

Installation Instructions

DT Series

Applicable Catalog Prefix

DTGC

Applicable Voltage Classes

15/25/28kV

35kV

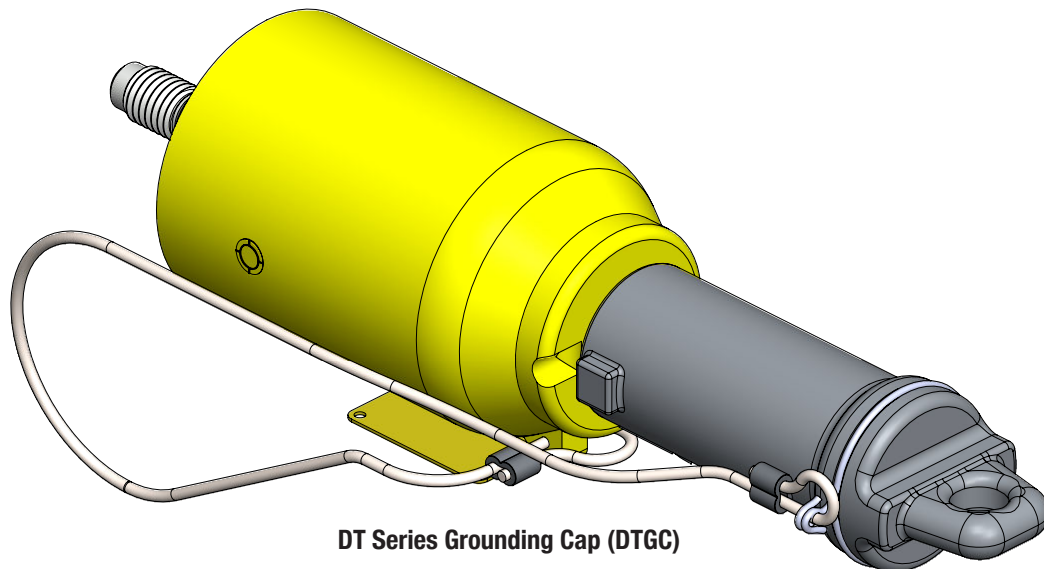


WARNING

- System must be de-energized during installation of this product or its components.
- Do not touch or move energized connectors or components by hand.
- Excess distortion of the assembled connector may result in its failure.
- Failure to follow these instructions will result in damage to the connector and serious or fatal injury.
- This product should only be installed and/or operated by trained personnel in accordance with normal and safe work procedures.
- Variations in equipment or configuration or work procedures may not be covered in these instructions.
- Please contact Richards Manufacturing for any additional questions.

KIT CONTENTS

Standard kits may include the following. Custom kits may vary.
Check package contents to be sure they are complete, undamaged, and properly sized for the application.



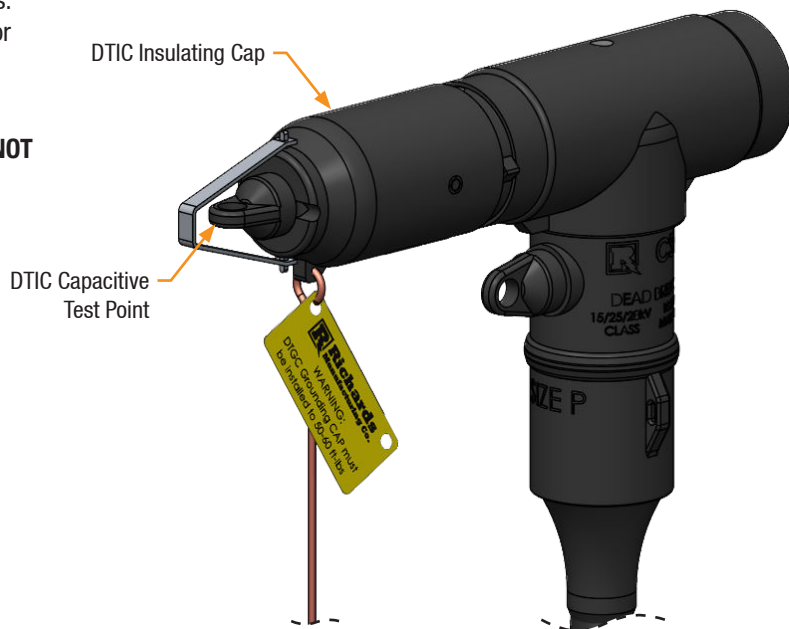
DT Series Grounding Cap (DTGC)

1**Capacitive Test Point Measurement**

- A. Confirm system is de-energized following approved work methods. The capacitive test point on the DTIC insulating cap may be utilized for this procedure if applicable.



