



TYPHOON REMOTE MANIFOLD™

Step 1. Evaluate the condition of the equipment. Look for broken ball valves, sheared threads, kinked or cut tubing, damaged Quick Connect Fittings, etc. Fix, replace or calibrate any component found to be deficient, prior to use. All relevant instructions under Assembly, Field Ops, Service, Authorized Stacking Configurations and Authorized Waterway Configurations in the main User Guide apply.

Step 2. Beginning at a location adjacent to the Diffusers, unravel the Jacketed Tubing Assembly towards the desired destination where readings will be observed. Ensure that there are no twists, kinks or loops.

Step 3. After unraveling, return to the Diffuser(s) and securely attach the female Quick Connects on the ends of each tube to the male Quick Connect Plugs on each Street 90°, affixed to each Waterway that will be used during testing. Up to eight Waterways can be monitored with the Typhoon Remote Manifold™.

Riptide ALX and Riptide Pitotless ALX Addendum: In addition to the requirements noted above, throughout this User Guide and the main Riptide User Guide, the Typhoon Remote Manifold may be used with Waterways that have been removed from the Riptide Diffuser and installed directly on a source for flow to atmosphere.

Step 4. Return to the desired destination where readings will be observed and securely attach the female Quick Connects on the ends of each tube to the male Quick Connect Plugs on each ball valve across the top of the Manifold. Then securely attach the liquid filled, calibrated, 1% accuracy Riptide™ gauge to the side of the Manifold with the Quick Connect Plug.

Step 5. Close all ball valves on the Manifold to protect the gauge from initially acute pressures.

Step 6. Follow Steps 1-3, and 5-7 under General Use in the main Riptide User Guide.

Step 7. After water has been introduced and the source has been opened to a satisfactory point, slowly open the bleeder ball valve located on the side of the Manifold opposite from the gauge to purge trapped air until a steady stream of water presents. Then slowly close this ball valve.

Step 8. Independently capture Pitot readings from each Waterway by opening one ball valve at a time on the Typhoon Remote Manifold™. Observe and document the reading on the gauge while a given ball valve is fully open. Then close said ball valve and open another until all ball valves in service have been independently opened and closed with readings documented. Please note that any dissimilarity in elevation between the Manifold and the Waterway actively being monitored will affect readings due to head loss/gain at 0.433 PSI per foot. It is recommended that the Manifold be held at the same level as the Waterway being monitored to provide accurate readings.

Step 9. After flow rates have been achieved, very slowly begin to close the source being tested. It is vital that the source is closed in a predictable, controlled manner without haste or aggressive turns to avoid potential source damage.

Step 10. Detach and coil the Jacketed Tube Assembly. Dry off and store all components in a safe, secure place for future use.

Step 11. Return the work area to the state it was found in upon arrival. Do not leave tools or equipment behind.