

# IFGC/IFGS CHAPTER 8

## REFERENCED STANDARDS

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**User note:**

**About this chapter:** Chapter 8 lists the full title, edition year and address of the promulgator for all standards that are referenced in the code. The section numbers in which the standards are referenced are also listed.

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in Section 102.8.

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## ANSI

American National Standards Institute  
25 West 43rd Street 4th Floor  
New York, NY 10036

**ANSI A13.1—2020: Scheme for the Identification of Piping Systems**

704.1.2.2

**ANSI FC 1—2014: Fuel cell technologies - Part 3-100: Stationary Fuel Power Systems—Safety**

633.1

**ANSI LC-4/CSA 6.32—2012: Press-connect Metallic Fittings for Use in Fuel Gas Distribution Systems**

403.9.1, 403.9.2, 403.9.3

**ANSI Z21.90/CSA 6.24—2015: Gas Convenience Outlets and Optional Enclosures**

411.1

**CSA/ANSI NGV 5.1—2016: Residential Fueling Appliances**

413.2.3, 413.4

**CSA/ANSI NGV 5.2—2017: Vehicle Fueling Appliances (VFA)**

413.2.4, 413.5

**LC 1/CSA 6.26—2016: Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST)**

403.4.5

**Z21.1—2016: Household Cooking Gas Appliances**

623.1

**Z21.5.1/CSA 7.1—2017: Gas Clothes Dryers—Volume I—Type 1 Clothes Dryers**

613.1

**Z21.5.2/CSA 7.2—2016: Gas Clothes Dryers—Volume II—Type 2 Clothes Dryers**

613.1, 614.3

**Z21.8—94 (R2012): Installation of Domestic Gas Conversion Burners**

619.1

**Z21.10.1/CSA 4.1—2017: Gas Water Heaters—Volume I—Storage, Water Heaters with Input Ratings of 75,000 Btu per Hour or Less**

624.1

**Z21.10.3/CSA 4.3—2017: Gas Water Heaters—Volume III—Storage, Water Heaters with Input Ratings above 75,000 Btu per Hour, Circulating and Instantaneous**

