**APPLICATION**
As regulation unit in ventilation and air conditioning systems, on the supply or exhaust duct side.

**WORKING METHOD**
A plastic control flap with a stainless steel balance spring calibrates the air stream in the unit in relation to pressure difference to obtain a constant air flow within a pressure range between 0.2" and 0.8".

**ADVANTAGES**
The installation of a constant volume control damper in a ventilation system has some advantages compared with other control systems (control register, diaphragm, etc...)

- System regular or calibration is not needed
- The air volume is always the same whatever the pressure variation in the ventilation system
The Reversomatic airflow regulator CVC is an element placed inside the duct in order to obtain a constant airflow within pressure range from 0.2 to 0.8 inch water column. It is used for both the exhaust and supply air in Ventilation systems and Reversomatic fans. The installation of Reversomatic flow regulators in air systems or Reversomatic fans has many advantages compared to traditional systems of adjustment (balancing dampers, Iris Dampers, etc...)

- No balance or setting manipulations.
- Constant Airflow independent of air pressure variations in the duct work.

**OPERATION**

The Reversomatic type CVC air volume dampers operate by means of a special air balancing damper, which automatically calibrates the air stream independent of the pressure.

**INSTALLATION**

REMOTE FAN INSTALLATION

Double or triple inlets
CVC installed in Balance Box

SINGLE FAN INSTALLATION

CVC installed close to wall box

CVC installed close to fan
How Reversomatic CVC works

Reversomatic CVC is an airflow control device that automatically responds to changes in duct pressure in order to regulate airflow at constant rate. A flat (damper mechanism) within each CVC controls the net free surface area through the device in order to maintain constant net airflow rates. Component placed inside a rigid circular duct work, a duct collar or register boxes in order to obtain a constant airflow within a pressure range from 0.2 to 0.8 inch water column.

Mounting:-

• To be inserted inside round ducts
• For horizontal or vertical mounting
• When horizontal mounted the marking “BAS” must be horizontal
• To be placed according the marked airflow direction
• To be placed in air supply at a minimum distance of 3X the duct diameter from air supply grilles and at the same distance close to areas with high turbulence like duct connections, bends...
• To be placed in air exhaust at minimum distance of 1X the duct diameter from air exhaust grilles and at the same distance close to areas with high turbulence like duct connections, bends...

Construction:-

The Reversomatic CVCs are made of fire retardant plastics M1 in black colour and stainless steel calibrated spring with rubber air-tight sealing. The rubber sealing confirms the air-free fit.

Typical Applications:-

• To obtain constant air volumes in ventilation and air conditioning systems within a pressure range between 0.2 to 0.8 inch water column.
• For air supply or exhaust duct systems
• Maximum working temperature 60°C
Reversomatic Constant Air Volume Controller - CVC

Dimensions

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Note: Also available for 0.8” S.P and above, contact factory for more info.