

ZBBD25 BAROMETRIC BYPASS DAMPER

Ruskin Model ZBBD25 barometric bypass dampers are used to automatically bypass excess air when the duct static pressure increases due to the closing of zone dampers. The barometric bypass dampers relieve excess air in duct systems through the use of a counter-

balanced controlled arm weight. Various relief air control settings are created by simple adjustment of the weight on the arm. The weight can be moved either direction along the entire length of the arm to allow the damper to open at the desired pressure.

STANDARD CONSTRUCTION

FRAME

18 gage (1.2) spiral, galvanized steel

BLADE

18 gage (1.2) spiral, galvanized steel

BLADE

1/2" (13) aluminum shaft

BEARINGS

Nylon bushings

BLADE SEAL

Sponge foam, glued & caulked

DAMPER SIZES

7", 8", 9", 10", 12", 14", 16" (178, 203, 229, 254, 305, 356, 406)

TEMPERATURE RANGE

0°F to 180°F (-18°C to 82°C) Operating

HUMIDITY

5% to 95% Non-condensing

STATIC PRESSURE

From .02" to 0.75" W.C. (5 to 187 Pa)

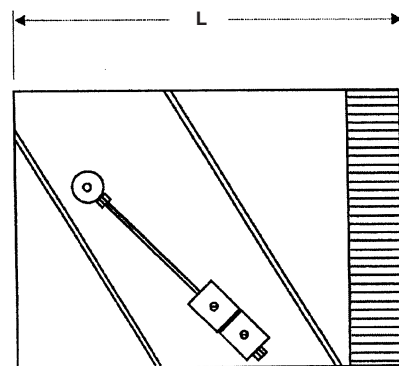
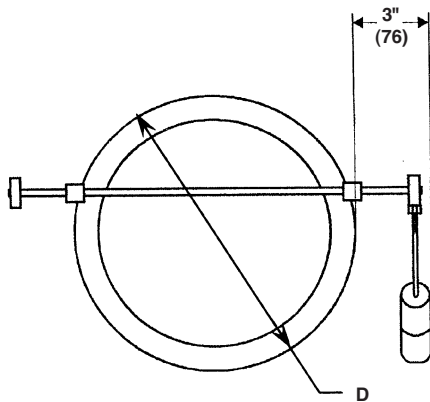
NOTES:

1. Dampers are furnished 1/4" (6) under stated diameter
2. Use for horizontal airflow applications only
3. Dimensions shown in parentheses () indicate millimeters.



FEATURES

- Heavy duty blade gasket
- Fast, simple installation
- Easy adjustment
- Heavy gage shell is fabricated from galvanized steel, with one straight and one crimped end, along with rolled-in stiffening beads for superior rigidity.
- Smooth and quiet operation



DIMENSIONS	
"D" DIAMETER	"L" Length
7" (178)	10" (254)
8" (203)	10" (254)
9" (229)	10" (254)
10" (254)	10" (254)
12" (305)	13" (330)
14" (356)	14" (356)
16" (406)	14" (356)

SUGGESTED SPECIFICATION

Furnish and install, at locations shown on plans, or as in accordance with schedules, barometric bypass dampers built to the following minimum requirements. Frame shall be 18 gage (1.2) galvanized steel. Blade shall be 18 gage (1.2) galvanized steel, mechanically fastened to a 1/2" (13) dia. continuous aluminum shaft. Shaft shall ride on nylon bushings, at both ends, to provide smooth and quiet operation. Foam blade seal shall be glued and caulked to ensure

damper leakage integrity. Damper shall be equipped with a factory furnished, and installed counterbalance control arm weights that are field adjustable. Damper shall be designed for a range of .02 inches to 0.75 inches of water column (5 to 187 Pa). Barometric bypass damper shall be, in all respects, equivalent to Ruskin model ZBBD25.



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