

2009 -2015 IFGC Significant Changes Summary

Tier I

- 202, 401, 401.9, 404.10, 404.1 – Identification, Testing and Certification – Each section of pipe and each fitting utilized in a gas system requires the identification of the manufacturer.
- 304.1 – Combustion Air for Appliances with Power Burners – This change clarifies that the prescriptive combustion air provisions of Section 304 do not apply to appliances having power burners.
- 307.6 – Condensate Pumps – Condensate pumps located in uninhabitable spaces and used with condensing fuel-fired appliances and cooling equipment must be connected to the appliance or equipment served by the pump to prevent water damage in the event of pump failure.
- 308.1 – Clearance to Combustible Materials – It has been clarified that gypsum board is to be considered a combustible material for the purpose of required clearances, including those provisions of Section 308 addressing reductions in required clearances.
- 403.6 – Plastic Pipe, Tubing and Fittings – PVC and CPVC pipe are expressly prohibited materials for supplying fuel gas.
- 410.2 – Medium-Pressure Regulators -- Line regulators installed in rigid piping must have a union installed to allow removal of the regulator.
- 411.1 – Connecting Portable Outdoor Appliances – Where portable gas appliances are used outdoors, such as gas grills and patio heaters, the options for connecting to the gas distribution system are practically limited to gas hoses designed for the purpose. Such hoses must comply with ANSI Z21.54.
- 503.4.1 – Plastic Piping for Appliance Vents – The approval of plastic pipe for venting appliances is no longer a responsibility of the code official; instead, that responsibility rests with the appliance manufacturer and the appliance listing agency. It will all be up to the manufacturer now.
- 503.6.9.3 – Sizing of Plastic Pipe Vents – The code previously spoke only of vents that are defined as listed and labeled factory-made products. The code is no longer silent on the sizing of vents that do not fall under the definition of “vent.” Again, now up to the manufacturer.
- 503.8 – Venting System Termination Location – Text has been added to address the location of sidewall vent terminals with respect to adjoining buildings. Previous editions of the code were silent on this subject, and the appliance manufacturer’s instructions are typically silent as well.
- 614.5 – Dryer Exhaust Duct Power Ventilators – New text recognizes the use of dryer exhaust duct power ventilators (DEDPVs) for installations that exceed the allowable exhaust duct length for clothes dryers.

Tier II

- 618.4 – Prohibited Sources – Return air may be taken from a garage provided with a dedicated forced-air system.
- 310.1.1 – Electrical Bonding of Corrugated Stainless Steel Tubing – Text has been added to address the allowable length of the bonding jumper wire and the methods of making the bonding connections.
- 403.10.4 – Drilled and Tapped Metallic Pipe Fittings – The code now expressly prohibits the practice of drilling and tapping pipe fittings in the field except where performed in accordance with five criteria that strictly limit such practice.
- 404.7 – Protection of Concealed Piping against Physical Damage – The section on protection of piping has been completely rewritten to address more than just bored holes and notches in structural members. It now addresses piping parallel to framing members and piping within framing members. The new text requires that the protection extend well beyond the edge of members that are bored or notched.
- 411.1.1 – Connectors for Commercial Cooking Appliances – Specific installation requirements have been added for the safe installation of ANSI Z21.69 connectors for commercial cooking appliances. The options to connect the cooking appliance with semi-rigid tubing or rigid pipe have been removed.
- 502.7.1 – Door Clearance to Vent Terminals – Coverage has been added to address the condition where a door could impact or come too close to an appliance vent terminal.
- 623.2 – Prohibited Location of Commercial Cooking Appliances -- The code has been clarified so that it would not inadvertently prohibit the installation of cooking appliances that are listed as both commercial and domestic appliances.

Tier III

- 404.2 -- CSST Piping Systems – CSST piping systems shall be installed in accordance with their listing and the manufacturer’s installation instructions.
- 404.18 – Prohibited Devices – Excess flow valves and similar devices are now permitted to be placed in gas piping systems that have been sized to accommodate the pressure drop.
- 408.4 – Sediment Trap – An illustration of a sediment trap is now included within the IFGC in order to clarify the intent of the provisions.
- 410.4 – Excess Flow Valves – An excess flow valve must now be listed, sized, and installed in accordance with the manufacturer’s instructions.
- 410.5, 202 – Flashback Arrestor Check Valve – A combination flashback arrestor and backflow check valve is now required on any fuel gas system used with oxygen in any hot work operation.
- 402.2 – Maximum Gas Demand for Pipe Sizing – Table 402.2 and the reference to it have been deleted as a result of the code requiring the actual maximum input rating of the appliances to be known and used for sizing purposes.
- 404.5 – Fitting in Concealed Locations – This section retains its basic intent, while being completely reorganized to clarify the correct application. Threaded elbows, tees and couplings are now specifically approved for concealed locations as the code always intended. The code

now provides the applicable referenced standards for fittings that are listed for concealed locations.

- 404.18 – Pipe Cleaning – The code now specifically prohibits the practice of using fuel gas as a medium for flushing foreign matter and debris from fuel-supply piping.