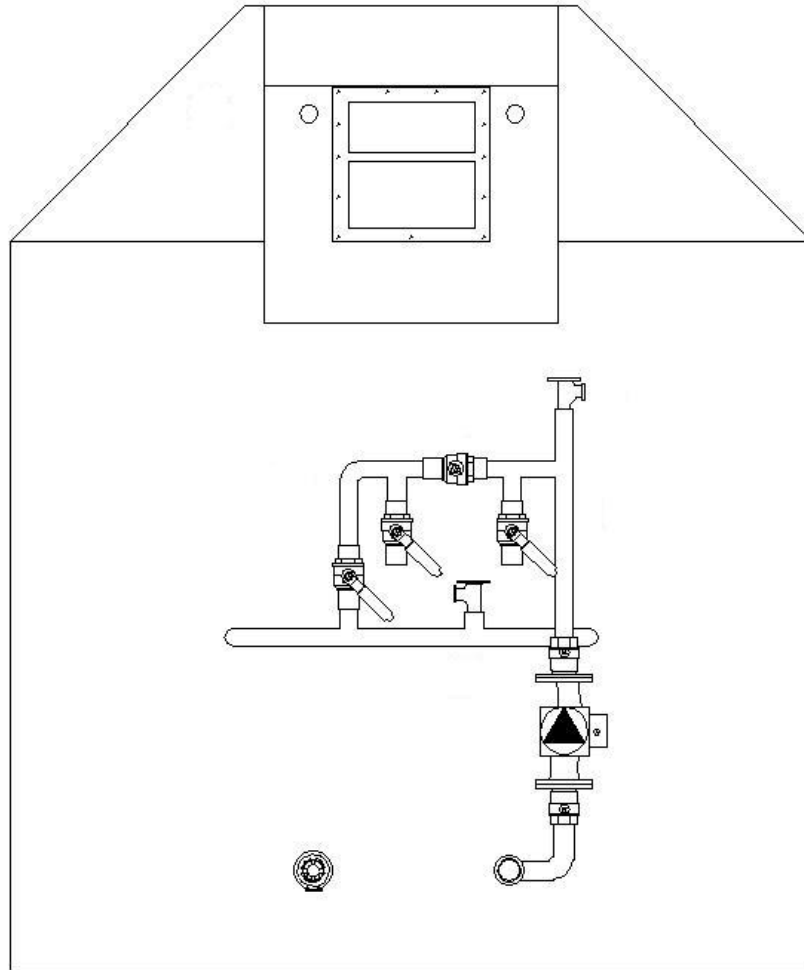


FINAL

# Ω MEGA CE



## Plumbing Supplement

VERIFY WITH INSURANCE COMPANY AND ALL LOCAL CODES AND ORDINANCES PRIOR TO INSTALLATION.

## **REQUIRED PARTS**

- Pump
- Pump Isolation Flanges
- Sensor Well, 3/4" M NPT
- (3) Ball Valves, 1" F NPT
- (4) Ball Valves, 1" Sweat
- (3) Boiler Drain Valves, 3/4" M NPT
- (2) Dielectric Unions, 1" F NPT x 1" F Sweat
- (1) Cast Union, 1" Sweat x 1" Sweat

