



RESIDENTIAL GAS PIPING

THESE REQUIREMENTS APPLY TO BUILDING PERMITS SUBMITTED ON OR AFTER JANUARY 1, 2017

BUILDING DIVISION REQUIREMENTS

A plumbing permit is required to replace, add or extend any gas piping. Permits are required prior to installation or replacement of gas piping.

Following is a listing of the general requirements for gas piping based on the 2016 California Plumbing Code. This brochure is intended to provide general information, contact the Building Safety Division for any questions or additional information.

Gas Pipe Sizing (CPC 1208.4)

If extending or tapping off of an existing gas line, sizing calculations shall be completed to ensure the gas piping is adequate to serve all existing and new appliances. Provide a diagram that shows the size, location, and length of run of the existing and proposed gas lines, and the location and BTUs of all appliances served to the One-Stop Permit Center. Building Division staff can assist in completing the necessary calculations.

Pipe Materials (CPC 1208.5)

Gas pipe material is allowed as follows:

GAS PIPE ALLOWABLE MATERIALS		
Pipe Material	Indoor Installation	Outdoor, Above Ground Installation
Galvanized Wrought Iron	Yes	Yes
Galvanized Steel	Yes	Yes
Black Steel	Yes	No
Corrugated Stainless Teel Tubing*	Yes	Yes

* The installer must be certified by the manufacturer to install such material.

Underground Installation (CPC 1210.1.7.2)

Gas piping installed underground shall be a minimum of 18" in depth. Underground gas piping shall be factory-coated material listed for underground gas line installation and installed in accordance with the manufacturer's requirements (or as approved by the Building Division). Fittings may be wrapped in the field with an approved material. When using non-metallic pipe, an electrically continuous corrosion-resistant yellow tracer wire (minimum AWG 14) shall be buried with the piping and the tracer wire shall be continuous above ground attached to a building wall or the riser.

Underground Beneath Buildings (1210.1.6)

Gas piping shall be sleeved and vented in accordance with the California Plumbing Code. Please contact the Building Division for more information.

Piping Unions (CPC 315.1, 1212.5)

Unions (inline couplings) are only permitted downstream (after) appliance shut-off valves, meter locations, and immediately downstream on building shut-off valves. The use of right/left couplings and nipples are required in all other locations. Unions shall not be installed in a concealed location.

Shut-Off Valves (CPC 1212.5)

Shut-off valves are required ahead of all gas appliances. They must remain accessible from the same rooms as the appliance and shall be within 6 feet of the appliance.

Pipe Support (CPC 1210.2.4)

Pipes shall be supported as follows:

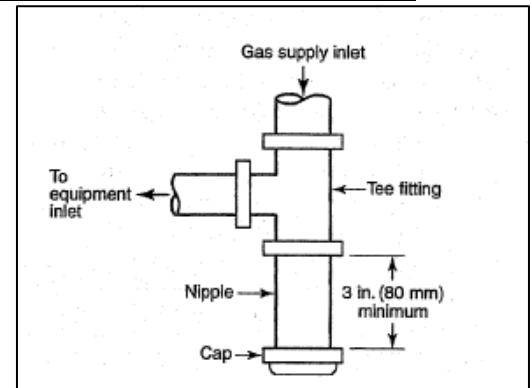
GAS PIPE SUPPORT REQUIREMENTS (CPC Table 1210.2.4.1)	
Size of Pipe	Pipe Support Distance (maximum)
1/2" Tubing	4 feet
1/2" Steel Pipe 5/8" or 3/4" Tubing	6 feet
3/4" to 1" Steel Pipe 7/8" or 1" (Horizontal) Tubing	8 feet
1-1/4" or larger (Horizontal) Steel Pipe	10 feet
1-1/4" or larger (Vertical) Steel Pipe 1" or Larger (Vertical) Tubing	Every Floor

Sediment Trap (CPC 1212.8)

A sediment trap shall be provided on the gas line downstream of the appliance shut-off valve, as close to the inlet of the equipment as practical, and upstream of the flex connector.

Pressure Test Inspection (CPC 318.0, 1213.3)

Test pressure shall be no less than 1-1/2 times the proposed maximum working pressure, but not less than 10 psi. The test duration shall be a minimum of 15 minutes. Test gauges shall have a scale not greater than twice times the test pressure and shall be 0.10 psi increments.



PERMIT PROCESS

Building Permit Review

1. Building permits for gas piping replacement are available on-line at www.e-OneStop.net or permit can be obtained at the One-Stop Permit Center. The One-Stop Permit Center is open between the hours of 8:00 a.m. and 12:00 noon, Monday through Friday.

Inspections

2. Two inspections are required; a rough plumbing and a final.
 - The rough plumbing inspection should be scheduled when the new gas lines are installed, before walls are covered, and before the connection is made to the gas service. A pressure test inspection will be done and all testing equipment is to be provided by the permittee. (1213.3)
 - The final inspection should be scheduled after all the work has been completed.

Building Permit Application Requirements

- A completed Building Permit Worksheet application (available at the One-Stop Permit Center or on-line at www.SunnyvaleBuilding.com)
- Fee _____