



Young Regulator Co.

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Submit CVR-LP-xx 9-2015

Constant Volume Regulator Low Pressure (0.1-0.4inwc)

Application and Design

Constant Volume Regulators (CVR) are designed to save significant amounts of energy and money by limiting airflow and therefore not over-ventilating or over-serving a space. They are engineered with a specifically shaped free area and a wing-like damper (Aero-Gate)[®]. When pressure increases, the increased flow causes the Aero-Gate to rise and block more of the free area.

(See Back for performance curves)

The product is precision molded of fire-resistant ABS plastic. They have been used in Europe for years and are starting to gain a larger market in North America as well. Constant Volume Regulators may contribute to meeting USGBC LEED Building Certification. If there are areas that over-condition because of ductwork limitations, a CVR can limit the air entering the space.

Conversely, it can limit exhaust or equalize the flow across a multi-story exhaust chase.

It can regulate intake air from the outside to ensure a small positive pressure in the mechanical room.

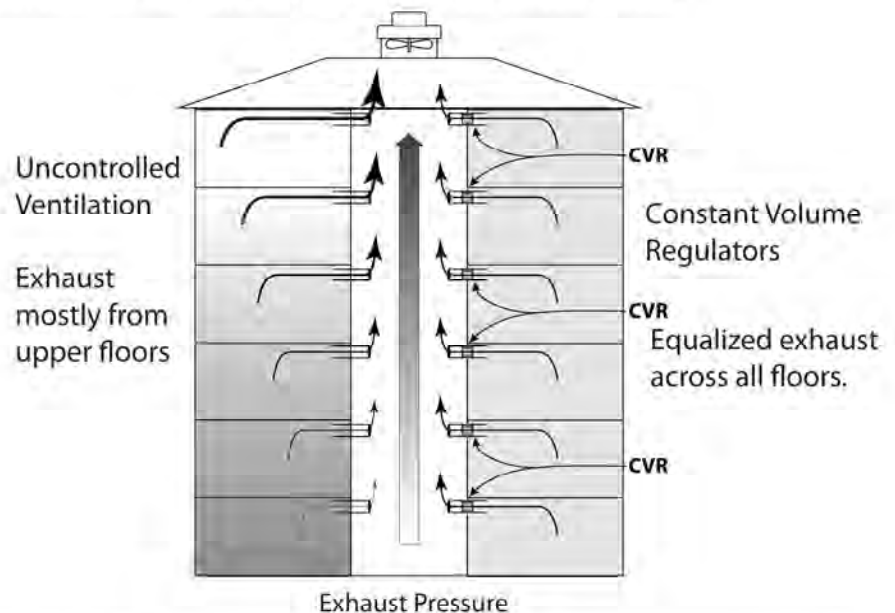
In short it is a very versatile tool.

The CVR is a natural part of the Young Regulator Co. solution set. After all, Regulator is our middle name.[®]



SIZE INFORMATION	
Diameter	Flow (@ 0.1inWC to 0.4inWC)
4"	20, 30, 40 CFM
5"	20, 30, 40, 50, 65, 80 CFM
6"	50, 65, 80, 100, 120, 130 CFM
8"	80, 100, 120, 130, 140, 155, 170, 190 CFM
10"	140, 155, 170, 190, 230, 265, 280, 300 CFM

