

# Kinetrol Model 16 Spring Return Single Acting Actuator

## Specification

### Angle of Travel (adjustable)

80° - 100°

(restricted travel versions available)

### Displaced Volume

7630 cm<sup>3</sup> / 465 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

137.6 kg / 302.7 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
16-120	Start						864.0	939.0	1004.0	1097.0	1165.0	1256.0	1321.0
	Finish						576.0	660.0	742.0	832.0	906.0	1002.0	1081.0

### 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
16-120	Start						7646	8310	8885	9708	10310	11116	11691
	Finish						5098	5841	6567	7363	8018	8868	9567

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 16 Spring Return Single Acting Actuator

## Product Code

## ● Air Ports

## ● Mount Holes

164-120 Metric Spring Return Clockwise	G½	4 x M24 x 38 deep on 152.7 PCD
164-130 Metric Spring Return Counter Clockwise	G½	4 x M24 x 38 deep on 152.7 PCD
167-120 English Spring Return Clockwise	½ NPT	4 x ¾-9 UNC x 1.50" deep on 6.01" PCD
167-130 English Spring Return Counter Clockwise	½ NPT	4 x ¾-9 UNC x 1.50" deep on 6.01" PCD

For female drive part codes contact Kinetrol

Visual red indicator supplied as standard

## Dimensions