624.1

**Z21.11.2—2016: Gas-fired Room Heaters—Volume II—Unvented Room Heaters**

621.1

**Z21.13/CSA 4.9—2017: Gas-fired Low-pressure Steam and Hot Water Boilers**

631.1

**Z21.15/CSA 9.1—2009(2014): Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves**

Table 409.1.1

**Z21.19/CSA 1.4—2014: Refrigerators Using Gas Fuel**

625.1

**Z21.24/CSA 6.10—2015: Connectors for Gas Appliances**

411.1, 411.3

## REFERENCED STANDARDS

### ANSI—continued

- Z21.40.1/CGA 2.91—1996 (R2017): Gas-fired Heat Activated Air Conditioning and Heat Pump Appliances**  
627.1
- Z21.40.2/CGA 2.92—1996 (R2017): Gas-fired Work Activated Air Conditioning and Heat Pump Appliances (Internal Combustion)**  
627.1
- Z21.41/CSA 6.9—2014: Quick Disconnect Devices for use with Gas Fuel Appliances**  
411.1
- Z21.42—2013: Gas-fired Illuminating Appliances**  
628.1
- Z21.47/CSA 2.3—2016: Gas-fired Central Furnaces**  
618.1
- Z21.50/CSA 2.22—2016: Vented Decorative Gas Fireplaces**  
604.1
- Z21.54—2014: Gas Hose Connectors for Portable Outdoor Gas-fired Appliances**  
411.1
- Z21.56/CSA 4.7—2017: Gas-fired Pool Heaters**  
617.1
- Z21.58/CSA 1.6—2015: Outdoor Cooking Gas Appliances**  
623.1
- Z21.60/CSA 2.26—2017: Decorative Gas Appliances for Installation in Solid-fuel Burning Fireplaces**  
602.1
- Z21.61—1983 (R2013): Gas-fired Toilets**  
626.1
- Z21.69/CSA 6.16—2015: Connectors for Movable Gas Appliances**  
411.1.1, 411.1.4
- Z21.75/CSA 6.27—2016: Connectors for Outdoor Gas Appliances and Manufactured Homes**  
411.1, 411.2
- Z21.80/CSA 6.22—2016: Line Pressure Regulators**  
410.1
- Z21.84—2017: Manually Lighted, Natural Gas Decorative Gas Appliances for Installation in Solid-Fuel Burning Appliances**  
602.1, 602.2
- Z21.86/CSA 2.32—2016: Vented Gas-fired Space Heating Appliances**  
608.1, 609.1, 622.1
- Z21.88/CSA 2.33—2016: Vented Gas Fireplace Heaters**  
605.1
- Z21.91—2017: Ventless Firebox Enclosures for Gas-fired Unvented Decorative Room Heaters**  
621.7.1
- Z21.93/CSA 6.30—2017: Excess Flow Valves for Natural Gas and Propane Gas with Pressures up to 5 psig**  
410.4
- Z21.97—2014: Outdoor Decorative Appliances**  
635.1
- Z83.4/CSA 3.7—2017: Nonrecirculating Direct-gas-fired Heating and Forced Ventilation Appliances for Commercial and Industrial Application**  
611.1
- Z83.8/CSA 2.6—2016: Gas Unit Heater, Gas Packaged Heater, Gas Utility Heaters and Gas-fired Duct Furnaces**  
610.1, 620.1
- Z83.11/CSA 1.8—2016: Gas Food Service Equipment**  
623.1
- Z83.18—2017: Recirculating Direct Gas-fired Heating and Forced Ventilation Appliances for Commercial and Industrial Applications**  
612.1
- Z83.19—09(R2014): Gas-fired High-intensity Infrared Heaters**  
630.1
- Z83.20—2016: Gas-fired Tubular and Low-intensity Infrared Heaters**  
630.1

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## ASME

American Society of Mechanical Engineers  
Two Park Avenue  
New York, NY 10016-5990

- B1.20.1—2019: Pipe Threads, General Purpose (inch)**  
403.8
- B16.1—2020: Gray Iron Pipe Flanges and Flanged Fittings, Class 25, 125 and 250**  
403.11.1
- B16.5—2019: Pipe Flanges and Flanged Fittings: NPS 1/2 through NFPS 24 Metric/Inch Standard**  
403.11.2
- B16.20—2017: Metallic Gaskets For Pipe Flanges: Ring-Joint, Spiral-Wound and Jacketed**  
403.12.1
- B16.21—2016: Nonmetallic Flat Gaskets for Pipe Flanges**  
403.12.2
- B16.24—2021: Cast Copper Alloy Pipe Flanges and Flanged Fittings: Classes 150, 300, 600, 900, 1500 and 2500**  
403.11.3
- B16.33—2012(2017): Manually Operated Metallic Gas Valves for Use in Gas Piping Systems up to 125 psig (Sizes 1/2 through 2)**  
Table 409.1.1
- B16.42—2021: Ductile Iron Pipe Flanges and Flanged Fittings, Classes 150 and 300**  
403.11.4
- B16.44—2017: Manually Operated Metallic Gas Valves for Use in Aboveground Piping Systems up to 5 psi**  
Table 409.1.1
- B16.47—2020: Large Diameter Steel Flanges: NPS 26 through NPS 60 Metric/Inch Standard**  
403.11.2
- B31.3—2020: Process Piping**  
704.1.2.4
- B31.12—2019: Hydrogen Piping and Pipelines**  
704.1.2, 704.1.2.4, 705.2, 705.3
- B36.10M—2018: Welded and Seamless Wrought-steel Pipe**  
403.3.2
- BPVC—2019: ASME Boiler & Pressure Vessel Code**  
631.1, 703.2.2, 703.3.3, 703.3.4
- CSD-1—2021: Controls and Safety Devices for Automatically Fired Boilers**  
631.1

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## ASSP

American Society of Safety Professionals  
520 N. Northwest Highway  
Park Ridge, IL 60068

- Z359.1: The Fall Protection Code**  
306.6

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## ASTM

ASTM International  
100 Barr Harbor Drive, P.O. Box C700  
West Conshohocken, PA 19428-2959

