

RF2 Well Seal

Installation and Operation Manual



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Section 1: System Description

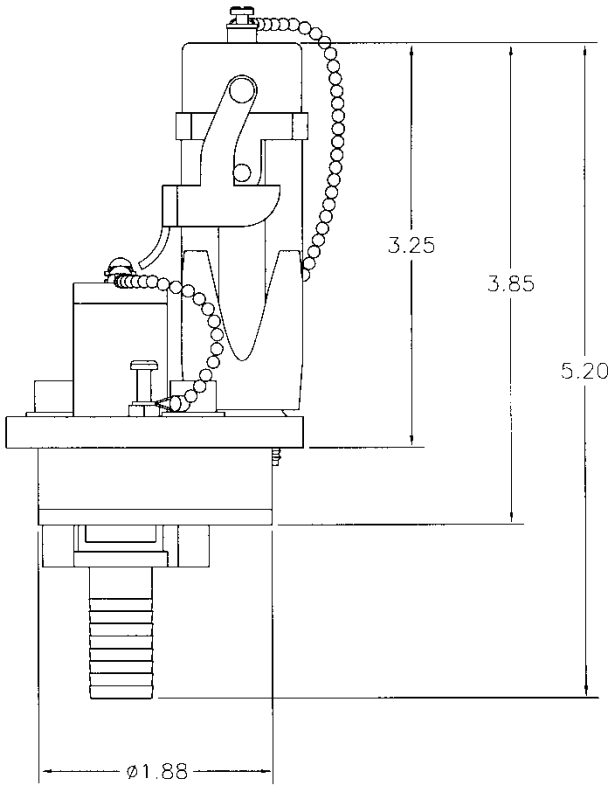
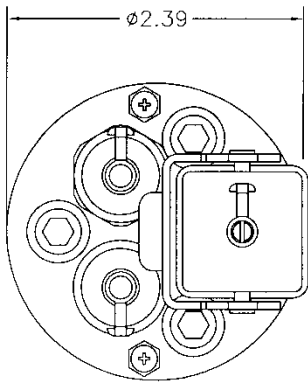
Special Features

1. NEMA – 6P rated weather resistant electrical connection with cap for connecting the extension cable to the RediFlo2 converter.
2. Discharge port for connection to the sampling tube assembly, and a stainless steel discharge fitting for 0.5" ID tubing.
3. Storage/access port for storing sampling tube assembly, using a water level indicator, or other down hole device with an OD less than 0.5".

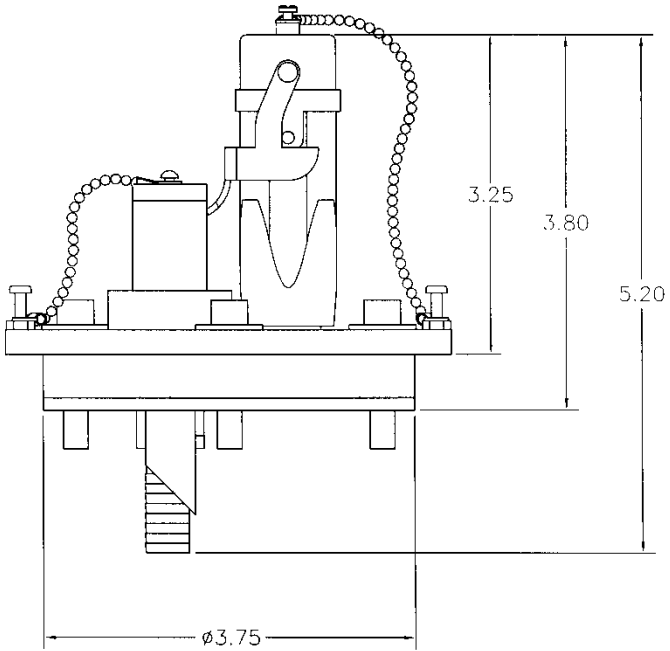
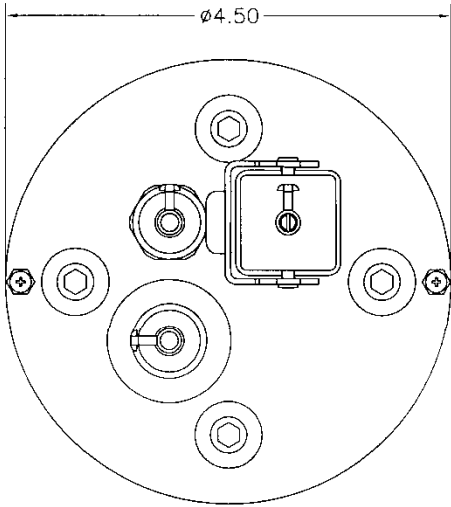
Section 2: System Installation

