

## FIG. 64

## CTS SlideLOK® Ready for Installation Coupling

The CTS SlideLOK coupling is a ready for installation coupling designed to reduce installation time. The slide action allows for a smooth trouble free installation. The patented gasket provides four separate sealing surfaces for added protection. The engineered predictive gap is a quick and easy indication of proper assembly.

The CTS SlideLOK is designed to be used with copper tube sizes 2" - 8" and produces a secure, rigid joint connection.

The CTS SlideLOK coupling allows for a maximum working pressure of 300 psi for Type K or L. Contact an Anvil Representative for other copper tube pressure ratings.



Patent D680629, D680630, D696751

For Listings/Approval Details and Limitations, visit our website at [www.anvilintl.com](http://www.anvilintl.com) or contact an Anvil® Sales Representative



SlideLOK Pressure  
Responsive Gasket

## MATERIAL SPECIFICATIONS

## BOLTS:

SAE J429, Grade 5, Zinc Electroplated

## HEAVY HEX NUTS:

ASTM A563, Grade A, Zinc Electroplated

## HOUSING:

Ductile Iron conforming to ASTM A 536, Grade 65-45-12

## COATINGS:

Rust inhibiting paint Color: COPPER (standard)

Hot Dipped Zinc Galvanized (optional)

## GASKETS: Materials

Properties as designated in accordance with ASTM D 2000

## Grade "EP" EPDM (Copper color code)

-40°F to 250°F (Service Temperature Range)(-40°C to 121°C)

Recommended for water service, diluted acids, alkalies solutions, oil-free air and many other chemical services.

NOT FOR USE IN PETROLEUM APPLICATIONS.

## GASKET TYPE:

SlideLOK (2" - 8")

## LUBRICATION:

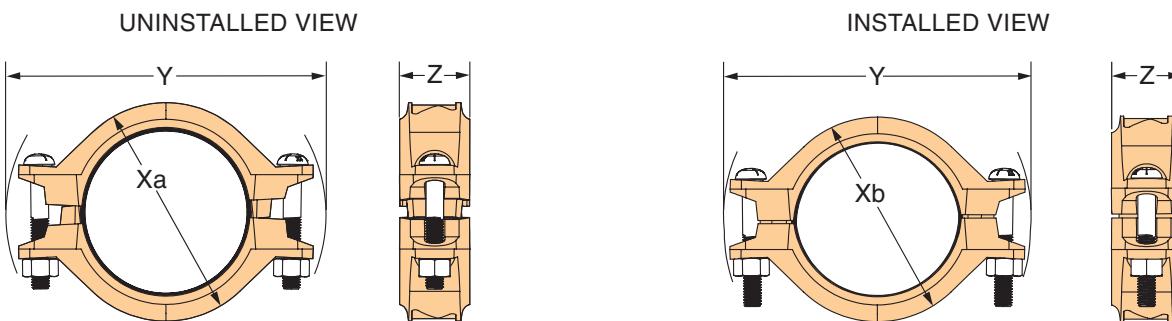
Standard

Gruvlok Xtreme™

PROJECT INFORMATION		APPROVAL STAMP
Project:	<input type="checkbox"/> Approved	
Address:	<input type="checkbox"/> Approved as noted	
Contractor:	<input type="checkbox"/> Not approved	
Engineer:	Remarks:	
Submittal Date:		
Notes 1:		
Notes 2:		

