

Kinetrol Model 09 Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

80° - 100°

(restricted travel versions available)

Displaced Volume

644 cm³ / 39.3 in³

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

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

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
- ☐ 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