- A53/A53M—2018: Specification for Pipe, Steel, Black and Hot Dipped Zinc-coated Welded and Seamless**  
403.3.2
- A106/A106M—2018: Specification for Seamless Carbon Steel Pipe for High-temperature Service**  
403.3.2
- A254—2010(2018): Specification for Copper Brazed Steel Tubing**  
403.4.1
- A268/A268—2010(16): Standard Specification for Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service**  
403.4.2

## REFERENCED STANDARDS

### ASTM—continued

- A269/A269M—2015A: Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service**  
403.4.2
- A312/A312M—2018: Standard Specification for Seamless, Welded and Heavily Cold Worked Austenitic Stainless Steel Pipes**  
403.3.2
- B88—2016: Specification for Seamless Copper Water Tube**  
403.4.3
- B210—12: Specification for Aluminum and Aluminum-alloy Drawn Seamless Tubes**  
403.4.4
- B241/B241M—2016: Specification for Aluminum and Aluminum-alloy, Seamless Pipe and Seamless Extruded Tube**  
403.3.4, 403.4.4
- B280—2018: Standard Specification for Seamless Copper Tube for Air-Conditioning and Refrigeration Field Service**  
403.4.3
- C64 - 72(1977): Standard Specification for Refractories for Incinerators and Boilers**  
503.10.2.5
- C315—2007(2016): Specification for Clay Flue Liners and Chimney Pots**  
501.12
- D2513—2018A: Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing and Fittings**  
403.5, 403.5.1, 403.10, 404.17.2
- E136—2019: Standard Test Method for Assessing Combustibility of Using a Vertical Tube Furnace at 750°C**  
202
- F1973—2013(2018): Standard Specification for Factory Assembled Anodeless Risers and Transition Fittings in Polyethylene (PE) and Polyamide 11 (PA11) and Polyamide 12 (PA12) Fuel Gas Distribution Systems**  
404.17.2
- F2945—2018: Standard Specification for Polyamide 11 Gas Pressure Pipe, Tubing and Fittings**  
403.5

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## CGA

Compressed Gas Association  
14501 George Carter Way, Suite 103  
Chantilly, VA 20151-2923

- S-1.1—(2011): Pressure Relief Device Standards—Part 1—Cylinders for Compressed Gases**  
703.3
- S-1.2—(2009): Pressure Relief Device Standards—Part 2—Cargo and Portable Tanks for Compressed Gases**  
703.3
- S-1.3—(2008): Pressure Relief Device Standards—Part 3—Stationary Storage Containers for Compressed Gases**  
703.3

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## CSA

CSA Group  
8501 East Pleasant Valley Road  
Cleveland, OH 44131-5516

- ANSI/CSA FC1—2014: Fuel Cell Technologies—Part 3-100; Stationary fuel cell power systems-Safety**  
633.1
- ANSI/CSA NGV 5.1—2016: Residential Fueling Appliances**  
413.2.3, 413.2.4, 413.4
- CSA 8—93: Requirements for Gas-fired Log Lighters for Wood Burning Fireplaces**  
603.1

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## DOTn

U.S. Department of Transportation  
400 Seventh St. SW  
Washington, DC 20590

**49 CFR—Parts 100–180(2015): Hazardous Materials Regulations**

703.2.2, 703.3.3, 703.3.4

**49 CFR, Parts 192.281(e) & 192.283 (b)—(2009): Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards**

403.5.1

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## ICC

International Code Council, Inc.  
500 New Jersey Ave, NW  
Washington, DC 20001

**IBC—21: International Building Code®**

102.2.1, 201.3, 301.10, 301.11, 301.12, 301.14, 302.1, 302.2, 305.6, 306.5.1, 306.6, 401.1.1, 412.6, 413.3, 413.3.1, 501.1, 501.3, 501.12, 501.15.4, 501.15.4.1, 609.3, 614.10, 633.1, 634.1, 706.2

**IECC—21: International Energy Conservation Code®**

301.2

**IFC—21: International Fire Code®**

201.3, 401.2, 412.1, 412.6, 412.7, 412.8, 413.1, 413.3, 413.3.1, 413.6, 413.10.2.5, 633.1, 701.1, 701.2, 703.2, 703.2.2, 703.3.8, 703.4, 703.5, 704.1.2, 704.3, 704.4, 706.2, 706.3, 707.1, 707.2, 708.1

