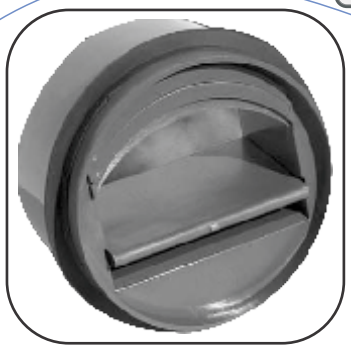
REVERSOMATIC
MANUFACTURING LIMITED

C UL US
R38307



Constant Air Volume Controller

APPLICATION

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

WORKINGMETHOD

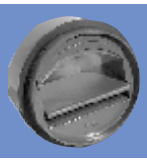
A plastic control flap with a stainless steel balance spring calibrates the air stream in the unit in relation to pressure difference to obtain a constant air flow within a pressure range between 0.2" and 0.8".

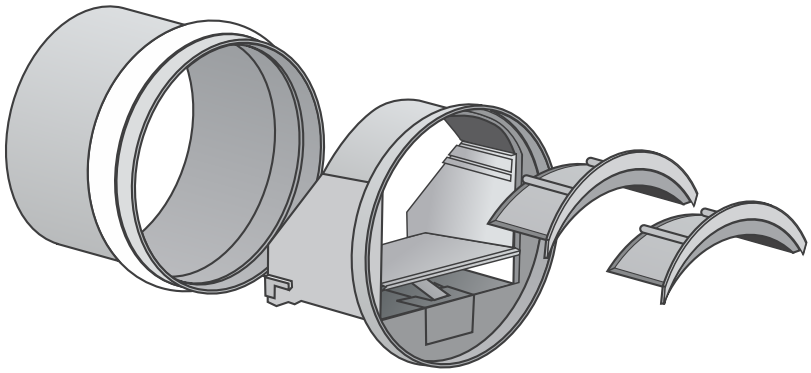
ADVANTAGES

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

Reversomatic Constant Air Volume Controller - CVC





Available
in 3”, 4”, 5”, 6”,8” &10" dia

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.

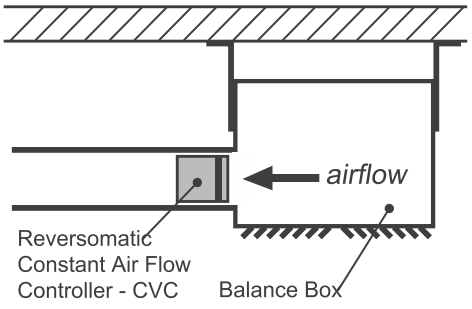
OPERATION

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

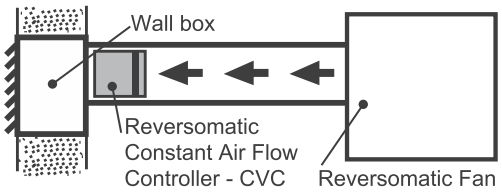
REMOTEFANINSTALLATION

Double or triple inlets
CVCinstalled in Balance Box

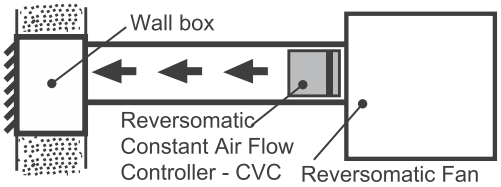


SINGLE FANINSTALLATION

CVC installed close to wall box



CVC installed close to fan



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Reversomatic Constant Air Volume Controller - CVC

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 of 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 minium 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 minium 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

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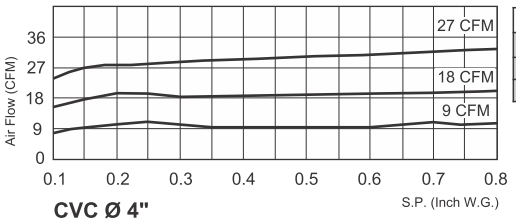
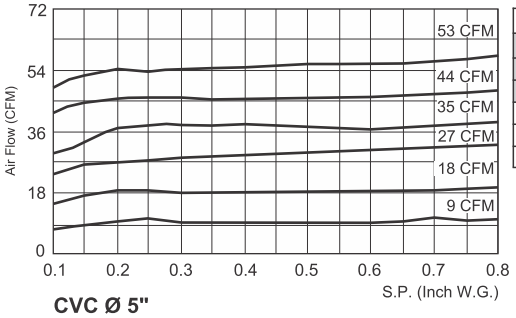
Reversomatic Constant Air Volume Controller - CVC

CVC Ø 3"



