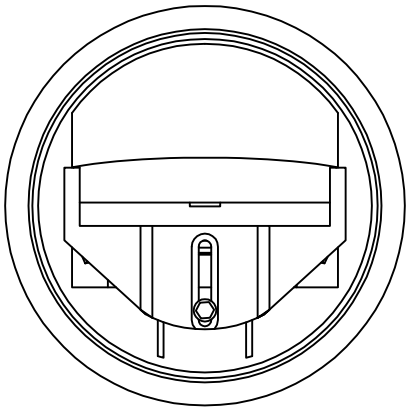
SUBMITTAL DATA

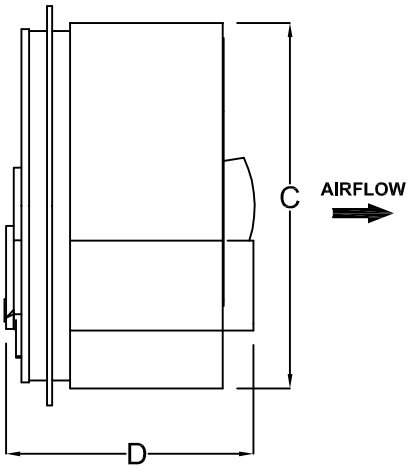
Precision/Flow™ Model CR

Application and Design:

Precision/Flow™ Model CR 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 0.2" wg to 0.8" 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 requires no standard maintenence under normal conditions.



FRONT VIEW



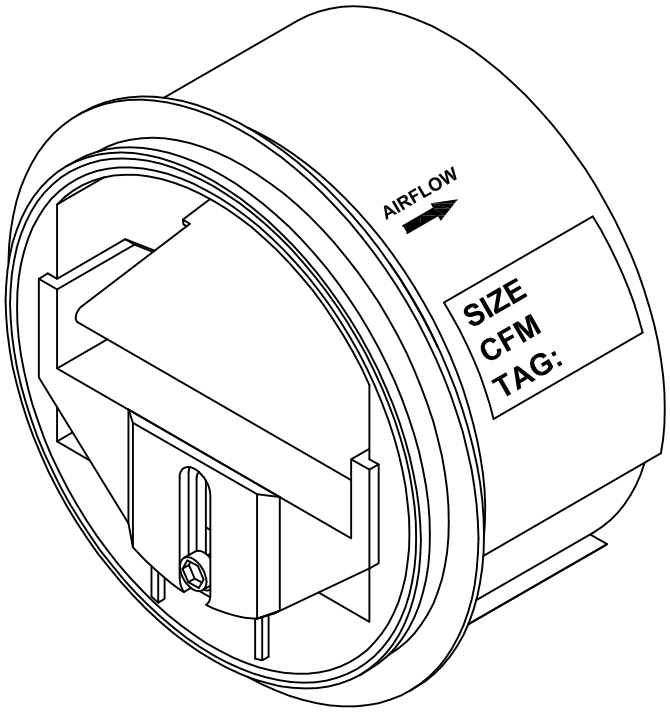
SIDE VIEW

STANDARD CONSTRUCTION:

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

Damper (nominal)	C	D
4 (101.6)	3.8 (96.5)	2.8 (70)
5 (127)	4.8 (121.9)	3.4 (86)
6 (152.4)	5.8 (147.2)	3.6 (91)
8 (203.2)	7.6 (193)	3.6 (91)
10 (254)	9.7 (246.4)	5.0 (127)

*Sizes in inches (millimeters)



OPTIONAL:

❑ 24 Ga. Galvanized Shell Enclosure

Range of Operation Static Pressure	
Minimum	0.2" w.c.
Maximum	0.8" w.c.

