

35kV 600/900A CLASS APPARATUS BUSHING

INSTALLATION & OPERATING INSTRUCTIONS

DESCRIPTION

The Chardon 35kV 600/900A Apparatus Bushing meets all requirements of IEEE 386-2016 (separable insulated connector system). The bushing is externally mounted and clamped in place with stainless steel 4-hole clamping plate. All 600/900 A separable connectors manufactured in compliance with IEEE 386-2016 are compatible with this bushing. The connector interface for the bushing must meet the ANSI / IEEE 386 requirements listed specified.



- Class 35kV 600/900A

KIT CONTENT

- Apparatus Bushing, with Fixed Stud, Nut, Gasket and Shipping Cap (not for insulating).
- 4-hole Clamping plate (Optional).
- Instruction Sheet.



CAUTION:

- The installation of Chardon products must be carried out by qualified technical personnel.
- Contact with energized equipment can cause serious damage and even death.
- Wear appropriate protective equipment.
- Make sure Chardon Accessories are completely dry and in good condition at the time of installation.



DANGER:

- Do not touch or handle energized products without adequate protective equipment. Errors in the compliance of this instruction can result in damage to the product, serious injuries to people and even death.
- All associated equipment must be de-energized during installation and maintenance.
- The following instructions do not cover details or variables in the change / installation of the product, to prevent contingencies, please contact the team of Chardon technicians if required.

SAFETY INFORMATION

The instructions in this manual are not intended as a substitute for proper training or adequate experience in the safe operation of the equipment described. Only competent technicians, who are familiar with this equipment should install, operate and service it. Apparatus bushing is designed for mounting on the panel of SF6 gas-filled tanks. The bushing should be located as necessary to obtain sufficient clearance to other internal components in order not to degrade the electrical performance of the bushing.

PRECAUTIONS

1. All parts must be visually inspected for damage before using.
2. Be sure that the apparatus bushing is rated for the intended application.
3. The shipping cap is not suitable for energized or submerged use and must be removed before use.
4. Mating separable connector must be used for test. During installation and test, care must be taken to protect the relubricated bushing surface from dirt or water.
5. After installation and processing, the resistance from the end of the apparatus bushing ground shield to tank ground must be less than 2000 ohms.
6. Shipping cap must be in place during shipment.
7. Mask the external ground shield when sandblasting and painting the tank.
8. Consult CHARDON concerning maximum processing temperatures.

HANDLING AND STORAGE

1. If a high voltage bushing is to be stored for any length of time prior to installation, it must be stored in a clean and dry storage area.
2. Once a bushing is installed in a transformer, the bushing and shipping cap should be protected from the weather until the connector is installed and the interface is protected from environment damage.

Bushing may be protected by one of the following ways.

- Inside a pad mounted enclosure.

Under a covered shelter (in the case of an externally exposed bushing).

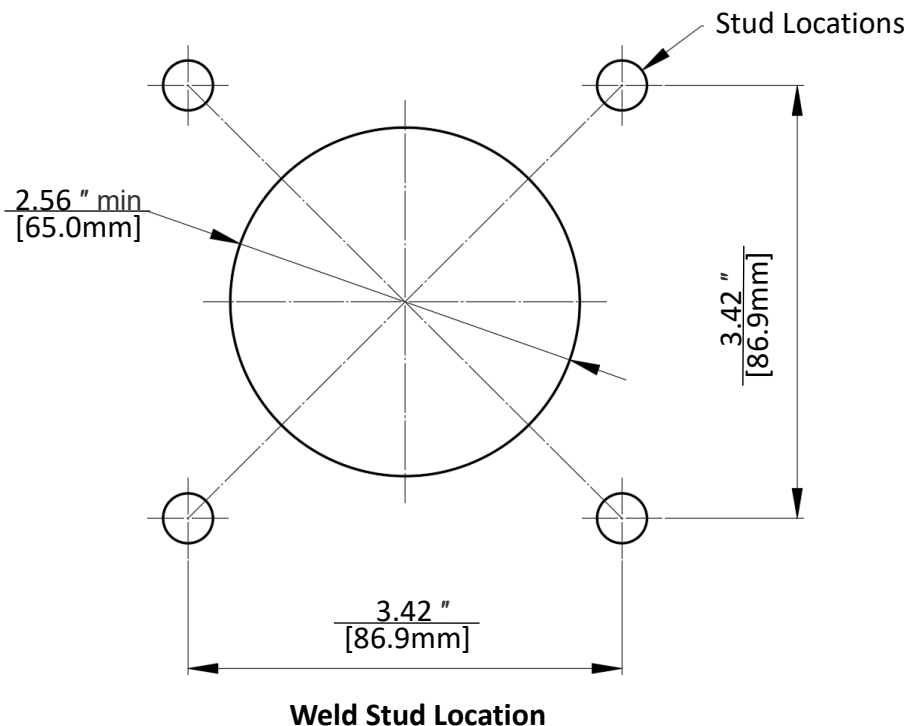
INSTALLATION

STEP 1:

The required tank opening is 2.56" (65.0 mm) min diameter.