## FIG. 64

CTS SlideLOK® Ready for Installation Coupling



**FIGURE 64 CTS SLIDELOK COUPLING**

Nominal Size	O.D.	Max. Working Pressure	Max. End Load	Range of Pipe End Separation	Coupling Dimensions				Coupling Bolts		Specified Torque §		Approx. Wt. Ea.	
					Xa	Xb	Y	Z	Qty.	Size	Min.	Max.		
In./DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	Ft.-Lbs/N-M	Lbs./kg
2	2.125	300	1,064	0-0.08	3½	3¼	5½	1½	2	½ x 2¾ M12 X 70	45 61	60 81	2.4 1.1	
50	54.0	20.7	4.73	0-2.0	89	83	140	49						
2½	2.625	300	1,624	0-0.08	4	3¾	6	1½	2	½ x 2¾ M12 X 70	80 110	100 150	2.6 1.2	
65	66.7	20.7	7.22	0-2.0	102	95	152	49						
3	3.125	300	2,301	0-0.08	4½	4¼	6¾	1½	2	½ x 3½ M12 X 89	80 110	100 150	3.5 1.6	
80	79.4	20.7	10.24	0-2.0	117	108	171	49						
4	4.125	300	4,009	0-0.13	5½	5¾	8	2	2	½ x 3½ M12 X 89	80 110	100 150	4.0 1.8	
100	104.8	20.7	17.83	0-3.3	140	130	203	51						
5	5.125	300	6,189	0-0.13	6½	6¼	9¼	2	2	½ x 3½ M16 X 89	100 135	130 175	5.0 2.3	
125	130.2	20.7	27.53	0-3.3	168	159	235	51						
6	6.125	300	8,839	0-0.13	7¾	7¼	10¼	2	2	½ x 3½ M16 X 89	100 135	130 175	5.8 2.6	
150	155.6	20.7	39.32	0-3.3	197	184	260	51						
8	8.125	300	15,555	0.07-0.13	9¾	9¼	12¼	2	2	½ x 4¼ M16 X 110	100 135	130 175	8.0 3.6	
200	206.4	20.7	69.19	0-3.3	248	235	311	51						

For additional details see "Coupling Data Chart Notes" in the Introduction Section of the Gruvlok Catalog.  
 § – For additional Bolt Torque information, see the Technical Data Section of the Gruvlok Catalog.  
 See Installation & Assembly directions on next page.

**FIG. 64**CTS SlideLOK™ Rigid Coupling  
**INSTALLATION****READY FOR INSTALLATION - RIGHT OUT OF THE BOX**

Do not disassemble the CTS SlideLOK™ Coupling. The Figure 64 coupling is ready for installation. The bolt and gasket do not need to be removed.



**1 Copper Tube Preparation**— Copper tube ends are to be roll grooved copper tube according to Anvil specifications. The tube end must be smooth and free from metal burrs or projections.

**2 Gasket Preparation**— Ensure the gasket is suitable for the intended application by referring to the Anvil gasket compatibility chart. Apply a light coating of Gruvllok® Lubricant to exposed gasket surfaces.

**3 Assembly**— The CTS SlideLOK Figure 64 may be installed by one of two methods. The preferred method depends on the type of components being joined and their orientation. Please review both methods before installing.

**METHOD #1**

Slide the CTS SlideLOK coupling completely over the grooved copper tube end. This will allow a clear and un-obstructed view of the tube for correct alignment.



**A.** Slide the coupling on the copper tube past the groove. The bolts and nuts can be hand tightened to position the coupling in place.

**B.** Align the mating copper tube end. Align the two adjoining tubes together.

**C.** Slide the coupling back over the grooves so that the coupling keys are located over the respective grooves on both copper tube ends.

**D.** Follow the instructions on fastening the coupling as shown in Step 4.

**METHOD #2**

Slide the CTS SlideLOK™ coupling half way onto the copper tube end or fitting. This will better accommodate fitting, and valve accessories during installation.



**A.** Slide the coupling on the fitting so that the groove and keys are aligned.

**B.** Bring the copper tube end or fitting towards the coupling and insert so that the groove and coupling keys are aligned.

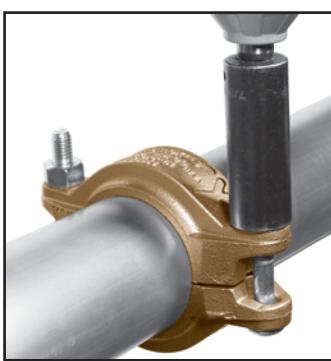
**C.** Hand tighten the nuts to correctly position the couplings keys over the respective grooved ends.

