

## FIG. 74

### SlideLOK® Ready for Installation Coupling



SlideLOK Pressure  
Responsive Gasket

The SlideLOK coupling is the most rigid ready for installation coupling designed to reduce installation time. The slide action eases assembly and reduces installation time. The patented gasket provides four separate sealing surfaces for added protection.

The SlideLOK coupling is designed to be used with roll groove or cut groove steel pipe, grooved light wall pipe, Gruvlok® grooved-end fittings, and valves.

The SlideLOK coupling allows for a maximum working pressure of 750 psi on roll or cut grooved carbon steel standard wall pipe. The SlideLOK coupling provides a rigid connection allowing pipe hanging practices per ASME B31 Pipe Codes.

\* Patent: 8550502, 8615865, 2732427, D680629, D680630, D696751, 8282136, 9239123, 9297482, 9194516, 9297484, 9039046, 9500307

## 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: ORANGE (standard)
- ☐ Hot Dipped Zinc Galvanized (optional)

#### GASKETS: Materials

Properties as designated in accordance with ASTM D 2000

- ☐ **Grade "EP" EPDM** (Green and Red color code)  
-40°F to 250°F (Service Temperature Range)(-40°C to 121°C)  
Recommended for water service, diluted acids, alkalis solutions, oil-free air and many other chemical services.  
NOT FOR USE IN PETROLEUM APPLICATIONS.
- ☐ **Grade "T" Nitrile** (Orange color code)  
-20°F to 180°F (Service Temperature Range)(-29°C to 82°C)  
Recommended for petroleum applications. air with oil vapors and vegetable and mineral oils.  
NOT FOR USE IN HOT WATER OR HOT AIR

#### GASKET TYPE:

SlideLOK (2" - 8")

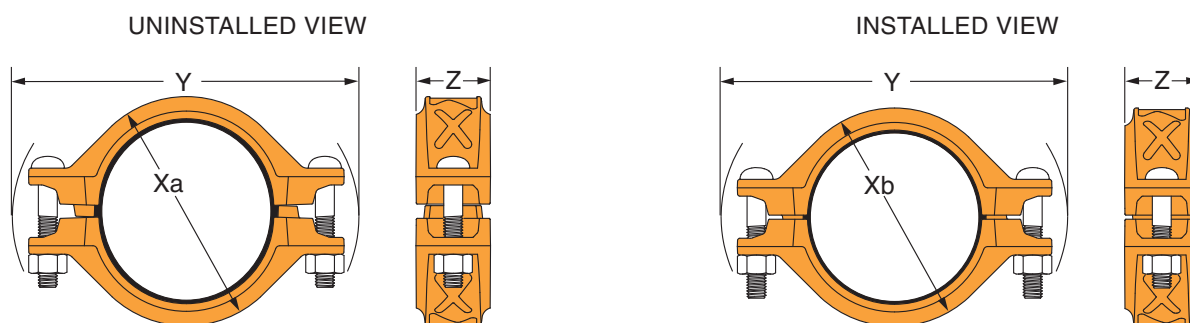
#### LUBRICATION:

- ☐ 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. 74

### SlideLOK® Ready for Installation Coupling



#### FIGURE 74 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	Ft.-Lbs/N-M		Lbs./kg
2 50	2.375 60.3	750 51.7	3,323 14.78	0-1/32 0-0.79	3 3/4 95	3 3/8 86	6 152	2 51	2	1/2 x 2 3/4 M12 x 70	80 110	100 150	2.9 1.3
2 1/2 65	2.875 73.0	750 51.7	4,869 21.66	0-1/32 0-0.79	4 5/8 117	4 1/4 108	6 3/8 163	2 51	2	1/2 x 2 3/4 M12 x 70	80 110	100 150	3.1 1.4
3 80	3.500 88.9	750 51.7	7,216 32.10	0-1/32 0-0.79	5 1/8 132	4 11/16 119	7 178	2 51	2	1/2 x 3 1/2 M12 x 89	80 110	100 150	3.6 1.6
4 100	4.500 114.3	750 51.7	11,928 53.06	0-3/32 0-2.38	6 1/2 165	6 152	8 5/16 212	2 51	2	1/2 x 3 1/2 M12 x 89	80 110	100 150	4.9 2.2
5 125	5.563 141.3	750 51.7	18,229 81.09	0-5/16 0-7.9	7 1/4 184	6 3/4 171	10 1/2 267	2 51	2	5/8 x 3 1/2 M16 x 89	100 135	130 175	5.5 2.5
6 150	6.625 168.3	700 48.3	24,130 107.34	0-5/16 0-7.9	8 5/16 211	7 3/4 197	11 279	2 51	2	5/8 x 3 1/2 M16 x 89	100 135	130 175	6.3 2.9
8 200	8.625 219.1	600 41.4	35,056 155.94	0-5/16 0-7.9	10 3/4 273	10 1/8 273	14 356	2 1/2 64	2	3/4 x 4 1/2 M20 x 115	130 175	180 245	14.3 6.5

#### NOTES:

Range of Pipe End Separation values are for system layout reference only. Actual installation spacing may vary based on pipe condition.

▲-Maximum Working Pressure Rating is for schedule 40 steel pipe. For light wall, stainless steel, aluminum and ISO pipe pressure ratings, please refer to the technical data section.

Impact gun can be used for installation, verify that the output of the impact gun is within the required torque range.

Not for use on "EG" rolled or cut grooved pipe ends.

