

Icon Instruction for SnapLock Flange Design Conduit Fitting

*** Read/Watch Instruction Completely Before Installation*** Rev 11/01/22

Background

Icon developed the SnapLock design in SplitRepair Fittings to simplify the split bonding process for installations inside UST secondary containment sumps. This fitting design makes the alignment and connection for bonding of the split fitting parts around connected piping much easier, without necessity to hold the parts together for any extended period of time. Additionally, for some conduit fitting types, the SnapLock conduit fitting will reduce the amount of rubber removal required before installation. This instruction generally assumes that the existing Standard 4-bolt design bolts are in a condition that can be re-used as part of the compression seal for the repair. Look for the [QR code on the package to link to an installation instruction video](#).

Tools, Parts & Materials

The following minimum tools, materials, and parts needed:

- 5/16" Hand Driver Tool to remove and install band clamps
- Hand Cutting Tool to remove existing rubber fitting
- Hand Scraping Tool to remove existing sealant
- 40 Grit Sandpaper & Acetone/Alcohol for cleaning surfaces
- Icon FastFuse Fitting Bonding Solvent – IAC FastFuse
- Icon PetrolSeal Fitting Gasket Sealant – IAC PS200*
- Icon Dispensing Gun - IAC MGun200
- Icon SplitRepair Fitting Part - IRF 4B1.4SL for Standard 4-bolt

* Sikaflex 1a may be used as a substitute outside of New Hampshire



Active Water Intrusion?

If there is an active water leak through the fitting or elsewhere in the sump, the water intrusion must be generally stopped before a repair can proceed. There are several options to consider, but an instant water block may be a solution that will allow for quicker repair. *Icon FastFoam* instant water block can be applied through existing fitting or elsewhere immediately prior to removal of any material as part of the repair. Reference *FastFoam* instruction and video for more details.



STEP 1 – Preparation and Existing Fitting Removal

As applicable, remove the existing fitting by removing the band clamp, nuts (save for later), and metal compression ring (save for later). Then remove the existing rubber fitting. If the rubber is entering the sump from the outside, you only need to cut the rubber back to the front of the bolts, approximately just behind the existing band clamp.

Caution: Be careful in the removal of existing fitting materials that you do not damage the pipe.

Also, for 1" conduit, cut the smaller nipple portion of the SnapLock fitting off each half in preparation for installation.



STEP 2 – Surface Cleaning

Make sure that any sealant previously used, and any grime and oil residue is scraped, removed, and/or cleaned away completely around the fitting area where the replacement fitting will sit on the sump wall and pipe surfaces. Clean the surfaces with acetone or alcohol prior to the following steps.

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STEP 3 – Split- Bonding Fitting

Follow the split-bonding process detailed in the steps below. Do this around the pipe in front of the existing bolts as applicable.

1. Clean the split surfaces of both SnapLock fitting halves with acetone or isopropyl alcohol.
2. Then liberally apply Icon FastFuse solvent to the split surfaces and immediately hold the parts together, correctly aligned. They will “snap” together when lubricated with the solvent
3. Leave on the pipe to cure for 1 hour.



STEP 4 – Fitting Assembly

After a 1-hour cure time, dispense gasket sealant onto the back of the Icon repair fitting or against the sump wall around the bolt pattern sufficient that when the fitting is compressed against the sump surface completely, it will provide a thin and complete coating between sump and fitting. Any excess should be wiped away at the end of the installation.

Then assemble the Icon repair fitting over the bolt pattern. Replace the existing metal compression ring over the bolt pattern, or use the Icon provided split metal compression ring. Replace the nuts or use any Icon provided lock nuts, and hand tighten down the nuts completely in a star pattern sequence to achieve an even and flush compression seal against the sump.

If existing bolts are non-existent or damaged and removed as part of surface preparation, then the fitting can be tek-screwed to the sump surface. Be careful in driving or tightening the tek-screws too much, such that it might strip out and lose compression strength from overtightening.

Tighten the band clamp completely down over the pipe end of the fitting.



STEP 5 – Quality Check Assembly

Make sure that all parts are seated/fitted properly and that all nuts and the band clamp are completely hand tightened (15-20 inch pounds) to assure a leak-tight compression seal. The repair is complete at this point and ready for hydrostatic or other testing at this point.

IMPORTANT NOTICE

Icon repair products should be installed by an Icon Certified Installer. This certification is obtained through a basic installer training offered by Icon directly every week. Icon's product warranty is predicated upon “certified” installer installation. There is no fee, and registration for the training can be done at our web page or by emailing training@icontainment.com. Contact us for any questions about training or this installation procedure.