

FIG. 7402

SlideLOK® Ready for Installation Coupling



Patent D680629, D680630, D696751



SlideLOK Pressure Responsive Gasket

The SlideLOK coupling is a ready for installation coupling designed to reduce installation time. The slide action allows for greater flexibility during installation. The patented gasket provides four separate sealing surfaces for added protection. The engineered metal-to-metal installation requirement is a quick and easy indication of proper assembly.

The SlideLOK is designed to be used with roll groove or cut groove steel pipe, as well as with grooved light wall pipe, Gruvlok® grooved-end fittings, and valves. The SlideLOK coupling produces a secure, rigid pipe joint connection.

The SlideLOK coupling allows for a maximum working pressure of 750 psi on roll or cut grooved standard wall pipe. Contact an Anvil representative for light wall pipe pressure ratings. The SlideLOK coupling maintains a rigid connection with support and hanging in conformance with applicable ANSI B31.1 Power Piping Code, ANSI B31.9 Building Service Pipe Code.

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. 7402

SlideLOK® Ready for Installation Coupling

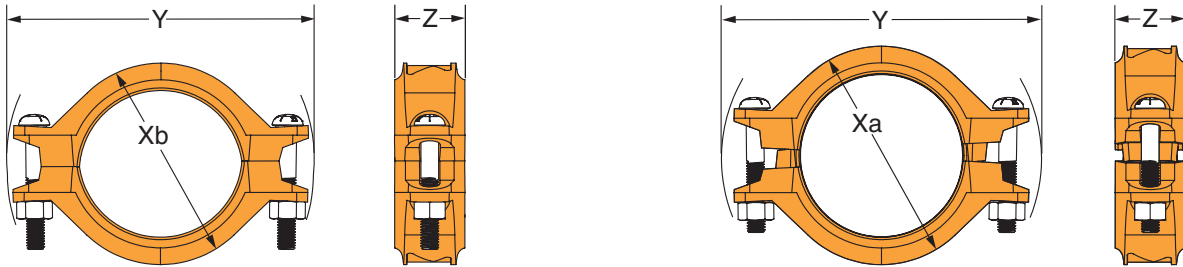


FIGURE 7402 SLIDELOK COUPLING

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	0-3/32 0-2.38	7 3/4 196	7 1/8 181	9 3/4 248	2 51	2	5/8 x 3 1/2 M16 x 89	100 135	130 175	6.1 2.8
6 150	6.625 168.3	700 48.3	24,130 107.34	0-3/32 0-2.38	8 7/8 224	8 1/8 208	10 1/8 274	2 51	2	5/8 x 3 1/2 M16 x 89	100 135	130 175	6.8 3.1
8 200	8.625 219.1	600 41.4	35,056 155.94	0-3/32 0-2.38	11 3/8 289	10 5/8 270	13 3/8 340	2 1/2 64	2	3/4 x 4 1/2 M20 x 115	130 175	180 245	10.9 4.9

NOTES:

Range of Pipe End Separation values are for roll grooved pipe and may be doubled for cut groove pipe.
 † 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.
 Contact an Anvil Representative for use on light wall and SS pipe applications.

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.

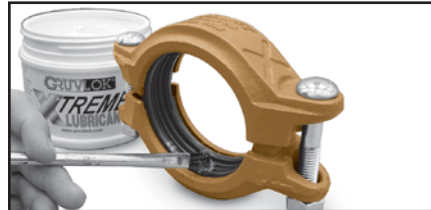
FIG. 7402 SlideLOK® Ready for Installation Coupling INSTALLATION

READY FOR INSTALLATION - RIGHT OUT OF THE BOX

Do not disassemble the SlideLOK™ Coupling. The Figure 7402 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 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 GUVLOK® Xtreme™ Lubricant to exposed gasket surfaces.

3 Assembly— The SlideLOK Figure 7402 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.

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.

METHOD #2

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



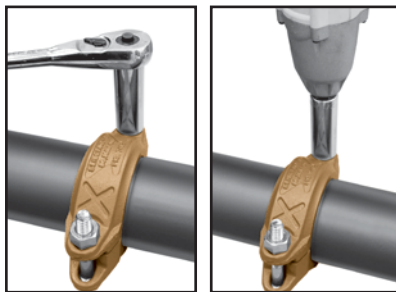
A. Slide the coupling on the fitting so that the groove and keys are aligned.
B. Bring the pipe end or fitting towards the coupling and insert so that the groove and coupling keys are aligned.



