

INSTALLATION INSTRUCTIONS

B407-TG SERIES

SINGLEWALL TONGUE AND GROOVE TANK

SUMP FOR TALL COLLARS



**Tank Sump
Body**



Tall Collar



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ii-B407-TG-10A

MANDATORY

The B-407-TG Series Singlewall Sump from S. Bravo Systems, Inc. MUST be installed by a **Bravo Certified Installer**. Get Certified at www.sbravo.com/cert

READ THESE INSTRUCTIONS - KEEP FOR FUTURE REFERENCE	
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- Closely adhere to all directions and warnings indicated on the product or contained in these instructions. This includes following the OTHER manufacturers recommendations and Installation guidelines including -but not limited to- equipment associated or in contact with, Bravo Systems Products.

- Warranty is void if there is any evidence of modification, abuse, negligence or improper installation.

- For assistance please call Bravo for technical support at (800) 28-BRAVO. Outside the U.S.A. please call (323) 888-4133.

SAFETY FIRST! S. Bravo Systems, Inc. urges you to carefully adhere to the normal safety procedures and precautions followed by your company. Please follow the mandates and compliances decreed by OSHA, local, State and federal regulations regarding the use of this product.

WARRANTY

All containment systems sold by S. Bravo Systems, Inc. are warranted to be free from defects in material and workmanship for a period of one year from date of purchase. This warranty will be limited to the repair and replacement of Bravo parts only and will exclude all claims for labor or consequential damage. No other express warranties given and no affirmation of S. Bravo Systems, Inc., or its agents and/or representatives, by words or action, will constitute a warranty. IT IS EXPRESSLY AGREED THAT THIS WARRANTY WILL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY.

This warranty is void if there is any evidence of modification, abuse, negligence, or improper installation. If any fittings or components, other than S. Bravo Systems approved fittings or components, are used in conjunction with any S. Bravo Systems product, the warranty pertaining to these products is immediately void.

INSTALLATION COMPONENTS

PROVIDED

1 SLURRY KIT (FRP-400-RB)

1 Gal slurry mix. 1 bottle catalyst. 1 mixing bucket.
2 pairs of gloves. 1 mixing stick. 1 sheet sandpaper.

NOT PROVIDED

REQUIRED TOOLS

Power/air Sanders and cutters. Acetone.
Hole saws. Drills. Manual caulk gun.

EQUIPMENT DRY-FIT

BEFORE INSTALLING PENETRATION FITTINGS



DO NOT PLACE FIBERGLASS SUMP ON THE BASE AND ATTEMPT TO SEAL THE CHANNEL. READ STEP-BY-STEP INSTRUCTIONS FIRST.

CAUTION

If using electric powered-tools move piping sump a safe distance from piping, tank and any other source of flammable liquids or vapors before trimming. Failure to do so may result in serious injury or death. When installing on existing tank(s), use a Vapor Detector around tank(s) before installation.

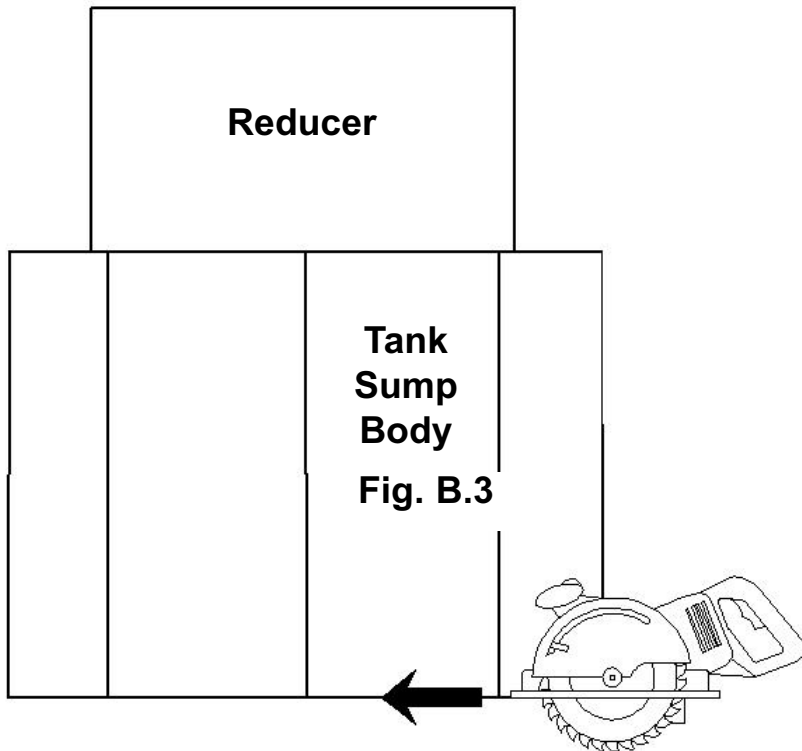
IMPORTANT

DO NOT CUT TALL TANK COLLAR TO ADJUST SUMP HEIGHT . ADJUST SUMP HEIGHT ONLY ON SUMP “TOP HAT” SECTION ONLY

B - PREPARING SUMP AND TALL COLLAR

THE FOLLOWING STEPS ARE TO BE USED AS A REFERENCE.

