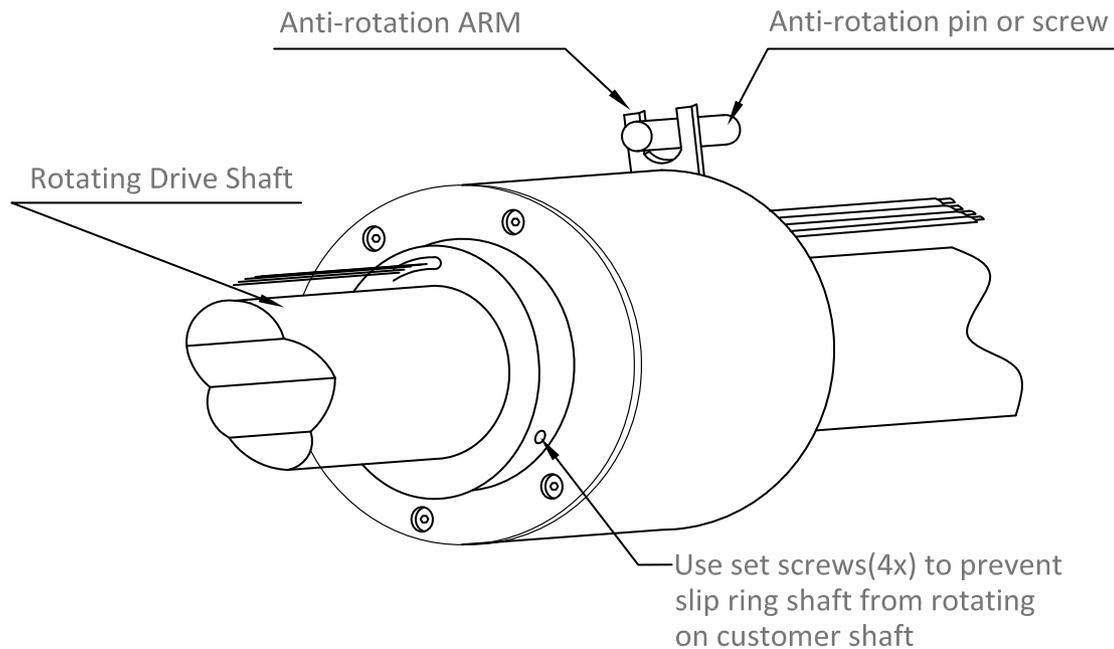


## INSTALLATION GUIDE - Thru Bore Slip Rings



1. Position through bore slip ring assembly onto shaft and fix slip ring rotor shaft with 4x set screws or alternatively cement shaft with suitable adhesive.
2. Align anti-rotation pin or screw with slot in anti-rotation arm.
3. Fully engage pin or screw into slot.
4. Ensure that terminations are correctly wired and retained as necessary.
5. Secure the leads so that they do no contact any surface of the equipment as it rotates. While routing the wires, do not allow the leads to apply any side loading to the slip ring.

# INSTALLATION GUIDE - Capsule Slip Rings

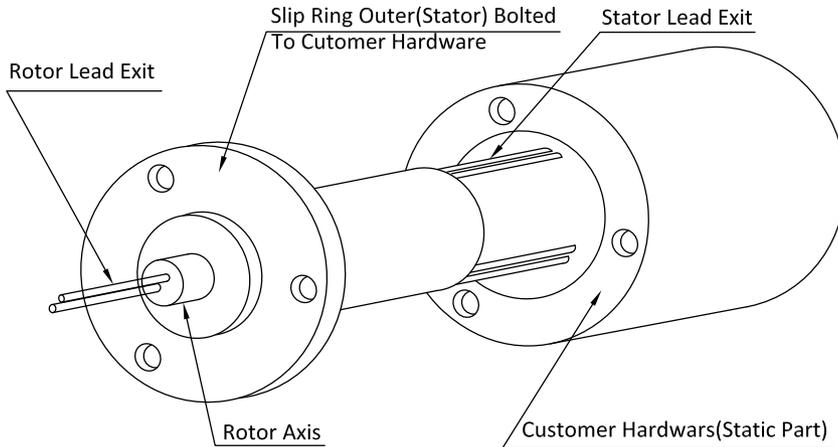


Figure 1

1. Flanged slip rings are designed to be mounted with screws and washers as shown in Figure 1. The washers protect the flange against excessive forces. If lock washers are used, flat washers should be mounted between the lock washer and the flange.