### **BLACK PIPE**

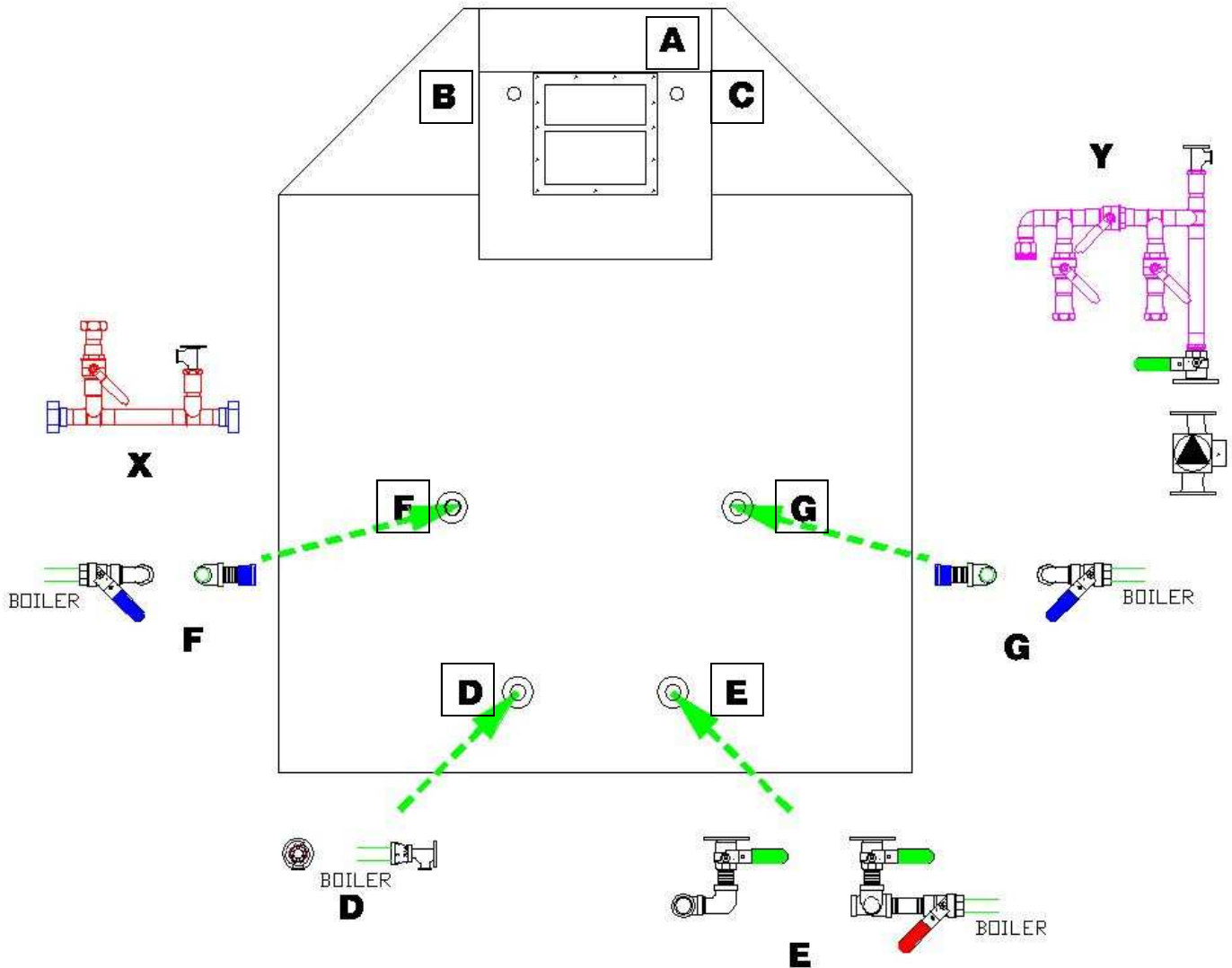
- (1) Reducing Bell, 1" F NPT x 3/4" F NPT
- (3) Street Elbows, 1" F NPT x 1" M NPT
- (1) Nipple, 1" M NPT x 4" long
- (1) TEE, 1" F NPT
- (3) Nipple, 1" M NPT x 2" long
- (1) Bushing, 1" M NPT x 3/4" F NPT

### **COPPER**

- (10 ft) 1" Type M Copper
- (5) TEE, 1"
- (2) Adapter, 3/4" F NPT x 1" Sweat
- (1) Elbow, 1"
- (1) Adapter, 1" M NPT x 1" Sweat
- (2) Adapter, 1" F NPT x 1" Sweat
  
- Pipe thread sealant
- Materials and equipment to sweat copper

## OVERVIEW

The various plumbing bungs and subassemblies are identified as follows:



