

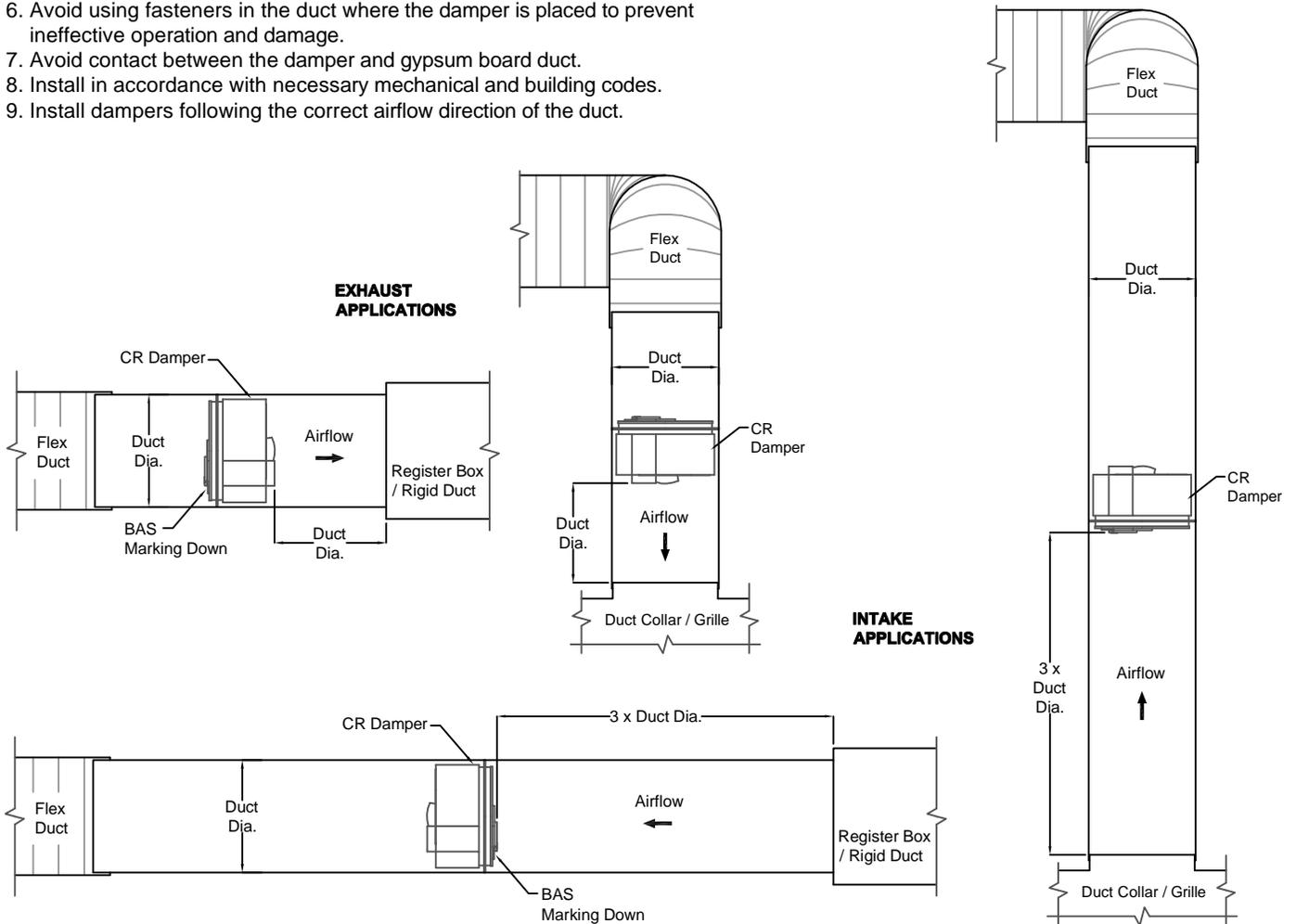
INSTALLATION AND MAINTENANCE INSTRUCTIONS

Use and Operation:

The CR damper is a device that responds automatically to duct pressure changes to regulate airflow in supply or exhaust applications. The damper adjusts the amount of free area thereby controlling constant velocity and airflow.

