



Type-A Electrodes - Installation

Description

These electrodes have been designed to meet the sealing requirements of all of the major marine certification bodies.

The through hull penetration kit with cofferdam comprises a reference electrode, the through hull fitting which, depending on hull material, will be either steel or marine grade aluminum (5086), the locking plate and gasket with associated bolts and washers.

Primary sealing is provided by the 'O' ring sited between the electrode body and the through hull fitting. The electrode body is secured by the locking plate.

Secondary sealing is maintained using the end cover and carrying the cable out above the waterline using standard 3/8 BSPP hydraulic fittings and hydraulic hose.

The zinc electrodes used are highly resistant to fouling by marine organisms.

After installation the reading from a new zinc electrode may take a few hours to fully stabilize in seawater – this is perfectly normal.

Positioning the electrode

The electrode must be in contact with seawater at all times that the boat is operating.

The position of the electrode is not critical but should ideally be positioned approximately one third of the boat's length forward of the transom and at least 1 meter away from any sacrificial anodes or impressed current electrodes.

Installation

1. Machine a clearance hole in the required location below the waterline allowing sufficient room to weld the outside surface once the through hull fitting has been located.
2. With the central electrode body removed, weld the through-hull fitting into place from the outside and inside of the boat.
3. Fit the hydraulic fittings to the locking plate.
4. Fit the electrode body and thread the attached cable through the center of the gasket and locking plate.
5. Position the gasket between the through hull fitting and the locking plate and then attach the locking plate using the four bolts and spring washers provided. The stainless bolts that are used have been treated with an anti-corrosive compound, this may be supplemented to by the use of an anti-corrosion paste such as Duralac (zinc chromate) applied to the threads.
6. Thread the wire through hydraulic tubing of sufficient length to allow the distant end to be secured above the waterline.
7. Attach the hose to the hydraulic fittings on the locking plate and secure with a jubilee clip.
8. Secure the hydraulic hose and route the remaining wire to the 'Sentry' corrosion monitor.
9. Route the electrode wire to the 'Sentry' and crimp the supplied fork terminal to the wire. If the wire supplied is not long enough then use the joining crimp and glued heat-shrink tubing to make the extension.

Notes:

1. The electrode must never be greased, painted or treated with any antifouling agent.

2. After installation, the reading from a new zinc electrode may take a few hours to fully stabilize in seawater – this is perfectly normal.