

# Kinetrol Model 08 Modular Spring Return Single Acting Actuator

## Specification

### Angle of Travel (adjustable)

80° - 97°

(restricted travel versions available)

### Displaced Volume

485 cm<sup>3</sup> / 29.6 in<sup>3</sup>

### Materials of Construction

**Casing:** Extruded and 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

6.94 kg / 15.3 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  |
| 08-1C0         | Start                                   |                |     |     |     |     | 52.7 | 57.2 | 61.7 | 67.2 | 72.7 | 77.0 | 81.3 |
|                | Finish                                  |                |     |     |     |     | 36.8 | 41.3 | 45.8 | 51.4 | 56.9 | 61.2 | 65.5 |

### 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  |
| 08-1C0         | Start                                   |                |    |    |    |    | 466 | 506 | 546 | 595 | 644 | 682 | 720 |
|                | Finish                                  |                |    |    |    |    | 326 | 366 | 406 | 455 | 504 | 542 | 580 |

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
- ☐ 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
- ☐ ISO adaptor
- ☐ 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

|                                                    |                   |                                                      |
|----------------------------------------------------|-------------------|------------------------------------------------------|
| 084-1C0<br>Metric Spring Return Clockwise          | G $\frac{1}{4}$   | 4 x M8 x 16 deep on 70.0 PCD                         |
| 084-1A0<br>Metric Spring Return Counter Clockwise  | G $\frac{1}{4}$   | 4 x M8 x 16 deep on 70.0 PCD                         |
| 087-1C0<br>English Spring Return Clockwise         | $\frac{1}{4}$ NPT | 4 x $\frac{5}{16}$ -18 UNC x 0.63" deep on 2.76" PCD |
| 087-1A0<br>English Spring Return Counter Clockwise | $\frac{1}{4}$ NPT | 4 x $\frac{5}{16}$ -18 UNC x 0.63" deep on 2.76" PCD |

For female drive part codes contact Kinetrol

Visual red indicator supplied as standard

## Dimensions

