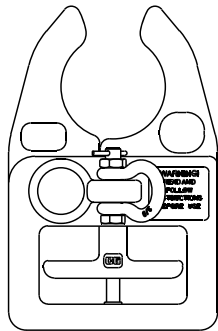


# CROSBY® TUBING GRAB

## WARNING & APPLICATION INSTRUCTIONS



TGRB - Tubing Grab

### WARNING

- Loads may disengage from Tubing Grab if proper procedures are not followed.
- A falling load may cause serious injury or death.
- Never exceed the Working Load Limit (WLL).
- Inspect the Tubing Grab for damage and proper operation before each use.
- Do not use with worn or damaged tubing.
- Do not allow the Tubing Grab or the load to come into contact with any other object during the lift.
- Do not allow the Tubing Grab or load to bounce or allow the hoist line to become slack during the lift.
- Do not use more than one Tubing Grab to lift a section of tubing.
- Do not attempt to detach the Tubing Grab from the tubing when loaded.
- Read and understand these instructions before using the Tubing Grab.

### Important Safety Information Read and follow

- Tubing grabs are designed to work with a specific tubing diameter. Do not attempt to lift any other type of object, or tubing of a different diameter.
- The weight of the load shall be known, calculated, estimated, or measured prior to lifting.
- Shock loading should be avoided.
- See ASME B30.20, "BELOW-THE-HOOK LIFTING DEVICES"; ASME BTH-1, "DESIGN OF BELOW-THE-HOOK LIFTING DEVICES"; NEN-EN 13155: "CRANES-SAFETY-NON-FIXED LOAD LIFTING ATTACHMENTS" for additional information.

### Operating Practices

- To install on tubing, pull the trigger fully, and press the jaws over the tubing. Release the trigger and verify the trigger is fully in the locked or forward position prior to applying a load. The operator's hands must be free of the grab prior to applying the load.
- The grab must be installed adjacent to the flared end of the tubing or the coupler (see Figures 1 & 2). Do not attempt to attach the grab directly to the larger diameter flared end or the coupler (see Figure 3).

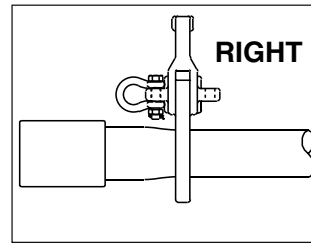


Figure 1

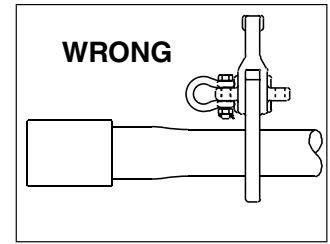


Figure 2

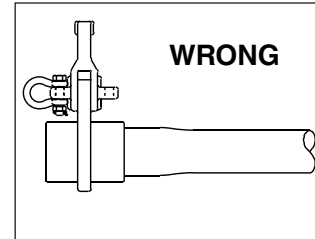


Figure 3

- The hoist line may only apply the load in a 90° range (see Figure 4). Do not apply a load in any other direction or allow the hoisting line to come into contact with the grab (see Figures 5 & 6). The hoist line must pull towards the coupler end.

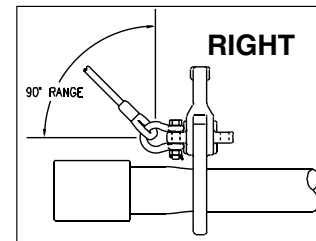


Figure 4

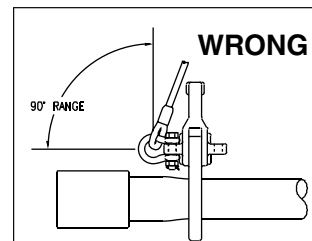


Figure 5

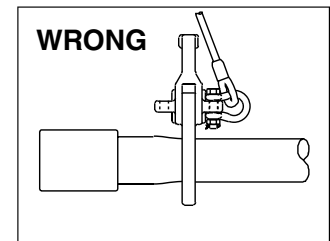


Figure 6

- After the grab has been attached to the tubing, apply force slowly. Watch the load and be prepared to stop lifting if the load moves in an uncontrolled manner.
- The grab may slide on the tubing when the load is applied; keep hands free of the tubing.
- Personnel shall stand clear of the suspended load.
- Personnel shall not be lifted by the grab or by any object connected to the grab.
- During lifting, with or without a load, personnel should be alert for possible snagging.
- The grab should not be dragged on the ground or over abrasive surface.
- Lubrication may be used to keep components moving freely and to prevent corrosion.
- The grab must be kept free of dirt and debris to ensure free movement of components.

- The tubing grab shall be removed from service if any of the following are true:
  - The trigger does not slide freely through entire operating range.
  - The jaw does not rotate freely through entire operating range.
  - The trigger spring or the pivot spring is missing, damaged, or not functioning properly.
  - The pivot pin retaining ring is missing or damaged.
  - Wear, corrosion, or loss of material exceeding 10% of any original dimension.
  - Cracks, breaks, stretching, or bending.
  - Welding, modification, or alteration of any component.
  - Missing or illegible product markings.
- Nicks, gouges, or other wear resulting in sharp corners should be repaired by grinding to restore smooth surfaces. The maximum allowance for reduction of any original dimension is 10%.
- The springs may lose strength or break through normal use and may need to be periodically replaced. Use only genuine Crosby replacement parts.
- The grab or its components may not be subjected to any plating or galvanizing process. The grab is originally supplied with a zinc plated finish and may be painted for additional corrosion control or for identification purposes. Internal sliding or mating surfaces shall not be painted.

### **Environmental Effects**

- The grab is designed for normal operating temperatures of -40°F(-40°C) to 200°F(93°C).
- Do not expose the grab to chemically active environments such as acids or corrosive liquids or fumes. The detrimental effects of chemical exposure can be both visible loss of material and undetectable material degradation resulting in significant loss of strength.