WARNING: IF VOLTAGE IS INDICATED BY ANY METHOD DO NOT PROCEED.

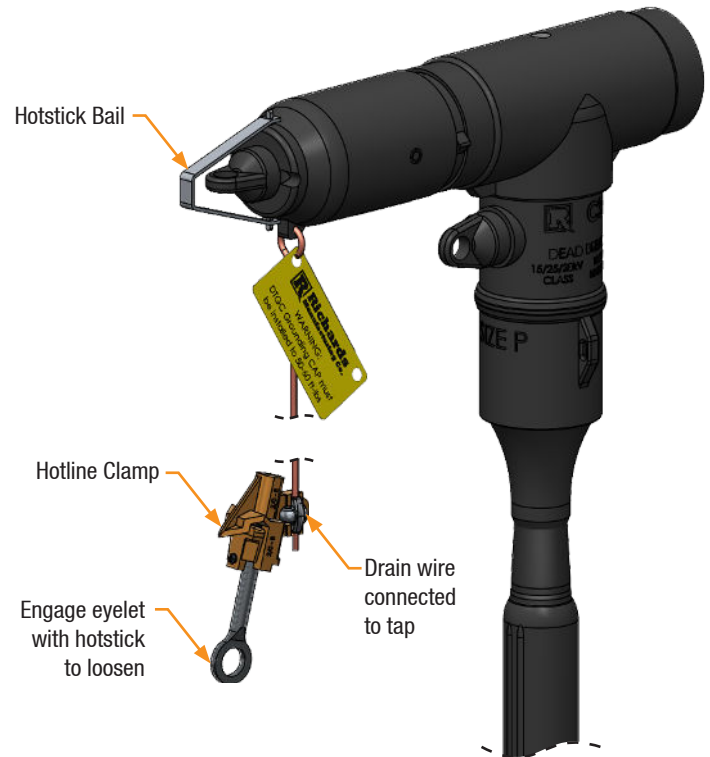
**WARNING**

Continue to treat the system as energized using a hotstick for all operations in case of error or equipment malfunction. DO NOT OPERATE DTIC OR DTGC BY HAND. OPERATION BY HAND MAY RESULT IN SERIOUS INJURY OR DEATH.

2

Removing DTIC

- Loosen hotline clamp from ground connection with hotstick, leaving drain wire attached in hotline clamp tap.
- Engage DTIC with hotstick and turn counter clockwise to remove DTIC cap.
- Store DTIC in plastic bag and keep in a clean dry area for future use.



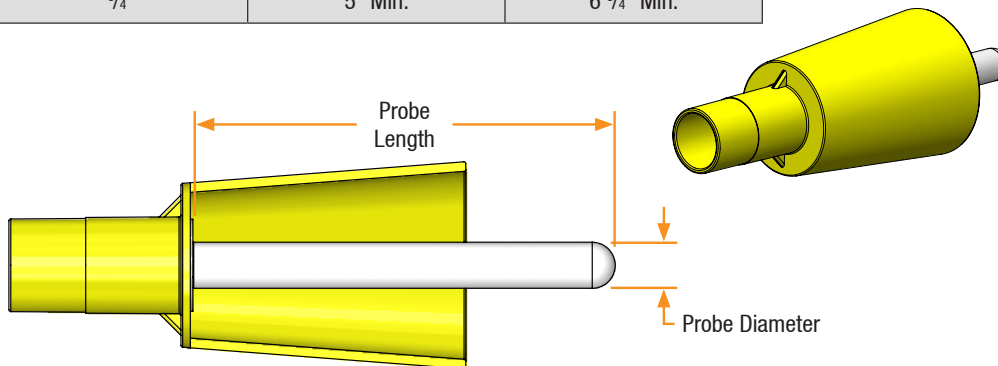
3

Direct Testing

Complete this step if direct test is required by work practice

- To use this device for direct test, use Richards DT-PROBE with approved test meter. Ensure test meter tip accepts 1/4"-20 threaded stud from DT-PROBE. If this probe is not available, confirm the direct test probe used conforms to dimension shown below.

