

Kinetrol Model 12 Modular Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

80° - 97°

(restricted travel versions available)

Displaced Volume

1410 cm³ / 86 in³

Materials of Construction

Casing: Extruded and 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

23.21 kg / 51.17 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
12-1C0	Start						145.0	160.0	176.0	191.0	206.0	221.0	238.0
	Finish						111.0	127.0	142.0	158.0	174.0	189.0	204.0

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
12-1C0	Start						1280	1415	1555	1690	1825	1960	2110
	Finish						985	1125	1260	1400	1540	1670	1810

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
- ☐ Integral solenoid valve
- ☐ 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
- ☐ 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

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Product Code

Air Ports

Mount Holes

124-1C0 Metric Spring Return Clockwise	G $\frac{3}{8}$	4 x M12 x 24 deep on 77.8 PCD
124-1A0 Metric Spring Return Counter Clockwise	G $\frac{3}{8}$	4 x M12 x 24 deep on 77.8 PCD
127-1C0 English Spring Return Clockwise	$\frac{3}{8}$ NPT	4 x $\frac{1}{2}$ -13 UNC x 0.94" deep on 3.06" PCD
127-1A0 English Spring Return Counter Clockwise	$\frac{3}{8}$ NPT	4 x $\frac{1}{2}$ -13 UNC x 0.94" deep on 3.06" PCD

For female drive part codes contact Kinetrol

Visual red indicator supplied as standard

Dimensions

