

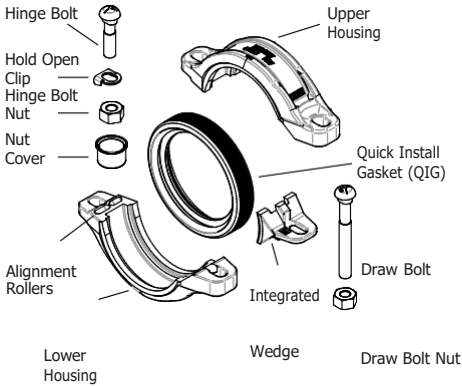


M07 quick install coupling installation instructions

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SJ10MM07_GL

INSTALLATION INSTRUCTIONS

M07 QUICK INSTALL COUPLING



Please read these instructions carefully before installation.



1. **DO NOT DISASSEMBLE THE COUPLING:**
M07, Quick Install Couplings, are designed so that disassembly of the coupling is not required prior to installation. The Quick Install Coupling is designed to allow the installer to directly place the coupling onto the grooved pipe end or fitting.



2. **INSPECT PIPE ENDS:**
The exterior surface of the pipe ends must be free from any indentations, projections, roll marks or other harmful surface defects such as loose paint, scale, dirt, chips, grease and rust.

NOTE

If assembling the M07 onto Grooved Stainless Steel Pipe, ensure the proper Rollers/Dies for Stainless Steel Pipe were used. Please contact your local Shurjoint Sales Rep for further details.



3. **CHECK GASKET:**
Verify the gasket supplied is correct for the intended service. Gasket material is identified by a single or multi-stripe color code located on the sealing lip. The standard EHM gasket is identified by red and green stripes.

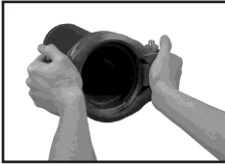
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4. LUBRICATE GASKET:

Shurjoint Lubricant should be applied to the gasket lips to aid in coupling installation. Other compatible lubricants may be used so long as they are not harmful to the gasket and suitable for the intended application. The gasket does not need to be removed for lubrication, as the outside diameter of the EHM gasket is pre-lubricated from the factory.

For systems with an operating temperature of 150F and above, or 32F and below, it is required Shurjoint EHC Lubricant is used.



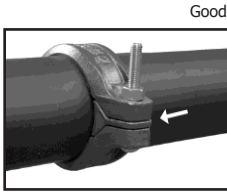
5. INSTALL COUPLING:

Install the coupling on to the grooved pipe end or fitting. Align the center axis of the gasket with the grooved fitting and apply even pressure on the coupling until the gasket is seated onto the pipe/fitting. Install the other mating pipe end into the coupling. The gasket is designed with a center leg that will stop the coupling when fully seated onto the pipe/fitting. Visually check to make sure the coupling keys are aligned with the grooves in the pipes/fittings.

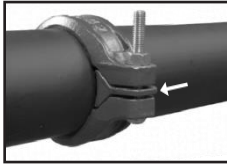
NOTE

The coupling can be rotated on the pipe to ensure the gasket is properly seated.

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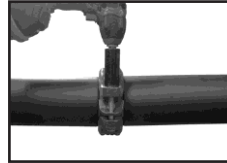
Bad



6. **TIGHTEN NUT:**
Tighten the exposed nut until metal-to-metal contact occurs between the two housing segments and the wedge.

NOTE

An impact wrench or socket wrench can be used to tighten the nut.

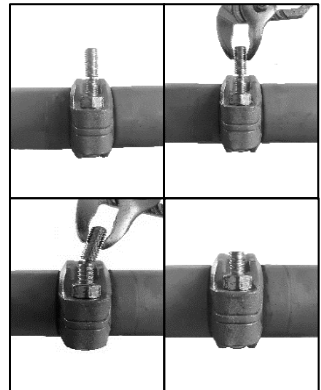


Standard deep-well sockets are required for assembly. Recommended torque ranges are provided to help set impact wrenches for proper installation.

7. **Snap bolt for insulation purpose**

The draw bolt is supplied with a pre-machined section which allows the user to snap off the extended length of the bolt by using a wrench or a piece of tube which slides over the bolt. The bolt can be easily snapped by angling from side to side.

The post snapped bolt provides maximum convenience for insulation. This prevents the bolt from penetrating the insulation material.



Warning

- For initial installation only the nut of the draw bolt needs tightened. Do not remove the nut cover of the hinge bolt. See Disassembly Instructions for more detail.
- Continuing to tighten the nut after visual indicators are met could result in coupling or component damage, resulting in joint failure, personal injury, or property damage.

1. Impact wrenches remove the physical torque feedback that you would experience from ratchets or hand wrenches, to determine tightness. For this reason, it is important to know the impact torque wrenches capabilities and judge them to avoid damaging the bolts and or couplings.
2. Larger bolts may require a greater torque to achieve the correct visual installation indicators. Be sure to use an impact wrench capable of achieving the torque needed. We typically recommend mid torque impact wrenches when installing 2" – 6" M07 couplings and recommend high torque impact wrenches when installing 8" M07 couplings. This will also help extend the battery life of a properly sized impact wrench. If a mid torque impact wrench is used to install the 8" M07, a small gap between the wedge and housing bolts pads might result. A 1/16" (1.5mm) gap is allowed in these cases. Performing assembly trials with various impact wrench manufacturers may help you choose the best wrench for your assembly needs. Always refer to the manufacturer's instruction for the proper use of the impact wrench you are using.

