# **PNEUMATICS & FITTINGS**

# PNEUMATIC GLOBE VALVE ACTUATORS

MK-2690. MK-46XX. MK-6XXX SERIES



#### **DESCRIPTION**

The Schneider Electric MK Series actuators provide proportional pneumatic control of Schneider Electric VB-7000 and VB-8000 Series globe valves.

#### **FEATURES**

- Rugged die cast aluminum construction
- MK-46xx, MK-6xxx have rolling diaphragms for long life
- Multiple spring ranges for various applications

## **COMMON SPECIFICATIONS**

Spring return valve stem up 1/8" NPT

Connections

Positioner Order separately AK-42309-500 Operating Temperature -20° to 220°F (-29° to 104°C) 5 to 95% RH non-condensing **Operating Humidity** Maximum Pressure 30 psig (207 kPa)

**Dimensions** 

MK-2690 3.6"H x 5.0"W x 2.3"D (9.0 x 12.7 x 5.7 cm)

MK-46xx 3.9"H x 4.8"DIA (9.9 x 12.1 cm) MK-6xxx 7.8"H x 10.5"DIA (19.9 x 26.7 cm)

Mounting Vertical upright

Warranty 1 year







MK2690

MK-46xx

## **INDIVIDUAL SPECIFICATIONS**

Model	Spring Range	Stroke	Diaphragm	Linkage
MK-2690	Springs provided in AV-7400 or AV-400 linkage (order separately)	1/2" (1.3 cm) nominal	6 sq. in. (39 sq. cm)	AV-400 or AV-7400, order separately
MK-4601	3-8 psi (21-55 kPa)	1/2" (1.3 cm) nominal	11 sq. in. (71 sq. cm)	AV-401 required, order separately
MK-4611	5-10 psi (34-69 kPa)	1/2" (1.3 cm) nominal	11 sq. in. (71 sq. cm)	AV-401 required, order separately
MK-4621	8-13 psi (55-90 kPa)	1/2" (1.3 cm) nominal	11 sq. in. (71 sq. cm)	AV-401 required, order separately
MK-4641	3-13 psi (21-90 kPa)	1/2" (1.3 cm) nominal	11 sq. in. (71 sq. cm)	AV-401 required, order separately
MK-6601	3-8 psi (21-55 kPa)	1/2" (1.3 cm) nominal	50 sq. in. (323 sq. cm)	AV-430 required, order separately
MK-6611	5-10 psi (34-69 kPa)	1/2" (1.3 cm) nominal	50 sq. in. (323 sq. cm)	AV-430 required, order separately
MK-6621	8-13 psi (55-90 kPa)	1/2" (1.3 cm) nominal	50 sq. in. (323 sq. cm)	AV-430 required, order separately
MK-6801	3-8 psi (21-55 kPa)	1" (2.5 cm) nominal	50 sq. in. (323 sq. cm)	AV-497 required, order separately
MK-6811	5-10 psi (34-69 kPa)	1" (2.5 cm) nominal	50 sq. in. (323 sq. cm)	AV-497 required, order separately
MK-6821	8-13 psi (55-90 kPa)	1" (2.5 cm) nominal	50 sq. in. (323 sq. cm)	AV-497 required, order separately
MK-6911	5-10 psi (34-69 kPa)	1-3/4" (4.4 cm) nominal	50 sq. in. (323 sq. cm)	AV-497 required, order separately

#### **NOMINAL SPRING RANGES**

Model Number	Nominal Spring Range <sup>a</sup> (Spring Color Code)		
Model Number	psig	kPa	
	3 to 7 (Yellow)	21 to 48	
MK-2690	5 to 10 (Black)	34 to 69	
	8 to 13 (Blue)	55 to 90	

<sup>a</sup>Nominal (no load) condition, spring range based on 1/2" (13mm) maximum stroke, provided by AV-7400 or AV-400 linkage



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## **NOMINAL SPRING RANGES (CONTINUED)**

	Mandal a sub a s	Nominal spring range	Nominal spring range <sup>a</sup> (Spring color code)		
	Model number	psig	kPa		
-0.	MK-4601	3 to 8	21 to 55		
ele	MK-4611	5 to 10	34 to 69		
	MK-4621	8 to 13	55 to 90		
	MK-4641	3 to 13	21 to 90		

<sup>&</sup>lt;sup>a</sup>Nominal (no load) condition, spring range based on 1/2" (13mm) maximum stroke.

