

Kinetrol Model 21 Spring Return Single Acting Actuator

Specification

Angle of Travel (adjustable)

80° - 100°

(restricted travel versions available)

Displaced Volume

31386 cm³ / 1915 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

500.6 kg / 1103.6 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 |
| 21-120 | Start | | | | | | | | 4121.0 | 4514.0 | 4798.0 | 5181.0 | 5456.0 |
| | Finish | | | | | | | | 3046.0 | 3423.0 | 3732.0 | 4133.0 | 4464.0 |

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 |
| 21-120 | Start | | | | | | | | 36471 | 39949 | 42462 | 45852 | 48286 |
| | Finish | | | | | | | | 26957 | 30294 | 33028 | 36577 | 39506 |

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
- Geared manual override
- G3 Damper Drive
- High temperature / Low temperature options

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Product Code

Air Ports

Mount Holes

| | | |
|--|-------|--|
| 214-120 Metric Spring Return Clockwise | G1 | 8 x M30 x 50 deep on 226.3 PCD |
| 214-130 Metric Spring Return Counter Clockwise | G1 | 8 x M30 x 50 deep on 226.3 PCD |
| 217-120 English Spring Return Clockwise | 1 NPT | 8 x 1 $\frac{1}{8}$ -7 UNC x 2.00" deep on 8.91" PCD |
| 217-130 English Spring Return Counter Clockwise | 1 NPT | 8 x 1 $\frac{1}{8}$ -7 UNC x 2.00" deep on 8.91" PCD |

For female drive part codes contact Kinetrol

Dimensions

