

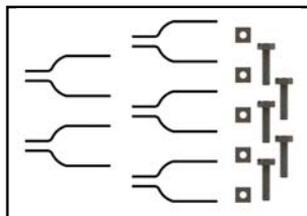
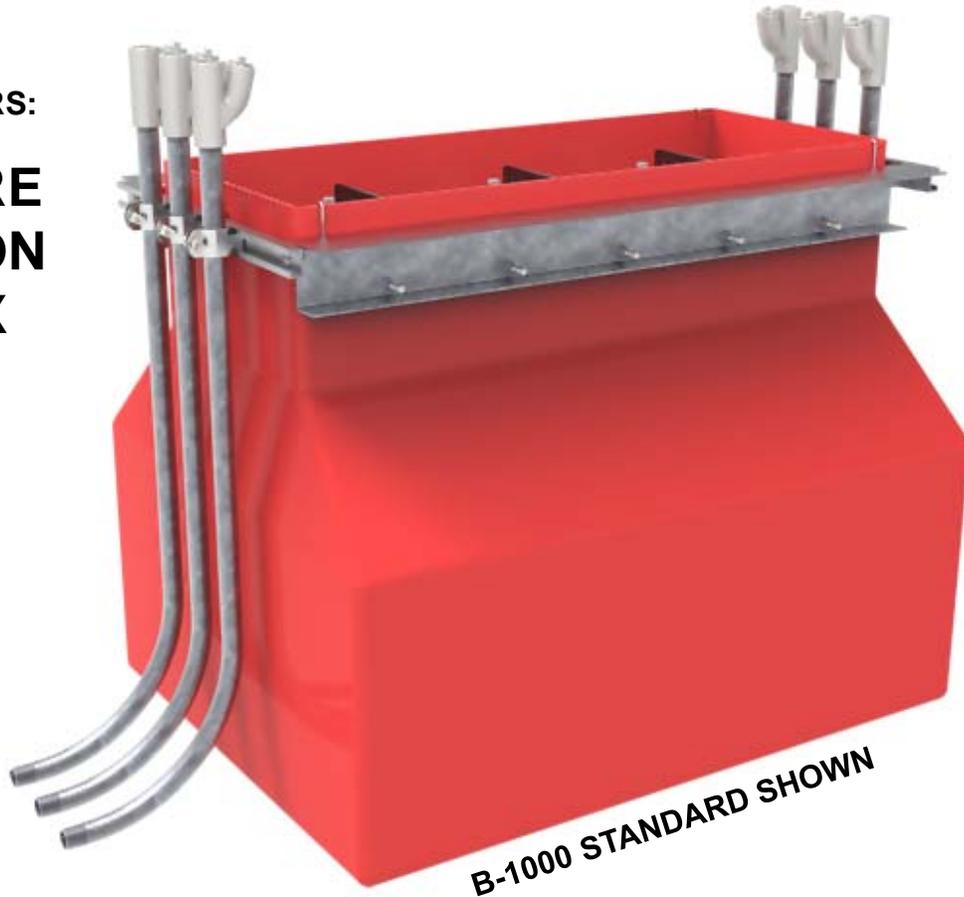
INSTALLATION INSTRUCTIONS

B-1000 / B-1000-E SERIES

SINGLEWALL FIBERGLASS CONTAINMENT SUMP

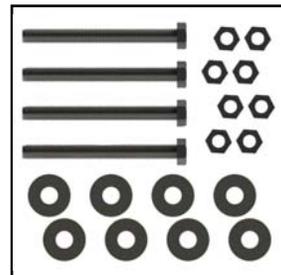
FOR
DISPENSERS:

ENCORE
OVATION
HELIX



INCLUDED

5X STRUT-STYLE CLAMPS
FOR ELECTRICAL OFFSET
AREAS



INCLUDED

4X 1/2"Ø CONCRETE
ANCHORING BOLTS FOR
DISPENSER + FASTENERS

ii-B1000-13B

MANDATORY

The B-1000 Series SingleWall UDC from S. Bravo Systems, Inc. MUST be installed by a **Bravo Certified Installer**. Get Certified at www.sbravo.com/cert

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NOTICE

By installing this product, you agree to the warranty terms found at : www.sbravo.com/warranty

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.