BUNG	TYPE	USE
A	1/4" F NPT	Air Vent
B	3/4" M NPT	Pressure Relief Valve and Low Water Cut Off
C	3/4" F NPT	Temperature Relief Valve
D	1" M NPT	Boiler Drain
E	1" M NPT	Hot Water Supply Outlet
F	1" M NPT	Cold Water Return Inlet
G	1" M NPT	Cold Water Return Inlet

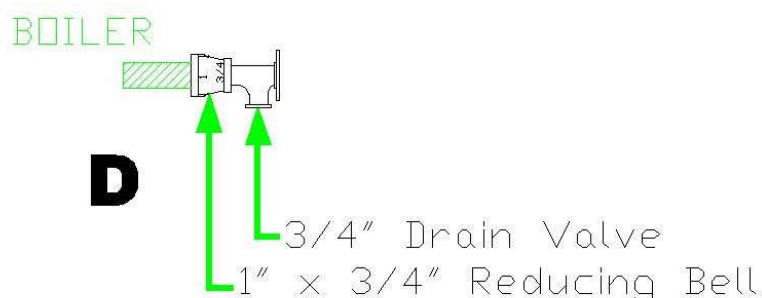
**NOTE:** Use pipe thread sealant on all threads to ensure leak tight connections.

## **BUNGS A, B, and C**

- Bungs A, B, and C come pre plumbed from the Factory.

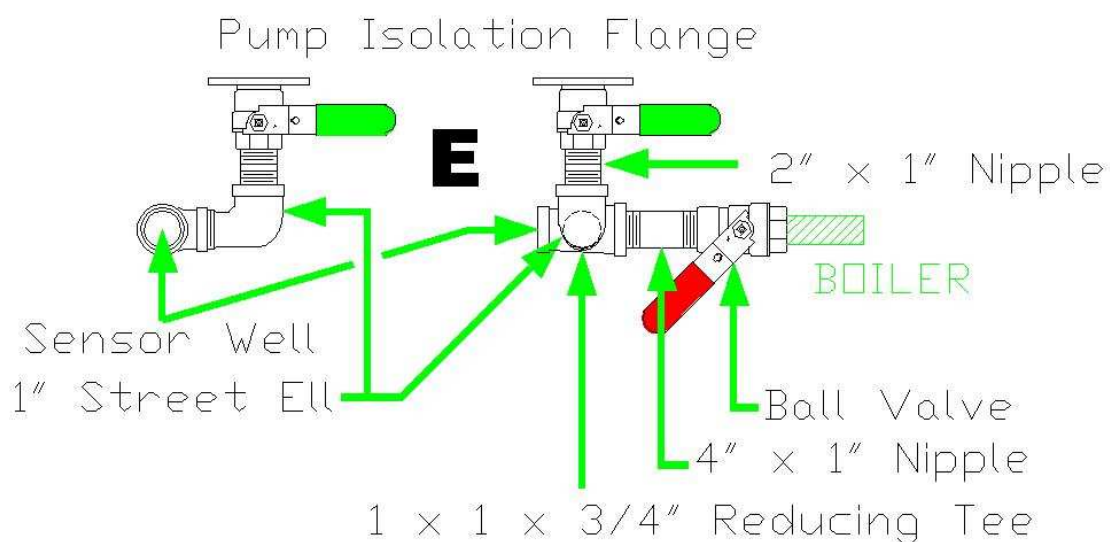
## **BUNG D**

- Thread a 1" x 3/4" Reducing Bell and a Drain Valve onto Bung D as shown.



## **BUNG E**

- Thread a Ball Valve onto Bung E. Align the handle so that it will move freely without hitting the boiler or any piping.
- Thread a 4" Nipple and a 1" TEE onto the Ball Valve.
- Thread a 1" Street Elbow out the side port of the TEE so that the Elbow is pointing "up".
- Thread a 2" Nipple and a Pump Isolation Flange to the Street Elbow.
- Thread the Sensor Well into the through port of the TEE. Ensure that the Well does not interfere with the Ball Valve.



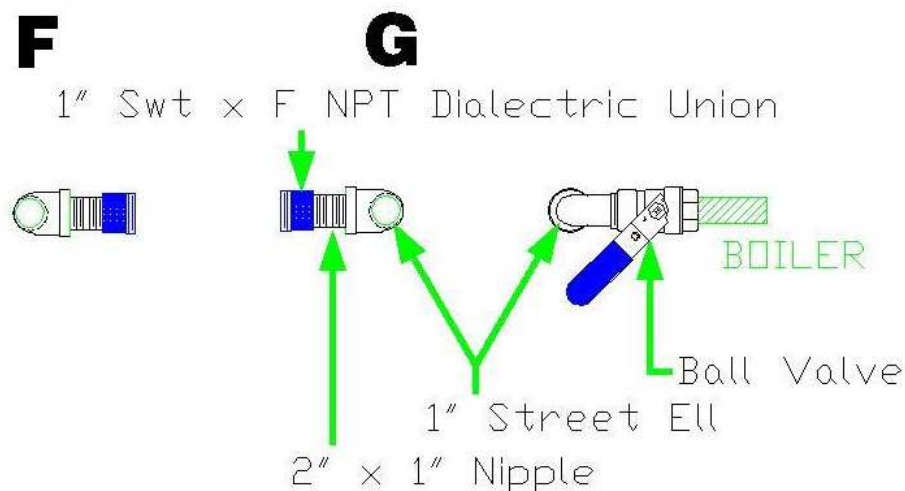
## **PUMP**

- Install the Pump to the lower Pump Isolation Flange (Bung E) prior to constructing the Copper Subassemblies to ensure that the pieces will fit properly.
- Align the Pump Flange Handle so that it will move freely.

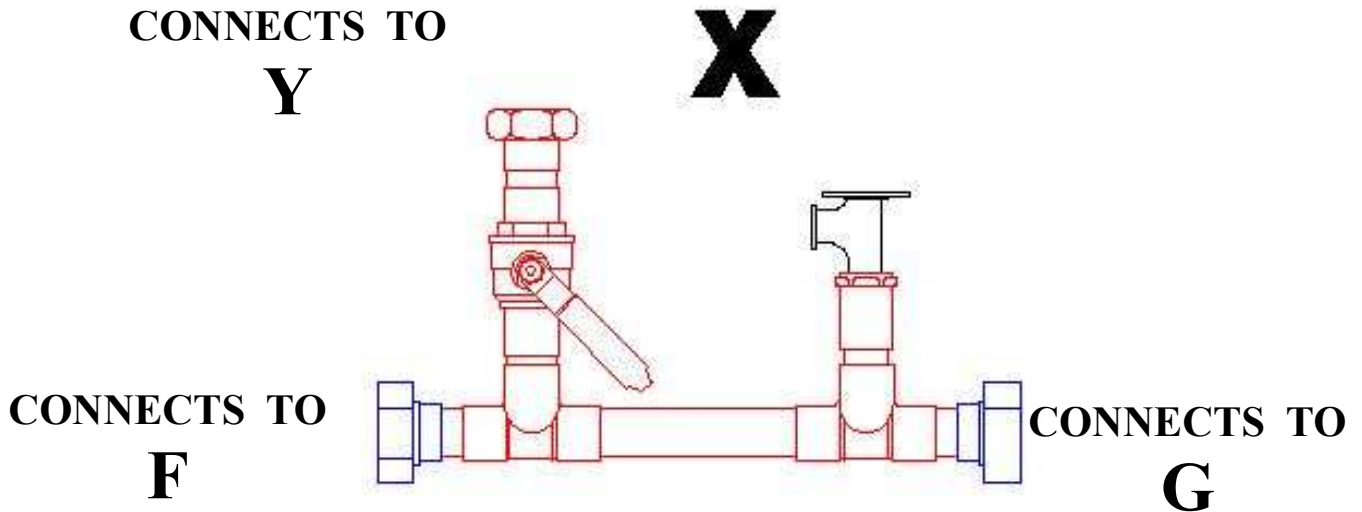
**NOTE:** The Cold Water Returns (F and G) must be tied together using Subassembly X. Do not attach F and G to separate return lines. Refer to the drawing on page 7 if serving multiple buildings.

