

# Kinetrol Model 12 Spring Return Single Acting Actuator

## Specification

### Angle of Travel (adjustable)

80° - 102°

(restricted travel versions available)

### Displaced Volume

1410 cm<sup>3</sup> / 86 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

22.90 kg / 50.51 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
12-120	Start						145.0	160.0	176.0	191.0	206.0	221.0	238.0
	Finish						111.0	127.0	142.0	158.0	174.0	189.0	204.0

### 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
12-120	Start						1280	1415	1555	1690	1825	1960	2110
	Finish						985	1125	1260	1400	1540	1670	1810

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

- 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
- 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
- G3 Damper Drive

# Kinetrol Model 12 Spring Return Single Acting Actuator

## Product Code

## ● Air Ports

## ● Mount Holes

124-120 Metric Spring Return Clockwise	G $\frac{3}{8}$	4 x M12 x 24 deep on 77.8 PCD
124-130 Metric Spring Return Counter Clockwise	G $\frac{3}{8}$	4 x M12 x 24 deep on 77.8 PCD
127-120 English Spring Return Clockwise	$\frac{3}{8}$ NPT	4 x $\frac{1}{2}$ -13 UNC x 0.94" deep on 3.06" PCD
127-130 English Spring Return Counter Clockwise	$\frac{3}{8}$ NPT	4 x $\frac{1}{2}$ -13 UNC x 0.94" deep on 3.06" PCD

For female drive part codes contact Kinetrol

Visual red indicator supplied as standard

## Dimensions