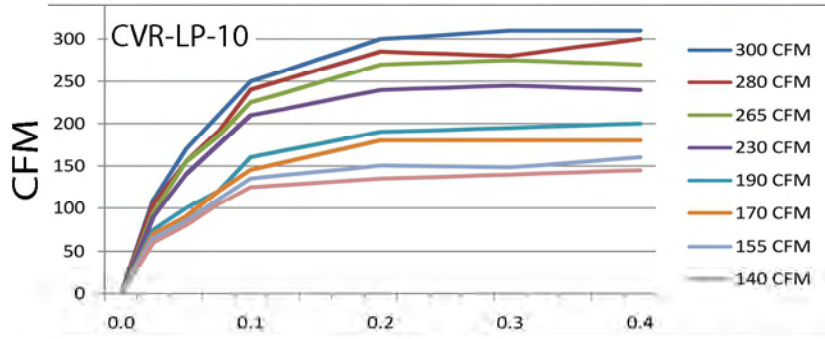
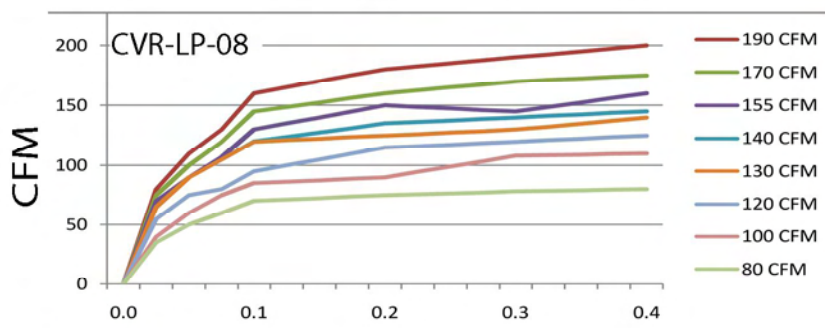
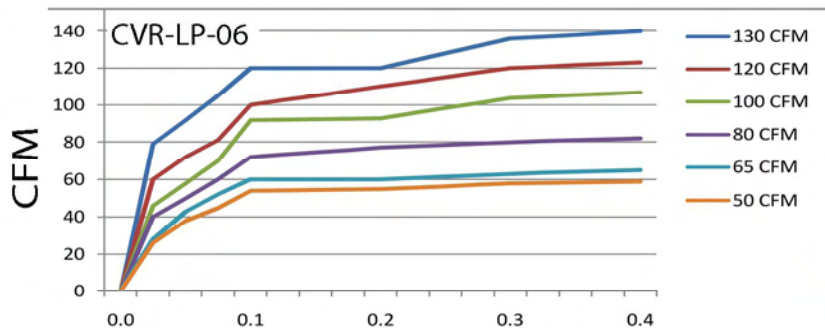
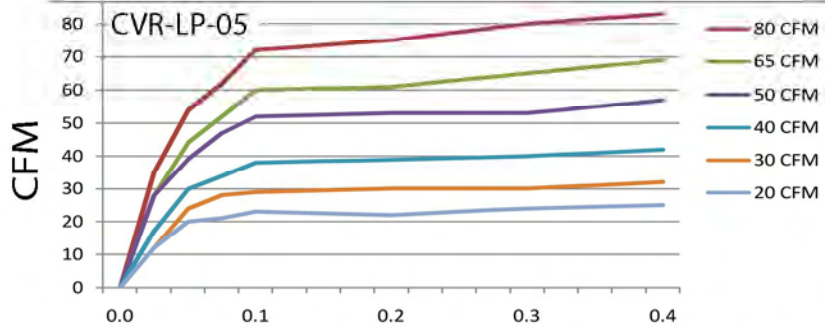
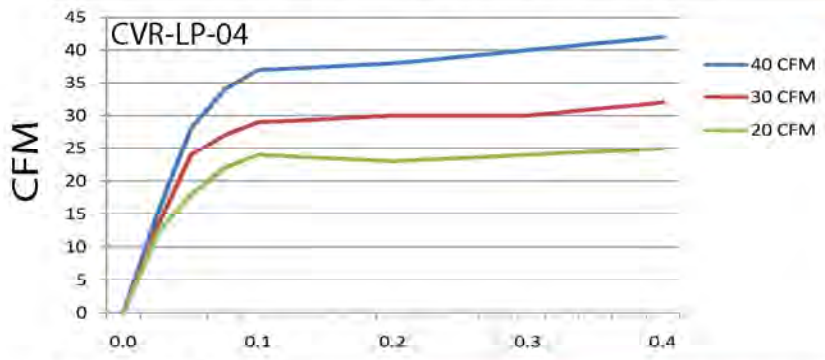
STANDARD CONSTRUCTION	
Construction	Molded in a specialty engineered ABS plastic
Safety Ratings	European fire and Smoke Rated M1
Mounting	Friction Fit in appropriately sized duct
Color	Black



QUANTITY	DIAMETER	CFM SET POINT	NOTES
PROJECT			LOCATION
CONTRACTOR			DESIGN SPECIFIER

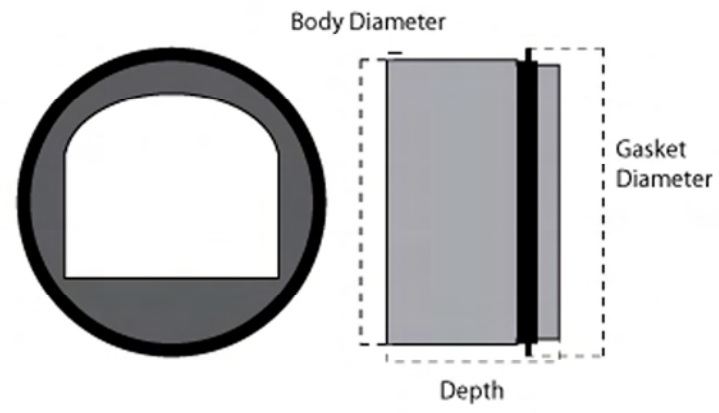
Low Pressure CVR Performance Curves

Volume (cfm) vs Static Pressure



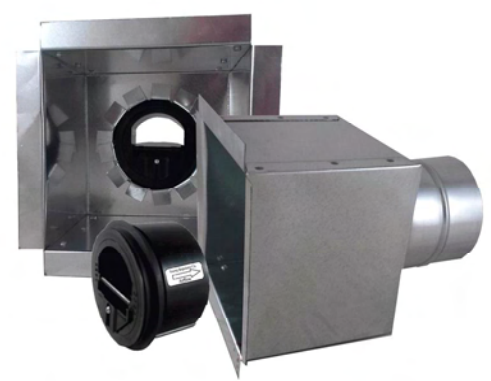
Low Pressure CVR Selections	
Diameter	Available Set Points
4"	20, 30, 40,
5"	20, 30, 40, 50, 65, 80
6"	50, 65, 80, 100, 120, 130
8"	80, 100, 120, 130, 140, 155, 170, 190
10"	140, 155, 170, 190, 230, 265, 280, 300

Select the appropriate parts by starting with the duct diameter and choosing the Maximum desired flow rate.



YR Part #	Nominal Diameter	Body Diameter	Gasket Diameter	Depth
CVR-LP-04	4"	3.8"	4.1"	2.3"
CVR-LP-05	5"	4.8"	5.1"	3.5"
CVR-LP-06	6"	5.8"	5.8"	3.5"
CVR-LP-08	8"	7.6"	7.6" *	3.5"
CVR-LP-10	10"	9.7"	9.7" *	3.7"

* Additional gasket added for a tight fit



CVR-LP-xx is available factory installed in enclosures to accommodate grilles, fire and radiation dampers, or control dampers. Contact the factory for assistance.