



# Ball Valve Drain

## *Installation & Operation Manual*



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**Model BVD-2BXX**  
**Electronic Timer Condensate Drain**

# INSTALLATION INSTRUCTIONS FOR SURE DRAIN AUTOMATIC BALL VALVE DRAIN

## INTRODUCTION

The Automatic Ball Valve Drain is designed for trouble-free draining of unwanted accumulations of condensate and other foreign matter from any collection point in a compressed air system.

## INSTALLATION

1). **CAUTION: COMPRESSED AIR CAN BE DANGEROUS.** Before attempting to install the drain, be sure the pressure vessel on which the drain will be installed is completely depressurized.

2). The drain should not be installed in areas that are exposed to freezing temperatures. Be certain that the air system pressure does not exceed the working pressure on the drain (600 PSI on Bronze, 2,000 PSI on 1/4 and 1/2" Stainless Steel).

Connecting the drain to your air system should be done by using the recommended installation diagram shown herein. The drain can be installed in any position (vertical, horizontal, etc.). The installation of a strainer is not required or recommended.

3). Install the drain as close to the source to be drained as possible. Condensate flow can be in either direction of the valve. If flexible tubing is used on the drain discharge, be sure it is properly fastened to prevent it from whipping when the drain discharges.

4). Check voltage on label and apply power to drain. Upon power application, the drain will go through a drain cycle. If cover from drain is removed, be certain to disconnect the drain from power source.

Close By-Pass drain valve and open Shut-Off valve before the Ball Valve Drain; then pressurize vessel.

5). Start by setting the drain to the full 50 minute cycle time. Prior to 50 minutes, return and time the ratio of condensate to air loss. Since the drain is fixed to a 5 second open time, an ideal ratio is 4 seconds of condensate to one second of air. If condensate is drained for the full five seconds without any air loss, then you must decrease the cycle time and repeat the above procedure. If the drain allows too much air to escape during the drain cycle, turn the Shut Off Valve to a half closed position and repeat the above procedure.

6). Testing the ABVD can be done by pushing the test button on the side of the drain or by removing and reapplying power to drain.

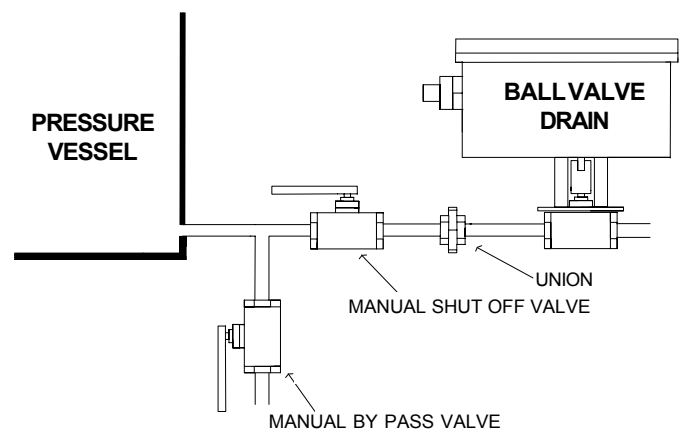
7). The drain should be checked periodically to insure proper setting has been achieved. In climates with large changes in humidity, the drain should be checked and reset accordingly.

## WARRANTY

The ABVD is warranted to be free from defects in workmanship and materials for a period of one year from the date of shipment (The wearing components of the ball valve are not covered by the warranty). The liability of manufacturer is limited to repair or replacement of the drain at its option. In no event shall the manufacturer be liable for special or consequential damages or for delay in performances of this warranty.

**CAUTION:** Any attempt to repair the drain without authorization will void warranty.

## DIAGRAM 1 - RECOMMENDED INSTALLATION



Manufactured by:

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