

Kinetrol Model 10 Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

78° - 100°

(restricted travel versions available)

Displaced Volume

1025 cm³ / 62.5 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 thermoset powder

Weight

14.80 kg / 32.63 lb (no 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
10F120	Start						107.0	115.5	124.0	136.0	145.0	155.9	164.0
	Finish						78.0	90.0	102.0	114.6	124.0	134.9	143.0

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
10F120	Start						950	1025	1100	1190	1280	1365	1450
	Finish						690	795	900	1000	1100	1185	1270

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

- ☐ Male drive spring option
- ☐ Low pressure 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
- ☐ 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

103F120 Metric Spring Return Clockwise	G $\frac{1}{4}$	4 x M10 x 16 deep on 102.0 PCD
103F130 Metric Spring Return Counter Clockwise	G $\frac{1}{4}$	4 x M10 x 16 deep on 102.0 PCD
107F120 English Spring Return Clockwise	$\frac{1}{4}$ NPT	4 x $\frac{3}{8}$ -16 UNC x 0.63" deep on 4.02" PCD
107F130 English Spring Return Counter Clockwise	$\frac{1}{4}$ NPT	4 x $\frac{3}{8}$ -16 UNC x 0.63" deep on 4.02" PCD

For male drive part codes contact Kinetrol

Visual red indicator supplied as standard

Dimensions