B.1 - Determine where your planned grade is. Following the illustration shown on **Page 7**, allow for 1" to 1-1/2" space between the top of your dry-fit sump cover and the lowest point of the installed manhole lid. After these measurements have been verified, cut the required material from the **BOTTOM** edge of the Tank Sump Body using a carbide tipped blade or masonry saw (**Fig. B.3**). Material must be cut square with a 1/4" +/- tolerance 360° around sump.



IMPORTANT

Double Check all calculations according to site plans and verify with team members or overseers.

B.2 - Abrade the fiberglass walls - **Inside and Outside** - with an air-driven sander (**Fig. B.4**) 3 inches up from the bottom edge on Tank Sump Body that will sit in the "Tall Collar U-Channel" until fiberglass surface can be seen clearly and all gloss or coatings are removed (**Fig. B.4**). Dust off with shop brush and keep clean.



Fig. B.3



Fig. B.4

C - PENETRATION FITTING INSTALL

C.1 - Install any penetration fittings and piping to the Tank Sump Base. If any penetration fittings must be installed to the top half, wait until the top is Sealed to the base before penetrating.

D - SEALING TANK SUMP TO BASE

⚠ CRITICAL SUMP MUST BE CLEAN & DRY **⚠ CRITICAL**

D.1 - Get your **Slurry Kit** and tools together. Ensure surfaces inside and outside of the Tall Collar u-channel and surrounding walls are clean of debris and **COMPLETELY DRY!** Also ensure that the bottom edge of the Tank Sump Body has been abraded 3" up inside and outside and that it is uncontaminated and dry.

⚠ WARNING    Wear protective goggles and a mask when mixing and applying resin or paste.

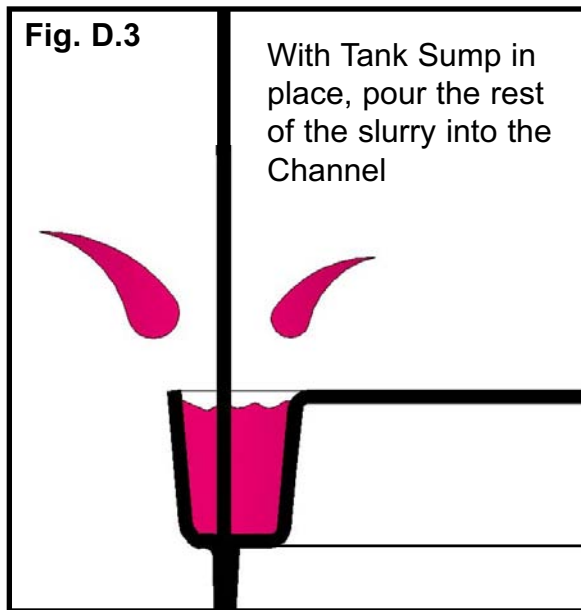
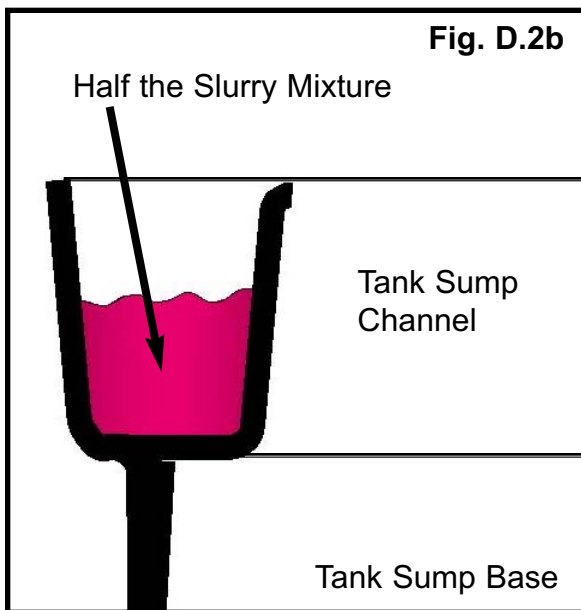
D.2 - NO NOT CATALYZE UNTIL SLURRY IS THOROUGHLY MIXED.