## **BUNGS F and G**

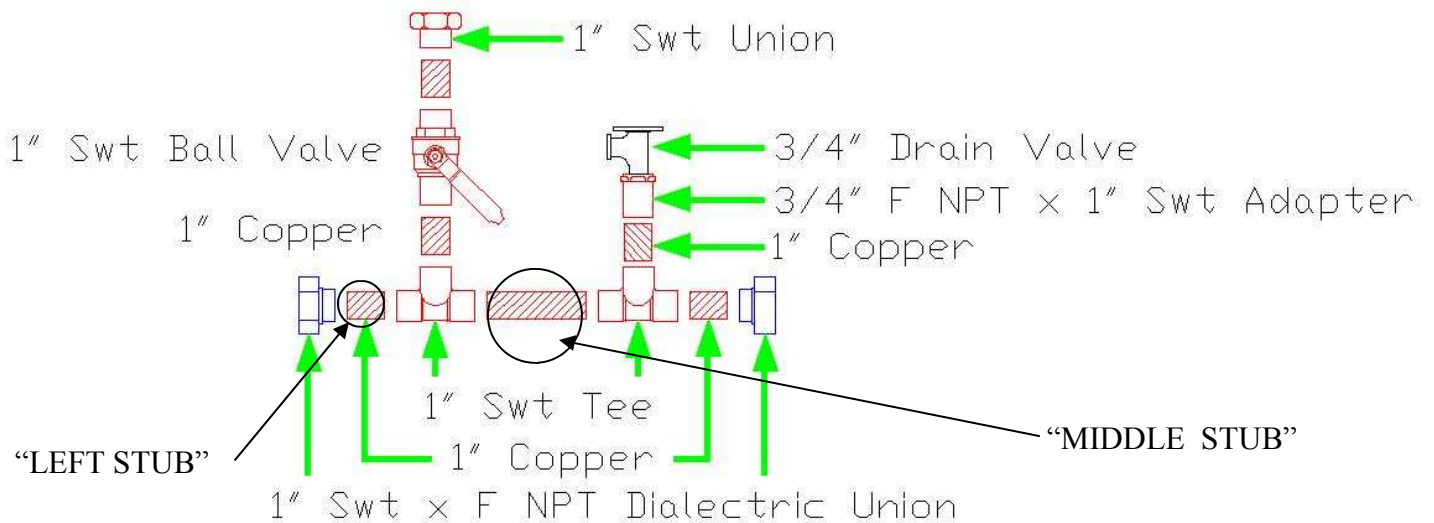
- Bungs F and G are identical.
- Thread a Ball Valve onto each Bung. Align the handles so that they move freely without hitting the boiler or any piping.
- Thread a 1" Street Elbow onto each Ball Valve. Align the Elbows so that they point towards each other.
- Thread a 2" Nipple and a Dielectric Union onto each Street Elbow.



