

FACT SHEET

2018 National Fuel Gas Code – Summary List of Revisions rev.9-05-17



This fact sheet provides an overview of the significant revisions in the 2015 National Fuel Gas Code approved by the National Fuel Gas Code Committee, ANSI ASC Z223 and NFPA 54. These revisions are published in the 2018 edition.

The fact sheet is not intended to replace knowledge of applicable local and national codes or address specific situations. The user should consult a competent professional and be thoroughly familiar with all applicable local codes, specific manufacturer’s installation instructions and the National Electrical Code (NEC®)¹ before attempting to bond any fuel-gas installation.

Section ²	Subject	Description of Change
1.1.1.1 (B), (C), & (D)	Scope of code	REVISED – Subsection (B) is revised and reorganized to state the maximum gas pressures within the code’s scope as follows: 125 psi for natural Gas, 50 psi for LP-Gas, and 10 psi for gas-air mixtures with the flammable rage. The operating limitations for LP-gas and gas-air mixtures that were previously stated as exceptions in (B) are relocated to section 5.5.
Chapter 2	Reference Standards	REVISED – All reference standards are updated to their current edition as of 6/16.
3.3.48	Gas convenience outlet definition	REVISED – The description of the outlet construction is deleted.
3.3.66	Mixing blower definition	REVISED – The description of how the device operates is deleted.
3.3.75	Pipe definition	REVISED – The list of piping materials is deleted.
3.3.84.4	Monitor regulator	REVISED – The description of when the regulator operates is deleted and the term “monitor regulator” is revised to “monitoring regulator.”
5.5	Operating pressure limitations	REVISED – The maximum operating pressure for natural gas (125 psi), flammable gas-air mixtures (10 psi), and LP gas piping systems (20 psi) are relocated from the scoping section 1.1.1.1 ((B).
5.6.2.2	Acceptable Pipe Materials	REVISED – Stainless steel smooth wall pipe meeting ASTM A312 is recognized as an acceptable pipe material. The minimum acceptable pipe schedule is revised to Schedule 10 from Schedule 40 (see revision to Section 5.6.7.1 for limitation on Schedule 10 joining methods). All pipe must meet the dimensional requirements of ASME B16.10M.

¹ NEC and National Electrical Code are registered trademarks of the National Fire Protection Association.

² Section numbers refer to 2018 Edition unless otherwise noted with “[2015].”

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5.6.3.3	Stainless steel (smooth-wall) tubing	NEW – Stainless steel (smooth-wall) tubing meeting ASTM A268 or A269 are recognized as acceptable tubing materials.
5.6.4.1.2	Polyamide piping	REVISED – Polyamide piping must meet ASTM F2945. The old reference for plastic piping other than polyethylene covered by the 2008 edition of ASTM D2513 is deleted. The code now specifies only polyethylene and polyamide as acceptable plastic materials for pressure gas piping.
5.6.6	Protective coatings	DELETED – The requirement is relocated to a new section 7.2.2, coverage remains unchanged.
5.6.7.1	Pipe Joints	REVISED – Press-connect is added to existing joining methods for Schedule 40 or heavier pipe. Schedule 10 pipe joining methods are restricted to press-connect fittings, flanges, brazing, or welding (threaded fittings are not allowed).
5.6.7.2	Copper tubing joints	REVISED – Revised to cover copper tubing joints and methods unchanged. New section 5.6.7.3 added to cover stainless steel (smooth-wall) tubing joints.
5.6.7.3	Stainless steel (smooth-wall) tubing joints	NEW – The allowed stainless steel (smooth-wall) tubing joint methods are added. Coverage similar to copper except where brazed the brazing alloy and fluxes must be manufacture recommended for use on stainless steel.
5.6.7.5 (2)	Metallic pipe fittings	REVISED – Stainless steel (smooth-wall) pipe and fittings added to allowed list.
5.8.1	Gas line pressure regulator	REVISED – A line pressure regulator is required where the gas supply pressure exceeds the maximum allowed appliance pressure. A gas appliance pressure regulator is no longer allowed to be used.
5.8.2	Listed line pressure regulators	REVISED – Add clarification that a pressure regulator with a set outlet pressure of 2 psi or less is to be listed ANSI Z21.80. Previous editions did not contain outlet pressure limit and could therefore mistakenly require higher pressure regulators to be listed to the standard not meant for such listings.
5.9.3, 5.9.3.2, 5.9.4	Overpressure protection devices	REVISED – The terms “pressure relieving devices” and “pressure limiting devices” are deleted and replaced with the term “overpressure protection devices.”

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Section ²	Subject	Description of Change
5.9.3.1 (2)	Monitor regulator	REVISED – The term “monitoring regulator” is replaced with “monitor regulator.” The definition 3.3.84.4 is also revised accordingly.
6.2, 6.2.1, 6.2.2	Sizing natural gas piping systems	REVISED – Section 6.2 is split adding 6.2.1 and 6.2.2 to clarify how gas piping is to be sized. No technical changes. New section 6.2.1 results in the renumbering of all natural gas sizing tables from “6.2” to “6.2.1”.
Table 6.2.1(p)	CSST natural gas sizing	REVISED – CSST capacities for the 39 EHD tube size are added.
Table 6.2.1(q)	CSST natural gas sizing	REVISED – CSST capacities for the 39 EHD tube size are added.
6.3, 6.3.1, 6.3.2	Sizing propane gas piping systems	REVISED – Section 6.3 is split adding 6.3.1 and 6.3.2 to clarify how gas piping is to be sized. No technical changes. New section 6.3.1 results in the renumbering of all propane gas sizing tables from “6.3” to “6.3.1”.
7.1.8	CSST installation	NEW – Adds the requirement that CSST be installed in accordance with the code and manufacturer’s installation instructions.
7.2.2	Protective coatings	NEW – Requirement relocated from 5.6.6 and coverage remains the same.
7.8 [2015]	Branch pipe connection	DELETED – The requirement that the outlet diameter of an unused branch fitting (i.e. tee) be the same size as the main supply line is deleted.
7.9	Prohibited devices in piping	REVISED – AHJ approval is no longer required where the piping is designed to accommodate an in-piping device. Editorially revised for clarity.
7.12.2	CSST electrically continuous	REVISED – Add the requirement that one or more segments of CSST be electrically continuous.
7.12.2.3	Additional grounding electrodes	REVISED – Clarify that any additional grounding electrodes installed to limit the CSST bonding jumper length to 75 ft or less must be bonded to the electrical service grounding electrode system.
7.12.3	Bonding of arc resistant jacketed CSST	NEW – Permit the appliance electrical grounding conductor to serve as the bonding means for CSST listed with an arc resistant jacket or coating system.

