

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 thermoset powder

Weight

272.0 kg / 599.6 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
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

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
- ☐ 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
- ☐ 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	G1	4 x M30 x 50 deep on 226.3 PCD
184-130 Metric Spring Return Counter Clockwise	G1	4 x M30 x 50 deep on 226.3 PCD
187-120 English Spring Return Clockwise	1 NPT	4 x 1½-7 UNC x 2.00" deep on 8.91" PCD
187-130 English Spring Return Counter Clockwise	1 NPT	4 x 1½-7 UNC x 2.00" deep on 8.91" PCD

For female drive part codes contact Kinetrol

Dimensions