LIMITED 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.

CORROSION WARRANTY

Model	Term	Limitations
B-1000-XX	30 years	None. Can be exposed / submerged in fuel indefinitely.
B-1000-E-XX	3 years	Fuel must be removed within 30 days of exposure.

A) LEVELING AND CUT-DOWN

A.1) Determine where the concrete grade will be and any island elevations. Run & secure a grade line or other means of elevation measurement and reference.

NOTICE DO NOT PLACE SUMPS ON ANY RIGID SURFACE DURING LEVELING, INSTALLATION OR CONCRETE POURING.

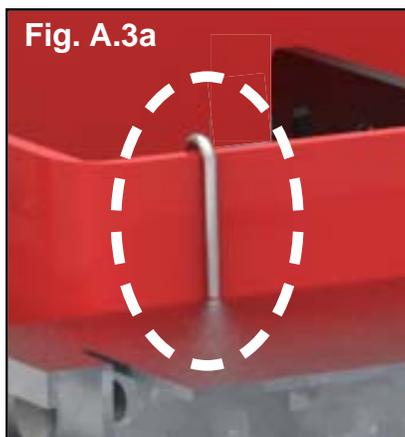
IF **NOT** CUTTING DOWN HEIGHT IN THE FIELD: SKIP TO STEP A.4

IF YOU WILL NEED TO CUT DOWN SUMP HEIGHT: PROCEED TO STEP A.2

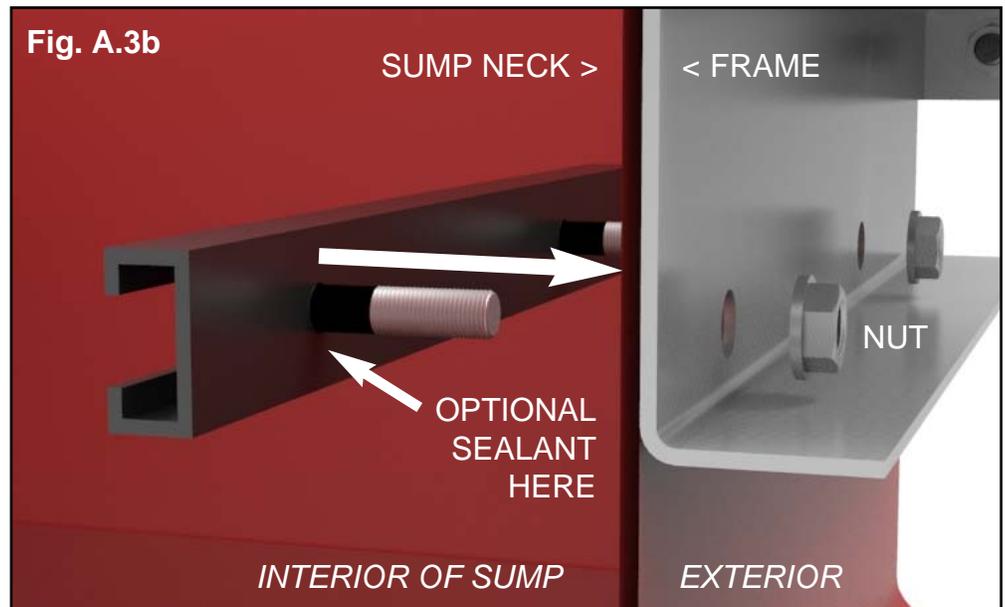
A.2) You may need to adjust the sump's overall height before hanging and/or securing it for entry fitting installation and piping. The B-1000 series features graduation marks on both ends and a label indicating inches of height. Use this guide to help quickly determine how tall each sump needs to be. Similarly to a polyethylene UDC, you must cut-down the neck to change the height of the sump. The Anchor Frame hangs on hooks from the top edge of the UDC. **BE CAREFUL** not to cut the neck down so much that the frame can not hang from the top cut edge. When you have determined how much you need to cut from each sump, if at all, proceed to cut them square across the top.