**IMC—21: International Mechanical Code®**

101.2.5, 201.3, 301.1.1, 301.13, 304.11, 307.1, 307.5, 501.1, 614.2, 614.10, 618.3, 621.1, 624.1, 631.2, 632.1

**IPC—21: International Plumbing Code®**

201.3, 301.6, 307.3, 624.1.1, 624.2

**IRC—21: International Residential Code®**

101.2, 703.2.1

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## MSS

Manufacturers Standardization Society of the Valve and Fittings Industry  
127 Park Street, NE  
Vienna, VA 22180

**ANSI SP 58—2018: Pipe Hangers and Supports—Materials, Design and Manufacture**

407.2

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## NFPA

National Fire Protection Association  
1 Batterymarch Park  
Quincy, MA 02169-7471

**2—19: Hydrogen Technologies Code**

703.1, 706.2

**30A—21: Code for Motor Fuel Dispensing Facilities and Repair Garages**

305.4, 305.10

**37—18: Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines**

616.1

**51—18: Design and Installation of Oxygen-fuel Gas Systems for Welding, Cutting and Allied Processes**

414.1

**58—17: Liquefied Petroleum Gas Code**

401.2, 402.7, 403.5.2, 403.10

**70—20: National Electrical Code**

306.3.1, 306.4.1, 306.5.2, 309.2, 413.10.2.4, 703.6

**82—19: Incinerators, Waste and Linen Handling Systems and Equipment**

503.2.5, T503.4, 607.1

## REFERENCED STANDARDS

### NFPA—continued

- 85—19: Boiler and Combustion Systems Hazards Code**  
631.1
- 88A—19: Standard for Parking Structures**  
305.9
- 211—19: Standard for the Chimneys, Fireplaces, Vents and Solid Fuel-burning Appliances**  
503.5.2, 503.5.3, 503.5.6.1, 503.5.6.3
- 409—16: Standard for the Aircraft Hangars**  
305.11
- 853—20: Standard Installation of Stationary Fuel Cell Power Systems**  
633.1

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## SMACNA

Sheet Metal and Air Conditioning Contractors' National Association, Inc.  
4201 Lafayette Center Drive  
Chantilly, VA 20151-1219

- SMACNA/ANSI—2016: HVAC Duct Construction Standards—Metal and Flexible, 4th Edition (ANSI)**  
614.10

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## UL

UL LLC  
333 Pfingsten Road  
Northbrook, IL 60062

- 103—2010: Factory-built Chimneys, Residential Type and Building Heating Appliances—with Revisions through March 2017**  
506.1
- 127—2011: Factory-built Fireplaces—with Revisions through July 2016**  
621.7
- 378—2006: Draft Equipment—with revisions through September 2013**  
503.3.3
- 441—2016: Gas Vents—with Revisions through July 2016**  
502.1
- 467-2013: Grounding and Bonding Equipment**  
310.2.5
- 641—2010: Type L Low-temperature Venting Systems—with Revisions through April 2018**  
502.1
- 651—2011: Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings—with Revisions through June 2016**  
403.5.3
- 705—2017: Power Ventilators—with revisions through October 2018**  
614.5
- 795—2016: Commercial-Industrial Gas Heating Equipment**  
610.1, 618.1, 631.1
- 959—2010: Medium Heat Appliance Factory-built Chimneys—with Revisions through June 2014**  
506.3
- 1618—2015: Wall Protectors, Floor Protectors and Hearth Extensions—with Revisions through January 2018**  
308.2
- 1738—2010: Venting Systems for Gas Burning Appliances, Categories II, III and IV**  
502.1, 503.4.1
- 1777—2007: Chimney Liners—with Revisions through April 2014**  
501.12, 501.15.4
- 2158A—2013: Outline of Investigation for Clothes Dryer Transition Duct—with revisions through April 2017**  
614.8.3
- 2200—2012: Stationary Engine Generator Assemblies—with Revisions through October 2015**  
616.1