Installation:

1. CR Dampers may be installed either in horizontal or vertical round duct. If installed horizontally, the BAS marking must face downward.
2. Device to be installed in register boxes, rigid ducts, or duct collars through a friction fit caused by the rubber gasket. The gasket also creates an air seal. **DO NOT USE FASTENERS TO INSTALL THIS PRODUCT.**
3. If installed in an intake position, the damper must be set back at least three times the duct diameter from intake grilles. The damper must also be set back at least three times the duct diameter from duct connections, duct bends, or other places with turbulent air.
4. If installed in an exhaust position, the damper must be set back at least the distance of the duct diameter from exhaust grilles. The damper must also be set back the distance of the duct diameter from duct connections, duct bends, or other places with turbulent air.
5. Install with future access for removal or inspection.
6. Avoid using fasteners in the duct where the damper is placed to prevent ineffective operation and damage.
7. Avoid contact between the damper and gypsum board duct.
8. Install in accordance with necessary mechanical and building codes.
9. Install dampers following the correct airflow direction of the duct.



Job Name:	<input type="checkbox"/> Model CR		
Location:			
Architect:	DRAWN BY: DD	DATE: 7-22-14	REV. DATE: 1-27-16
Engineer:	REV. NO. 1	APPROVED BY: CLJ	DWG. NO.: L-2D
Contractor:			

INSTALLATION AND MAINTENANCE INSTRUCTIONS

Maintenance:

The CR Damper requires relatively minimal maintenance. However, if the device is installed in a filterless exhaust application, maintaining access for future cleaning and inspection is recommended. To clean the damper, remove the damper, wash it with soap and warm water, dry the damper, and reinstall the product.

Adjustments:

CR Dampers have an airflow adjustment range, controlled with a bit Torx T10. To change the airflow rate, unscrew the set screw and slide the damper section of the regulator up or down as needed.

Issues and Solutions:

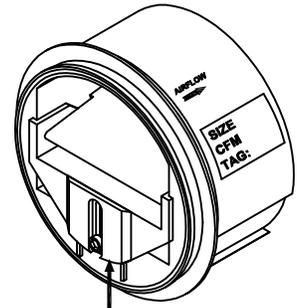
If Airflow is too Low:

- Wrong CR Damper installed; check CFM requirements against damper label, replace or adjust airflow rate if necessary.
- Damper operating incorrectly; check damper for damage and replace if necessary.
- Duct pressure too low; increase fan speed or replace fan if necessary.
- Duct air leakage too high; seal any gaps with tape.

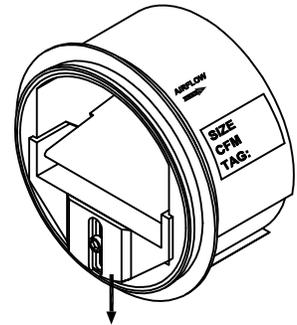
If Airflow or Noise is too High:

- Wrong CR Damper installed; check CFM requirements against damper label, replace or adjust airflow rate if necessary.
- Damper operating incorrectly; check damper for damage and replace if necessary.
- Duct pressure too high; decrease fan speed if necessary.
- Damper too close to fan; separate the two with a manual damper to lower pressure through CR Damper, or move damper further away from fan.

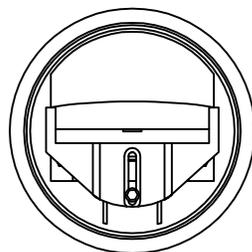
Airflow Adjustment



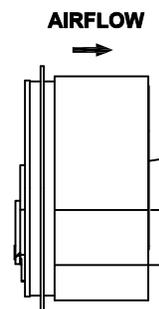
Lower Airflow Rate



Higher Airflow Rate



FRONT VIEW



SIDE VIEW

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Contractor:			