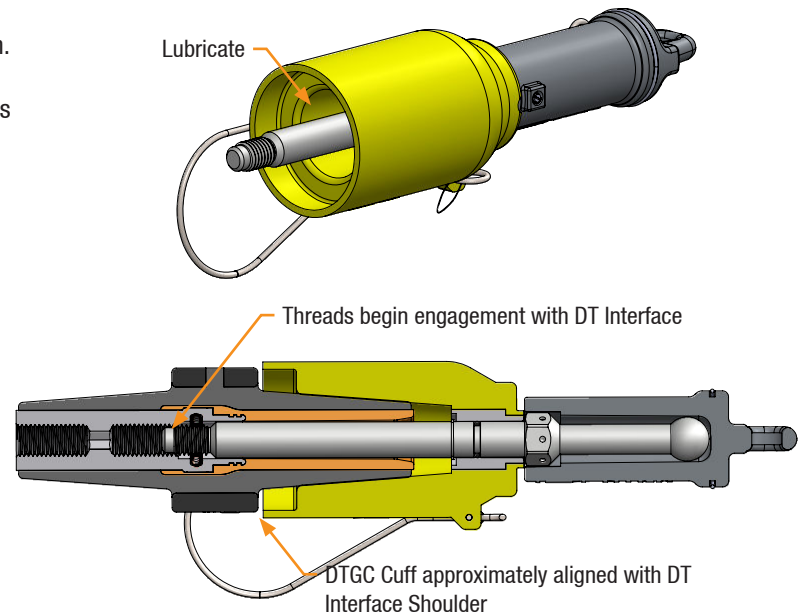
Probe Diameter	Probe Length	
	15/25/28kV DTP	35kV DTP
1/2"	6 1/2" Min.	8 1/4" Min.
3/4"	5" Min.	6 3/4" Min.



4

Installing DTGC

- Lubricate DTGC interface with approved silicone grease.
- Insert tethered installation adapter onto ground rod to DTGC as shown.
- Engage installation adapter with hotstick.
- Slowly insert DTGC probe into DT interface until a slight resistance is felt.
- Engage threads with DT interface and hand tighten using hotstick.



