

General

The following guidelines provide basic assembly and installation instructions for model CD-95R bubble tight damper.

Warning: Read the installation instructions thoroughly before installing or servicing this equipment. Improper installation, adjustment, service or maintenance may lead to property damage, injury or death.

Receiving and Handling

Check for obvious and hidden package damage after receiving. Check to be sure that all parts of the shipment, including accessories, are in the package. Dampers must be kept clean and dry. Indoor storage and protection from dirt is highly recommended.

If there is a question about the condition of the damper or the installation process, please call customer service at 817-509-2300.

Storage of Dampers Prior to Installation

The intent of proper storage of bubble tight dampers is to prevent physical damage, material corrosion and deterioration of organic material.

1. After visually inspecting the damper for damage, store indoors, protect from sunlight, moisture and flooding. Protect dampers from debris and dirt accumulation.
2. Dampers may be stored and stacked horizontally if wood or equivalent spacers are placed between flanges. Do NOT store with axles vertical. Place dampers on pallets or supports to allow air circulation.
3. Consult manufacturer if storage time exceeds one year.

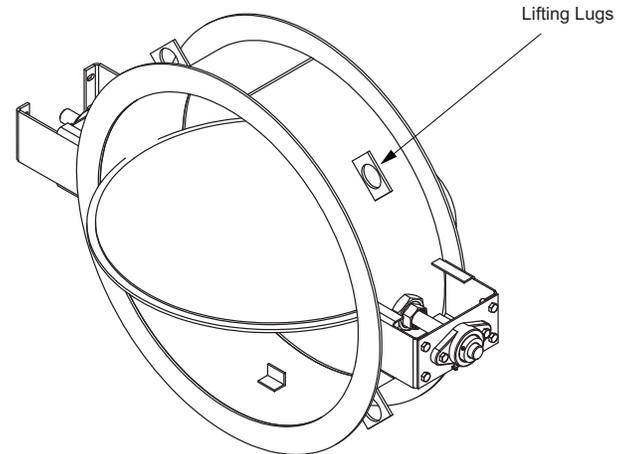
Do's

1. Only use lifting lugs on the damper frame as lifting points.
2. Install all mounting bolts before tightening. Tighten in even and staggered pattern to evenly compress flange gasketing (supplied by others).
3. Verify that damper does not strike mating ductwork or internal ductwork, reinforcing when blade is in the open position.

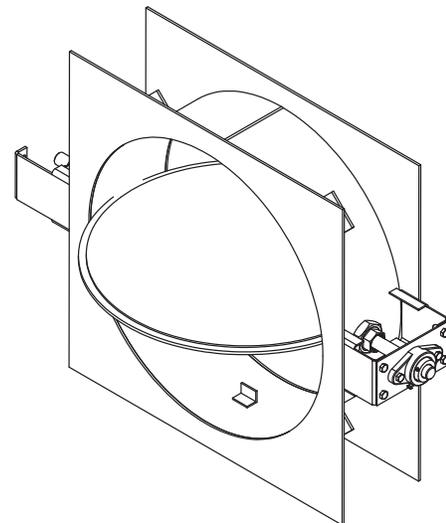
Note: It is the responsibility of the installer to verify the structural integrity of the existing structure to support the loads imparted by the damper.

Don'ts

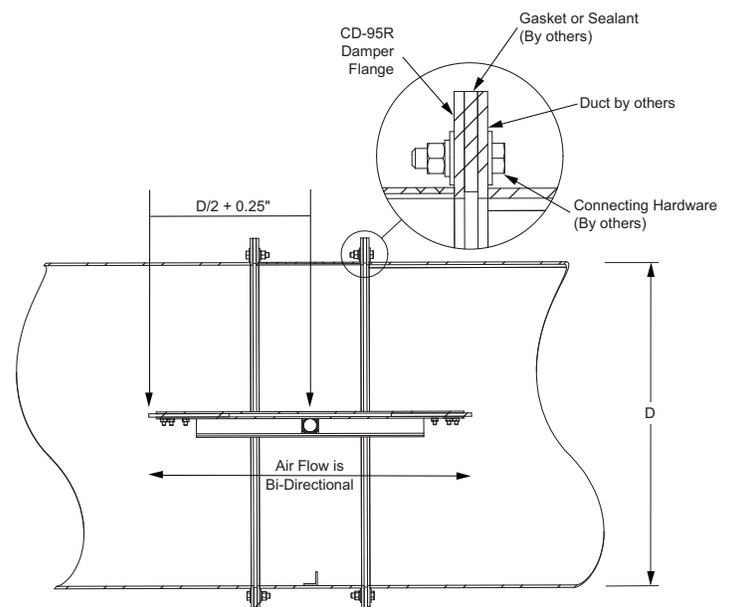
1. Do not use actuator, axles or linkage as a lifting point.
2. Do not lift damper with chain/strap with blade open and with chain/strap through frame as this could damage blade and blade seal.
3. Do not use pry bar to match the frame holes to matching ductwork as frame can be warped/pulled out-of-round by excessive force.



CD-95R



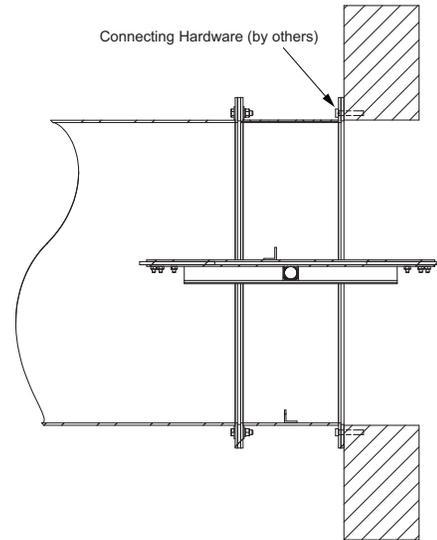
CD-95R shown with blades open and optional square flange



Duct Mount Installation

Installation Details

1. If damper is supplied without mounting holes, drill or punch as required. Pottorff is not responsible for corrosion around field punch/drilled holes on painted dampers. Use appropriate gasketing (supplied by others) between mating flanges. Closed cell sponge rubber, solid rubber, maximum 60 durometer is recommended. The seal between the mating ductwork and the damper flanges should be tested to ensure a bubble tight seal is achieved.
2. Allow minimum of half of the blade diameter upstream or downstream, plus 0.25" (6) for the blade seal material in the duct for blade rotation.
3. Damper can be mounted vertically or horizontally as a long axle is parallel to the ground.
4. Isolate damper from high vibratory loadings.



Wall Mount Installation

Damper Maintenance

Foreign Matter

Clean damper using soap and water to remove dirt that may collect and cause hindrance to airflow.

Moving Parts

Make sure that there is no obstruction to parts that are intended to move freely such as linkage, bearings and blades, etc. Lubricate components to prevent possible friction increase. Use only a molybdenum spray oil or similar graphite based oil on sleeve bearings as regular lubricating oil will attract dirt.

Closure

There should not be any foreign materials interfering with the blade closure. Any interference may keep the damper from functioning properly.

Blade Seals

Inspect annually. Replacement is recommended after 8 years to reduce the potential of leakage. Consult factory for replacement seal.

Axle Seals

Inspect and adjust as necessary.

Actuator

Cycle test actuator per manufacturer's recommendations.