

Kinetrol Model 14 Modular Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

80° - 97°

(restricted travel versions available)

Displaced Volume

3294 cm³ / 201 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

39.7 kg / 87.5 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
14-1C0	Start						374.0	408.0	442.0	479.0	517.0	554.0	588.0
	Finish						249.0	290.0	330.0	367.0	406.0	443.0	478.0

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
14-1C0	Start						3310	3610	3915	4240	4580	4900	5200
	Finish						2205	2570	2920	3250	3595	3920	4230

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
- ☐ 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
- ☐ G $\frac{3}{4}$ or $\frac{1}{4}$ NPT air port option available - contact Kinetrol
- ☐ 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

144-1C0 Metric Spring Return Clockwise	G $\frac{1}{4}$	4 x M16 x 28.56 deep on 98.8 PCD 4 x M16 x 28.56 deep on 140.0 PCD
144-1A0 Metric Spring Return Counter Clockwise	G $\frac{1}{4}$	4 x M16 x 28.56 deep on 98.8 PCD 4 x M16 x 28.56 deep on 140.0 PCD
147-1C0 English Spring Return Clockwise	$\frac{1}{4}$ NPT	4 x $\frac{5}{8}$ -11 UNC x 1.12" deep on 3.89" PCD 4 x $\frac{5}{8}$ -11 UNC x 1.12" deep on 5.51" PCD
147-1A0 English Spring Return Counter Clockwise	$\frac{1}{4}$ NPT	4 x $\frac{5}{8}$ -11 UNC x 1.12" deep on 3.89" PCD 4 x $\frac{5}{8}$ -11 UNC x 1.12" deep on 5.51" PCD

For female drive part codes contact Kinetrol

Visual red indicator supplied as standard

Dimensions