5

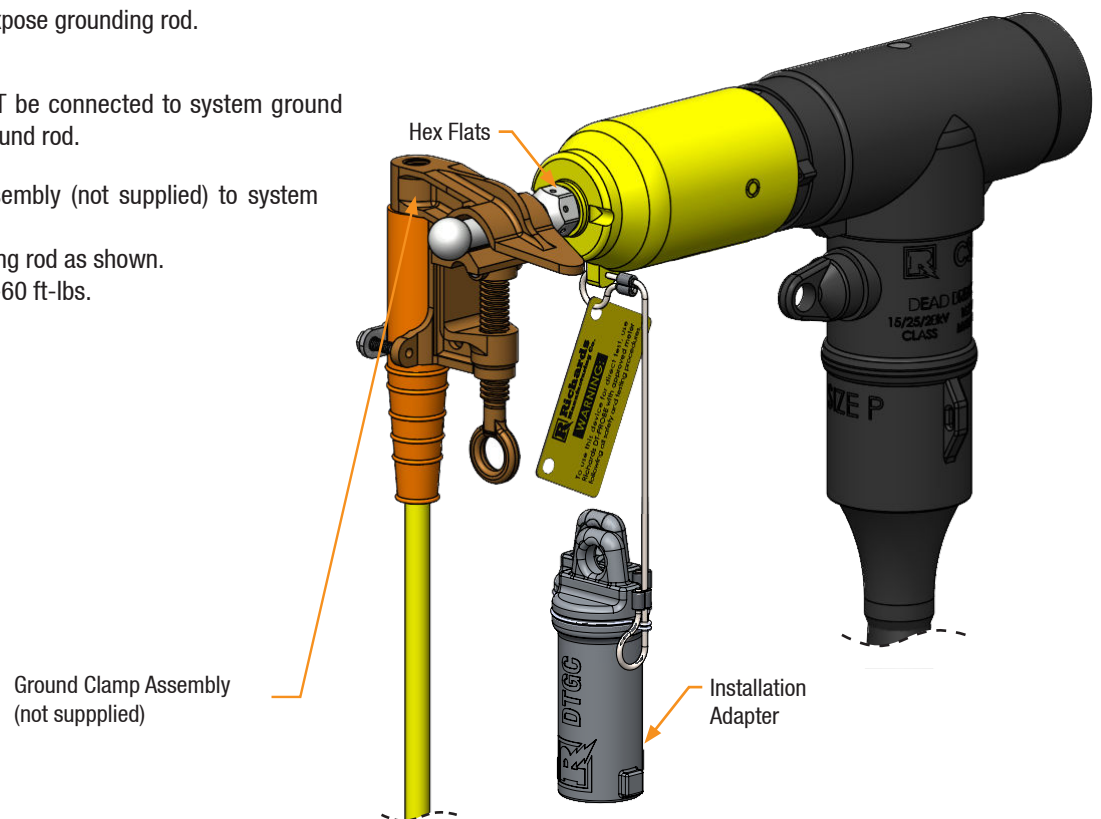
Installing Ground Clamp

- Pull installation adapter off DTGC to expose grounding rod.



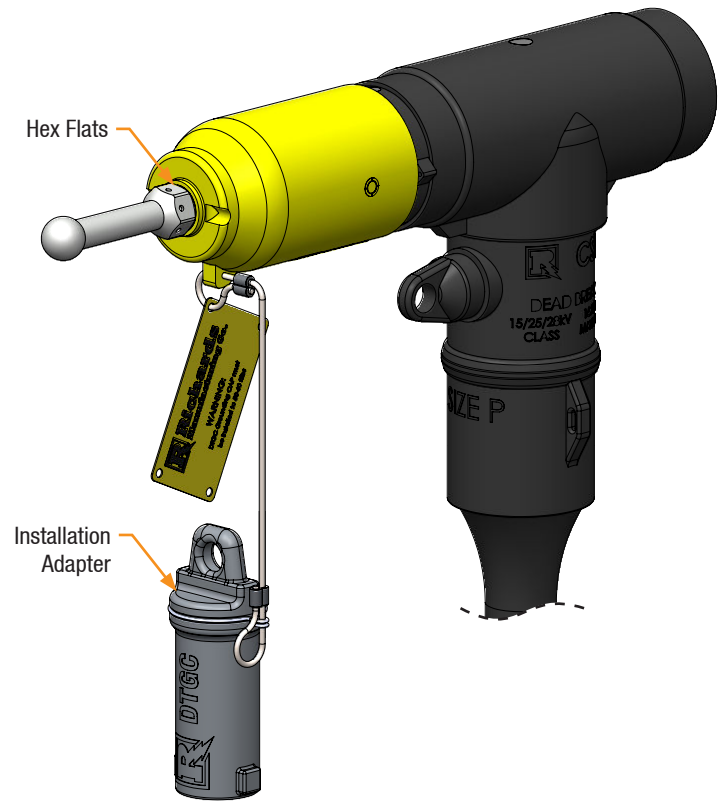
WARNING: Ground lead **MUST** be connected to system ground before connecting to DTGC Ground rod.

- Attach one end of ground clamp assembly (not supplied) to system ground.
- Attach ground clamp to DTGC grounding rod as shown.
- Engaging hex flat, tighten DTGC to 55-60 ft-lbs.



6**Removing DTGC**

- A. Engaging hex flats, loosen DTGC ground rod.
- B. Remove ground clamp from DTGC ground rod.
- C. Engage DTGC installation adapter with hotstick and install installation adapter onto DTGC ground rod.
- D. Turn hotstick counter-clockwise to loosen DTGC. Remove DTGC once fully loosened and store for future use. Refer to separate DTIC instructions for DTIC installation.

**Installation Complete**



