

Application and Design:

Precision/Flow™ Model CR-LP is a factory set constant volume control damper composed of fire retardant plastics. It contains a self regulating airfoil damper blade and spring piston design to maintain a factory preset air volume flow. These dampers are designed to operate in a pressure range of 0.08" wg to 0.4" w.g. They automatically adjust for variable duct pressures caused by building pressure, thermal stack effect, dust build-up, etc. This damper also creates a very cost effective answer to balancing air systems for HVAC and ventilation in high rise buildings, without the requirement for on-site balancing, electrical / pneumatic controls or sensors. Model CR-LP requires no standard maintenance under normal conditions.

STANDARD CONSTRUCTION:

Regulating Damper: UL94V-0 ABS Plastic
UL-2043 listing

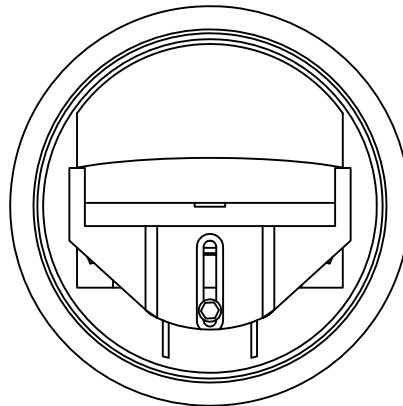
Damper (nominal)	C	D
3" (76)	3" (76)	2.2" (55)
4" (101.6)	3.8" (96)	2.8" (70)
5" (127)	4.7" (120)	3.4" (86)

*Sizes in inches (millimeters)

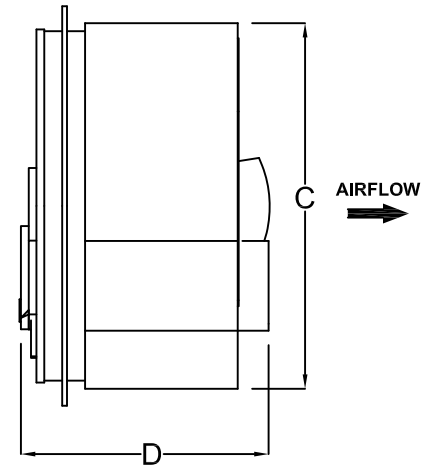
OPTIONAL:

- 24 Ga. Galvanized Shell Enclosure

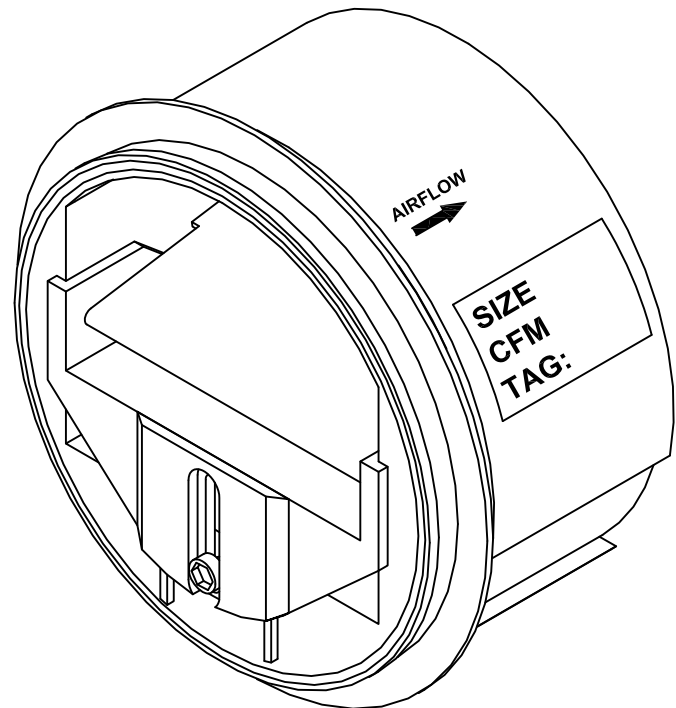
Range of Operation Static Pressure	
Minimum	0.08" w.c.
Maximum	0.4" w.c.



