

Read Instructions Completely Before Installing REV 02/21

Background

There have been many manufacturers in of a bolted “Flange” design sump entry fittings with some rubber boot component for product pipe and conduit. With a few exceptions, the 4, 5, 6, 8, 10, and 12-bolt patterns for all designs are consistently the same size and circumference. OPW manufactured or owns 4, 6, 8, and 10-bolt design that are unique, but generally discernible by the compression ring design or size. Icon provides a direct replacement, compression sealed, repair “Flange” design fitting that very closely matches the overall look of the original fittings for OPW and all other manufacturers. This type of fitting repair requires that the existing fitting be removed as part of the process, and assumes that the existing bolts are in a condition that they can be re-used as part of the compression seal for the repair fitting.

Tools, Parts & Materials

The following tools, parts, and materials are needed for this repair:

- 5/16” Hand Driver Tool for Band Clamps
- Rubber Cutting Tool for Old Fitting
- Acetone or Isopropyl Alcohol for cleaning
- Icon FastFuse Fitting Bonding Solvent – [IAC FastFuse](#)
- Icon PetrolSeal Fitting Gasket Sealant – [IAC PS200](#)
- Icon Dispensing Gun - [IAC MGun200](#)
- Icon Split-Repair Fitting Parts (See Part Specification)
- Icon Split-Repair Fitting Part - IRF *B*.* (per bolt pattern & pipe OD size)



Active Water Intrusion?

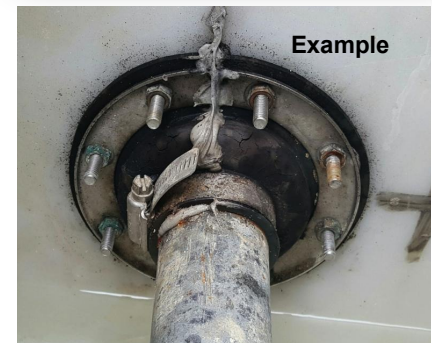
If there is an active water leak through the fitting or elsewhere in the sump, the water intrusion must be stopped before a repair can proceed. There are several options. (1) pump down the water table level; (2) wait for any seasonal or periodic drop in water table; or (3) treat the water leak with *Icon FastFoam* instant water block. *FastFoam* can be applied through the existing fitting or elsewhere prior to removal of any material. Reference *FastFoam* instruction and video. 50ml, 215ml, and 600ml volume cartridge sizes are available.



STEP 1 –Preparation for Repair Fitting

Remove the existing fitting by removing the nuts (save for later) and metal compression ring (save for later), and move them out of the way. Then remove the existing rubber fitting. If the rubber is entering the sum from the outside, you must cut the rubber back to the mouth of the sump.

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



STEP 2 – Surface Cleaning

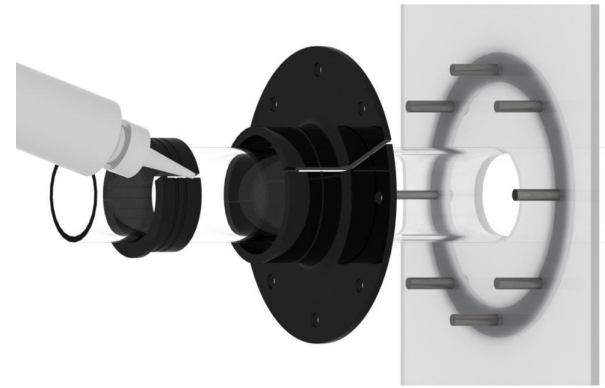
Make sure that any sealant previously used, and any grime and oil residue is cleaned away completely around the fitting area where where the replacement fitting will fit on the sump wall and pipe surfaces. Wipe down with acetone or alcohol prior to the following steps.

Read Instructions Completely Before Installing REV 02/21

**STEP 3 –
Bonding
the Split
Repair
Fitting
Part(s)
Over Pipe**

Follow the split-bonding process for the Icon repair fitting part(s) over the pipe in front of the bolts, not on the bolts.

1. Clean the split surfaces of the fitting part with acetone or isopropyl alcohol.
2. Then liberally apply Icon FastFuse to the split surfaces and immediately hold the part together, correctly aligned, and without movement for 2 minutes minimum.
3. Leave on the pipe to cure for 1 hour.

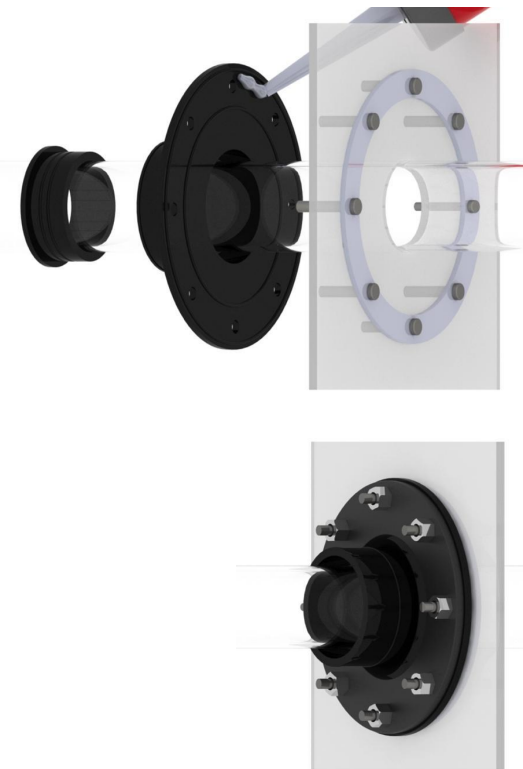


**STEP 4 –
Assembly
of Repair
Fitting Over
Bolts**

After the 1 hour cure time, dispense PetrolSeal fitting 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 wall surface completely it will provide a thin but complete coating on the sump wall surface behind the fitting. A very minor amount the sealant should be seen at the edge of the repair fitting. Any excess will be wiped away after the installation.

At this point, you can assemble the Icon repair fitting over the bolt pattern. Replace the existing metal compression ring over the bolt pattern, or use a new Icon split metal compression ring if purchased. Replace the nuts and tighten down the nuts completely in a star pattern sequence to achieve an even and flush compression seal against the sump wall.

If there is a reducing insert involved in the repair kit, then apply Icon FastFuse liberally around the insert and in the split, and push the insert into the mouth of the fitting just prior to placing the fitting onto the cuff, if you have not already gone through this process. No cure time is required for the insert bonding. Make sure that the insert and fitting are positioned properly.



**STEP 5
–Check for
Correct
Assembly
and Tighten
Band
Clamps**

Make sure that all parts are seated/fitted properly and then tighten the band clamp down completely (50-60 inch pounds) to assure a leak-tight compression seal on the pipe. There is no cure time required for the bonding solvent used with an Insert (if applicable), as the compression will provide the seal. The solvent will continue to cure over 1 hour to make the Icon Fitting and Insert pieces a solid, single fitting. The repair is finished and ready for hydrostatic or other testing at that 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 via WebEx 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 the following link: <http://icontainment.com/training/> Icon repair products should be installed by an Icon Certified Installer. This certification is obtained through a basic installer training offered by Icon directly via WebEx 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 the following link: <http://icontainment.com/training/>. Contact us for any questions about training or this installation.