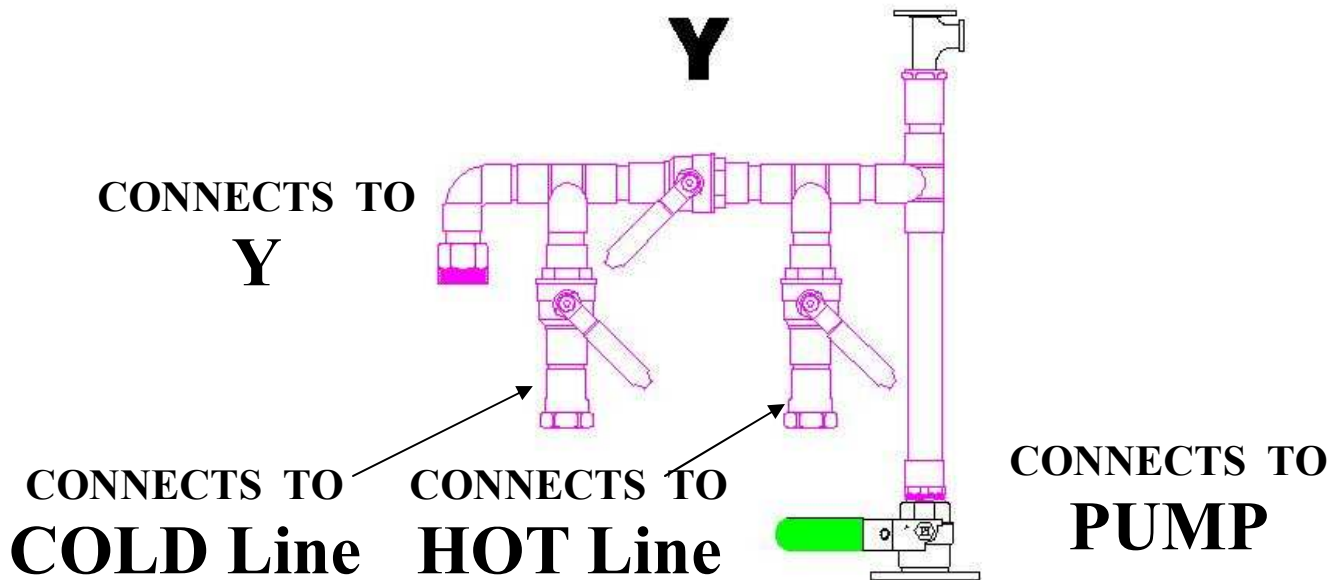
## COPPER SUBASSEMBLY X



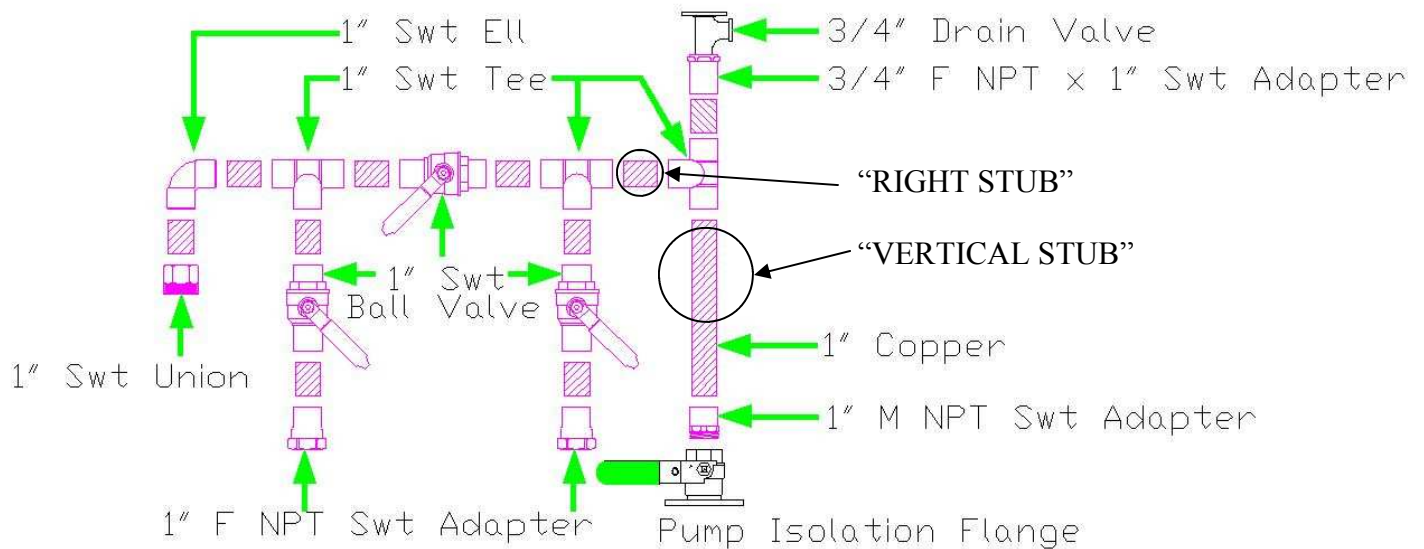
- Sweat together Copper Subassembly X as shown below.
- The “LEFT STUB” (see the diagram below) should be no longer than 2”.
- Adjust the “MIDDLE STUB” to allow the Dielectric Unions to connect the piping at Bungs F and G.



