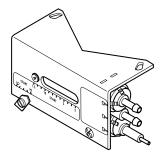
Positive Positioning Relay

Positive positioner pneumatic relay is used to accurately position an actuator stroke with respect to signal pressure from the controller. It can also be used to change the effective spring range of an actuator and increase the capacity of a controller.

Features:

For accurate positioning of valve and damper actuators, this positioner utilizes a pilot-operated, relay-type position-sensing mechanism, much more sensitive to actuator position changes than some competitive "force-balance" positioners.



Model Chart	
Model No.	Description
AK-42309-500 ^a	Refer to Specifications.

^a AK-42309-500 positive positioner cannot be used with M556, M572, M573, M574, M693, MK-2400, MK-2690-0-0, MK-4600 Series (before 0, 2 date code), MK-11000, and MK-12000 Series actuators.

Specifications	
Action	Direct (increase in output pressure to actuator with an increase in pilot pressure from controller).
Pilot input	0 to main air pressure, psig.
Output	0 to main air pressure, psig.
Construction	
Housing	Polysulfone.
Diaphragm	Neoprene.
Start point	Adjustable 1 to 12 psig (7 to 83 kPa).
Span	Adjustable 2 to 13 psi (14 to 90 kPa); factory set at 5 psig.
Stroke	Adjustable 2 to 13 psi (14 to 90 kPa); factory set at 5 psig with feedback spring for 7/16 to 5 in. stroke.
Supply air pressure	Clean, oil free, dry air required (refer. EN-123).
Maximum	30 psig (207 kPa).
Nominal supply	15 to 20 psig (103 to 138 kPa).
Environment	
Ambient temperature limits	Shipping: -40 to 160°F (-40 to 71°C). Operating: 32 to 140°F (0 to 60°C).
Humidity	5 to 95% R.H., non-condensing.
Locations	NEMA Type 1.
Air connection code	Refer to Figure 1.
Air connections	
"M" and "B"	Barbed for 1/4 in. O.D. plastic tubing.
"P"	Dual-contoured for 1/4 in. O.D. and 5/32 in. O.D. tubing.
Air consumption for sizing air compressor	0.011 scfm (5.2 ml/s) at 20 psig (138 kPa) supply.
Air capacity for sizing air mains	20 scim (5.5 ml/s).
Flow capacity	860 scim (235 ml/s) at 20 psig (138 kPa) supply.
Mounting linkage	All necessary linkage provided to assemble AK-42309-500 to MK-2690-0-0-1, 3000, 4600-0-0-2, 4700, 4800, 6800, 6900, 7000, 8800, and 8900 actuators.
Dimensions	2-1/2 H x 4-1/2 W x 3 D in. (64 x 114 x 76 mm).

Accessories

Siebe Model No. TOOL-95-1

Description Pneumatic calibration tool kit.

Typical Applications

