

Kinetrol Model 03 Modular Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

80° - 97°

(restricted travel versions available)

Displaced Volume

60 cm³ / 3.66 in³

Materials of Construction

Actuator Casing: Pressure die cast aluminium alloy

Spring 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

1.31 kg / 2.89 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
03-1C0	Start						6.3	6.9	7.5	8.1	8.9	9.5	10.3
	Finish						4.1	4.7	5.5	6.4	7.2	7.8	8.7

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
03-1C0	Start						56	61	66	71	79	84	91
	Finish						37	41	49	56	64	69	77

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
- ☐ ISO adaptor
- ☐ Limit switch boxes for open/closed indication - various switches including hazardous area
- ☐ Integral solenoid valve
- ☐ Clear Cone monitor
- ☐ 180° and 120° model
- ☐ 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

034-1C0

G $\frac{1}{8}$

4 x M5 x 10 deep on 31.1 PCD

Metric Spring Return Clockwise

034-1A0

G $\frac{1}{8}$

4 x M5 x 10 deep on 31.1 PCD

Metric Spring Return Counter Clockwise

037-1C0

$\frac{1}{8}$ NPT

4 x 10-24 UNC x 0.39" deep on 1.225" PCD

English Spring Return Clockwise

037-1A0

$\frac{1}{8}$ NPT

4 x 10-24 UNC x 0.39" deep on 1.225" PCD

English Spring Return Counter Clockwise

For female drive part codes contact Kinetrol

Visual red indicator supplied as standard

Dimensions

