

Waterra

Honda WX10 Suction Pump

Connection and use with Waterra Inertial Pumps

Please read the operating manual for the Honda WX10 suction pump and operating instructions for Waterra inertial pumps if you are unfamiliar with either system.

Connection

Standard Inertial System

(Flow rate up to 15 l/min)

Waterra Tubing Adaptor Kit (SP1/STDKit)

The Waterra tubing adaptor kit consists of:

- 1 x Waterra tubing adaptor (SP/01)
- 2 x 22-25mm jubilee clips (SP/06)
- 2m of standard extension tubing (STX-1)

The tubing adaptor replaces the Honda supplied adaptor (Figure 1) and allows the Honda WX10 suction pump to be connected to standard Waterra inertial pump tubing (Figure 2a).

High-Flow Inertial System

(Flow rate up to 40 l/min)

Waterra High-Flow Suction Hose (SP/HF-1 or HFX-1)

Waterra High-Flow tubing can be attached to the Honda suction pump using High-Flow suction hose (SP1/HF-1) or High Flow Suction/Extension tubing (HFX-1).

Tubing clips (SP/03), supplied with the Honda suction pump, can be used to link the hose to either the Honda supplied tubing adaptor or the Waterra tubing adaptor (Figure 2b).

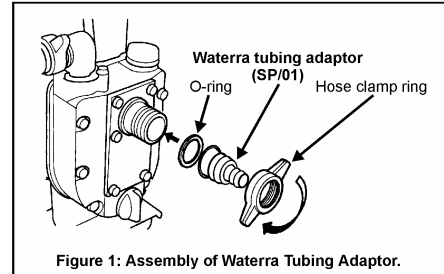


Figure 1: Assembly of Waterra Tubing Adaptor.

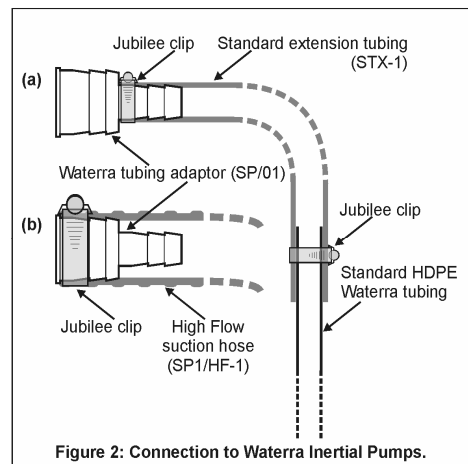


Figure 2: Connection to Waterra Inertial Pumps.

Discharge Hose (SP/HF-1)

To direct discharge water from the SP1 pump, use 25mm black discharge hose (SP/HF-1). Use SP/03 hose clips to attach (supplied with SP1 pump).

Priming and Borehole Purging

The Honda WX10 suction pump should never be operated dry.

After connecting the Waterra tubing in the borehole to the Honda WX10 suction pump, the suction pump is primed by manually operating the inertial pump. This draws water from the borehole and fills the sump casing of the suction pump. Once the sump casing overflows, the suction pump can then be started and the borehole purged. Refer to Section 5 of the Honda manual for starting instructions.

Note: If the water level drops below approximately 7.5m depth in the borehole the suction pump will not pump and should be immediately shut down. After allowing time for the water level in the borehole to recover, try repeating the priming process and pumping at a slower speed. If after several attempts the water level continues to fall rapidly during pumping, then simply use the inertial pump on its own to pump at a rate to match the yield of the borehole.

Sampling

To sample, disconnect the Waterra tubing from the extension tubing or suction hose. Manually operate the Waterra inertial pump to obtain a sample.

To maintain sample integrity and to prevent cross-contamination with suction hose and pump parts, samples should not be taken from the discharge of the suction pump.