



Sucker Rod Shear Coupling

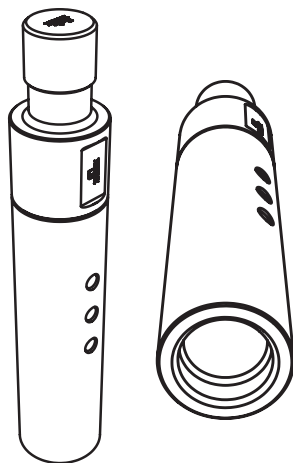
This document contains the recommended procedures installing a Hawkeye Industries Inc. Sucker Rod Shear Coupling.

Tool and Hole Preparation

- 1.) Install all downhole equipment per manufacturer's directions.
- 2.) Calibrate all tooling and installation equipment, and ensure equipment is in proper working order.

Coupling Preparation

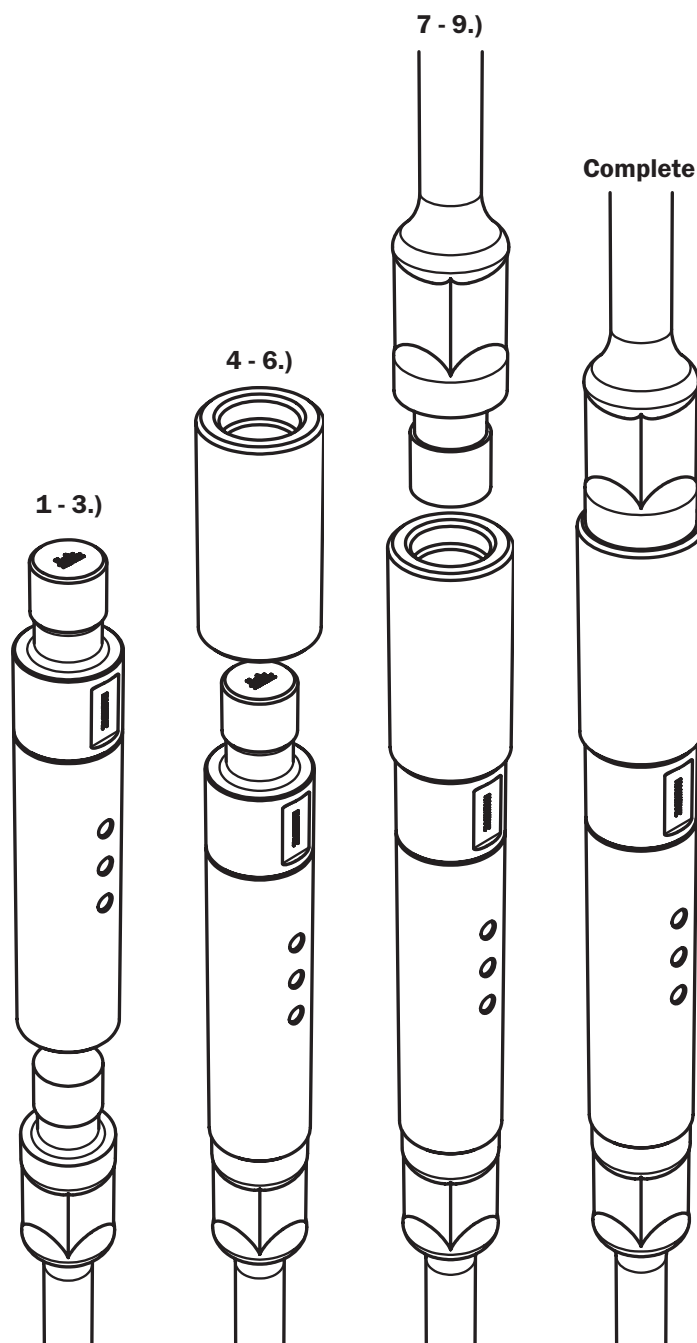
- 1.) Remove thread protection from the box and pin, and ensure both threads are clear of debris, and are free from damage and corrosion. If there is damage or corrosion on the threads, do not use the shear coupling.
- 2.) Apply an appropriate and approved sucker rod thread lubricant to the coupling threads, taking care to degrease the pin shoulder and coupling face to remove thread lubricant.



Joint Make-Up

The Shear coupling can be oriented box-down, or box-up with no effect on performance. The following is for box-down installation, and assumes a sucker rod pin connection is looking up. Do not use a polished rod thread form in the shear coupling box.

- 1.) Carefully place the shear coupling box onto the rod pin and start the first thread by hand.
- 2.) Use a rod wrench to turn the shear coupling until the box flat and sucker rod pin shoulder touch.
- 3.) Use the sucker rod manufacturer's power tong make up procedure for final tightening, taking care not to exceed the published maximum torque rating of the shear coupling.
- 4.) Carefully place the coupling onto the shear coupling pin and start the first thread by hand.
- 5.) Use a rod wrench to turn the coupling until the shear coupling pin shoulder and coupling face touch.
- 6.) Use the sucker rod manufacturer's power tong make up procedure for final tightening, taking care not to exceed the published maximum torque rating of the shear coupling.
- 7.) Carefully insert the sucker rod pin into the coupling and start the first thread by hand.
- 8.) Use a rod wrench to turn the shear coupling until the box flat and sucker rod pin shoulder touch.
- 9.) Use the sucker rod manufacturer's power tong make up procedure for final tightening, taking care not to exceed the published maximum torque rating of the shear coupling.



Shear Coupling Position in Rod String

- ▶ Ensure the shear coupling does not reside in areas of heavy deviation
- ▶ Ensure the shear coupling is not in a position to receive reversible (cyclic) bending, and is at least one joint above the pump.
- ▶ Ensure the shear coupling is not in a position to receive considerable combined (tension + torsion) loading.