

Kinetrol Model 05 Modular Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

74° - 97°

(restricted travel versions available)

Displaced Volume

113 cm³ / 6.9 in³

Materials of Construction

Casing: Extruded and pressure die cast aluminium 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

1.96 kg / 4.32 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
05-1C0	Start						13.0	14.1	15.3	16.4	18.1	19.2	20.9
	Finish						8.5	9.6	11.3	13.0	14.7	15.8	17.5

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
05-1C0	Start						115	125	135	145	160	170	185
	Finish						75	85	100	115	130	140	155

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
- ☐ ISO adaptor
- ☐ G¼ or ¼ 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

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Product Code

● Air Ports

● Mount Holes

054-1C0

G $\frac{1}{8}$

6 x M5 x 10 deep on 34.9 PCD

Metric Spring Return Clockwise

054-1A0

G $\frac{1}{8}$

6 x M5 x 10 deep on 34.9 PCD

Metric Spring Return Counter Clockwise

057-1C0

$\frac{1}{8}$ NPT

6 x 10-24 UNC x 0.39" deep on 1.375" PCD

English Spring Return Clockwise

057-1A0

$\frac{1}{8}$ NPT

6 x 10-24 UNC x 0.39" deep on 1.375" PCD

English Spring Return Counter Clockwise

For female drive part codes contact Kinetrol

Visual red indicator supplied as standard

Dimensions

