

## DRAFT CONTROL INSTALLATION BAROMETRIC DRAFT REGULATORS

BAROMETRIC DRAFT REGULATORS (when supplied) must be installed such that the minimum distance from the centerline of the barometric draft control to the top of the boiler jacket is at least one flue pipe diameter. Barometric draft controls should preferably be mounted in the end of a tee as shown in Figure 1.8.6A. This will allow better control of minor downdraft conditions. DO NOT INSTALL THE BAROMETRIC IN A ROOM SEPARATE FROM THE BOILER.

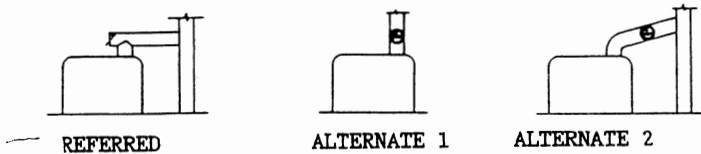


FIGURE 1.8.6A: BAROMETRIC DRAFT CONTROL LOCATION

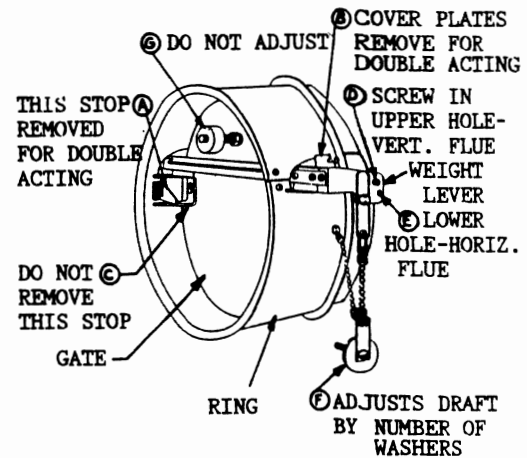


FIGURE 1.8.6B: BAROMETRIC DRAFT CONTROL - MG2

### CONTROL PREPARATION

The stop and two cover plates are painted in a different color for easy identification. To remove the stop simply remove the two screws that hold it to the ring. See Figure 1.8.6B. To remove cover plates (Item B), bend or break off the tab that goes through the small hole in the ring. DO NOT REMOVE THE STOP ATTACHED TO THE GATE (Item C.)

### INSTALLATION

Insert the draft control into the collar. The front face of the control MUST BE PLUMB. The bearing surfaces MUST BE LEVEL whether the control is on a horizontal, vertical or sloping flue pipe. Using a spirit level, plumb and level accurately. Secure the control in the collar by tightening the clamping screws. If the collar is supplied locally, the control may be held in place by small bolts or sheet metal screws. If the control has any tendency to sag, support it from overhead by wire or strapping.

### VERTICAL FLUES

The control is shipped for installation in a

vertical flue. The screw should be left in the top hole of the weight lever. (Item D)

### HORIZONTAL FLUES

For horizontal flues, remove the screw from the upper hole in the weight lever and insert it in the lower hole. (Item E)

### ADJUSTING THE CONTROL

The control is adjusted to achieve the desired draft or CO<sub>2</sub> by adding or removing weights (washer type, Item F) at the end of the chains. DO NOT MOVE THE LARGE WEIGHTS ATTACHED DIRECTLY TO THE GATE (Item G) as they are used only for adjustment at the factory.

DRAFT should generally be set between  $-.02''$  and  $-.04$  wc. The actual setting must be determined by taking a CO<sub>2</sub> reading and a CO reading at the boiler flue. The CO<sub>2</sub> should be between 8% and 9.5% with a CO no greater than 0.025%. The combustion readings and draft setting must be done by a qualified boiler service technician.