2. Slip ring without flanges should also be mounted by securing the stator. This is most commonly done by inserting the body of the slip ring into a hole that is slightly larger than the OD and then securing it as shown in Figure 2. The most common methods include set screws, adhesives.

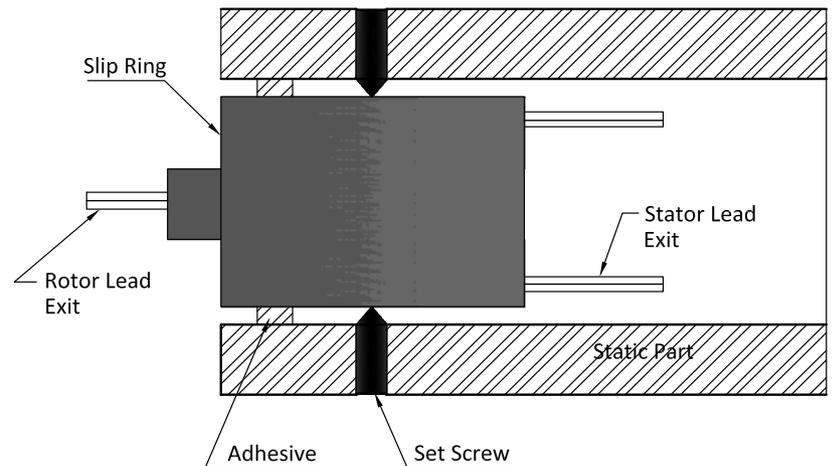


Figure 2

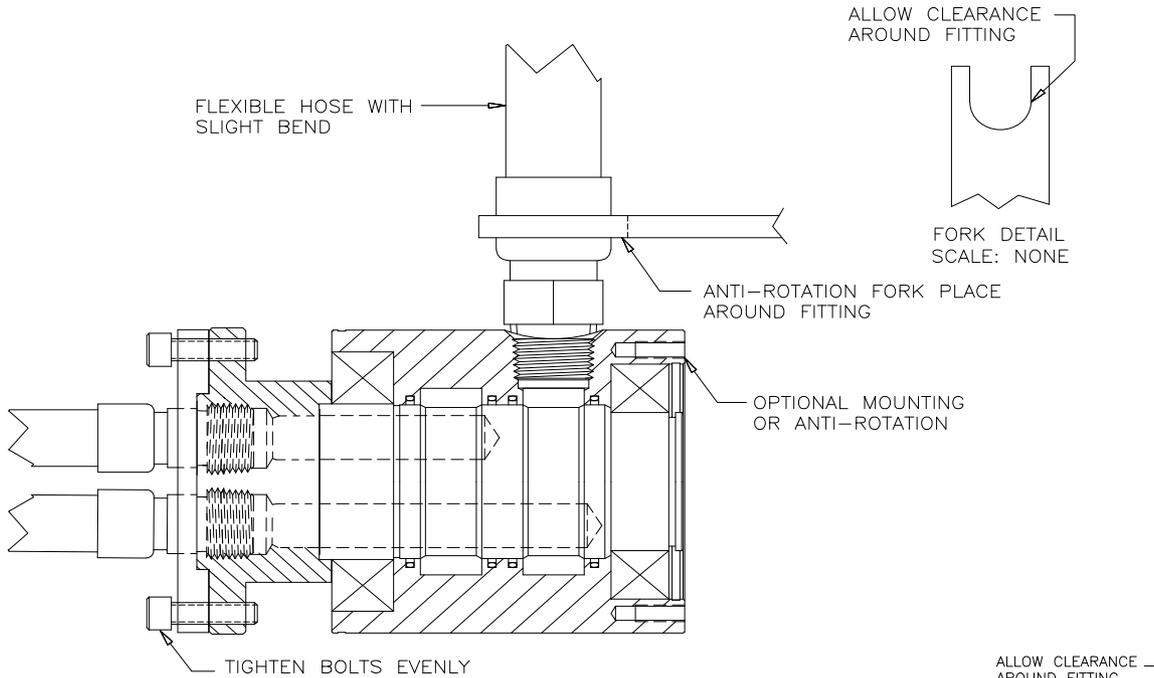
3. The slip ring's bearings are not designed to support external or radial loads. The rotating parts should be supported in such a way that axial and radial forces applied to the slip ring bearings are minimized.

