

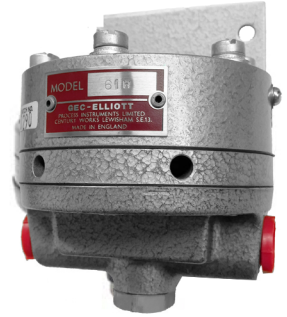
SD61H-1
Rev 8
May 2009
Supersedes Rev 7

Model 61H Booster Relay

INTRODUCTION

Designed to meet high-speed control applications, the Model 61H Booster Relay produces a high volume boosting action. Its primary purpose is for use with valve positioners, although it can be used by itself for the high volume of air it can control. (This relay is not normally used in measuring circuits.)

The relay contains an integral stabilizing bypass valve, eliminating the need for an externally piped bypass. The bypass opening is controlled by a screwdriver adjustment in the body of the relay which permits tuning for optimal dynamic response. Opening this valve improves the stability of the positioner/relay/actuator circuit.



This instruction has five major sections: Introduction, Installation, Maintenance, Warranty, and Parts List.

Specifications

Supply Pressure	100 psig max.
Input Pressure	100 psig max.
Accuracy of 1:1 Ratio	5% (based on 3-15 psi input)
Reproducibility	0.1% (based on 3-15 psi input)
Linearity	0.4% (based on 3-15 psi input)
Maximum Flow Coefficient [C _v]	0.9 Supply; 1.1 Exhaust
Ambient Temperature Limits	-40° to +180°F (-40° to +82.2°C)
Materials of Construction	Delrin™, brass, stainless steel, Buna-N, epoxy polyester powder coat, nickel plate; diaphragm material: nitrile on polyester (effective mid-2009), neoprene on cotton/polyester

INSTALLATION

Shipping and Storage

If the relay is to be stocked, stored, or shipped to another location prior to piping, make sure that the factory installed plastic plugs are in the ports to prevent entry of moisture, dirt, or other contaminants.

Mounting

Refer to relay installation drawing 10342-78 for mounting dimensions and location of input, output, and supply ports. Relay input is often connected to the output of a positioner. Connections are 1/4" NPT. Mount the relay in a reasonably vibration free location.

Operating temperature limits are listed in the Specifications section of this Instruction. The temperature in the selected location must not exceed the specified operating temperatures.

CAUTION

Exceeding the specified ambient temperature limits can adversely affect performance and may cause damage to the relay.