

Plumbing Piping Construction Checklist

Project:	
Date:	
Building:	
Location:	

Submittal / Approvals

Submittal. The above equipment and systems integral to them are complete and ready for functional testing. The checklist items are complete and have been checked off only by parties having direct knowledge of the event, as marked below, respective to each responsible contractor. This construction checklist is submitted for approval, subject to an attached list of outstanding items yet to be completed. A Statement of Correction will be submitted upon completion of any outstanding areas. None of the outstanding items preclude safe and reliable functional tests being performed. ____ **List attached.**

Mechanical Contractor	Date	Controls Contractor	Date
Electrical Contractor	Date	Plumbing Contractor	Date
TAB Contractor	Date	General Contractor	Date

Construction checklist items are to be completed as part of startup & initial checkout, preparatory to functional testing.

- This checklist does not take the place of the manufacturer's recommended checkout and startup procedures or report.
- Contractors assigned responsibility for sections of the checklist shall be responsible to see that checklist items by their subcontractors are completed and checked off.

Approvals. This filled-out checklist has been reviewed. Its completion is approved with the exceptions noted below.

Project Engineer	Date	Owner's Representative	Date

Associated Checklists					
Plumbing Fixtures	<input type="checkbox"/>	Domestic Water Heater	<input type="checkbox"/>	DDC	<input type="checkbox"/>
Other	<input type="checkbox"/>	Other	<input type="checkbox"/>	Other	<input type="checkbox"/>
Comments:					

Requested documentation submitted	Rec'd	Comments
Manufacturer's cut sheets	<input type="checkbox"/>	
Performance data (pump curves, coil data, etc.)	<input type="checkbox"/>	
Installation and startup manual and plan	<input type="checkbox"/>	
O&M manuals	<input type="checkbox"/>	
Sequences and control strategies	<input type="checkbox"/>	
Sanitization plan	<input type="checkbox"/>	
Leak test reports	<input type="checkbox"/>	
Comments:		

Installation Checks			
Check if Acceptable; Provide comment if unacceptable	NA	Comment	
General			
Piping installed per the drawings and details	<input type="checkbox"/>	<input type="checkbox"/>	
Piping, fittings, valves and equipment properly supported and seismically anchored per the details	<input type="checkbox"/>	<input type="checkbox"/>	
Piping, fittings and valves insulated per specification	<input type="checkbox"/>	<input type="checkbox"/>	
In-line equipment insulated per specification	<input type="checkbox"/>	<input type="checkbox"/>	
Piping labeled per specification with flows indicated in the correct direction	<input type="checkbox"/>	<input type="checkbox"/>	
Low-point drains opened and verified to be clean	<input type="checkbox"/>	<input type="checkbox"/>	
Test plugs (P/T) installed near all control sensors and as per spec	<input type="checkbox"/>	<input type="checkbox"/>	
Pressure / temperature relief valves installed per specification	<input type="checkbox"/>	<input type="checkbox"/>	
No one-quarter bends with 4 inch size or less drainage piping observed on building drains	<input type="checkbox"/>	<input type="checkbox"/>	
No observed double Y, double TY, double T or double waste fitting in nominally horizontal soil or waste pipe	<input type="checkbox"/>	<input type="checkbox"/>	
Pipe fittings complete, pipe properly supported and sloped	<input type="checkbox"/>	<input type="checkbox"/>	
Vertical Risers supported by riser clamp	<input type="checkbox"/>	<input type="checkbox"/>	
No hub bands in accordance with contract documents	<input type="checkbox"/>	<input type="checkbox"/>	
Suitable air break indirect connections	<input type="checkbox"/>	<input type="checkbox"/>	
Vent pipe supported at roof termination	<input type="checkbox"/>	<input type="checkbox"/>	

DIVISION 1 – GENERAL REQUIREMENTS
Section 01 91 00.13o – Plumbing Piping

Installation Checks			
Check if Acceptable; Provide comment if unacceptable		NA	Comment
Floor drains have electronic trap seal primers in accordance with contract documents	<input type="checkbox"/>	<input type="checkbox"/>	
Cleanout for the building drain is accessible	<input type="checkbox"/>	<input type="checkbox"/>	
Cleanout located at base of stacks	<input type="checkbox"/>	<input type="checkbox"/>	
Cleanouts installed every 100 ft or when combined bend radius exceeds 135 deg e.g. when a pipe section has one 90 deg elbow and one 45 deg elbow cleanout is required	<input type="checkbox"/>	<input type="checkbox"/>	
Piping system properly sanitized	<input type="checkbox"/>	<input type="checkbox"/>	
Piping pressure tested according to contract documents	<input type="checkbox"/>	<input type="checkbox"/>	
No leaking apparent	<input type="checkbox"/>	<input type="checkbox"/>	
Record drawings updated to reflect the actual installation	<input type="checkbox"/>	<input type="checkbox"/>	
Waterproof membrane installed in all wet areas (restrooms, kitchens, bars, break rooms etc..)	<input type="checkbox"/>	<input type="checkbox"/>	
Valves			
Isolation valves provided at all mains, branches and fixture to facilitate isolation (as required by contract)	<input type="checkbox"/>	<input type="checkbox"/>	
Valve installation per manufacturer's instructions	<input type="checkbox"/>	<input type="checkbox"/>	
Valve manufacturer labels permanently affixed	<input type="checkbox"/>	<input type="checkbox"/>	
Manual isolation valves checked for proper seal and found to travel freely	<input type="checkbox"/>	<input type="checkbox"/>	
Valves installed in proper direction	<input type="checkbox"/>	<input type="checkbox"/>	
Valves that require a positive shut-off are verified to not be leaking when closed at normal operating pressure	<input type="checkbox"/>	<input type="checkbox"/>	
No leaking apparent	<input type="checkbox"/>	<input type="checkbox"/>	
Valves tagged and valve schedule submitted and displayed as required	<input type="checkbox"/>	<input type="checkbox"/>	
Adequate maintenance clearance in provided and valve is accessible	<input type="checkbox"/>	<input type="checkbox"/>	
Sensors and Gages			
Temperature, pressure and flow gages and sensors installed	<input type="checkbox"/>	<input type="checkbox"/>	
Piping gages, DDC and associated panel temperature and pressure readouts match.	<input type="checkbox"/>	<input type="checkbox"/>	
Water Meters Installed and Connected to DDC	<input type="checkbox"/>	<input type="checkbox"/>	

Sensor and Actuator Calibration

All field-installed sensors and gages, and all actuators (dampers and valves) on this piece of equipment shall be calibrated. All test instruments shall have had a certified calibration within the last 12 months: **Y/N** _____. Sensors installed *in* the unit at the factory with calibration certification provided need not be field calibrated.

Sensor or Actuator Tag & Location	Location OK	1 st Gage or DDC Value	Instrument Measured Value	Final Gage or DDC Value	Pass Y / N

Comments: