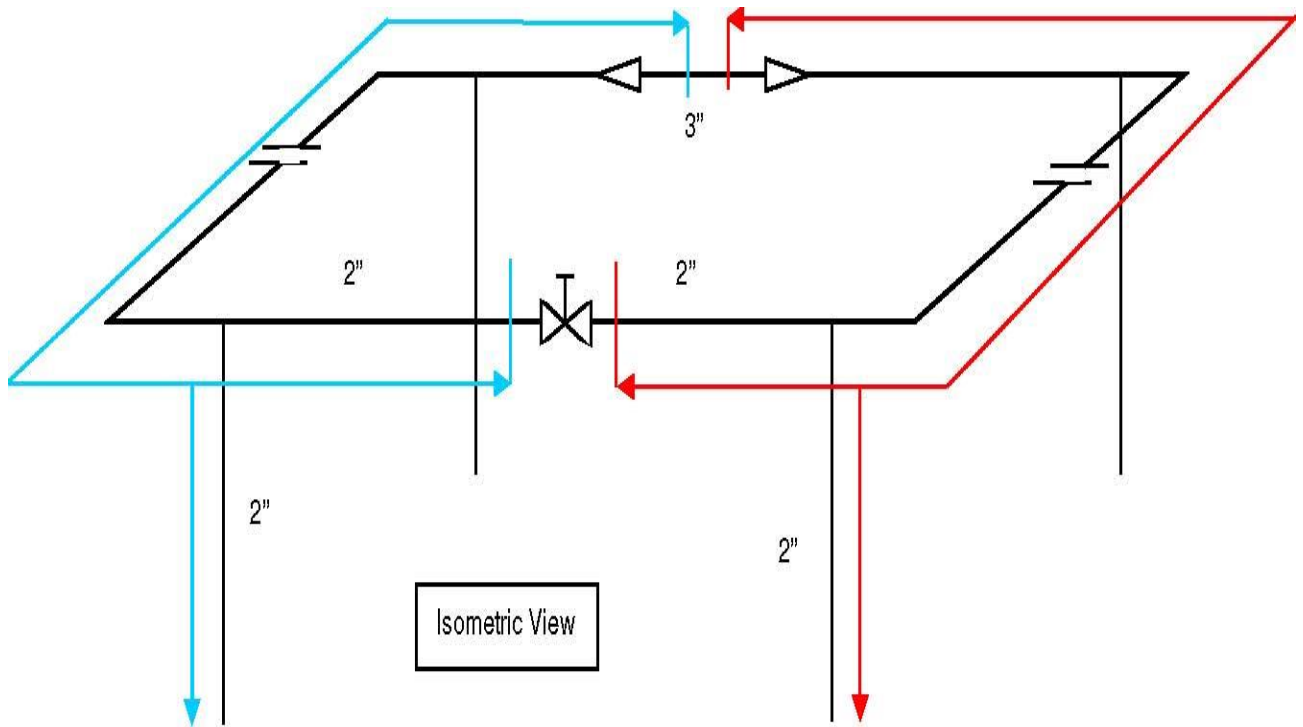
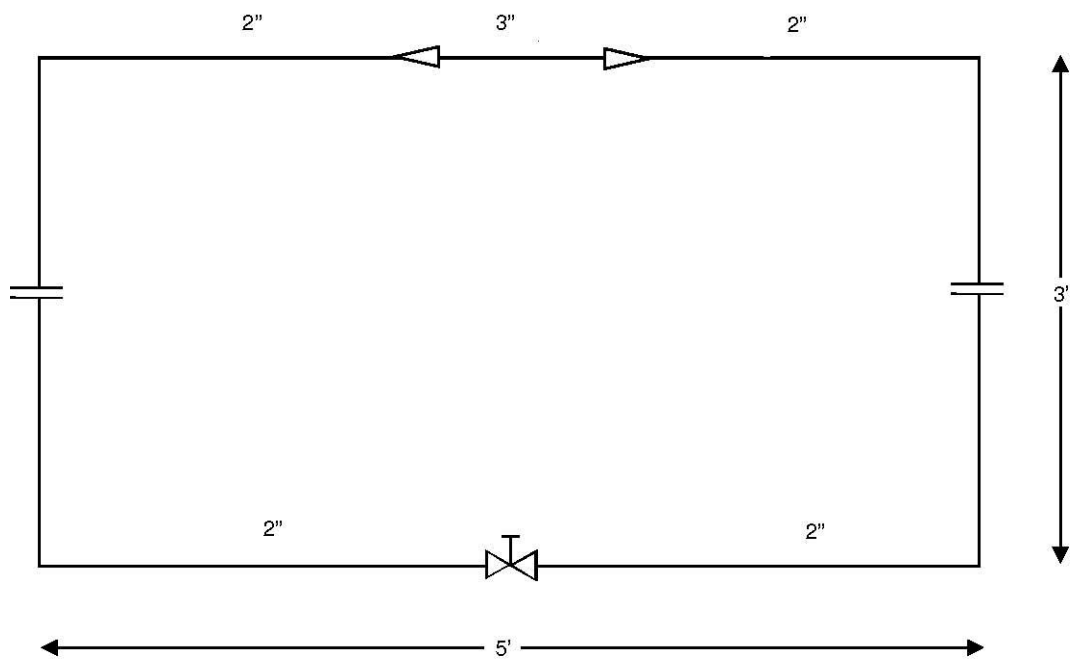


# CRAFT RIGID INSULATION OREINTATION



Isometric View

Isometric View



PLAN VIEW



## **RIGID COMPETITION Written Exam Orientation**

The following materials will be needed and supplied by you the participant for the written portion of the Craft Olympics:

Pen or Pencil  
Calculator  
Scratch pad

### **Insulation System Application**

Each Mock-up will be assigned a two contestant Team. (Refer to isometric drawing) After this orientation you will have a chance for a supervisor to council the team to be sure the specifications are understood and the work plan is clear. Once the competition starts, the supervisor will not be able to direct or help in anyway. You are required to call on a Judge when you have reached your hold point. Hold point is between insulation and metal. If you start metal while your teammate is still insulating you will have to call for a hold point for that area but will not receive time credit for the hold point, If you completely insulate your model prior to installing your metal your hold point time will be credited to your overall time.

Each Team will insulate and metal their side of the model from valve through the reducer including 1 foot of the 3 inch line.

Each Team will insulate and metal one leg to the support ring of their side of the model.

Butt joints and lateral joints shall be tight.

All tie wires are to be installed straight with no sharp ties.

Termination points at valves and flanges shall be the length of the bolt plus 1 inch.

All flanges shall have the insulation installed with a 3" overlap on the pipe covering. Any gaps between the flange covering and the pipe covering shall be filled with insulation material.

All termination points shall be beveled both insulation and sheet metal.

Insulation on tees shall be mitered with the metal tees dovetailed for proper water shed.

All metal laps on horizontal applications shall be at 3 o'clock for proper watershed.



All bands shall be installed straight, on 9" centers with wing seals cut close to eliminate cut hazards.

Screws will be on 3" centers between bands.

Straight metal shall be fitted at flat caps and bevels to provide securement and good quality fit up.

### **Inspection Ports - APPLICATION:**

One inspection port is to be installed in the heel of one of the 90° ells.

One inspection port is to be installed at the 180 degree point on a horizontal run of piping midway between the flange and the ell.

### **Suggested Tools required:**

**(Each sponsoring Company shall be responsible for providing the beader/crimper and furnish standard mechanic tools for installing calsil/perlite wire/bands and seals and aluminum jacketing.)**

**Beader and Crimper**

**Course tooth saw**

**Keyhole saw**

**Butcher knife**

**End nippers**

**Screwdriver**

**Scratch awl**

**Aviator snips (M-1's, M-2's, M-3's, and V-19's are all acceptable)**

**Caulking gun**

**Compass Dividers**

**Tinners' Rule**

**Square**

**Respiratory Protection**

**Safety**

### **PPE required**

**SWICA is providing:**

Hard Hat

Monogoggles

Leather Gloves

Long sleeve shirt

Ear plugs



**You must bring and wear:**

**Safety toe shoes**

**Long pants**

**Manufacturers Recommended Respiratory Protection**

**The First Aid Kit and MSDS Sheets will be posted at booth #416 – Duna USA**

**Emergency Numbers & Grievance committee**

<b>Jay Bridgewater</b>	<b>Petrin LLC</b>	<b>830-885-5351</b>
<b>Michael Alcorn</b>	<b>Aspen Aerogen</b>	<b>713-501-8044</b>
<b>Victor Morales</b>	<b>Bay Insulation</b>	<b>713-263-4635</b>