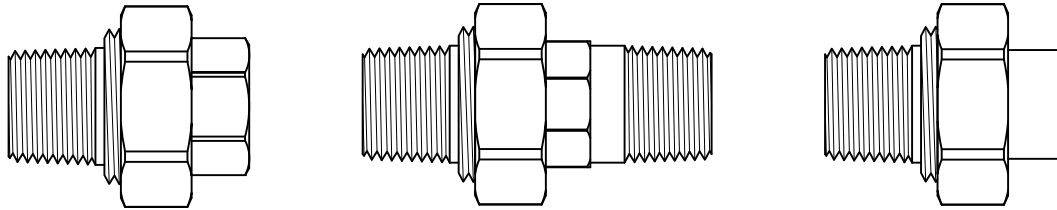




UA Series Installation and Operations Manual Brass Union Adapter



PRODUCT DESCRIPTION: The UA is a brass MNPT x union adapter that connects to FNPT ended products. The UA converts line connections types and offers line size reductions. The union tail pieces are available in FNPT, MNPT, and SWT ends. Refer to the product selection guide below for available reductions. The UA ships as a configured kit consisting of the UA body, o-ring, union nut, and tail piece.

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.

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.

Installation Procedures

Threaded End Valves:

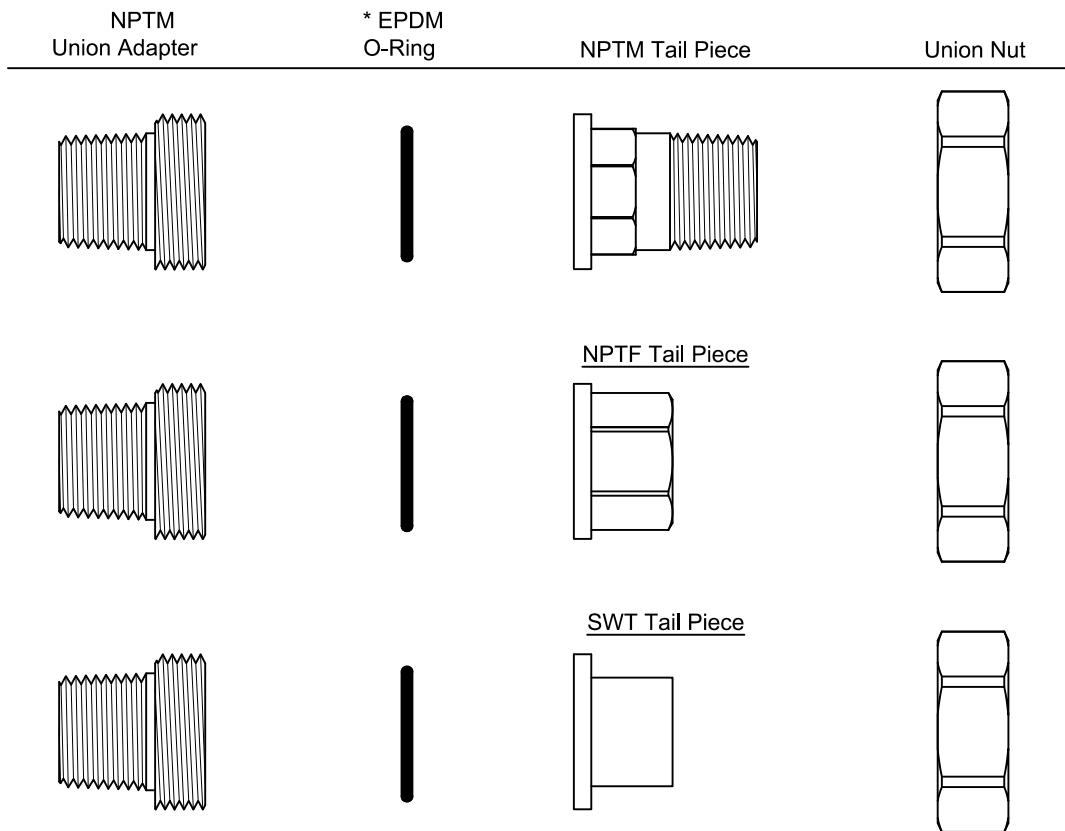
- Inspect pipe threads on valve and piping to ensure they are clean and free of burrs and/or other foreign material.
- The union nut should be hand tightened or snugged with a wrench to seal sufficiently.
- If a wrench is used to tighten the union nut, use a back-up wrench to prevent the valve from turning.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

Installation:

Make sure all mating surfaces are free and clear of debris, oil, water, and/or any foreign materials that may interfere or cause degradation in the thread locking sealant. (*NOTE: Failure to observe this step could result in leaks during operation.*) Use a high quality thread sealant/locker when connecting the union adapter to the desired device. *PROHS* recommends that Teflon tape or paste *NOT* be used on union adapter installations. *PROHS* recommends a high performance thread sealant/locker from such companies as LockTite or ND Industries. Refer to a sealant chart to select the product right for your application.

1. Attach the union nut to the union adapter *WITH* the tail piece but *WITHOUT* the o-ring and hand tighten.
2. Apply thread sealant/locker to NPTM threads of union adapter.
3. Hand tighten the union adapter into the desired device.
4. Use a suitable tool on the union nut to finish tightening the union adapter into the device.
5. Remove the union nut being careful not to back off or reverse the union adapter.
6. Insert the o-ring into the o-ring groove.
7. Make the final connections as required.

UA Configured Kits with Available End Connection Types
See UA Submittal for available sizes and reductions



* EPDM O-Rings:

O-rings may be used with hot or cold water. EPDM is resistant to glycol, alcohol, phosphates, esters, ketones, and detergents.

DO NOT USE WITH: petroleum products, hydrocarbon solvents, oils, chlorinated hydrocarbon or turpentine.