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## **PLIDCO® BLOCK-STYLE SMITH+CLAMP INSTALLATION INSTRUCTIONS**

### **!! WARNING!!**

IMPROPER SELECTION OR USE OF THIS PRODUCT CAN RESULT IN EXPLOSION, FIRE, DEATH, PERSONAL INJURY, PROPERTY DAMAGE AND/OR HARM TO THE ENVIRONMENT.

Do not use or select a Block-Style PLIDCO Smith+Clamp until all aspects of the application are thoroughly understood. Do not use the Block-Style PLIDCO Smith+Clamp until you read and understand these installation instructions. If you have any questions, or encounter any difficulties using this product, please contact:

**PLIDCO “DEPARTMENT 100” at 440-871-5700  
toll free U.S. & Canada at 800-848-3333**

### **READ CAREFULLY**

The person in charge of the repair must be familiar with these instructions and communicate them to all personnel involved in the installation.

### **Safety Check List**

- Read and follow these instructions carefully. Follow your company’s safety policy and applicable codes and standards.
- The Block-Style PLIDCO Smith+Clamp is a pinhole leak repair clamp and should never be used to couple pipe. The Block-Style PLIDCO Smith+Clamp has no end restraint, and if so utilized could result in EXPLOSION, FIRE, DEATH, PERSONAL INJURY, PROPERTY DAMAGE, AND/OR HARM TO THE ENVIRONMENT.
- Be absolutely certain the gasket seal material (expanded ptfе up to 500°F or graphite 500°F to 700°F) is suitable for the intended use.
- Observe the working pressure and temperature on the label of the Block-Style PLIDCO Smith+Clamp. Do not exceed the maximum working pressure or temperature as indicated on the unit.
- When repairing an active leak, extreme care must be taken to guard personnel. Severe injury or death could result.
- If the pipeline has been shut down, re-pressuring should be done with extreme caution. Re-pressuring should be accomplished slowly and steadily without surges that could vibrate the

pipeline and fitting. Industry codes and standards are a good source of information on this subject. Except for testing purposes, do not exceed the design pressure of the Block-Style PLIDCO Smith+Clamp. Personnel should not be allowed near the repair until the seal has been proven.

- ❑ The maximum working pressure of a Block-Style PLIDCO Smith+Clamp is based on a 1/8 inch diameter pinhole. Larger pinholes can be sealed at reduced pressures. Contact PLIDCO for specific details.

**Pipe Preparation**

- Remove all coatings, rust and scale from the pipe surface where the gasket of the Block-Style PLIDCO Smith+Clamp will contact the pipe.
- The gasket can tolerate minor surface irregularities up to ± 1/32 of an inch.

**Installation**

1. Clean and lubricate all studbolts and nuts. Ensure the nuts turn easily on the studbolts.
2. Loosely assemble the Block-Style PLIDCO Smith+Clamp on the pipe next to the leak. Note the gasket is in one half of the block only. (See figure.)
3. Slide the Block-Style PLIDCO Smith+Clamp over the leak, centering the gasket on the leak as best as possible. A grease pen mark on the pipe is helpful in centering the Block-Style PLIDCO Smith+Clamp.
4. Tighten all studbolts to the torque value shown below.

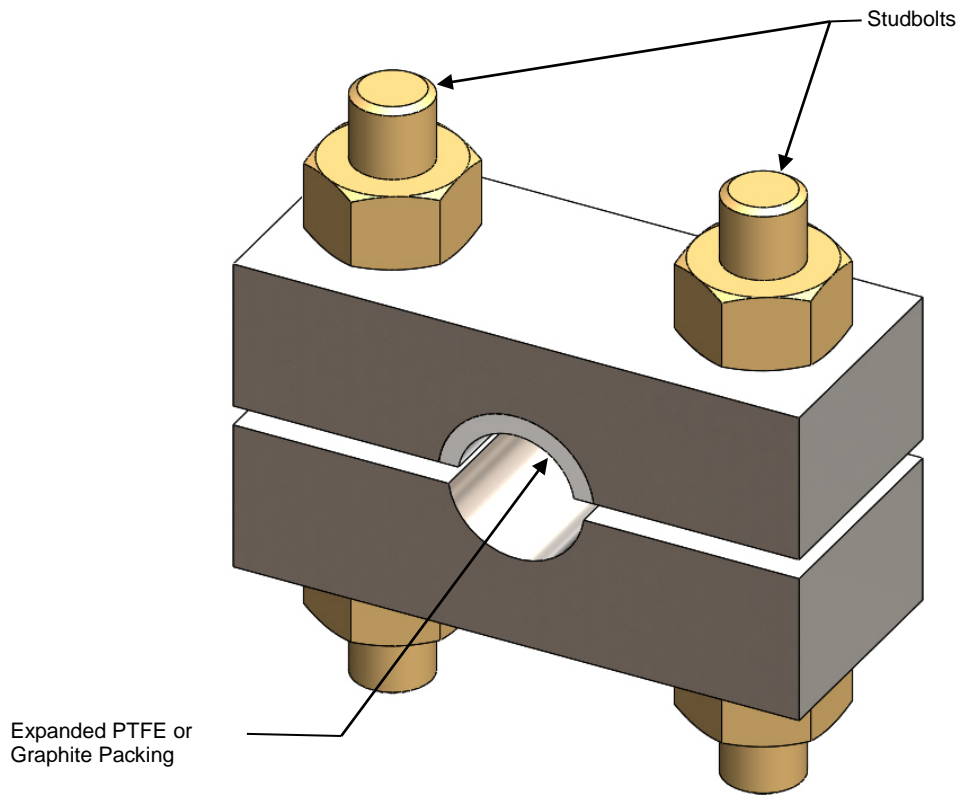
Drawbolt Size (inches)	Torque for PTFE Packing		Torque for Graphite Packing	
	ft-lbs	Nm	ft-lbs	Nm
1/2	25 to 35	34 to 47	45 to 55	61 to 75

**Field Testing**

- The Block-Style PLIDCO Smith+Clamp can be field tested up to 1½ times its design pressure.

**Storage Instructions**

- PLIDCO Block-Style Smith+Clamps should be stored in a dry environment.
- Storage temperatures should not exceed 120°F (49°C).
- Cover with dark polyethylene to keep the direct sunlight from the gasket.
- It is best to exclude contamination, light, ozone, and radiation.
- Improper storage conditions will cause the gasket material to become cracked and brittle and lose its ability to seal.



Block-Style PLIDCO Smith+Clamp