



MK-2690

*Pneumatic Valve Actuator
General Instructions*

Application

For proportional pneumatic control of 1/2" to 1-1/4" VB-111 and VB-9XXX series valves.

Features

- Compact size with 6 in.² (39 cm²) effective area.
- Rugged die cast aluminum housing.
- Replaceable beaded molded neoprene diaphragm.



Applicable Literature

- Environmental Controls Cross-Reference Guide
F-23638
- Environmental Controls Reference Manual
F-21683
- Environmental Controls Application Manual
F-21335
- AV-400 Valve Linkage — General Instructions
F-19073

SPECIFICATIONS

Actuator Inputs

Compatible With: Proportional pneumatic signal. See Table-1.

Start Point, Non-adjustable.

Air Connections: 1/8" FNPT located on side of housing.

Actuator Outputs

Mechanical:

Stroke, 1/2" (12.6 mm) nominal.

Environment

Ambient Temperature Limits:

Shipping, -40 to 220° F (-40 to 104° C).

Operating, -20 to 220° F (-29 to 104° C).

Humidity: 5 to 95% RH, non-condensing.

Location: NEMA Type 1 indoor only.

Maximum Air Pressure: 30 psig (207 kPa).

Spring: Retracts actuator shaft and raises valve stem on loss of air pressure.

Springs provided in AV-400 linkage (order separately).

Table-1 Spring Ranges.

Actuator Part Number	Nominal Spring Range* (Spring Color Code)	
	psig	kPa
MK-2690	3 to 7 (Yellow)	21 to 48
	5 to 10 (Black)	34 to 69
	8 to 13 (Blue)	55 to 90

*Nominal (no load) condition, spring ranges based on 1/2" (13 mm) maximum stroke, provided by AV-400 linkage (order separately).

ACCESSORIES

AK-42309-500 Positive positioner and linkage; use with MK-2690-0-0-1 or MK-2690-0-0-2 models only

AV-400 Valve linkage

TOOLS

TOOL-95-1 Pneumatic calibration tool kit

MAINTENANCE PARTS

PNV-102 Diaphragm