

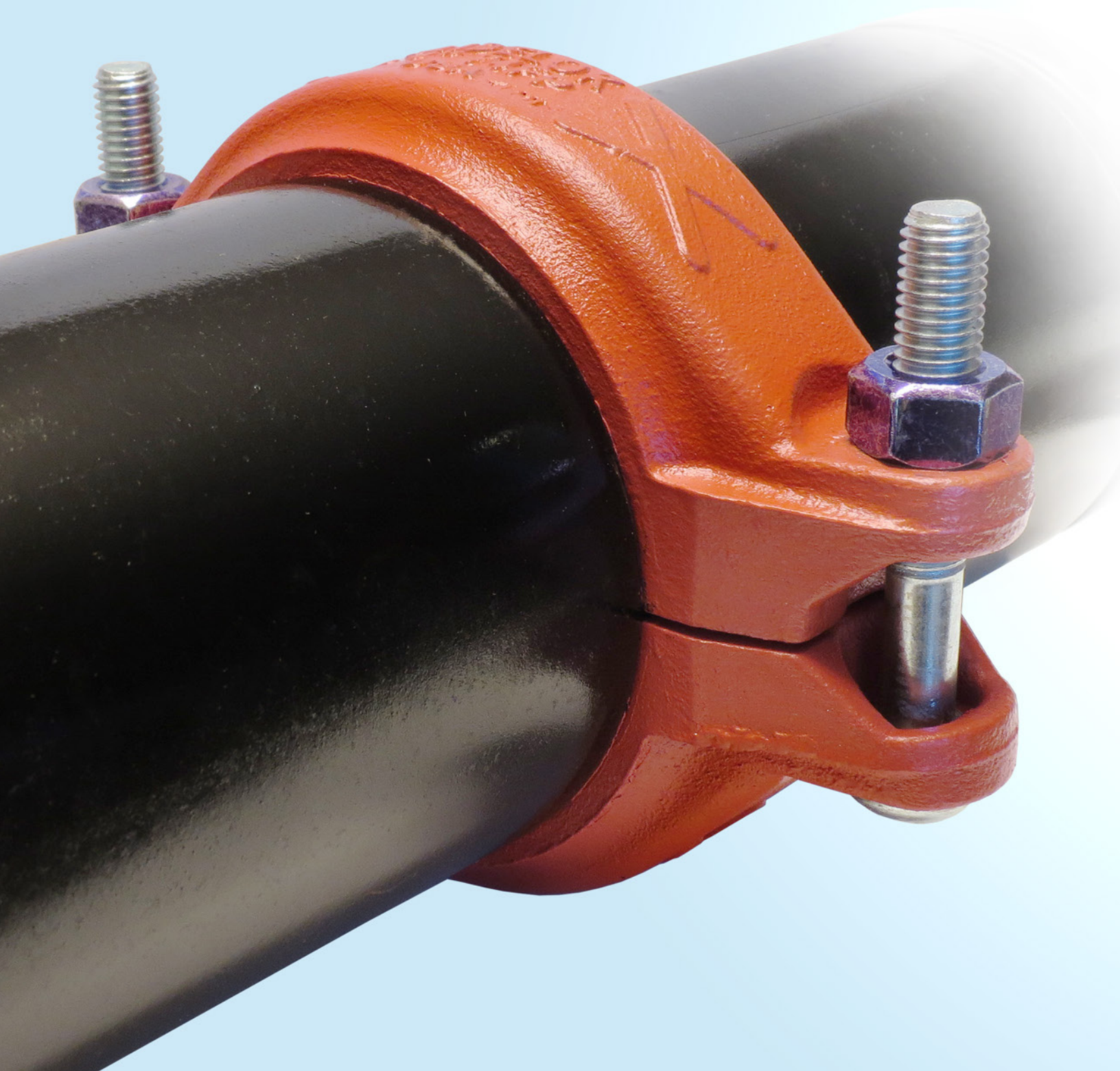
Building connections that last™



# Gruvlok® SlideLOK®

## 74FP Coupling







**Anvil International, a world-wide leader in fire protection piping products, is pleased to introduce the most advanced ready for installation coupling available, manufactured with pride in the U.S.A.**

Utilizing advanced engineering, Anvil introduces the SlideLOK® 74FP rigid coupling. The coupling is the most rigid ready for installation coupling designed to reduce installation time. The coupling is truly unique, offering the safest procedure for installation. There are no loose parts.

