

Kinetrol Model 15 Modular Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

80° - 97°

(restricted travel versions available)

Displaced Volume

5920 cm³ / 361 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

Spring casing: Aluminium alloy

Clock Type Spring: Carbon spring steel

Finish

Epoxy thermoset powder

Weight

71.4 kg / 157.4 lb (excluding coupling)

Operating Temperature

-40°C to +80°C (-40°F to +176°F)

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
15-120	Start						614.0	680.0	752.0	801.0	848.0	914.0	962.0
	Finish						392.0	392.0	522.0	590.0	656.0	723.0	790.0

English Units - lbf-in

Actuator Model	Position of air OR spring return stroke	Pressure (psi)											
		25	30	35	40	45	50	55	60	65	70	75	80
15-120	Start						5434	6018	6656	7089	7505	8090	8514
	Finish						3469	4098	4620	5222	5806	6399	6992

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



ATEX Category 2

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Product Code

● Air Ports

● Mount Holes

154-1C0 Metric Spring Return Clockwise	G½	4 x M16 x 28.5 deep on 140.0 PCD
154-1A0 Metric Spring Return Counter Clockwise	G½	4 x M16 x 28.5 deep on 140.0 PCD
157-1C0 English Spring Return Clockwise	½ NPT	4 x ⅝-11 UNC x 1.13" deep on 5.51" PCD
157-1A0 English Spring Return Counter Clockwise	½ NPT	4 x ⅝-11 UNC x 1.13" deep on 5.51" PCD

For female drive part codes contact Kinetrol

Visual red indicator supplied as standard

Dimensions