Model number	Nominal spring range <sup>a</sup> (Spring color code)		Nominal stroke
woder number	psig	kPa	in (cm)
MK-6601	3 to 8	21 to 55	0.5 (1.37)
MK-6611	5 to 10	34 to 69	0.5 (1.37)
MK-6621	8 to 13	55 to 90	0.5 (1.37)
MK-6801	3 to 8	21 to 55	
MK-6811	5 to 10	34 to 69	1.0 (2.54)
MK-6821	8 to 13	55 to 90	10
MK-6911 <sup>bc</sup>	5 to 10	34 to 69	1.5 (3.31)

<sup>&</sup>lt;sup>a</sup>Nominal (no load) condition, spring range based on 0.5" (13mm) maximum stroke, 1" (25.4mm), or 1.5" (33.1mm) stroke for MK-6911.

## **ORDERING INFORMATION**

MODEL	DESCRIPTION
MK-2690	Pneumatic valve actuator, 1/2" stroke, no springs (order AV-400 or AV-7400 linkage kit)
MK-4601	Pneumatic valve actuator, 1/2" stroke, 3-6 psi spring range, for 1/2" to 1-1/4" VB-7xxx globe valves
MK-4611	Pneumatic valve actuator, 1/2" stroke, 5-10 psi spring range, for 1/2" to 1-1/4" VB-7xxx globe valves
MK-4621	Pneumatic valve actuator, 1/2" stroke, 10-13 psi spring range, for 1/2" to 1-1/4" VB-7xxx globe valves
MK-4641	Pneumatic valve actuator, 1/2" stroke, 3-13 psi spring range, for 1/2" to 1-1/4" VB-7xxx globe valves
MK-6601	Pneumatic valve actuator, 1/2" stroke, 3-8 psi spring range, for 1-1/2" to 2" VB-7xxx globe valves
MK-6611	Pneumatic valve actuator, 1/2" stroke, 5-10 psi spring range, for 1-1/2" to 2" VB-7xxx globe valves
MK-6621	Pneumatic valve actuator, 1/2" stroke, 3-13 psi spring range, for 1-1/2" to 2" VB-7xxx globe valves
MK-6801	Pneumatic valve actuator, 1" stroke, 3-8 psi spring range, for 2-1/2" to 5" VB-8xxx globe valves
MK-6811	Pneumatic valve actuator, 1" stroke, 5-10 psi spring range, for 2-1/2" to 5" VB-8xxx globe valves
MK-6821	Pneumatic valve actuator, 1" stroke, 8-13 psi spring range, for 2-1/2" to 5" VB-8xxx globe valves
MK-6911	Pneumatic valve actuator, 1-3/4" stroke, 5-10 psi spring range, for 6" VB-8xxx globe valves

### **ACCESSORIES**

**OVER 1.8 MILLION PARTS IN STOCK** 

**AV-400** Linkage kit for assembling MK-2690 pneumatic actuators to 1-1/2" & 2" globe valves AV-7400 Linkage kit for assembling MK-2690 pneumatic actuator to 1/2" to 2" VB-7xxx globe valves AK-42309-500 Positive positioner kit for MK-2690, MK-46xx, MK-6xxx actuators

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bMK-6911 is only used on 6.0" VB-8xx3-0-5-16. The MK-6911 was used on discontinued 4" to 6" VB-9323-0-5-x.

Recommended for field replacements only where 20 psi air supply pressure is not available and/or required close-off pressure is less than 125 psi.