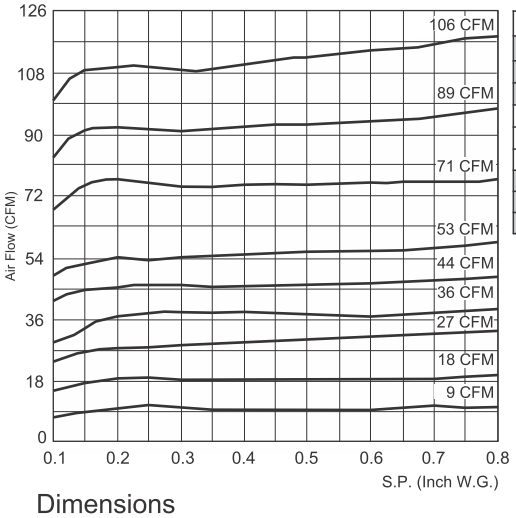
Part #	Airflow
CVC-309	9 CFM
CVC-318	18 CFM
CVC-327	27 CFM

CVC Ø 4"



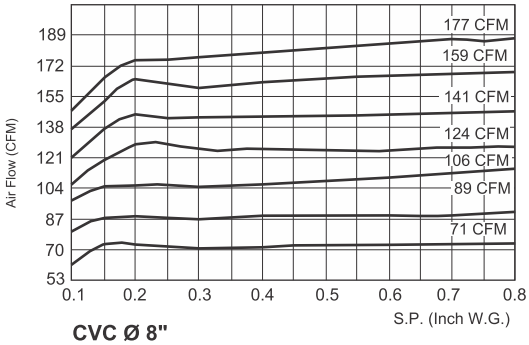
Part #	Airflow
CVC-409	9 CFM
CVC-418	18 CFM
CVC-427	27 CFM
CVC-435	35 CFM
CVC-444	44 CFM
CVC-453	53 CFM

CVC Ø 5"



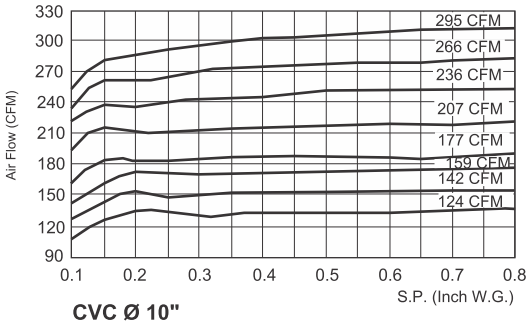
Part #	Airflow
CVC-509	9 CFM
CVC-518	18 CFM
CVC-527	27 CFM
CVC-536	36 CFM
CVC-544	44 CFM
CVC-553	53 CFM
CVC-571	71 CFM
CVC-589	89 CFM
CVC-5106	106 CFM

CVC Ø 6"



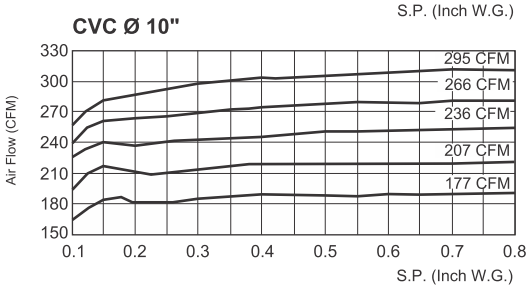
Part #	Airflow
CVC-671	71 CFM
CVC-689	89 CFM
CVC-6106	106 CFM
CVC-6124	124 CFM
CVC-6141	141 CFM
CVC-6159	159 CFM
CVC-6177	177 CFM

CVC Ø 8"



Part #	Airflow
CVC-8124	124 CFM
CVC-8142	142 CFM
CVC-8159	159 CFM
CVC-8177	177 CFM
CVC-8207	207 CFM
CVC-8236	236 CFM
CVC-8266	266 CFM
CVC-8295	295 CFM

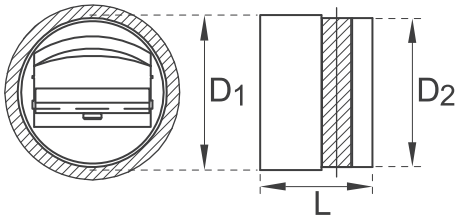
CVC Ø 10"



Part #	Airflow
CVC-10177	177 CFM
CVC-10207	207 CFM
CVC-10236	236 CFM
CVC-10266	266 CFM
CVC-10295	295 CFM

Dimensions

Ø	D1 [Inch]	D2 [Inch]	L [Inch]
3	3	2.9	2.2
4	3.8	3.7	2.4
5	4.8	4.7	3.6
6	6.2	5.9	3.9
8	7.8	7.7	3.6
10	9.8	9.8	3.7



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

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