Thermal Expansion Valve (TEV) Installation

1. Locate TEV just prior to DX coil distributor. Make sure nozzle is removed from distributor. Before brazing, all lines must be de-pressurized.

2. TEV must be installed in the correct orientation as shown below.
3. Flow regulated, dry nitrogen through the line while brazing. Keep TEV cool with wet rag while brazing.

4. Route TEV bulb to DX coil suction line. Install external equalization line on condenser side of remote sensing bulb.
5. Install TEV remote sensing bulb on flat part of suction tube. Install at 3, 4, 8, or 9 o’clock on suction tube.

6. Adjust superheat by adjusting nut on bottom of TEV.
7. Install Filter-Drier and sight glass if required. Installation of these devices are on the incoming port of the TEV.

8. Check superheat. Temperature at T minus Temperature at P is superheat value.
   \[ Tt - Tp = Tsh \]