Split Sump Entry Fitting Instructions

For Red Thread™ IIA, Dualoy™ 3000/L and Dualoy 3000/LCX Fiberglass Piping Systems

FUEL HANDLING

General

The Split Sump Entry Fitting is a pass-thru pipe penetration fitting designed to be used with ¾" and 1" rigid conduit as well as 2" - 4" Red Thread IIA and Dualoy fiberglass pipe. These fittings are comprised of two halves which are bonded together with PSX-34 adhesive. A single hose clamp is tightened around the neck of the fitting to secure it firmly to the pipe and prevent movement during the adhesive curing process. These fittings are highly engineered and produced with the same compression-molded fiberglass technology as our other UL971-listed fittings. This fitting design is an easy-to-install and economical option for both new construction and retrofits. For new construction, the fittings should be installed on the outside of the sump after the primary fittings have been bonded, cured, and tested. For retrofit applications they should be installed on the inside of the sump. No excavation is needed for retrofit applications. It is important to note that on double wall sump applications, a Split Sump Entry Fitting will need to be installed on the inside and outside of the sump. The slim profile allows for easy installation in tight spaces.

NOTE: This method of sump entry fitting installation allows for bonding to a flat or curved fiberglass surface. DO NOT install on thermoplastic sumps. For a curved surface, the sump must be at least 42" in diameter. Do not drill through or run screws through the sump entry fitting.

Instructions

Please read these instructions thoroughly before beginning your installation. Call your local NOV Fiber Glass Systems Representative if you have any questions.

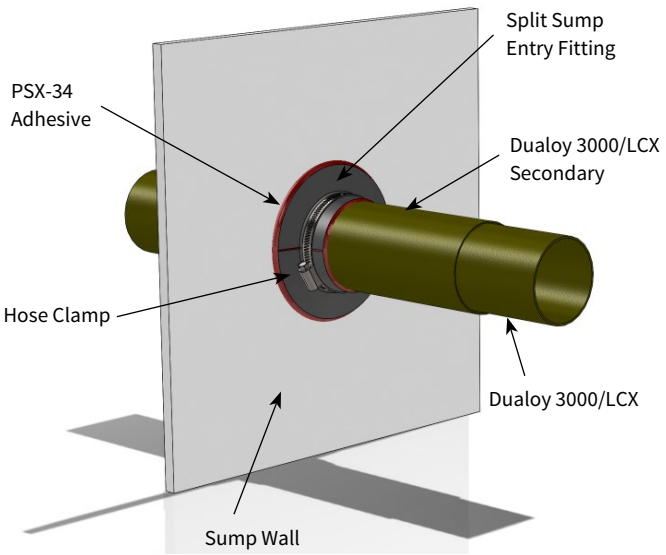
1. For new installs, determine the entry hole location and use a hole saw to cut an entry hole in the sump wall according to the dimensions in Table 1. For retrofit installations, remove the old fitting from the inside wall of the sump. Be careful not to damage the primary or secondary pipe.

Table 1

Split Sump Entry Fitting Size	Hole Diameter	Adhesive Kits/ Split Sump Entry Fitting	
in	in	5 oz.	8 oz.
¾" Conduit 1" Conduit	1 ½"	1	½
2" Red Thread IIA 2" Dualoy 3000/L 2" Dualoy 3000/LCX	3"	1	½
3" Red Thread IIA 3" Dualoy 3000/L 3" Dualoy 3000/LCX	4"	-	1
4" Red Thread IIA 4" Dualoy 3000/L 4" Dualoy 3000/LCX	5"	-	1

2. Sand the sump wall in the area around the cut hole where the Split Sump Entry Fitting will bond to the sump. Use 36-60 grit sanding material or flexible power sander. See Figure 1.

3. Sand approximately 3" of the outer surface of the pipe or conduit where the Split Sump Entry Fitting will bond. Sand both halves of the Split Sump Entry Fitting on the flanged faces and the inner surfaces as in Figure 2. Remove the dust



Complete Split Sump Entry Fitting assembly example

4. Mix PSX-34 adhesive kit for each sump entry per adhesive kit instructions. PSX-34 is the only acceptable adhesive for this installation. PSX-34 adhesive maintains a sufficiently thick consistency even in hot weather. However, if a thicker consistency is desired, add one packet of milled glass fiber, available from NOV Fiber Glass Systems.

5. **Liberally** apply a layer of adhesive (approximately 1/8" thick) to the sanded area of the sump wall, inside the rim of the cut hole, and the OD of the pipe or conduit where the fitting will be installed. See Figure 3. Apply adhesive to the sanded surfaces of the Split Sump Entry Fitting and brush a layer of adhesive on the edges of the Split Sump Entry Fitting where the two halves meet.

Figure 1
Sump wall sanded surface

Figure 2
Split Sump Entry Fitting sanded surface

Figure 3
Apply adhesive to sanded areas of pipe or conduit

6. With the pipe or conduit in position and immobile, install both of the Split Sump Entry Fitting halves onto the pipe or conduit at the desired location. Push the Split Sump Entry Fitting halves firmly together and up against the sump wall until a continuous bead of adhesive appears. Place the hose clamp around the shoulder of the fitting and tighten firmly with a flathead screwdriver or nut-driver socket. This step is the same for both a new install as well as a retrofit application. A bead of adhesive should also be seen between the two halves and on the end of the fitting at the pipe or conduit. See Figure 4.

NOTE: A continuous adhesive bead is essential for the Split Sump Entry Fitting to have a properly bonded joint. If there is an area that does not have an adequate bead of adhesive around it, apply extra adhesive in this area. On curved sumps there will be a large gap between each side of the Split Sump Entry Fitting and the sump wall which must be filled with adhesive.

Figure 4
Split Sump Entry Fitting installation

7. Apply more adhesive if necessary to fill any voids on the front or back side of the fitting.
8. Wipe or brush away excess adhesive from around the fitting. The inside should look like Figure 5.

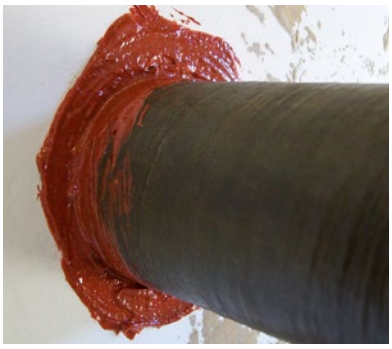


Figure 5
Brush away excess adhesive inside the sump

9. Refer to the adhesive kit instructions for ambient temperature cure times. The use of an industrial hot air gun will speed up the curing process. Do not overheat.
10. Refer to illustration on previous page for completed Split Entry Fitting assembly.

NOTE: Take precautionary measures to ensure the pipe doesn't move while the adhesive is curing.

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