Job Name:	
Location:	
Architect:	
Engineer:	
Contractor:	

❑ **Precision/Flow™ Model CR**
(Supply, Exhaust, or Return)

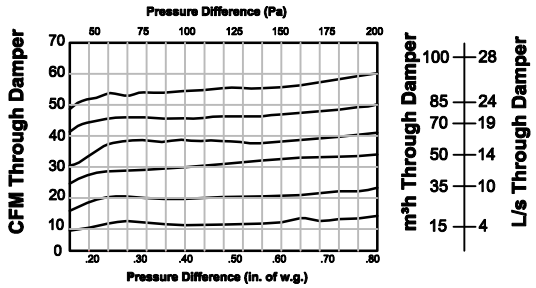
DRAWN BY:	DATE:	REV. DATE:	REV. NO.	APPROVED BY:	DWG. NO.:
DD	3-27-14	10-12-16	15	CJ	L-2C

SYSTEM CR 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 0.2" w.g.(50 Pa) and 0.8"w.g. (200 Pa). As shown if the pressure across the damper falls below 0.2" w.g. (50 Pa) then the airflow volume will be reduced. Likewise if the pressure across the damper increases to over 0.8" w.g. (200 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). The charts shown are at 68°F (20°C) and 1 atmosphere pressure.

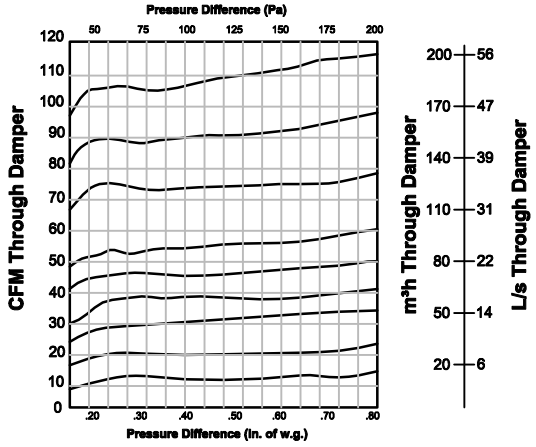
Range of Operation Static Pressure	
Minimum	.2" w.g.
Maximum	.8" w.g.

Damper size:
4" [101.6mm] nominal
(100m)



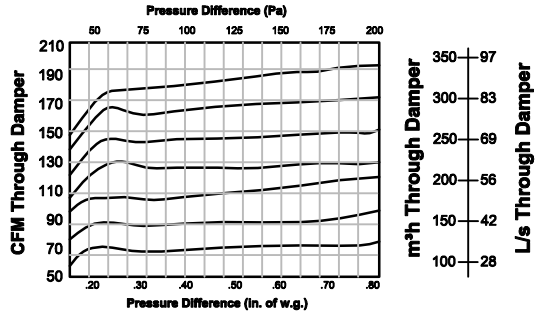
Note: Dampers are pre-set at the factory for the specified cfm

Damper size:
5" [127mm] nominal
(125 mm)



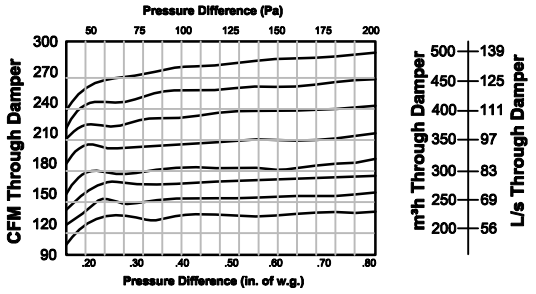
Note: Dampers are pre-set at the factory for the specified cfm

Damper size:
6" [152.4mm] nominal
(150 mm)



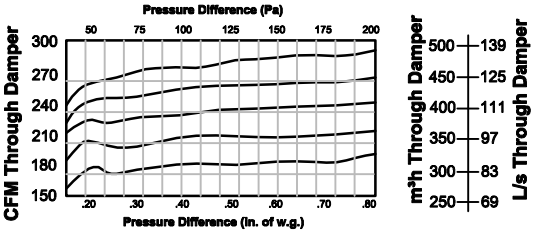
Note: Dampers are pre-set at the factory for the specified cfm

Damper size:
8" [203.2mm] nominal
(200 mm)



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

Damper size:
10" [254mm] nominal
(250 mm)



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

DRAWN BY:	DATE:	REV. DATE:	REV. NO.	APPROVED BY:
BR/CLJ	11-26-14			CLJ