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.  
Not for use in copper systems.

## FIG. 74

### SlideLOK® Ready for Installation Coupling

#### INSTALLATION

#### READY FOR INSTALLATION - RIGHT OUT OF THE BOX

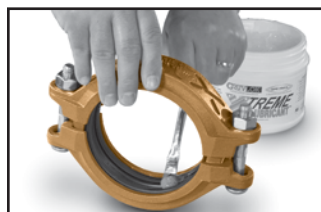
Do not disassemble the SlideLOK Coupling. The Figure 74 coupling is ready for installation. The bolt and gasket do not need to be removed.

#### 1 PIPE PREPARATION

Pipe ends are to be rolled or cut grooved according to Anvil specifications. Not for use on "EG" rolled or cut grooved pipe ends. The pipe end must be smooth and free from metal burrs, sharp edges 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 Gruvlok® Xtreme™ Lubricant to exposed gasket surfaces.



#### 3 ASSEMBLY

The SlideLOK Figure 74 may be installed by one of two methods. The preferred method depends on the type of pipe components being joined and their orientation. Please review both methods before installing.

#### STEP 3 - METHOD #1

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



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

**B.** Align the mating pipe end. Align the two adjoining pipes together.

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

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

#### STEP 3 - METHOD #2

Slide the SlideLOK coupling half way onto the pipe 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 pipe 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 TIGHTEN NUTS

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

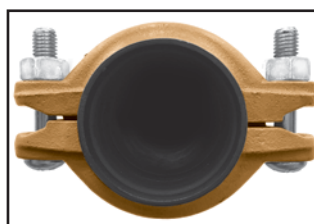
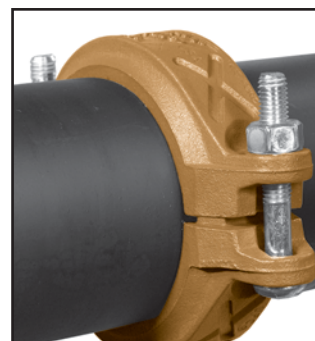
Bolt Size	Wrench Size	Specified Bolt Torque*
In.	In.	Ft.-Lbs
1/2	7/8	80-100
5/8	1 1/16	100-130
3/4	1 1/4	130-180

\* Non-lubricated bolt torque

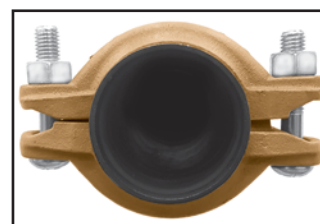
#### 5 ASSEMBLY IS COMPLETE

Visually inspect the pipe joint to assure the coupling keys are fully engaged in the pipe grooves. The bolt pads are to have equal gaps on each side of the coupling.

**NOTICE:** Visually inspect both sides of the coupling to ensure gaps between bolt pads are evenly spaced and are parallel. Any deviations must be corrected before placing coupling into service.



CORRECT



INCORRECT

## FIG. 74

### SlideLOK® Ready for Installation Coupling

#### RE-INSTALLATION

#### REINSTALLATION OF THE FIGURE 74 SLIDELOK COUPLING

The 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. 74 SlideLOK coupling.

**1 DE-PRESSURIZE THE SYSTEM**— De-pressurize the system before removing the SlideLOK Coupling. Dis-assemble 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.

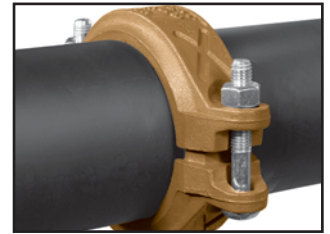


**2 PIPE PREPARATION**  
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**3 GASKET PREPARATION**  
Ensure the gasket is suitable for the intended application by referring to the Anvil gasket compatibility chart. A light coating of Gruvlok® XTreme™ lubricant must be applied to the gasket prior to installation.



**4 PIPE ALIGNMENT AND GASKET INSTALLATION**  
Slide the gasket onto the pipe then align the two pipe ends together. Pull the gasket into position, centering it between the grooves on each pipe. Gasket should not extend into the groove on either pipe.



**5 HOUSING ASSEMBLY**  
Place each housing halves on the pipe making sure the housing key fits into the groove. Be sure that the tongue and recess portions of the housing mate properly. Insert the bolts.

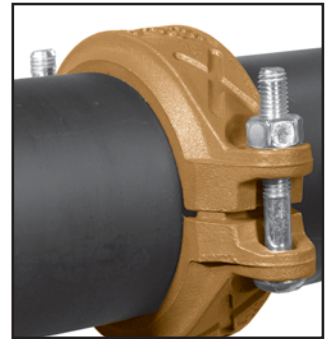
**6 TIGHTEN NUTS**  
Securely tighten nuts alternately and equally, keeping the gaps at the bolt pads evenly spaced.

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



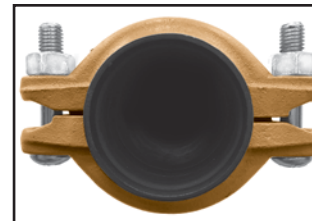
**7 ASSEMBLY IS COMPLETE**  
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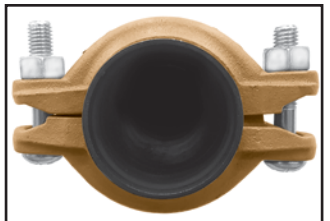


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