The coupling is installed by simply sliding the coupling completely over the pipe end. This method eliminates the possibility of the coupling falling off of the pipe as the entire SlideLOK coupling rests on the pipe end. Installation is completed by bringing the adjacent component up to the pipe end, and sliding the coupling back over both pipe ends. The joint is finished by equally tightening the two bolts with an impact wrench or socket wrench.

The SlideLOK coupling utilizes a tongue and groove design to ensure proper coupling half alignment. When the coupling is tightened an equally spaced gap between the coupling halves should be present. The joint is completed, simply and safely.

The SlideLOK coupling features our pressure-responsive gasket. The patented gasket is the result of state-of-the-art CAD generated design. This innovative gasket features four separate sealing contacts to seal the gasket on the pipe. The gasket employs a unique leading edge to eliminate gasket pinching and patented gasket lips for easy slide action. The gasket is our grade E Type A formulated EPDM gasket and carries a 150°F temperature rating for UL & FM fire protection applications.

**Specification Information:**

Ready for installation couplings shall be SlideLOK 74FP in sizes 1¼" through 4".  
Gaskets shall be grade E Type A for water service (-40°F to 150°F).



# Installation

## Ready for installation - right out of the box

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



## Step 2 – Gasket Preparation

Ensure the gasket is suitable for the intended application by referring to the Anvil gasket compatibility chart.

SlideLOK pre-lubricated gasket does not require lubrication.

**CAUTION:** Gruvlok Xtreme Lubricant must be applied when used in dry pipe systems or freezer applications.

## Step 1 – Pipe Preparation

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

## Step 3 – Assembly

The SlideLOK 74FP 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.



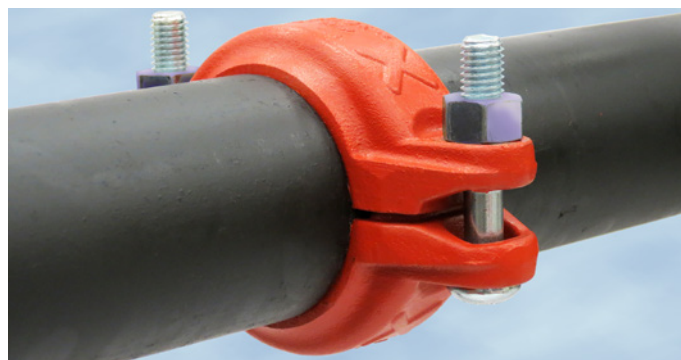
### Step 4 – Tighten Nuts

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

| ANSI Specified Bolt Torque |             |                        |
|----------------------------|-------------|------------------------|
| Bolt Size                  | Wrench Size | Specified Bolt Torque* |
| <i>In.</i>                 | <i>In.</i>  | <i>Ft.-Lbs</i>         |
| 1/2                        | 7/8         | 80-100                 |

