

# Kinetrol Model 60 Spring Return Single Acting Actuator

## Specification

### Angle of Travel (adjustable)

80° - 100°

(restricted travel versions available)

### Displaced Volume

94500 cm<sup>3</sup> / 5762 in<sup>3</sup>

### Materials of Construction

**Casing:** Sand cast aluminium alloy

**Vane & Output Shaft:** SG iron, zinc plated

**Shaft bushes:** PTFE coated bronze (lead free)

**Seals:** Moulded polyurethane

**Seal expanders:** Stainless spring steel

**Clock Type Spring:** Carbon spring steel

### Finish

Epoxy stove enamel

### Weight

1398.0 kg / 3082.5 lb (excluding coupling)

### Operating Temperature

-40°C to +80°C (-40°F to +176°F)



ATEX Category 2

## Spring Torques

### Metric Units - Nm

Actuator Model	Position of air OR spring return stroke	Pressure (bar)											
		1.7	2.0	2.4	2.8	3.1	3.5	3.8	4.1	4.5	4.8	5.2	5.5
60-120	Start									14001.0	15145.0	16313.0	17437.0
	Finish									11689.0	12644.0	13619.0	14558.0

### English Units - lbf ins

Actuator Model	Position of air OR spring return stroke	Pressure (psi)											
		25	30	35	40	45	50	55	60	65	70	75	80
60-120	Start									123872	134045	144379	154333
	Finish									103416	111909	120537	128847

Factory assembled actuator/spring return assemblies have the spring pretension set for "balanced" torque output when the actuator is operated by air at 5.5 bar (80 psi). Factory assemblies can be preset for different air pressures below 5.5 bar (80 psi) on request.

## Options

- Low pressure spring option
- Limit switch boxes for open/closed indication - various switches including hazardous area
- AP pneumatic positioner - full range of options
- EL electropneumatic positioner - full range of options
- P3 on/off positioner - full range of options including hazardous area

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## Product Code

## Air Ports

## Mount Holes

600-120 Metric Spring Return Clockwise	G2	8 x M30 x 80 deep on 356 PCD
600-130 Metric Spring Return Counter Clockwise	G2	8 x M30 x 80 deep on 356 PCD
609-120 English Spring Return Clockwise	2 NPT	8 x 1½-7 UNC x 3.15" deep on 14.02" PCD
609-130 English Spring Return Counter Clockwise	2 NPT	8 x 1½-7 UNC x 3.15" deep on 14.02" PCD

For female drive part codes contact Kinetrol

## Dimensions

