

HydrX™ Fuel Conditioning System

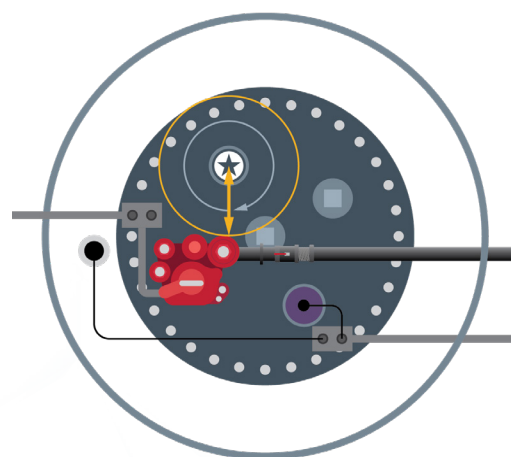
Site Preparation Guide

This guide outlines the optimal sequence of steps required to prepare a site for the installation of a HydrX Fuel Conditioning System.

► PREPARATION REQUIREMENTS

1 Identify the HydrX location within the sump and ensure that space is maintained throughout construction:

- Set the Submersible Turbine Pump (i.e., clock, position) to maximize space inside the sump.
- Route product lines and conduit after the HydrX location is determined and that space is maintained (preferred).
- HydrX requires access to 1 spare 4" bung ⚙. Ensure access to the spare bung is maintained throughout construction.
 - Refer to sump requirements and recommendations within the [HydrX Fuel Conditioning System Submittal Form \(577014-471\)](#).



2 Pull required HydrX wiring to the sump:

- Ensure the junction box is installed in the sump for high voltage wiring.
- Pull AC Power Connections through high voltage conduit in accordance with HydrX system wiring defined in the [HydrX Fuel Conditioning System Installation Manual \(577014-446\)](#).
- Pull low voltage wiring in accordance with HydrX system wiring defined in 577014-446.
- A 1" diameter high voltage conduit is recommended. Not required but consider adding a second high voltage conduit for HydrX when a FE Petro® Variable Frequency Controller is used to avoid any potential signal noise.
- Ensure junction boxes for high voltage and low voltage conduit do not interfere with the HydrX location within the sump.

3 Install indoor wiring in accordance with 577014-446:

- Note:** There are specific instructions for installation with Red Jacket® ISOTROL™ Control Boxes, FE Petro Controllers, and Pre-Wired Control Panels.
- If the HydrX system is not on site, the wiring should be capped off inside a junction box or electrical trough.

4 Water Intake Device (WID) inspection:

- The WID is a custom component that is sized to reach the lowest point in the tank.
- Complete the site inspection in accordance with the [HydrX Fuel Conditioning System Site Inspection Guide \(576047-355\)](#) after the concrete has been poured and set on the tank pad.
 - Water or fuel inside the tank is required to complete the inspection to obtain accurate tank tilt measurements.

5 Ordering the WID:

- a. Enter your measurements on veeder.com/us/hydrx-system-configurator to determine the HydrX part numbers needed for your site. Then, submit your completed Site Inspection Guide with your order to Customer Service at customerservice@veeder.com.

6 Install the HydrX Fuel Conditioning System in accordance with in the [HydrX Fuel Conditioning System Installation Manual \(577014-446\)](#):

- a. The system may be installed prior to receipt of the WID; however, the system will not be pressure-tight until the WID is inserted and connected with the installation kit. See the [HydrX Fuel Conditioning System Installation Manual \(577014-446\)](#) for additional recommendations on how to make the system pressure-tight, if tank tightness testing needs to be performed prior to receipt of the WID.
- b. Ensure TLS-450PLUS and TLS4 ATG software is at version 10.F or higher to support all HydrX functionality.
- c. **Note:** A HydrX Software Feature Enhancement, part number 0332972-032, is required.

