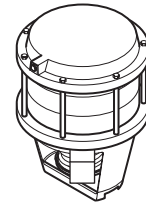


## Valve Actuators, Proportional

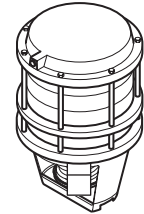
Proportional pneumatic actuator with 100 in.<sup>2</sup> (645 cm<sup>2</sup>) effective area. MK-88xx Series used to control 2-1/2 in. through 4 in. valves requiring 1 in. stroke. MK-89xx Series used to control 5 in. and 6 in. valves requiring 2 in. nominal stroke. Used with VB-931x and discontinued VB-921x, VB-922x valves.

Features:

- Heavy duty aluminum construction.
- Large diaphragm area provides the required force to modulate large valves.
- Valve stroke indicated in 1/8 in. increments.



MK-88xx Series



MK-89xx Series

### Model Chart

Model No.	Nominal Spring Range <sup>a</sup>		Nominal Stroke		For Use with Valve Bodies
	psig	kPa	in.	mm	
MK-8801	3 to 8	21 to 55	1	25.4	2-1/2 to 4 in. VB-9213 VB-9223 VB-9313
MK-8811	5 to 10	34 to 69			
MK-8821	8 to 13	55 to 90			
MK-8901	3 to 8	21 to 55	2	50.8	5 in. and 6 in. VB-9213 VB-9223 VB-9313
MK-8911	5 to 10	34 to 69			
MK-8921	8 to 13	55 to 90			

<sup>a</sup> Nominal (no load) spring ranges are based on maximum 1 in. (25.4 mm) or 2 in. (50.8 mm) stroke.

### Specifications

#### Construction

<b>Housing</b>	Die cast aluminum.
<b>Diaphragm</b>	Replaceable beaded molded neoprene.
<b>Stroke</b>	Refer to Model Chart.
<b>Spring</b>	Retracts actuator shaft and raises valve stem on loss of air pressure.
<b>Nominal spring range</b>	Refer to Model Chart.
<b>Starting point</b>	Adjustable ±1 psi (7 kPa).
<b>Maximum air pressure</b>	30 psig (207 kPa).
<b>Ambient temperature limits</b>	
<b>Shipping</b>	-40 to 220°F (-40 to 104°C).
<b>Operating</b>	-20 to 220°F (-29 to 104°C).
<b>Air connection</b>	1/8 in. FNPT.
<b>Valve linkage</b>	Order separately AV-496-0-0-1.
<b>Valve stroke position indication</b>	1/8 in. (3 mm) increments.
<b>Mounting</b>	In any upright position with actuator head above 45° of the center line of the valve body.
<b>Dimensions</b>	
<b>MK-88xx Series</b>	11-3/4 H x 10-1/2 W x 10-1/2 D in. (298 x 267 x 267 mm).
<b>MK-89xx Series</b>	12-3/4 H x 10-1/2 W x 10-1/2 D in. (342 x 267 x 267 mm).

### Accessories

Model No.	Description
AK-42309-500	Positive positioner with linkage.
TOOL-095-1	Pneumatic calibration tool kit.
<b>Maintenance Parts</b>	
PNV-202	Diaphragm (2 required).
PNV-312	Rolling diaphragm.