STEP 2:

Locate 3/8-16 weld studs as shown. (Stud not included).



STEP 3:

Assemble gasket on the bushing as shown.

STEP 4:

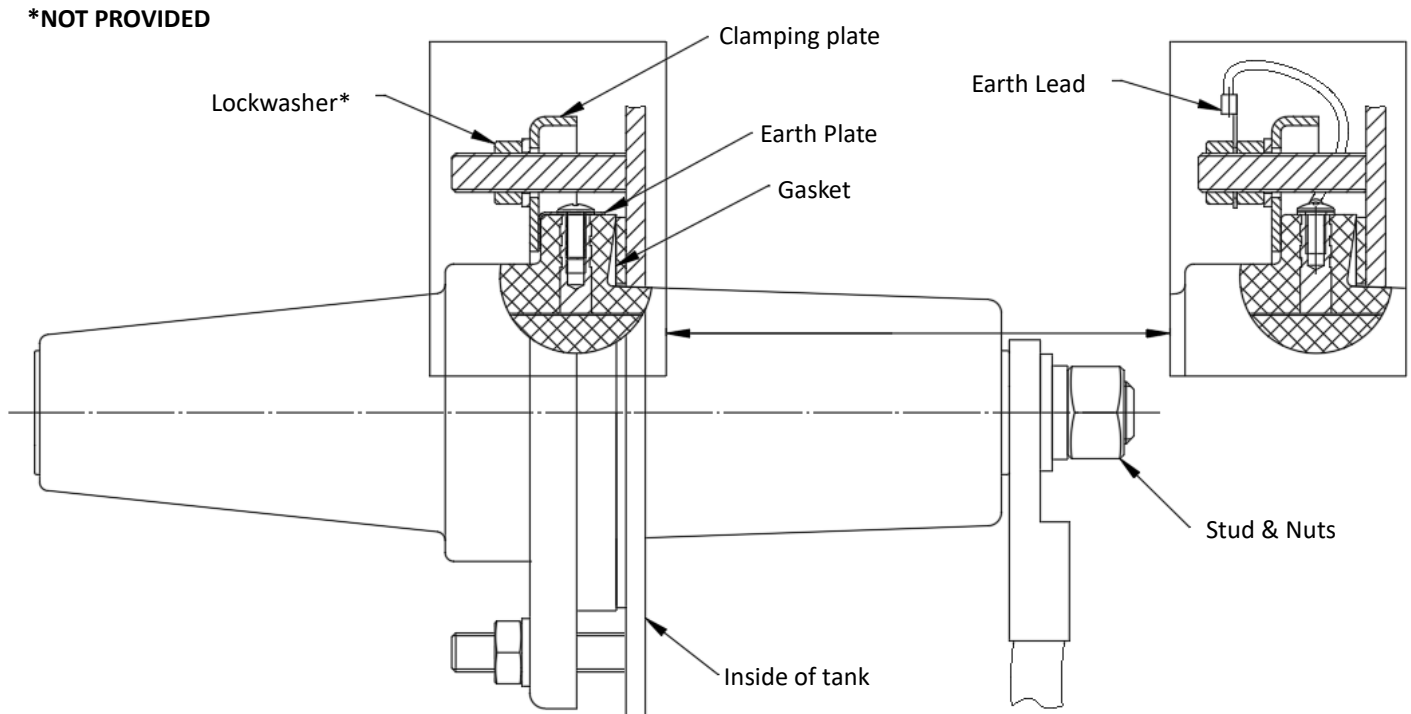
Insert the bushing assembly through tank opening.

STEP 5:

Slide the clamping plate into place and alternately torque the nut on each stud in steps until each is at 89 to 133 inch pounds (10 to 15 N·m). The enclosure ground wire can be fixed on the clamping plate bolt.

STEP 6:

Place the shipping cap into bushing interface.



⚠ WARNING:

THE SHIPPING CAP IS NOT SUITABLE AS AN INSULATING CAP FOR ENERGIZED SERVICE.

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