**HOT WATER COIL PIPING DETAIL**

**NOTES FOR DESIGNER:**
1. **ON/OFF FLOW THROUGH COIL, FAIL TO FULL HEAT**
2. **DO NOT INCLUDE ON CONSTRUCTION DRAWINGS**
3. **SEE SHEET 10 FOR STACKED COIL PIPING & DESIGN NOTES**
4. **SEE SHEET 11 FOR DESIGN NOTES**
5. **APPLICATION: OUTSIDE AIR PREHEAT COIL (MODULATING FACE & BYPASS)**

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1. **INSTALL BALANCING VALVE WITH MINIMUM OF 3 STRAIGHT PIPE DIAMETERS UPSTREAM AND 1 STRAIGHT PIPE DIAMETER DOWNSTREAM**
2. **MOUNT "MINIMUM CLEARANCE ABOVE TEST PLUG TO ALLOW GAUGE TO BE INSERTED: DO NOT COVER PLUG WITH INSULATION.**
3. **INSTALL SWING JOINTS AT PIPE CONNECTIONS**
4. **CONNECT BRANCH LINE TO Coil INTO TOP OR SIDE OF SUPPLY AND RETURN MAINS CONNECTING INTO BOTTOM OF MAIN IS NOT ACCEPTABLE**
5. **INSTALL MANUAL AIR VENTS IN SUPPLY AND RETURN COIL PIPING AS FOLLOWS:**
   - A) IN PIPING HIGH POINT WHEN PIPING IS ABOVE MAINS
   - B) CLOSE TO Coil WHEN PIPING IS NOT ABOVE MAINS (SIDE CONNECTION)
6. **INSTALL COIL SO AIR PASSES THROUGH FINS IN PROPER DIRECTION NOTED ON COIL**

**DIRECT ACTING SIGNAL**

**2-POSITION VALVE**

**BALANCING VALVE**

**MANUAL AIR VENT**

**3/8" BALL VALVE (Typ.)**

**PLUG VALVE, ADJUST TO EQUAL GPM THROUGH COIL AT DESIGN FLOW**

**TEST PLUG**

**STRAINER WITH BLOW-OFF VALVE**

**SHUT-OFF VALVE (Typ.)**

**1/2" DRAIN VALVE**

**STRAINER WITH BLOW-OFF VALVE**

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**ENGINEERING STANDARDS**

**MECHANICAL**

**HOT WATER COIL PIPING DETAIL**

**ON/OFF FLOW, FAIL TO FULL HEAT**

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**NOT FOR CONSTRUCTION**