

Kinetrol Model 18 Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

80° - 100°

(restricted travel versions available)

Displaced Volume

17170 cm³ / 1047 in³

Materials of Construction

Casing: Sand 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

272.0 kg / 599.6 lb (excluding coupling)

Operating Temperature

-40°C to +80°C (-40°F to +176°F)



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
18-120	Start				1457.0	1637.0	1875.0	2053.0	2206.0	2426.0	2585.0	2800.0	2954.0
	Finish				874.0	1036.0	1250.0	1441.0	1630.0	1840.0	2011.0	2234.0	2417.0

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
18-120	Start				12894	14487	16594	18169	19523	21470	22877	24780	26143
	Finish				7735	9169	11063	12753	14426	16284	17797	19771	21390

Options

- ISO Flange / Female drive spring option
- Low pressure spring option
- Limit switch boxes for open/closed indication - various switches including hazardous area
- 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
- 180° and 120° model
- Spring to centre
- Geared manual override
- G3 Damper Drive
- High temperature / Low temperature options

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Product Code

Air Ports

Mount Holes

184-120 Metric Spring Return Clockwise	G $\frac{3}{4}$	4 x M30 x 50 deep on 226.3 PCD
184-130 Metric Spring Return Counter Clockwise	G $\frac{3}{4}$	4 x M30 x 50 deep on 226.3 PCD
187-120 English Spring Return Clockwise	$\frac{3}{4}$ NPT	4 x 1 $\frac{1}{8}$ -7 UNC x 2.00" deep on 8.91" PCD
187-130 English Spring Return Counter Clockwise	$\frac{3}{4}$ NPT	4 x 1 $\frac{1}{8}$ -7 UNC x 2.00" deep on 8.91" PCD

For female drive part codes contact Kinetrol

Dimensions