## COPPER SUBASSEMBLY Y



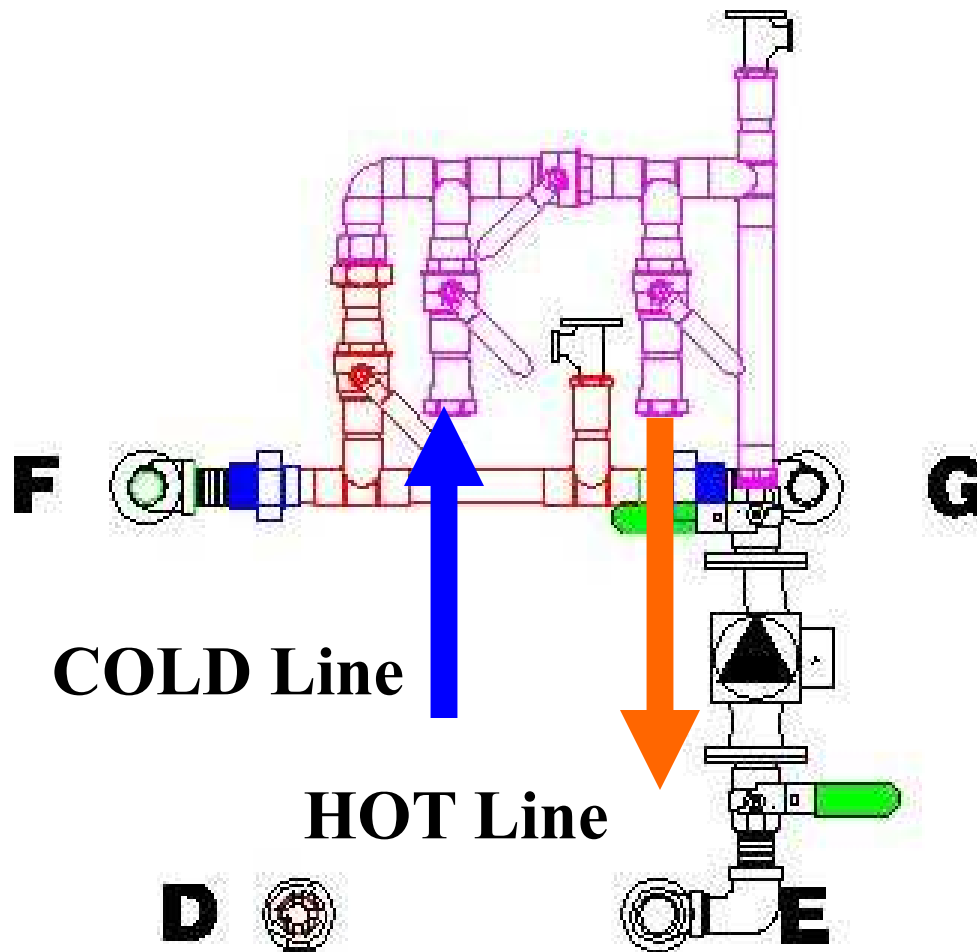
- Sweat together Copper Subassembly Y as shown below.
- Adjust the “RIGHT STUB” (see the diagram below) so that the Pump Isolation Flange lines up with the Pump.
- Adjust the “VERTICAL STUB” so that the Pump Isolation Flange lines up with the Pump.



- Align the Pump Isolation Flange Handle so that it moves freely.

## FINAL ASSEMBLY

- Attach X to the Dielectric Unions at F and G.
- Attach Y by connecting the Union to X and bolting the Upper Pump Isolation Flange to the Pump.



- Attach the Hot and Cold Transfer Lines as shown below.
- If serving multiple buildings, install TEE's at the Hot and Cold connections.