Pour your entire Gallon of slurry mix into your blue bucket and mix thoroughly for one minute. **THEN** add the catalyst and mix thoroughly again for one minute (**Fig. D.2a**). **Then pour half the mixture evenly into the channel of the retrofit base (Fig. D.2b).** Use your stir stick to spread it around until it is even and level.



D.3 - Slowly and evenly lower your Tank Sump into the channel (**Fig. D.3**). **DO NOT SPILL ANY SLURRY FROM MOVING THE SUMP OR DROPPING IT INTO THE CHANNEL.**

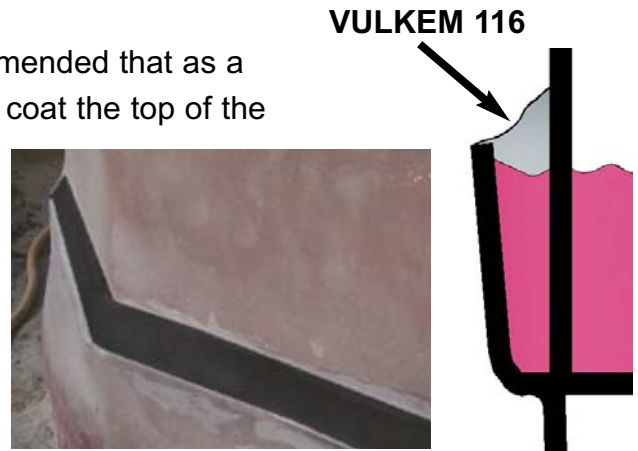
Add the rest of the slurry mixture evenly to the channel on the inside and outside.



D.4 - Install any additional penetration fittings and equipment in the Tank Sump. Install all necessary equipment per local code & regulations. You must **NOT** disturb the penetration fittings while the sealant/adhesive is drying. **Allow for the minimum cure time for the slurry, 4 Hours at or above 75°F.**

D.5 - TESTING YOUR SUMP - Conduct a water test only after all joints/penetration fittings are fully installed and all adhesives/epoxies/resins have fully cured. **WATER LEVEL MUST NOT EXCEED 2" ABOVE THE HIGHEST PENETRATION OR FIBER-GLASS JOINT.**

D.6 - OPTIONAL OVERSEAL - It is highly recommended that as a redundant seal for your Tank Sump Joint, you cover and coat the top of the slurry installation with Vulkem 116 polyurethane sealant on the outside only. If you choose to exercise this additional seal, you must thoroughly coat the top of the slurry within the channel so that the Vulkem smoothly seals to both the outside edge of the channel and the Tank Sump wall, just above the fully cured slurry. **You can NOT use any other sealant type.**
NOTE: Vulkem 116 Sealant must cure Overnight.



E - REPAIRING SUMPS

Look at edges and penetrations for pinhole leaks. **For large leaks, consult factory.**

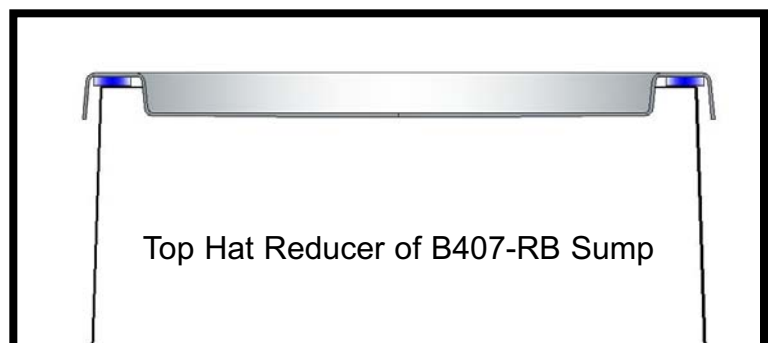
- A:** Locate leak point(s) and mark with marker so you can locate it / monitor it.
- B:** Repair or reinstall penetration fittings according to your penetration fitting manufacturers' Installation / Maintenance Instructions.
- C:** Abrade a 2" diameter area centered on the leak point until natural resin/fiberglass material can be seen. Then apply a 3-layer strip of 2" x 2" resin-saturated fiberglass mat squarely on the abraded area. Let cure.
- E:** After cure, knock down fiberglass hairs with a light sand, and apply another flow coat of resin only. Apply any extra resin to repaired leak point(s) while still wet.

ALLOW ANY REPAIRS TO FULLY CURE BEFORE TESTING SUMP AGAIN

F - Sump Covers

F.1 - Install Sump Covers and/or any components required to secure or fasten them to the Tank Sump reducer.

"Trash Can" style cover for the B407 (Model # C32) seats on reducer without preparation, modification or tools



G - Final install and backfill guidelines.

G.1 - To ensure that no immediate or future damage is done to your Bravo B-407 Sump components, make sure that 3/4" plywood or equivalent is placed **Around/Over** the top hat of the piping sump 3" above the highest point of the piping sump top hat with a 3" Tall Foam Spacer below it. A three inch dead-air space must be present between the piping sump top and the barrier. As brought out in **Step A.2**, a **1" to 1-1/2" space must be present between the sump cover and the underside of the installed manhole cover (Fig. G.1).**

Follow the manhole manufacturers installation instructions for further details on the installation of the manhole. Also follow other details provided by tank and/or engineering firm for tank driveway pad installation.

Prior to concrete pour, if local regulations mandate the need to back fill the dead air space then do so.

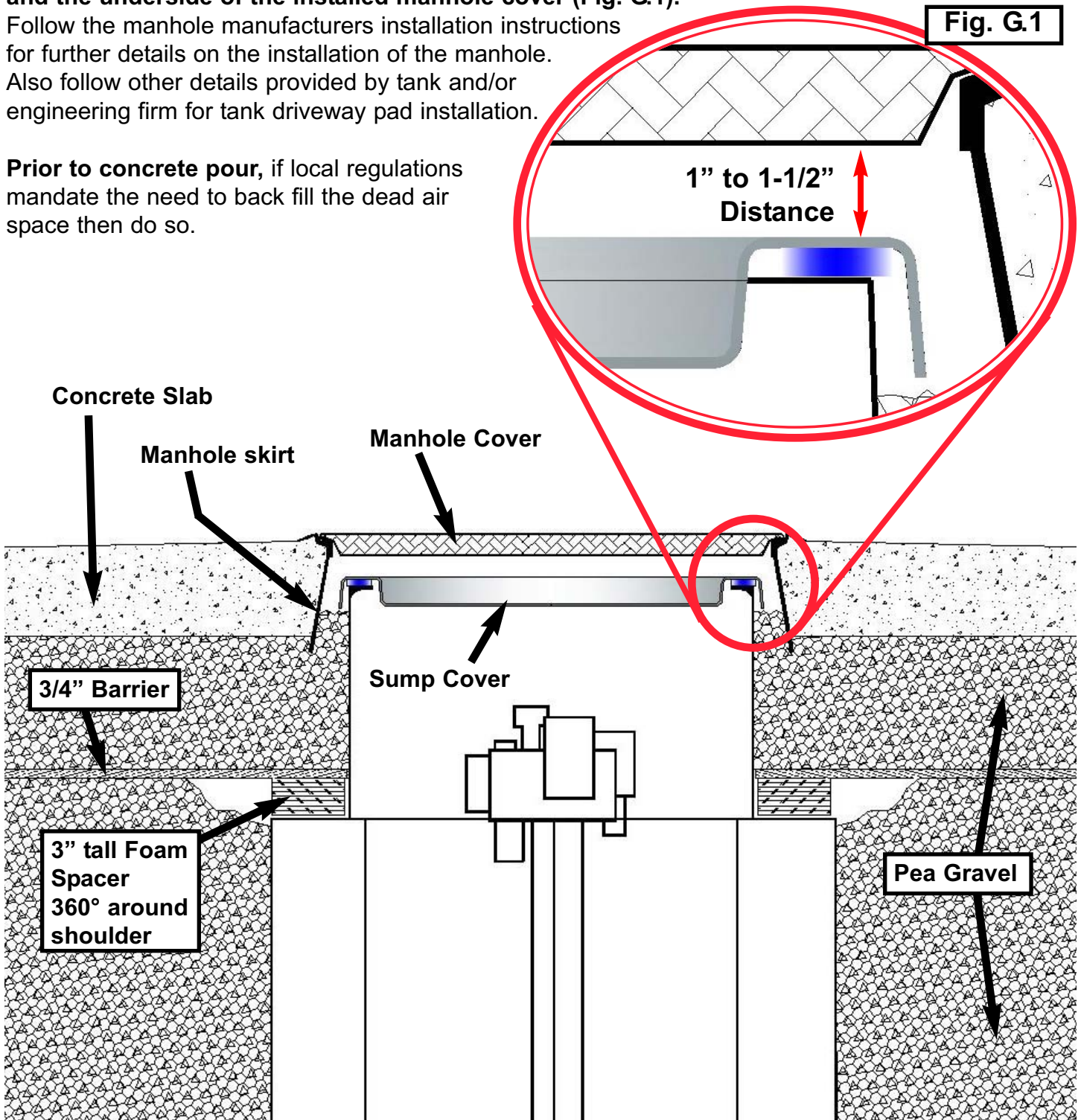


Fig. G.1