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9.1.24	Inspection of appliances after building envelope modifications	REVISED (Z223.1), NEW (NFPA 54) – Require an existing appliance installation be inspected for compliance with the code’s combustion air and venting requirements where a structure is modified to reduce air infiltration. The section contains a list of more specific building envelope modifications that would trigger the appliance inspection.
10.4.4.3	Clothes dryer transition ducts	REVISED – Transition ducts must be listed to UL 2158A. Previous editions required only a listed duct be used.
10.8.3.2 [2015]	Non-recirculating direct fired industrial air heater installation	DELETED – The requirement that these appliances be installed only in industrial or commercial occupancies is deleted. Section 10.8.3.1 requires they be installed in accordance with the manufacturer’s installation instructions.
10.9.3	Recirculating direct fired industrial air heater installation	REVISED – The requirement that these appliances be installed only in industrial or commercial occupancies is deleted. The section requires they be installed in accordance with the manufacturer’s installation instructions.
10.25.2.2 [2015]	Floor mounted type unit heaters	DELETED – All code coverage for this type of unit heater is deleted. No new such appliances are being manufactured.
10.27.1.1	Water heater installation in spaces with air handlers	NEW – Add the requirement that where a draft hood water heater is installed in a room with an air handler or furnace, the air handler or furnace’s return ducts must be installed in accordance with 10.3.7.4 - sealed to the air handler or furnace and terminate outside of the room.
10.28	Residential CNG fueling appliance	REVISED – New coverage for residential CNG fueling appliances is added and required that they be listed to NGV 5.1 and installed in accordance with the manufacturer’s installation instructions.
12.3.3	Ventilating hoods	REVISED – Editorial revised for clarity and to combine the permissible use of ventilating hoods for commercial appliances allowed under 12.4.4.1 [2015] under one section.
12.3.4	Well-ventilated spaces	REVISED – Editorial revised for clarity and to clarify that it is only permissible only for industrial spaces.

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12.4.3.1	Mechanical draft systems	REVISED – Mechanical draft systems must be listed to UL 378. Previous editions required only a listed system be used.
12.4.4.1 [2015]	Ventilating hoods	DELETED – The permissible commercial application is combined into revised section 12.3.3.
12.5.2	Plastic vent piping labeling	REVISED – Add the requirement that all plastic piping used for venting be label in accordance with the product standards specified by the appliance manufacturer. Where the appliance manufacturer specifies UL 1738 plastic it shall be labeled in accordance with UL 1738 standard.
12.5.3	Plastic vent joints	REVISED – Add joint coverage for UL 1738 plastic piping. Joints are to be made in accordance with the plastic vent manufacturer’s instructions.
12.5.4	Special gas vent	REVISED – All special gas vents are to be listed to UL 1738. Previous editions required that they be listed without specifying the standard.
12.6.1.1	Factory-built chimneys	REVISED – All factory-built chimneys shall be listed to UL 103, UL 959, or UL 2561. Previous editions required that vents that operate at a positive pressure be listed without specifying the standard.
12.6.1.3	Chimney lining system	REVISED – All chimney lining systems are to be listed to UL 1777. Previous editions required that they be listed without specifying the standard.
12.6.9	Factory-built chimney installation shield	NEW – An installation shield is required to be installed where a factory-built chimney passes through insulation materials.
12.7.1	Type B and Type BW vents	NEW – Type B to be listed to UL 441, Type BW to be listed to UL 641. Previous editions did not specify that these vents are to be listed nor specified the standard.
12.9.3 Table 12.9.3	Through the wall direct vent termination clearances	REVISED –The requirements are reorganized into a new Table 12.9.3. Add a new requirement for appliances with an input above 150,000 Btu that they have clearances to building openings in accordance with the appliance manufacturer’s instructions but not less than section 12.9.2 (mechanical draft systems).
A.3.3.84	Monitor regulator	NEW – Explanation on how a monitor regulator is installed and its operation which replaces some of the text that was previously included in the definition 3.3.84.

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Section ²	Subject	Description of Change
Table A.5.6	Piping materials and fittings	REVISED – The table is updated to reflect revisions within the code which include allowing stainless steel pipe and tubing, press-connect fittings, and the new polyamide product standard.
A.7.12.2	CSST bonding	REVISED – The explanation on bonding jumper length is relocated to a new A.7.12.2.3.
A.7.12.2.3	CSST bonding connector length	NEW – The explanation on the origins of the 75 ft maximum length is relocated from A.7.12.2. New guidance on the use of an additional grounding electrode to maintain the 75 ft connector maximum length is added.
C.3 (1)(b)	Leak check not using a meter	NEW – An in-line flow meter method for leakage check is added.
Table G.6	CO thresholds	REVISED – Table is updated to include boilers.
Annex K	Informational Standards	REVISED – All standards are updated to their current editions as of 6/16.

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