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 Final Assembly

The SlideLOK coupling is designed to achieve pad to pad (metal-to-metal contact) using either an impact wrench* or wrench. The intended torque range for the coupling is located in the Table 1. Securely tighten nuts alternately and equally until the housing halves are in metal-to-metal contact.



*** CAUTION:** When using an impact wrench, verify that the output of the impact wrench is within the required torque range. It is recommended that a torque wrench be used for accurate assembly in order to obtain specified performance.

5 Final Inspection

Ensure the coupling is properly aligned in the grooves and the housing halves are in metal-to-metal contact, depicted in the pictures to the right.

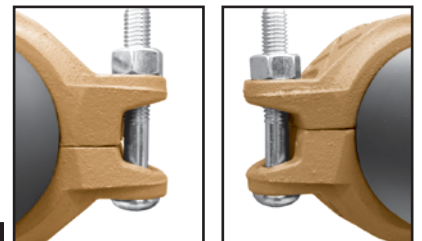


TABLE 1 – TORQUE RANGES

Sizes	Torque
In.	Ft.-Lbs
2 - 4	80 - 100
5 - 6	100 - 130
8	130 - 180

FIG. 7402 SlideLOK® Ready for Installation Coupling

RE-INSTALLATION

REINSTALLATION OF THE FIGURE 7402 SLIDELOK™ COUPLING

The SlideLOK coupling is designed to be installed in the ready for installation assembly position once. After the initial assembly the following steps are to be taken to re-install the Fig. 7402 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.

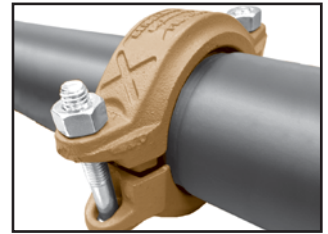


2 Pipe Preparation
Pipe ends are to be rolled or cut grooved according to Anvil specifications. Not for use on "EG" rolled or cut grooved pipe ends. The pipe end must be smooth and free from metal burrs or projections.

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® XTreme™ lubricant must be applied to the gasket prior to installation.

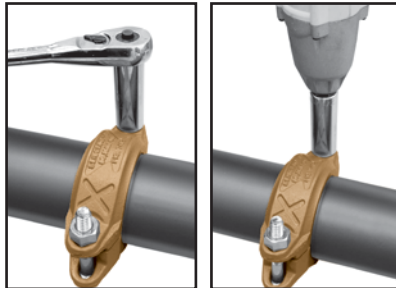


4 Pipe Alignment and Gasket Installation
Slide the gasket onto the pipe then align the two pipe ends together. Pull the gasket into position, centering it between the grooves on each pipe. Gasket should not extend into the groove on either pipe.



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 Final Assembly
The SlideLOK coupling is designed to achieve pad to pad (metal-to-metal contact) using either an impact wrench* or wrench. The intended torque range for the coupling is located in the Table 1. Securely tighten nuts alternately and equally until the housing halves are in metal-to-metal contact.



7 Final Inspection
Ensure the coupling is properly aligned in the grooves and the housing halves are in metal-to-metal contact, depicted in the pictures to the right.

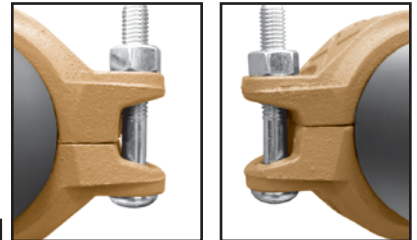
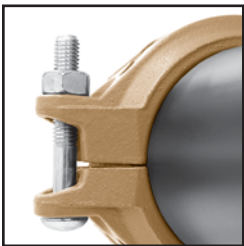


TABLE 1 – TORQUE RANGES

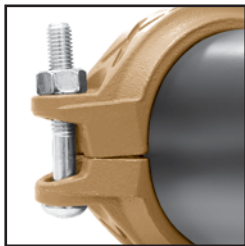
Sizes	Torque
In.	Ft.-Lbs
2 - 4	80 - 100
5 - 6	100 - 130
8	130 - 180

*** CAUTION:** When using an impact wrench, verify that the output of the impact wrench is within the required torque range. It is recommended that a torque wrench be used for accurate assembly in order to obtain specified performance.

Incorrect Installation Examples



Low Torque or Out of Groove



Excess Torque or Shallow Groove Dimension