

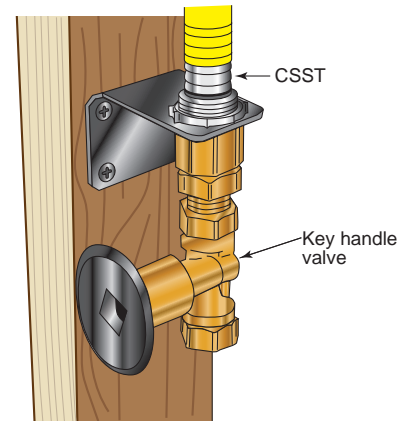
**CHANGE TYPE:** Addition

**CHANGE SUMMARY:** New text addresses shutoff valve support for tubing systems.

**2018 CODE: 409.7 Shutoff valves in tubing systems.** Shutoff valves installed in tubing systems shall be rigidly and securely supported independently of the tubing.

**CHANGE SIGNIFICANCE:** Shutoff valves at appliances such as furnaces, water heaters and boilers are typically supported by rigid steel piping, where CSST or other tubing connects to the shutoff valve inlet, and the valve is supported on its outlet side by rigid piping. However, if a shutoff valve, such as a concealed T-handle keyed valve for a fireplace, is installed in a run of CSST or other tubing material, the torque applied to the valve rotating member will transfer to the tubing, causing stress and possible tubing failure. This new code requirement is consistent with the manufacturer’s installation instructions for CSST. The method of support could be a bracket made for the purpose or it could be accomplished with securely anchored rigid steel pipe nipples on the inlet and outlet sides of the valve. The intent is to prevent movement and stressing of the tubing.

## 409.7 Shutoff Valve Support for Tubing Systems



Key handle valve with support independent of gas tubing

Photo courtesy of OmegaFlex

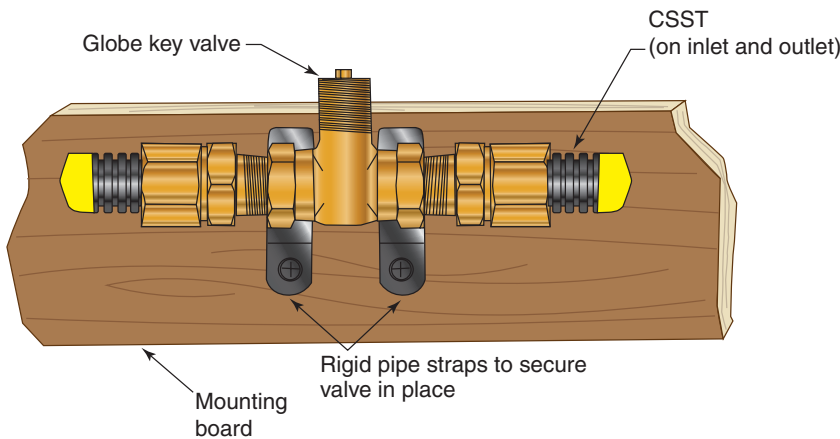
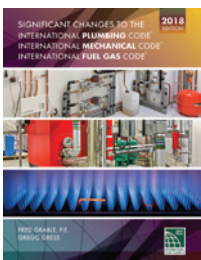


Photo courtesy of OmegaFlex

Shutoff valves require support independent of gas tubing.



This excerpt is taken from *Significant Changes to the International Plumbing Code®, International Mechanical Code®, International Fuel Gas Code®, 2018 Edition*.

Significant Changes publications take you directly to the most important changes that impact projects. Key changes are identified then followed by in-depth discussion of how the change affects real-world application. Photos, tables and illustrations are included to further clarify application. Available for the IBC, IRC, IFC and IPC/IMC/IFGC, the Significant Changes publications are very useful training and review tools for transitioning to a new code edition.