

4095 Round Static Pressure Barometric Relief Damper

Young series 4095 Round Barometric Damper is used to automatically bypass excess air when increases in duct static pressure occur due to closing of zone dampers. Various relief air control settings are easily accomplished by simple adjustment of an integral weighted control lever. 4095 Barometric Relief Dampers are recommended for systems up to 1" static pressure. For higher pressure systems use models 3092 and 4092 motorized bypass dampers.

FEATURES

- Fast, simple installation.
- Heavy gauge shell is fabricated from galvanized steel, with one straight and one crimped end, along with rolled-in stiffening beads for superior rigidity.
- Easy adjustment of weighted control lever.
- Oil impregnated bronze bushings and steel shaft for smooth and quiet operation.
- Heavy duty gasket for damper blade.



OPERATION

Model 4095 damper operates automatically to relieve excess air in duct systems through the use of an integral counter-balanced weighted control lever. The weight can be moved in either direction along the entire length of the lever to allow the damper to open only when necessary.

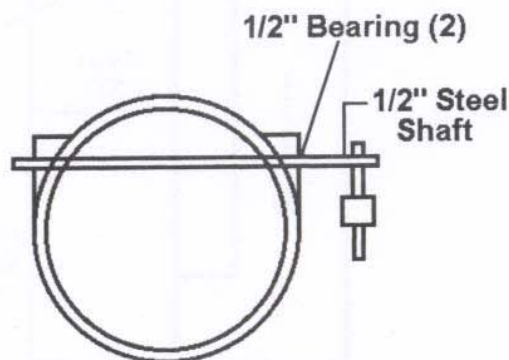
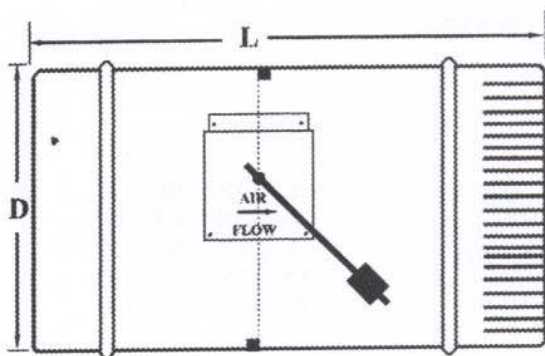
OPTIONS

Additional weights for control lever.

AVAILABLE SIZES

Please contact the factory for larger and intermediate sizes.

<u>Diameter</u>	<u>CFM</u>	<u>Length</u>	<u>Diameter</u>	<u>CFM</u>	<u>Length</u>
8"	400	8-3/4"	14"	1800	14"
10"	750	10"	16"	2400	16"
12"	1200	12"			



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GENERAL INSTRUCTIONS FOR RESIDENTIAL/LIGHT COMMERCIAL BAROMETRIC BYPASS DAMPER

HOW THE BYPASS DAMPER WORKS

As the individual zone dampers close, the system static pressure will tend to rise. In order to maintain constant airflow through the HVAC system, a barometric bypass damper will be required.

INSTALLING THE BYPASS DAMPER

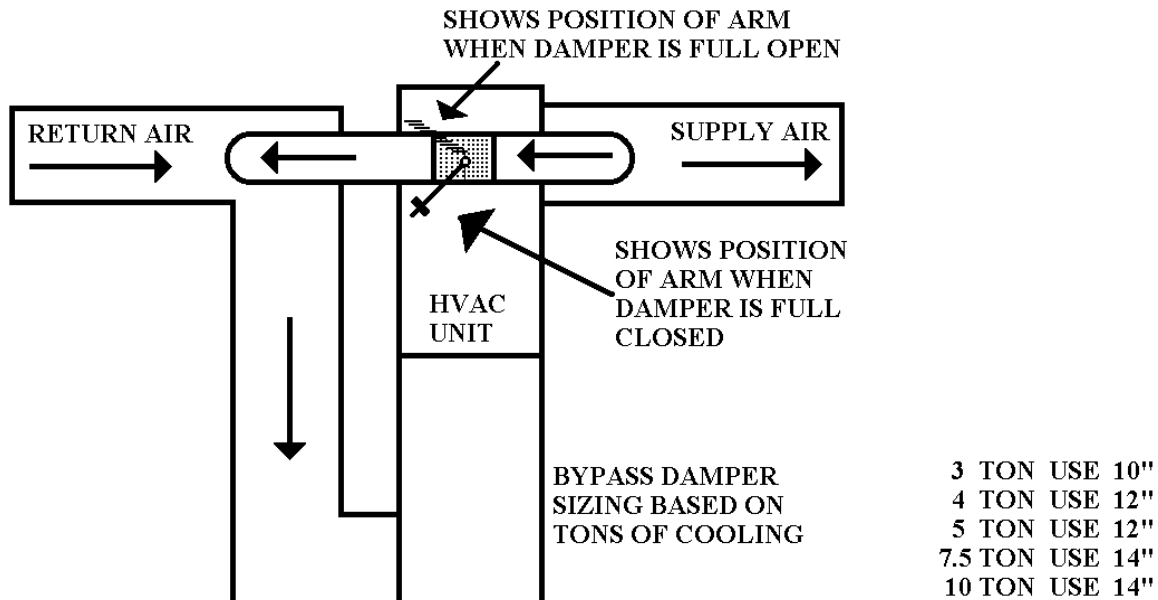
The bypass damper should be installed in such a way as to connect the supply air duct to the return air duct. The damper should be installed in the horizontal position. Tap into the return air duct at least two feet back from the return air plenum if possible.

ADJUSTING THE BYPASS DAMPER

With the HVAC unit running, adjust the weight located on the rod so that the bypass damper is fully closed when all zone dampers are in the full open position. To increase the system static pressure move the weight outward toward the end of the rod. To decrease the system pressure move the weight inward toward the damper shaft. To insure that all zone dampers are in the open position while adjusting the bypass damper, disconnect one of the two wires to each of the spring return open damper motors. Additional weights can be added to the bypass damper arm if necessary.

BAROMETRIC BYPASS DAMPER

FOR USE ON SYSTEMS WITH STATIC PRESSURE RATINGS UP TO 1" W.C.



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