T75 Air Relays

Features

The Type 75 relay uses signal pressure to accurately control output pressure over a wide range of flow and supply pressure variation.

Under varying flow conditions output pressure is maintained by use of an aspirator tube, which adjusts the air supply valve opening in accordance with the flow velocity. A balanced supply valve, utilizing a rolling diaphragm, makes the relay virtually immune to changes in supply pressure. Maintenance is simple due to the unit construction, and the relay can be serviced without removing it from the line. Signal to output pressure ratios of 1:1, 1:2, 1:4 and 1:6 are available. Maximum output is 150 PSIG (10.3 BAR).

Applications

- Volume Boosting
- Gas Flow Control
- Valve Motor Loading
- Temperature Range -40˚F to +200˚F

Models

Type 75

The basic relay offers excellent precision along with high forward flow rates.

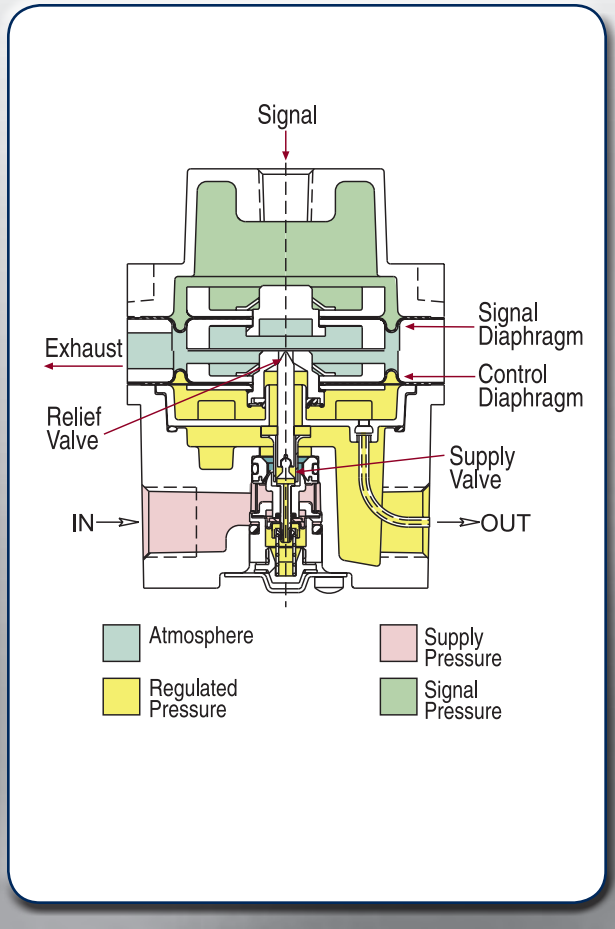
Type 75 High Relief Relays

These relays provide extra fast "blow-down" for very rapid release of output pressure. The extra relief feature makes this relay suitable for cylinder return stroke actuation, air hoists, and similar applications requiring fast exhaust.

To calculate negative bias relay output:

Relay output = (signal pressure) - 4 PSI bias x (relay ratio factor) where the relay ratio factor is defined as follows:

Relay Ratio	Factor
1:1	1
1:2	2
1:4	4
1:6	6



Type 75 Dimensional Drawing