

# Kinetrol Model 09 Spring Return Single Acting Actuator

## Specification

### Angle of Travel (adjustable)

80° - 100°

(restricted travel versions available)

### Displaced Volume

644 cm<sup>3</sup> / 39.3 in<sup>3</sup>

### Materials of Construction

**Casing:** Pressure die 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

10.76 kg / 23.78 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
09-120	Start						61.0	67.8	74.6	81.9	89.3	96.6	104.0
	Finish						50.3	56.5	63.8	71.2	79.1	86.4	93.8

### 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
09-120	Start						540	600	660	725	790	855	925
	Finish						445	500	565	630	700	765	830

## Options

- ISO Flange / Female drive spring option
- Low pressure spring option
- Limit switch boxes for open/closed indication - various switches including hazardous area
- Integral solenoid valve
- 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
- Clear Cone monitor
- 180° and 120° model
- ISO adaptor
- Spring to centre
- Geared manual override
- High temperature / Low temperature options
- VDI/VDE 3845 Namur accessory mounting option available - contact Kinetrol
- Available in Blueline paint finish

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## Product Code

## ● Air Ports

## ● Mount Holes

094-120 Metric Spring Return Clockwise	G $\frac{1}{4}$	4 x M10 x 20 deep on 65.0 PCD
094-130 Metric Spring Return Counter Clockwise	G $\frac{1}{4}$	4 x M10 x 20 deep on 65.0 PCD
097-120 English Spring Return Clockwise	$\frac{1}{4}$ NPT	4 x $\frac{3}{8}$ -16 UNC x 0.79" deep on 2.56" PCD
097-130 English Spring Return Counter Clockwise	$\frac{1}{4}$ NPT	4 x $\frac{3}{8}$ -18 UNC x 0.79" deep on 2.56" PCD

For female drive part codes contact Kinetrol

Visual red indicator supplied as standard

## Dimensions

