

Kinetrol Model 02 Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

80° - 100°

(restricted travel versions available)

Displaced Volume

31 cm³ / 1.89 in³

Materials of Construction

Casing: Pressure die cast ZL16 zinc 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

0.91 kg / 2.00 lb (excluding coupling)

Operating Temperature

-40°C to +80°C (-40°F to +176°F)



ATEX Up to Category 1

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 |
| 02-120 | Start | | | | | | 3.0 | 3.4 | 3.6 | 3.8 | 4.2 | 4.4 | 4.7 |
| | Finish | | | | | | 1.4 | 1.7 | 2.0 | 2.4 | 2.8 | 3.3 | 3.7 |

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 |
| 02-120 | Start | | | | | | 27 | 30 | 32 | 34 | 37 | 39 | 42 |
| | Finish | | | | | | 12 | 15 | 18 | 21 | 25 | 29 | 33 |

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

- 180° and 120° model
- ISO adaptor
- Available in Blueline paint finish

Kinetrol Model 02 Spring Return Single Acting Actuator

Product Code

● Air Ports

● Mount Holes

| | | |
|----------------------------------------------------|-------------------|----------------------------------------|
| 024-120 Metric Spring Return Clockwise | G $\frac{1}{8}$ | 4 x M4 x 8 deep on 25.5 PCD |
| 024-130 Metric Spring Return Counter Clockwise | G $\frac{1}{8}$ | 4 x M4 x 8 deep on 25.5 PCD |
| 027-120 English Spring Return Clockwise | $\frac{1}{8}$ NPT | 4 x 8-32 UNC x 0.31" deep on 1.00" PCD |
| 027-130 English Spring Return Counter Clockwise | $\frac{1}{8}$ NPT | 4 x 8-32 UNC x 0.31" deep on 1.00" PCD |

For female drive part codes contact Kinetrol

Visual red indicator supplied as standard

Dimensions

