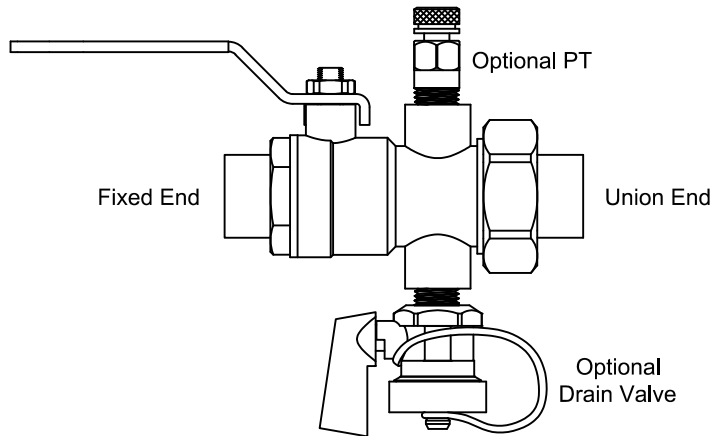




IBU Series Installation and Operations Manual Integral Ball Valve/Union



PRODUCT DESCRIPTION: The IBU is an integral ball valve/union that is rated at 600 WOG / CWP. The IBU uses a combination full-port ball valve and union which provides two (2) 1/4" taps for accessories to be installed. All taps are plugged unless otherwise specified. Fixed end connections may be SWT or NPTF. Union side connections available include NPTM, NPTF, and SWT, and a variety of reductions.

PRO Hydronic Specialties (*PROHS*) assumes no responsibility for injuries or damages that result from the nonobservance or noncompliance with installation and operational procedures. It is the responsibility of each link in the supply chain between the factory and the ultimate installation to assure each subsequent party has a copy of this document and understands the proper installation and cautions concerning this product. Upon receipt of shipment, the product should be thoroughly inspected for any damage. Once installed, the product should be checked under pressure for leaks and thereafter at least annually.

Limited Warranty: *PROHS*'s liability is limited to the repair or replacement of the defective component. By purchasing and/or installing *PROHS* products, it is understood the purchaser/installer contractually agrees with the warranty terms as stated here and elaborated in the full warranty statement found at www.prohydronicsspecialties.com. *PROHS* makes no general claim of usability of this product unless *PROHS* is directly advised of the specific use and installation of this product and responds in writing.

CAUTION

CAREFULLY FOLLOW THESE INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN SERIOUS PERSONAL INJURY AND/OR PROPERTY DAMAGE.

- DO NOT use pipe dope or sealant on union threads, o-rings, or in o-ring grooves. Doing so can result in leaks.
 - DO NOT use silver solder for sweat end models.
 - DO NOT use an excessive amount of flux or solder.
 - DO NOT over tighten the union nut. Tool marks on the union nut indicate over tightening.
 - DO NOT adjust factory installed and tested fittings.
 - DO NOT apply wrench to the valve body - only apply wrench to the retainer section. (See pg. 2 - Installation Procedures)
 - ALWAYS use a heat sink when soldering. Do not overheat product.
 - ALWAYS use properly engineered pipe supports and avoid placing excessive loads on the product.
 - ALWAYS perform no less than annual inspections on components. These products are dynamic in nature and due to varying system conditions there are no representations as to the duration of useful life for these products in excess of the warranty.
 - ALWAYS pressure test the components once installed to assure no leaks exist. If a leak or defect is found, immediately isolate from pressure and contact the factory for repair or replacement under warranty.
 - ALWAYS isolate the product from pressure when leaks or damage are detected to avoid property damage and contact the factory immediately to determine appropriate actions. The factory is not responsible for damages as the result of any repairs performed on the products while under pressure.
- Failure to follow these cautions, not following standard industry practices, and/or using non-trained/unqualified installers could result in catastrophic failure.

IBU Installation Procedures

General:

PRO Hydronic Specialties valves are non directional.

Threaded End Valves:

Inspect pipe threads on valve and piping to ensure they are clean and free of burs or other foreign material. The union nut should be hand tightened or snugged with a wrench to sufficiently seal. If a wrench is used to tighten the union nut, use a back-up wrench applied to the retainer section to prevent the valve from turning. If a drip occurs, check the o-ring and ensure the surface is clean.

APPLY WRENCH ONLY TO THE RETAINER SECTION OF THE VALVE (See below for illustration).

Sweat End Valves:

Clean the valve and tube ends with a wire brush before soldering. Wrap the valve with a heat sink. The ball valve must be either fully open or fully closed when soldering so as to not damage the Teflon seal. Direct the flame away from the center of the valve body and remove excess flux and solder.

Available Accessory Options:

