



## INSTALLATION

Maximum supply pressure is 150 psig (10 BAR). Maximum signal pressure is 150 psig (10 BAR). Standard operating temperature is -40<sup>0</sup> F to 160<sup>0</sup> F (-40<sup>0</sup> F to 71<sup>0</sup> C); EPDM Option "R" temperature is -40<sup>0</sup> F to 230<sup>0</sup> F (-40<sup>0</sup> F to 110<sup>0</sup> C); Silicone Option "H" temperature is -60<sup>0</sup> F to 230<sup>0</sup> F (-51<sup>0</sup> F to 110<sup>0</sup> C).

Prior to installation clean all air lines to remove dirt and other debris. Apply a small amount of compound to the male threads only and install the volume booster so that the flow is in accordance with the IN and OUT ports as marked. The signal port is tapped into the volume booster through the 1/4" NPT connection on top of the unit. Make sure that all connections are tight and that the exhaust vent on the side of the volume booster is not blocked shut. The volume booster can be mounted in any position without effecting operation.

The use of a filter to remove dirt and liquid in the air line ahead of the booster is recommended for consistent performance. If an air line lubricator is used, it should be located downstream of the Type-6000.

## OPERATION

1. Apply pressure of up to 150 psig to the supply port. Apply an input signal of up to 150 psig to the signal port. Use the bypass valve to make adjustments for stable operation.
2. Turning the bypass valve clockwise (closing) speeds response but can lead to instability. Turning the bypass valve counter clockwise (opening) aids stability but will slow the actuator's response. By appropriately adjusting the bypass valve, small signal changes will pass into the actuator or valve positioner without initiating booster operation.



**WARNING:** The bypass valve will be fully open within three counter clockwise revolutions. Further opening will initiate a bleed at the vent located on the side of the bypass valve housing. This is a warning to the user that the bypass valve has been over-turned. Turn the bypass valve clockwise until bleed is eliminated.

## MAINTENANCE

Repair kits and replacement parts may be purchased. The vent holes in the bonnet should be kept clean. A slight flow of air through this hole is necessary for the proper operation of the volume booster.

## LIMITED WARRANTY & DISCLAIMER

ControlAir, Inc. products are warranted to be free from defects in materials and workmanship for a period of eighteen months from the date of sale, provided said products are used according to ControlAir, Inc. recommended usages. ControlAir, Inc.'s liability is limited to the repair, purchase price refund, or replacement in kind, at ControlAir, Inc.'s sole option, of any products proved defective. ControlAir, Inc. reserves the right to discontinue manufacture of any products or change products materials, designs or specifications without notice. Note: ControlAir does not assume responsibility for the selection, use, or maintenance of any product. Responsibility for the proper selection, use, and maintenance of any ControlAir product remains solely with the purchaser and end user.

## WARNING

**WARNING: Do not use these products where pressures and temperatures can exceed those listed under Specifications. Before using these products with fluids other than air, for non-industrial applications, life-support systems, or other applications not within published specifications, consult ControlAir, Inc.**

## REPAIR KITS

Repair Kit P/N: 449-871-089

Repair Kit components: Diaphragm Assembly  
3 'O' Rings  
Body Gasket