that branch. The pressure tap is installed downstream of unit.

*Features Include:*

- Air flow capacities from total shut-off to 4,200 CFM (0-3,000 FPM).
- Round inlet/outlet connections.
- Low leakage damper design.
- No insulation in the air stream.
- Unit externally wrapped with 1/2" foil faced insulation that meets UL and NFPA standards.
- Analog or contractor supplied digital controls.