COUPLING SIZES	BOLT SIZE	SOCKET SIZE
2" (DN50), 2.5" (DN65), 3" (DN80), 4" (DN100)	1/2 – 13 M12	7/8" 19mm
5" (DN125), 6" (DN150)	5/8-11 M16	1-1/16" 24mm
8" (DN200)	3/4-10 M20	1-1/4" 30mm

Bolt Size		Torque Values	
mm	inch	Lbs-Ft	Nm
M12	1/2" - 13	90-105	120-140
M16	5/8" - 11	100-130	135-175
M20	3/4" - 10	150-200	200-270

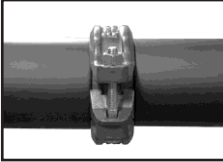
DISASSEMBLY INSTRUCTIONS M07 QUICK INSTALL COUPLING

CAUTION

Make sure the system is depressurized and drained completely before disassembling, adjusting, or removing any coupling or piping

NOTE

There are two methods for dis-assembly and re-installation of M07 Couplings.



METHOD 1

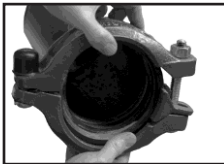
1. **LOOSEN THE DRAW BOLT:**
Loosen **ONLY** the draw bolt, until there are 2-3 threads between the nut and bottom of the bolt.

NOTE

If this bolt is fully removed during disassembly, install the nut and bolt and thread the nut onto the bolt until 2-3 threads are exposed between the nut and bolt end.



2. **SEPARATE HOUSINGS:**
Pull apart the upper and lower housing segments of the coupling to disengage the coupling keys and the mating groove. Remove the pipe/fitting from one side of the coupling.



3. **REMOVE COUPLING:**
Pull apart the upper and lower housing segments of the coupling and then remove the coupling from the corresponding pipe/fitting it is still attached to. (If bolt has been snapped, the coupling can usually still be removed without disassembly when the nut is engaging with 1-2 bolt threads. The 4" M07 might require disengagement of the nut if the bolt has been snapped.)

REINSTALLATION

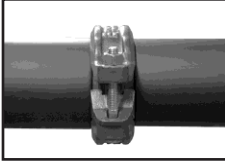
Follow steps 2-6 of the "Installation Instructions for the M07 Couplings." Confirm housings segments make metal-to-metal contact at both bolt pads.

NOTE

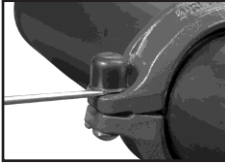
Inspect the gasket for signs of damage and/or wear and replace if necessary. If the coupling had been placed in service for a period of time prior to disassembly, best piping practices call for replacing the gasket; lubricate the interior and exterior surfaces of the gasket with a compatible lubricant for the intended application before reinstallation.

DISASSEMBLY INSTRUCTIONS M07 QUICK INSTALL COUPLING

METHOD 2



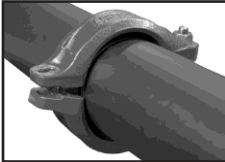
1. **LOOSEN THE DRAW BOLT:**
Loosen the draw bolt, until there are 2-3 threads between the nut and bottom of the bolt. This bolt/nut does not need to be fully removed, as it will keep the housing segments and the wedge contained.



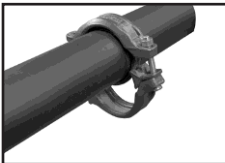
2. **REMOVE NUT COVER:**
Remove the nut cover. A screwdriver or pick can be used to help



3. **REMOVE HINGE SIDE BOLT:**
Loosen and remove the bolt/nut on the hinge side



4. **SWING HOUSING:**
Swing the lower housing segment down and around 180°. Lift/remove the upper housing segment and the wedge from the gasket.



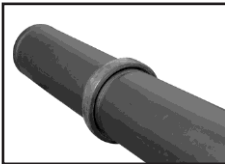
5. **REMOVE PIPE/FITTING**
Remove the grooved pipe/fittings ends from the gasket.

REASSEMBLY INSTRUCTIONS M07 QUICK INSTALL COUPLING

Follow steps 2-4 of the "Installation Instructions for the M07 Couplings.". Inspect the gasket for signs of damage or wear and replace if necessary. Lubricate the interior and exterior surfaces of the gasket with a lubricant appropriate for the intended application.



1. **INSTALL GASKET:**
Slide the gasket onto the corresponding end of the grooved pipe/fitting until it contacts the center leg of the gasket.

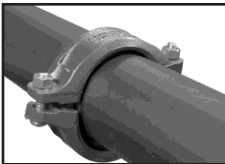
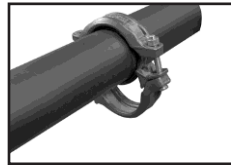


2. **JOIN MATING PIPES:**
Bring together and align the second pipe/fitting, by sliding into the gasket until it contacts the center leg of the gasket. No part of the gasket should protrude into the groove of either pipe/fitting.



3. **ASSEMBLE COUPLING:**
For a "swing-over" assembly loosely install the draw bolt/nut with the two housing halves and the wedge, until there are 2-3 threads between the nut and bottom of the bolt.

4. **INSTALL COUPLING HALVES:**
For a "swing-over" installation, place one of the coupling halves around the top side of the gasket and align the wedge with top housing half. Swing over the other coupling half into position over the bottom side of the gasket. Make sure the coupling keys are aligned to engaged in the grooves



5. **INSERT BOLT AND NUT:**
Insert the hinge bolt and apply the nut hand-tight. Make sure that the oval neck of the bolt engages into the bolt hole of the housing.

REASSEMBLY INSTRUCTIONS M07 QUICK INSTALL COUPLING

6. TIGHTEN NUTS:
Tighten nuts starting with the draw bolt/nut, alternately and equally until the wedge and bolt pad make metal-to-metal contact on the wedge side.
See page 4 for torque values
7. INSTALL NUT COVER:
Install the black nut cover onto the shorter bolt by pushing on or tapping with a hammer.



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