4. If installed in an outdoor application, the slip ring should be designed to operate in a weather-proof enclosure.

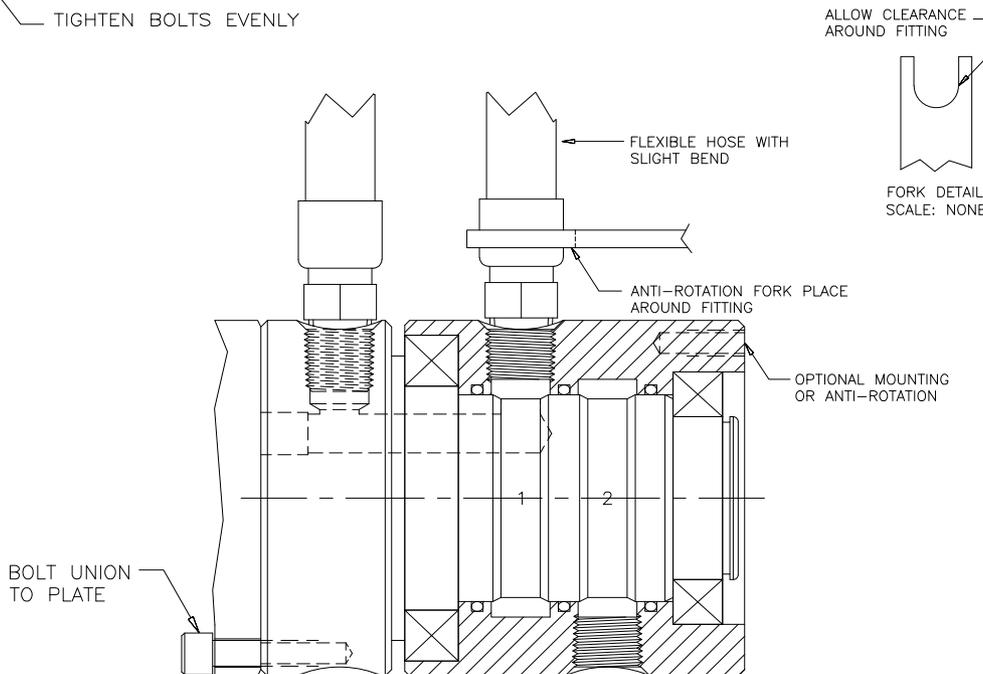
5. Secure the leads so that they do not contact any surface of the equipment as it rotates. While routing the wires, do not allow the leads to apply any side loading to the slip ring.

# INSTALLATION GUIDE - ROTARY UNIONS

**Model 1**



**Model 2**



1.Connect all fittings to housing prior to installation. Do not use rigid piping as this will compromise the life of the union. The hose should be flexible and have a slight bend. The hose should be properly supported & should not side load the union.

2.Attach your preferred method of anti-rotation. Anti-rotation must allow the union to find its center. Do not hard mount both the rotor and housing of the union. An anti-rotation fork placed around one of the housing fittings. An anti-rotation bracket mounted to the rear of the housing.

3.Fasten the rotary union to the machine.