A.3) SKIP THIS STEP IF YOU DID NOT CUT THE SUMP'S HEIGHT. If the sump was cut down, you need to remove the C-Channel and anchoring bars on the sides of the UDC. You can not leave the bracketing in place where it was originally installed. After the top edge is cut square, simply set the steel frame over the neck, level it and make sure all the hanging hooks are in contact (Fig. A.3a). Using the holes in this frame as a template, drill new holes through the neck of the sump on both sides. When all holes have been drilled, install each C-channel bar through the inside holes and fasten on the outside (Fig. A.3b).

OPTIONAL: Sealing the Anchor Bars. You can seal the bars and bolts to the sump wall with a sealant (Fig. A.3b). Tremco brand Vulkem 116 (polyurethane sealant) is factory recommended.



HANGING HOOKS



A.4) IF ISLANDS WILL BE FORMED: use angle stock or other material to hang the UDC from the metal framing on the long sides. The top of the metal frame should be set 1/4" above the concrete floor of the island and sloped away when concrete is poured. Secure the UDC at the right elevation and orientation so it does not move during installation.

A.5) IF NO ISLANDS WILL BE FORMED: the top of the UDC's metal frame should be 1" above the concrete traffic pad (grade) and sloped away an appropriate distance when concrete is poured. Secure the UDC at the right elevation and orientation so it does not move during installation.

A.6) Shovel a wide bed of pea-gravel under each UDC to support its weight and help prevent movement / shifting during installation of piping and other components.

B) PIPING AND ENTRY FITTINGS

B.1) Determine piping centerlines and mark sump walls for entry fitting locations. Plan your fitting locations so that the O.D. (outer diameters) of all fittings are 1" away from any edges or corners.

B.2) Install all product entry fittings together with your piping. If using bonded (glued) fiberglass entry fittings, **DO NOT SUBSTITUTE RECOMMENDED ADHESIVES** and allow for the full cure time for all entry fittings. If installing during winter, follow the Winter Warning guidelines included in the fitting installation manuals.

B.3) Install all brackets, shear valves, flex connectors and any other piping components.

C) TESTING FITTING INTEGRITY

C.1) This will be a water (lake) test. **Sump must be supported from the bottom by pea-gravel.**



IT IS CRITICAL THAT YOU ALLOWED ALL FRP FITTINGS TO PROPERLY AND FULLY CURE AT THE RECOMMENDED TEMPERATURE BEFORE TESTING.

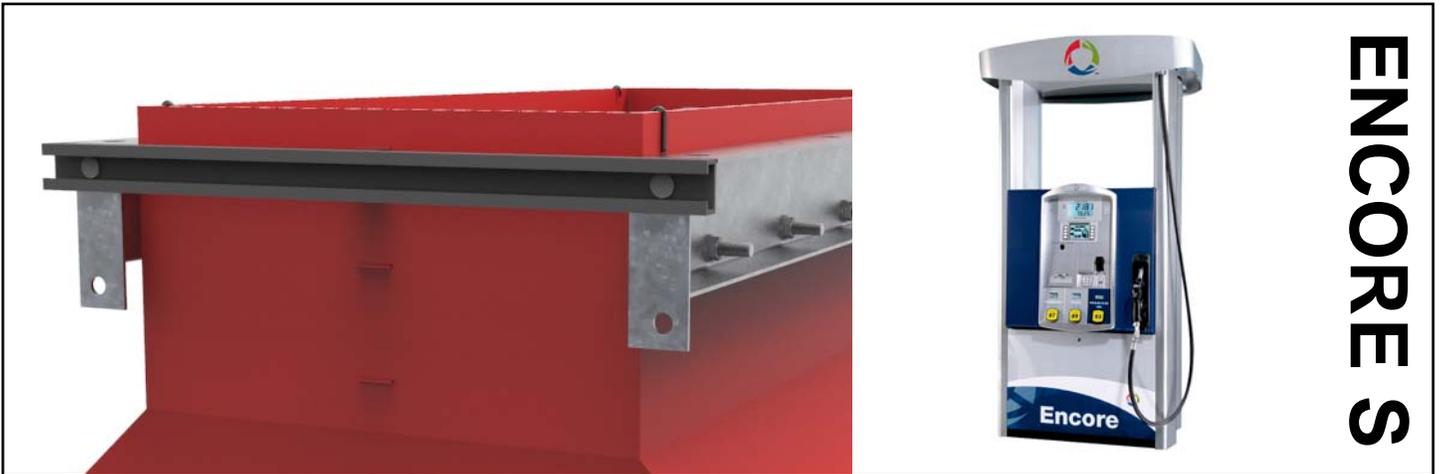
C.2) Ensure that substantial pea gravel or available site backfill material is under each UDC and helping to support its weight. Fill the sump with water and monitor for one hour. Inspect all penetration fittings thoroughly both inside and outside each sump. **Follow all local regulations.**

IF THE SUMP IS DAMAGED DURING INSTALLATION, CONTACT THE FACTORY FOR REPAIR INSTRUCTIONS AND MATERIALS.

D) ELECTRICAL CONDUIT LINES

D.1) The B-1000 series features an electrical offset design, allowing you to run conduit up alongside the sump and into the side panels of the dispenser. The positions and quantity will differ based on the dispenser being used. Bravo provides five (5) strut-style clamps and fasteners. More must be ordered through a Bravo equipment distributor.

D.2) Note the default elevation of the conduit-less C-Channel for each dispenser below.



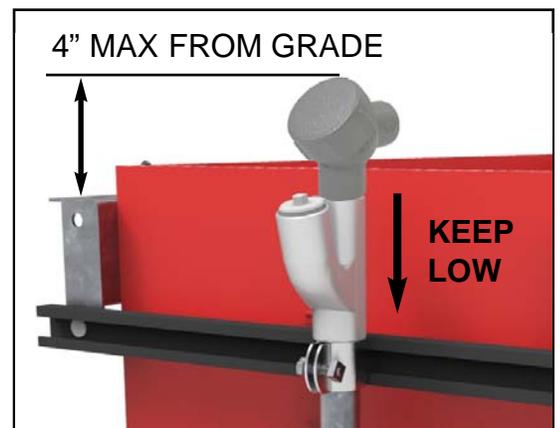
D.3) Install conduits to the C-Channel bars on the exterior of the UDC using provided strut-style clamps.

D.4) For Wayne-Vac equipped dispensers, install 3/4" electrical seal-offs and capped elbow fittings so that they are no more than 4" (four inches) above the finish floor.

If using 1" conduit and fittings, **Appleton** brand components or equivalent in total height are highly recommended.

1" Sealoff - Part number **EYS-36**

1" Capped elbow - Part number **ELBY-100**



E) BACKFILL & CONCRETING

E.1) Ensure all sumps have been water tested, and that the integrity of all entry fittings have been verified. Backfill around all UDC's with available backfill material. Pea-gravel is recommended. Also ensure that the access ports of any electrical conduit fittings will not be covered by concrete.

E.2) Pour concrete and finish the top grade of traffic pad and islands (if applicable) per the slope away guidelines in Steps A.4 and A.5.

F) SHEAR VALVE ADJUSTMENT

F.1 - Align dispenser riser pipe to the product shear valve and seal using a UL pipe / thread sealant. Nipples and unions are typically required. Also connect electrical and any vapor lines.

F.2 - Adjust fastener components of the bracketing system until all shear valves / lines are aligned and held securely in position.

- Closely adhere to all directions and warnings indicated on the product or contained in these instructions.

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

If you have any problems with Bravo Systems Containment Systems, components, or accessories, Call Bravo Systems Immediately:

1-800-28-BRAVO (1-323-888-4133) support@sbravo.com

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. The F-Series Rigid Fiberglass Penetration Fittings (F-Series-D) for DoubleWall Installations are only warranted when installed by a Bravo Certified DoubleWall Installer. 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.