

# Kinetrol Model 14 Spring Return Single Acting Actuator

## Specification

### Angle of Travel (adjustable)

80° - 100°

(restricted travel versions available)

### Displaced Volume

3294 cm<sup>3</sup> / 201 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 thermoset powder

### Weight

62.7 kg / 138.2 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
14-120	Start						374.0	408.0	442.0	479.0	517.0	554.0	588.0
	Finish						249.0	290.0	330.0	367.0	406.0	443.0	478.0

### 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
14-120	Start						3310	3610	3915	4240	4580	4900	5200
	Finish						2205	2570	2920	3250	3595	3920	4230

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
- G3/4" or 3/4" Npt air port option available  
Double air port option available - contact Kinetrol
- 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 14 Spring Return Single Acting Actuator

## Product Code

## ● Air Ports

## ● Mount Holes

144-120 Metric Spring Return Clockwise	G½	4 x M16 x 28.5 deep on 98.8 PCD 4 x M16 x 28.5 deep on 140.0 PCD
144-130 Metric Spring Return Counter Clockwise	G½	4 x M16 x 28.5 deep on 98.8 PCD 4 x M16 x 28.5 deep on 140.0 PCD
147-120 English Spring Return Clockwise	½ NPT	4 x 5/8-11 UNC x 1.12" deep on 3.89" PCD 4 x 5/8-11 UNC x 1.12" deep on 5.51" PCD
147-130 English Spring Return Counter Clockwise	½ NPT	4 x 5/8-11 UNC x 1.12" deep on 3.89" PCD 4 x 5/8-11 UNC x 1.12" deep on 5.51" PCD

For female drive part codes contact Kinetrol

Visual red indicator supplied as standard

## Dimensions

