

Kinetrol Model 14-4900 Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

80° - 100°

(restricted travel versions available)

Displaced Volume

3294 cm³ / 201 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 stove enamel

Weight

42.4 kg / 93.5 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
14-4900	Start	192.0	220.0	249.0	288.0	322.0	356.0	390.0	424.0	469.0	497.0	529.0	529.0
	Finish	119.0	158.0	186.0	220.0	254.0	288.0	322.0	356.0	390.0	418.0	447.0	447.0

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
14-120	Start	1700	1950	2200	2550	2850	3150	3450	3750	4150	4400	4680	4680
	Finish	1050	1400	1650	1950	2250	2550	2850	3150	3450	3700	3960	3960

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
- 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

144-120-4900 Metric Spring Return Clockwise	G½	4 x M16 x 28.5 deep on 98.8 PCD 4 x M16 x 28.5 deep on 140.0 PCD
144-130-4900 Metric Spring Return Counter Clockwise	G½	4 x M16 x 28.5 deep on 98.8 PCD 4 x M16 x 28.5 deep on 140.0 PCD
147-120-4900 English Spring Return Clockwise	½ NPT	4 x 5/8-11 UNC x 1.12" deep on 3.89" PCD 4 x 5/8-11 UNC x 1.12" deep on 5.51" PCD
147-130-4900 English Spring Return Counter Clockwise	½ NPT	4 x 5/8-11 UNC x 1.12" deep on 3.89" PCD 4 x 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