\* Non-lubricated bolt torque

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



### Step 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

# Re-Installation

## Reinstallation of the SlideLOK® 74FP 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 SlideLOK 74FP coupling.

### Step 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.



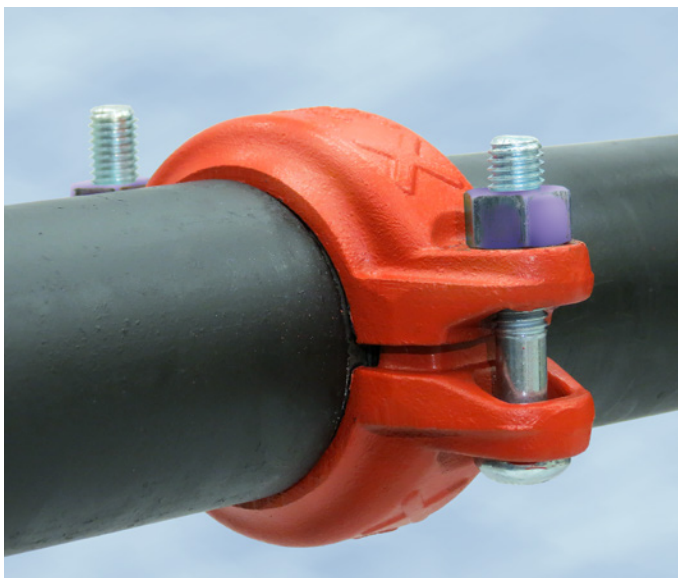
### Step 2 – Pipe Preparation

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



### Step 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.



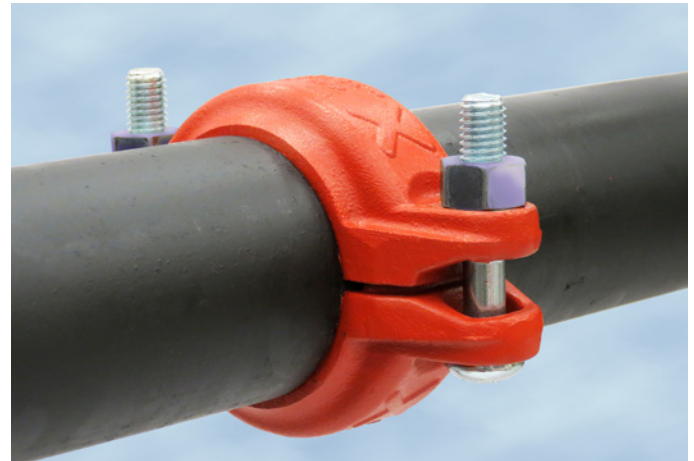
### Step 4 – Pipe Alignment and Gasket Installation

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.

### Step 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.





## Step 6 – Tighten Nuts

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

| ANSI Specified Bolt Torque |             |                        |
|----------------------------|-------------|------------------------|
| Bolt Size                  | Wrench Size | Specified Bolt Torque* |
| <i>In.</i>                 | <i>In.</i>  | <i>Ft.-Lbs</i>         |
| 1/2                        | 7/8         | 80-100                 |

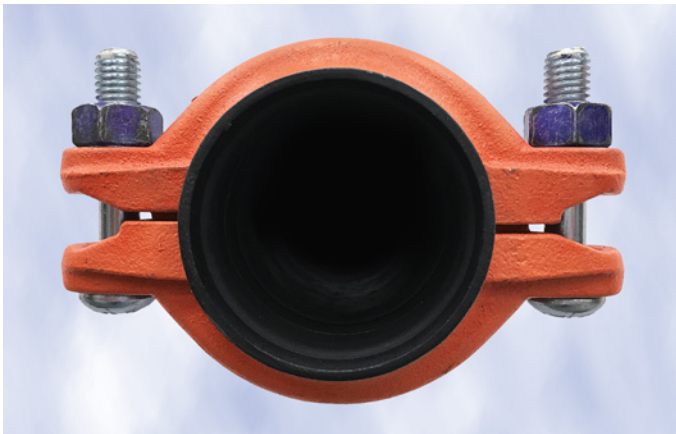
\* **CAUTION:** Uneven tightening may cause the gasket to pinch. Gasket should not be visible between segments after bolts are tightened.

## Step 7 – Assembly is Complete

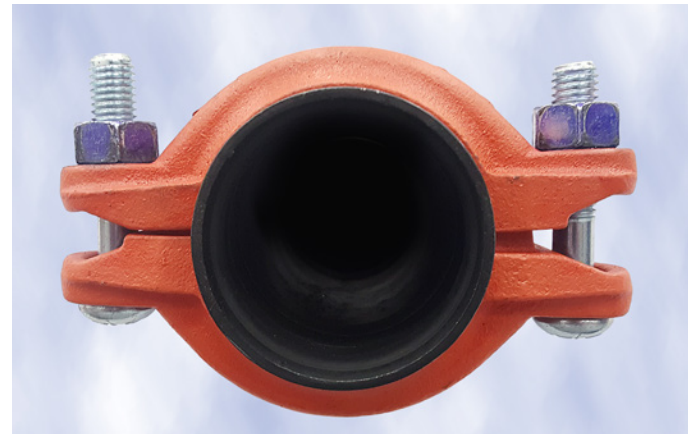
Visually inspect the pipe joint to assure the coupling keys are fully engaged in the pipe grooves. The bolt pads are to have equal gaps on each side of the coupling.

**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 vs. Incorrect Installation Examples



**CORRECT**



**INCORRECT**

### About ASC Engineered Solutions

ASC Engineered Solutions is defined by quality—in its products, services and support. With more than 1,400 employees, the company's portfolio of precision-engineered piping support, valves and connections provides products to more than 4,000 customers across industries, such as mechanical, industrial, fire protection, oil and gas, and commercial and residential construction. Its portfolio of leading brands includes ABZ Valve®, AFCON®, Anvil®, Anvil EPS, Anvil Services, Basic-PSA, Beck®, Catawissa, Cooplet®, FlexHead®, FPPI®, Gruvlok®, J.B. Smith, Merit®, North Alabama Pipe, Quadrant®, SCI®, Sharpe®, SlideLOK®, SPF® and SprinkFLEX®. With headquarters in Commerce, CA, and Exeter, NH, ASC also has ISO 9001:2015 certified production facilities in PA, TN, IL, TX, AL, LA, KS, and RI.



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