

Kinetrol Model 21 Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

80° - 100°

(restricted travel versions available)

Displaced Volume

31386 cm³ / 1915 in³

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

500.6 kg / 1103.6 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
21-120	Start								4121.0	4514.0	4798.0	5181.0	5456.0
	Finish							3046.0	3423.0	3732.0	4133.0	4464.0	

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
21-120	Start								36471	39949	42462	45852	48286
	Finish							26957	30294	33028	36577	39506	

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
- 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
- Geared manual override
- G3 Damper Drive
- High temperature / Low temperature options

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Product Code

Air Ports

Mount Holes

214-120 Metric Spring Return Clockwise	G1	8 x M30 x 50 deep on 226.3 PCD
214-130 Metric Spring Return Counter Clockwise	G1	8 x M30 x 50 deep on 226.3 PCD
217-120 English Spring Return Clockwise	1 NPT	8 x 1 $\frac{1}{8}$ -7 UNC x 2.00" deep on 8.91" PCD
217-130 English Spring Return Counter Clockwise	1 NPT	8 x 1 $\frac{1}{8}$ -7 UNC x 2.00" deep on 8.91" PCD

For female drive part codes contact Kinetrol

Dimensions

