

Kinetrol Model 07 Reversible Spring Unit



- Fully reversible direction of spring from clockwise to counter clockwise or counter clockwise to clockwise
- No air or special tools required and direction reverse can be completed in minutes
- International patents
- Keeper plates no longer required for removal of the spring from the actuator
- Sealed, non breathing housing
- Can be converted from male to female drive and vice versa
- Spring can be converted to manual fail-safe or fire fail-safe spring units
- Special output drives available

The reversible spring units' patented design takes the Kinetrol expertise and low stress range clock type spring to a new level. The direction of the spring can be reversed from clockwise to counter clockwise or vice versa with only simple tools and can be completed within minutes.

The units' fully sealed, non breathing housing protects the spring from corrosive environments the enhanced durability which Kinetrol is known for.

Factory assembled actuator and springs have the spring tension set for a balanced torque output when the actuator is operated at 80 psi (5.5 Bar). If required, the spring can be set for different air pressures on request.

Direction of Spring Action

The reversible spring unit is available either clockwise or counter clockwise and is determined by looking at the unit from the end which interfaces with the actuator.

Suffix

- 0A0 = counter clockwise (male drive)
- 0C0 = clockwise (male drive)
- 0R0 = reversible spring core only

ISO / DIN "Star" Drive

Female bi-square (star) drive option is also available.

Suffix

- F0A0 = counter clockwise F05/F07
- F0C0 = clockwise F05/F07

Kinetrol Model 07 Reversible Spring Unit

Specification

Spring Torque

Start 50.8 Nm / 450 lbf ins

Finish 42.1 Nm / 375 lbf ins

Angle of Travel (adjustable)

0 - 97° (alternative angles available)

Materials of Construction

Casing: Extruded & pressure die cast aluminium alloy

Output Shaft: Stainless steel

Shaft bushes: PTFE coated bronze (lead free)

Clock Type Spring: Carbon spring steel

Stop Elements: Mild steel

Finish

Epoxy stove enamel

Weight

5.07 kg / 11.18 lb (including coupling)

Operating Temperature

-40°C to +80°C (-40°F to +176°F)



Photo shows non-directional option suffix 074-0R0 without actuator interface and output flange



ATEX Category 2

Options

- Male or Female drive options may be fitted to both ends
- High temperature / Low temperature options
- Available in Blueline paint finish

Non Kinetrol Actuator Application Notes

Kinetrol spring units can be used in non Kinetrol actuator applications however the following must be considered.

A static gasket is provided to seal the base plate mounting face but the user's shaft must also be sealed to prevent water ingress into the spring housing.

See Kinetrol installation, operation and maintenance instructions for application example.

Kinetrol Model 07 Reversible Spring Unit - Male Drive

Product Code

Air Ports

Mount Holes

074-0C0 Metric Spring Return Clockwise	G $\frac{1}{4}$	4 x M8 x 16 deep on 50.9 PCD 2 x M8 x 16 deep on 50.8 PCD
074-0A0 Metric Spring Return Counter Clockwise	G $\frac{1}{4}$	4 x M8 x 16 deep on 50.9 PCD 2 x M8 x 16 deep on 50.8 PCD
077-0C0 English Spring Return Clockwise	$\frac{1}{4}$ NPT	4 x $\frac{5}{16}$ -18 UNC x 0.63" deep on 2.00" PCD 2 x $\frac{5}{16}$ -18 UNC x 0.63" deep on 2.00" PCD
077-0A0 English Spring Return Counter Clockwise	$\frac{1}{4}$ NPT	4 x $\frac{5}{16}$ -18 UNC x 0.63" deep on 2.00" PCD 2 x $\frac{5}{16}$ -18 UNC x 0.63" deep on 2.00" PCD

For female drive part codes contact Kinetrol

Dimensions

