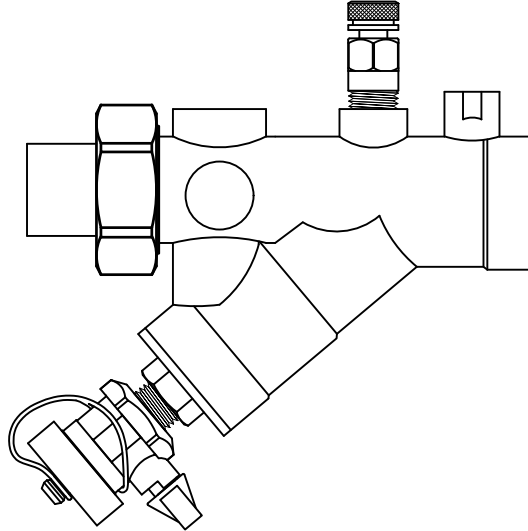




## FNPT X Union Wye Strainer - IYU Series Installation and Operations Manual



**PRODUCT DESCRIPTION:** The IYU is a FNPT x Union Wye Strainer. The IYU offers one predrilled  $\frac{1}{4}$ " tap and a  $\frac{1}{2}$ " tap for accessories to be installed. The  $\frac{1}{4}$ " and  $\frac{1}{2}$ " standard port and by-pass tap respectively, are provided at the forward 12:00 position. The bypass port remains open on 3-way control valve configurations to install a bypass valve. An additional side port is available for factory drilling and tapping a  $\frac{1}{4}$ " port. The strainer has a 20-mesh stainless steel screen to aid in debris removal. The strainer cap has a  $\frac{1}{4}$ " tap for hose-end drain valve. The fixed end connection is FNPT. The union side connections include MNPT, FNPT, SWT, and a variety of reductions.

Pro Hydronic Specialties assumes no responsibility for any injuries or damages that result from the nonobservance or noncompliance with installation and operational procedures. Upon receipt of shipment, the product should be thoroughly inspected for any damage that may have occurred during transport and unpacking, and/or for any foreign material that may have collected.

**Limited Warranty:** Pro Hydronic Specialties liability is limited to the repair or replacement of the defective component. By purchasing and/or installing Pro Hydronic Specialties products, it is understood the purchaser/installer contractually agrees with the warranty terms. See [www.prohydronicspecialties.com](http://www.prohydronicspecialties.com) for complete warranty information.

### **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.
- 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.
- DO NOT adjust PT ports which have been sealed with approved pipe sealant and torqued to specification.
- ALWAYS use a heat sink when soldering any valve.
- ALWAYS use properly engineered pipe supports and avoid placing excessive loads on the product.

## IYU Recommendations and Maintenance:

- The IYU should be installed on the SUPPLY side of the coil.
- Allow ample room for drain valve and mesh screen removal via removal of the strainer cap.
- Check the differential pressure reading across the IYU periodically to verify if the screen may be clogged with debris and is in need of cleaning.

### Option 1: Flushing out of Strainer Sleeve

- Leave system pressure on the IYU.
- Connect a water hose to the drain valve with the opposite end placed in a bucket or other object to catch water.
- Open the drain valve fully allowing for debris removal.
- Close and open several times to allow pressure changes to dislodge extra debris.
- Close drain valve.
- Remove hose.
- Replace drain valve cap.

### Option 2: Removing sleeve for cleaning

#### *Removal*

- Isolate the pressure to the IYU by closing the system isolation valves. The IYU includes such a valve.
- Relieve the pressure from the isolated section.
- Drain by placing a hose on the drain valve, then open the drain valve.
- Remove the cap from the strainer section of the IYU.
- Remove the sleeve.
- Clean the sleeve.

#### *Reinstallation*

- Inspect the o-ring seal on the cap for tears.
- Reinstall the strainer sleeve assuring damage is not done to the ends
- Install and snug the cap. Silicone lubricant is recommended on the cap o-ring. **DO NOT USE PIPE SEALANT ON THE CAP THREADS.**
- Close the drain valve, and replace the drain valve cap.
- Open the inlet isolation valve, then the outlet isolation valve slowly as to avoid any pulse or damage to the coil and/or control valve.

#### *Inspection*

- Inspect the IYU and other connections around the coil for leaks.