Installing the Well Seal

- 1) Determine the Depth at which you'll install the MP1
- 2) Connect the discharge hose to the MP1 – Refer to the Redi-Flo2 Installation and Operating instructions. Do not connect the motor lead to the converter.
- 3) Connect the discharge hose to the well seal – The RediFlo2 Well Seal can only be connected to a hose with a ½" internal diameter. To do so:
 - a. Make an even cut through the hose at the desired length.
 - b. Slide the clamp over the end of the hose.
 - c. Push the end of the hose over the hose nipple.
 - d. Secure the hose with the clamp.
- 4) Connect the Motor Lead to the Well Seal – Motor leads are shipped with one end connected to the MP1 pump and the other to a converter plug. When using a well seal, **this plug must be removed and discarded**. Use pliers to unscrew the retaining ring. Use a small screwdriver (3mm blade or smaller) to remove the screw holding the terminal block on the side of the housing and then loosen each wire from the electrical terminal block. With the motor lead free from the converter plug, cut across the leads diagonally to make it easier to push it through the well seal gasket. Make sure to leave enough slack in the motor lead (2-3% of tubing length). As the pump assembly is lowered into the well, the hose is sure to stretch. Unless slack is put into the motor lead the entire weight of the pump will be borne by the lead, causing possible wire breakage or a bad connection. Push the lead through the well seal gasket. Strip ¼" from the end of each wire and insert each back into its proper terminal slot at the back of the terminal block (yellow/green is ground; wire next to it is #3, then #2, then #1). Tighten the screw down over each terminal to secure the wire. Test each connection by pulling on it gently. Insert the block into the well seal's electrical housing, lining up the screw hole in the housing with the one in the terminal block. Secure them together with the screw you removed earlier (this also grounds the pump). You may wish to connect the discharge hose and lead together (i.e. with a wire tie) just below the well seal to keep them together.
- 5) Install the sampling tube assembly – A sampling tube assembly (provided separately) should be installed by removing the plug in the access port and inserting the sampling tube assembly through the port. Seal the top of the sampling tube assembly with the plug.
- 6) Lower the pump into the well – Position the pump over the well opening and lower it slowly into the well. Be careful not to scrape the motor lead or discharge tube on the edge of the well casing.
- 7) Secure the seal to the well casing – Insert the well seal into the end of the well casing until seated. Tightening the Allen screws on top of the seal forces the seal's rubber gasket to expand against the inside edges of the casing, thereby sealing it. Cover the electrical connection with the hood provided.



2" Seal



4" Seal

Section 3: System Operation

Preparing to Take a Sample

- 1) Loosen/remove the access port plug – this port **MUST NOT** be left open while the sample is being collected.
- 2) Attach the sampling tube assembly – Remove the tube assembly from the access port and attach it finger tight to the discharge port fitting.
- 3) Make the electrical connection – Remove the hood from the electrical connection and attach it to the extension cable from the well seal to the converter.

Important Do's and Don'ts

A Checklist to prevent the most common problems:

- Do** lower the pumping system slowly down the well
- Do** tighten all allen bolts before operating the system
- Do** remove sample fitting from storage port and install on purge port before operating
- Don't** leave the plug on the access port during operation
- Don't** over-tighten the sampling tube assembly when installing in an access hole for storage. It is only necessary to tighten it until the o-ring is seated on the seal.
- Don't** allow water to build up inside the well seal connector. If water build-up does occur, dry COMPLETELY before operation.

Notes

DOCUMENT REVISIONS

EDCF#	DESCRIPTION	REV/DATE
-	Initial Release	Rev 1. 09/23/04
1564	Changed title from "Well Seal" to "RF2 Well Seal" Added Revision History Table - SP	04/24/13

The Warranty

For a period of one (1) year from date of first sale, product is warranted to be free from defects in materials and workmanship. Geotech agrees to repair or replace, at Geotech's option, the portion proving defective, or at our option to refund the purchase price thereof. Geotech will have no warranty obligation if the product is subjected to abnormal operating conditions, accident, abuse, misuse, unauthorized modification, alteration, repair, or replacement of wear parts. User assumes all other risk, if any, including the risk of injury, loss, or damage, direct or consequential, arising out of the use, misuse, or inability to use this product. User agrees to use, maintain and install product in accordance with recommendations and instructions. User is responsible for transportation charges connected to the repair or replacement of product under this warranty.

Equipment Return Policy

A Return Material Authorization number (RMA #) is required prior to return of any equipment to our facilities, please call our 800 number for appropriate location. An RMA # will be issued upon receipt of your request to return equipment, which should include reasons for the return. Your return shipment to us must have this RMA # clearly marked on the outside of the package. Proof of date of purchase is required for processing of all warranty requests.

This policy applies to both equipment sales and repair orders.

FOR A RETURN MATERIAL AUTHORIZATION, PLEASE CALL OUR
SERVICE DEPARTMENT AT 1-800-833-7958.

Model Number: _____

Serial Number: _____

Date of Purchase: _____

Equipment Decontamination

Prior to return, all equipment must be thoroughly cleaned and decontaminated. Please make note on RMA form, the use of equipment, contaminants equipment was exposed to, and decontamination solutions/methods used. Geotech reserves the right to refuse any equipment not properly decontaminated. Geotech may also choose to decontaminate the equipment for a fee, which will be applied to the repair order invoice.

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