FRONT VIEW



SIDE VIEW



Job Name: _____

Location: _____

Architect: _____

Engineer: _____

Contractor: _____

Precision/Flow™ Model CR-LP
(Supply, Exhaust, or Return)

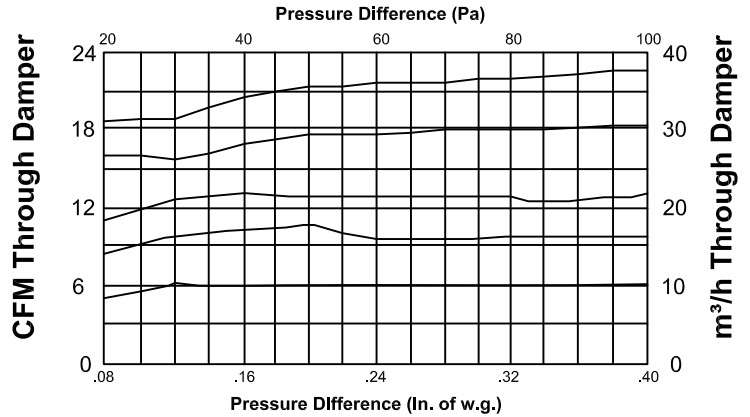
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SYSTEM CR-LP PERFORMANCE DATA

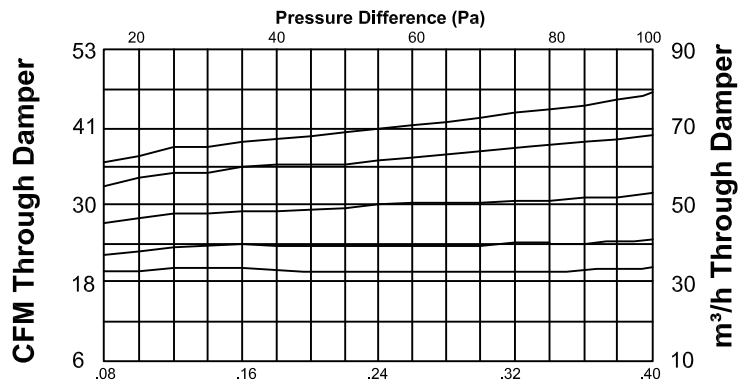
The charts to the right, show the approximate constant volume airflow through the damper at a given pressure differential. The ideal pressure differential across the damper to provide the desired factory set constant airflow volume is between 0.08" w.g.(20 Pa) and 0.4"w.g. (100 Pa). As shown if the pressure across the damper falls below 0.08" w.g. (20 Pa) then the airflow volume will be reduced. Likewise if the pressure across the damper increases to over 0.4" w.g. (100 Pa), then the airflow volume will be increased. Please note that these dampers are factory set to the specific airflow. They can also be field modified to another desired airflow. The graphs shown are averages and can vary by 5%. The maximum air temperature is 140°F (60° C).

Damper size: Ø 3" / 4" / 5" 6-18 cfm



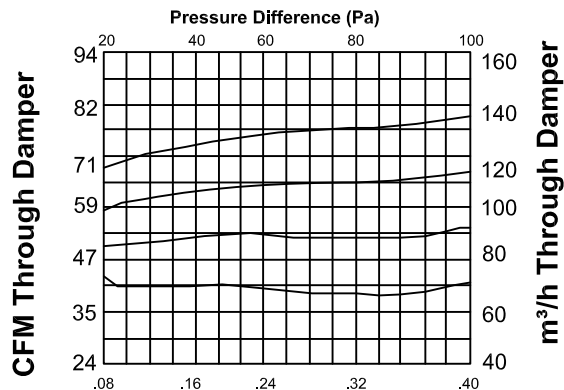
Note: Dampers are pre-set at the factory for the specified cfm

Damper size: Ø 4 / 5 18-35 cfm



Note: Dampers are pre-set at the factory for the specified cfm

Damper size: Ø5 35-71 cfm



Note: Dampers are pre-set at the factory for the specified cfm

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