**D.** Follow the instructions on fastening the coupling as shown in Step 4.

**4 Final Assembly**

Securely tighten nuts alternately and equally, keeping the gaps at the bolt pads evenly spaced.

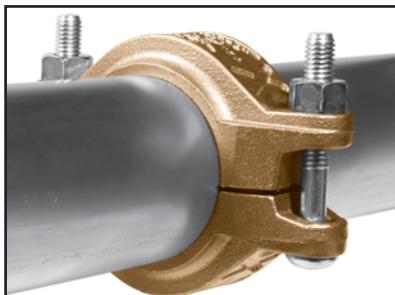
**CAUTION:** Uneven tightening may cause the gasket to pinch. Gasket should not be visible between segments after bolts are tightened.

**ANSI Specified Bolt Torque**

Sizes	Torque
<i>In.</i>	<i>Ft.-Lbs</i>
2	45 - 60
2 $\frac{1}{2}$ - 4	80 - 100
5 - 8	100 - 130

**5 Final Inspection**

Ensure the coupling is properly aligned in the grooves and the housing halves have equal and even gaps between pads, depicted in the picture to the right.

**CORRECT****INCORRECT**

**FIG. 64**

CTS SlideLOK™ Rigid Coupling

**RE-INSTALLATION****REINSTALLATION OF THE FIGURE 64 CTS SLIDELOK™ COUPLING**

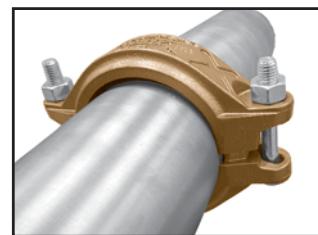
The CTS SlideLOK coupling is designed to be installed in the ready for installation assembly position once. After the initial assemble the following steps are to be taken to re-install the Fig. 64 CTS SlideLOK coupling.

**1 De-pressurize the System**

De-pressurize the system before removing the CTS SlideLOK Coupling. Disassemble the couplings by removing the nuts, bolts and gasket from the housing halves. A wrench is required to overcome the epoxy used to secure the nuts on the bolts.

**2 Copper Tube Preparation**

Copper tube ends are to be roll grooved copper tube according to Anvil specifications. The tube end must be smooth and free from metal burrs or projections.

**3 Gasket Preparation**

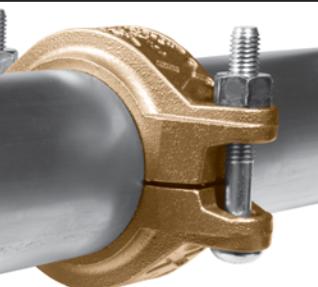
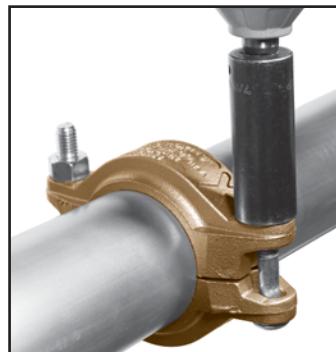
Ensure the gasket is suitable for the intended application by referring to the Anvil gasket compatibility chart. A light coating of Gruvlok® lubricant must be applied to the gasket prior to installation.

**4 Copper Tube Alignment and Gasket Installation**

Slide the gasket onto the copper tube then align the two tube ends together. Center the gasket between the grooves on each copper tube. Gasket should not extend into the groove on either copper tube.

**6 Final Assembly**

Securely tighten nuts alternately and equally, keeping the gaps at the bolt pads evenly spaced.

**ANSI Specified Bolt Torque**

Sizes	Torque
In.	Ft.-Lbs
2	45 - 60
2 $\frac{1}{2}$ - 4	80 - 100
5 - 8	100 - 130

**7 Final Inspection**

Ensure the coupling is properly aligned in the grooves and the housing halves have equal and even gaps between pads, depicted in the picture to the right.



CORRECT



INCORRECT