Date: 12 December 2005

# Shaft Seal - QCI-17M-65, QCI-23M-65 Installation & Lubrication Procedure

Instruction for IP65 NEMA 17 and 23 motor/encoder using a shaft seal kit (Sold Separately).

The shaft seal kit includes:

- One Shaft Seal Plate
- Two Rubber O-Rings

The o-rings are pre-lubricated and placed into their designated position. Follow the instructions "Installing the Shaft Seal" when installing for the first time.

Over time, the o-rings will wear and will need to be replaced. A worn o-ring will show discoloration in the worn area. Once an o-ring starts to discolor, it should be replaced. Refer to "Installing and Lubricating the O-rings" for o-ring replacement.

The o-rings must be installed and lubricated correctly for proper protection. Motor damages from improper installation and lubrication will not be covered under warranty.

Use Dow Corning 55 o-ring lubricant or similar.

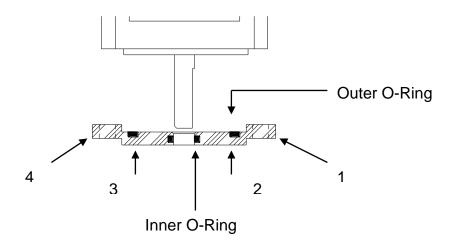
#### Part Numbers:

<u>O-Ring</u>	<u>QCI-17M-65</u>	<u>QCI-23M-65</u>
Inner	Q4008	Q4010
Outer	AF568A-016	AF568A-122

### Installing the Shaft Seal:

The outer o-ring rest on the surface of the shaft seal and is free to move. Be careful when opening the bag, as the outer o-ring may fall out.

- 1. With the outer o-ring facing upward, open the shaft seal kit and remove the shaft seal plate.
- 2. Carefully take the shaft seal plate and slip it over the motor shaft. Gently apply force in a circular motion to move the shaft seal plate into position as shown. Inspect the o-rings to ensure they are in place and not jammed as the shaft seal slides into position.



3. Secure the shaft seal with holding screws (User Provide).

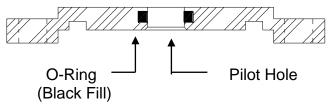
Inspect the o-rings for wear depending on motor operation and replace when necessary. When the o-rings require replacement, refer to "Installing and Lubricating the O-rings."

## Installing and Lubricating the O-rings:

- 1. Wear rubber gloves on both hands. (Optional but recommended)
- 2. Squeeze a small amount of lubricant onto one hand.
- Take the small o-ring and with both hands, lightly and gently rub lubricant over the surface making sure to cover the inner and outer surface of the o-ring. Add lubricant if necessary.
- 4. Squeeze the o-ring just enough to allow one end to insert into the groove of the shaft seals pilot hole. With the o-ring in place, use your finger or a pen to push the partly inserted o-ring inside the groove. Using your hands, gently press around the o-ring to work it into position. Do not apply too much force as to tear or disfigure its shape.

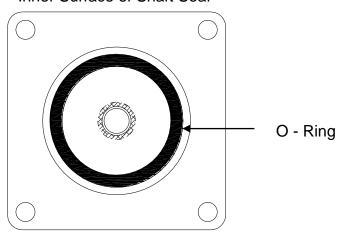
\*The o-ring should be seated, completely inside the groove of the pilot hole as shown.





- 5. Take the large o-ring and with both hands, lightly and gently rub lubricant over the surface making sure to cover the inner and outer surface of the o-ring. Add lubricant if necessary.
- 6. Carefully set the large o-ring into position within the outer grooved circle inner surface of the shaft seal plate as shown.

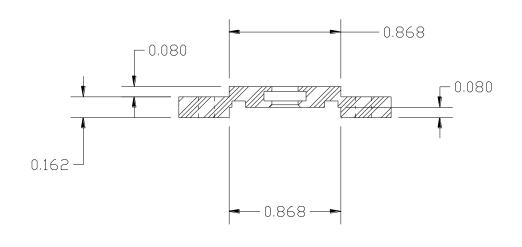
Inner Surface of Shaft Seal

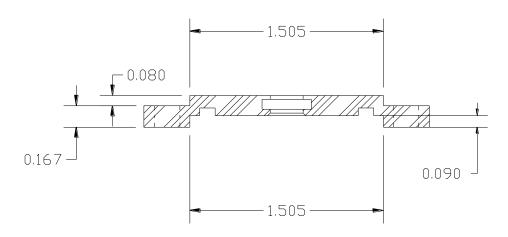


# **Mechanical Dimensions**

(Measurements in Inches ± 0.005)

#### 17 Frame Shaft Seal





23 Frame Shaft Seal