

Kinetrol Model 01 Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

014-120: 80° - 100°

014P120: 90°

(restricted travel versions available)

Displaced Volume

16.5 cm³ / 1.0 in³

Materials of Construction

Casing: Pressure die cast ZL16 zinc alloy

Vane & Output Shaft: Stainless steel

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

014-120: 0.58 kg / 1.28 lb (excluding coupling)

014P120: 0.59 kg / 1.30 lb (excluding coupling)

Operating Temperature

-40°C to +80°C (-40°F to +176°F)



ATEX Up to Category 1

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
01-120	Start						1.5		1.7		1.9		2.3
	Finish						0.9		1.1		1.5		1.8

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
01-120	Start						13		15		17		20
	Finish						8		10		13		16

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.

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Product Code

Air Ports

Mount Holes

014-120 Metric Spring Return Clockwise	G $\frac{1}{8}$	4 x M4 x 6 deep on 19.0 PCD
014-130 Metric Spring Return Counter Clockwise	G $\frac{1}{8}$	4 x M4 x 6 deep on 19.0 PCD
017-120 English Spring Return Clockwise	$\frac{1}{8}$ NPT	4 x 8-32 UNC x 0.25" deep on 0.75" PCD
017-130 English Spring Return Counter Clockwise	$\frac{1}{8}$ NPT	4 x 8-32 UNC x 0.25" deep on 0.75" PCD
014P120 Metric Spring Return Clockwise	G $\frac{1}{8}$	4 x Ø4.1 (M4 clearance)
014P130 Metric Spring Return Counter Clockwise	G $\frac{1}{8}$	4 x Ø4.1 (M4 clearance)

For female drive part codes contact Kinetrol

Dimensions

Drawing shows 014-120 / 014-130 version only.
For 014P120 / 014P130 please contact Kinetrol

Standard Coupling
(supplied with both actuator types
weight 0.005 kg / 0.2 oz)

