

IFGC/IFGS CHAPTER 8

REFERENCED STANDARDS

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.

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

ANSI LC 1—(~~2016~~) 2018/CSA 6.26—(~~2016~~) 2018: Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing

403.4.5

ANSI Z21.1—2016/CSA 1.1—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—2016/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

ANSI Z21.11.2—2016: Gas-Fired Room Heaters, Volume II, Unvented Room Heaters

621.1

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

631.1

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

Table 409.1.1

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

625.1

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

411.1, 411.3

REFERENCED STANDARDS

ANSI—continued

ANSI 40.11—1996 (R2017)/CGA 2.91—M96 (R2017): Gas-Fired, Heat-Activated Air-Conditioning and Heat Pump Appliances
627.1

ANSI Z21.40.2—1996 (R2017)/CGA 2.92—M96 (R2017): Gas-Fired Work Activated Air-Conditioning
627.1

ANSI Z21.41—2014/CSA 6.9—2014: Quick Disconnect Devices for Use
411.1

ANSI Z21.42—2013: Gas-Fired Illuminating Appliances
628.1

ANSI Z21.47—2016/CSA 2.3—2016: Gas-Fired Central Furnaces
618.1

ANSI Z21.50—2016/CSA 2.22—2016: Vented Decorative Gas Fireplaces
604.1

ANSI Z21.54—2014/CSA 8.4—2014: Gas Hose Connectors For Portable Outdoor Gas-Fired Appliances
411.1

ANSI Z21.56—2017/CSA 4.7—2017: Gas-Fired Pool Heaters
617.1

Z21.58/CSA 1.6—2015: Outdoor Cooking Gas Appliances
623.1

ANSI Z21.60—2017/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

ANSI Z21.69—2015/CSA 6.16—2015: Connectors for Moveable Gas Appliances
411.1.1, 411.1.4

ANSI Z21.75—2016/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

ANSI Z21.84—2017: Standard for Manually Lighted, Natural Gas, Decorative Gas Appliances for Installation in Solid-Fuel-Burning Appliances
602.1, 602.2

ANSI Z21.86—2016/CSA 2.32—2016: Vented Gas-Fired Space Heating Appliances
608.1, 609.1, 622.1

ANSI Z21.88—2016/CSA 2.33—2016: Vented Gas Fireplace Heaters
605.1

ANSI Z21.91—2017: Ventless Firebox Enclosures for Gas-Fired Unvented Decorative Room Heaters
621.7.1

ANSI Z21.93—2017/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

ANSI Z83.4—2017/CSA 3.7—2017: Non-Recirculating Direct Gas-Fired Heating And Forced Ventilation Appliances for Commercial And Industrial Application
611.1

ANSI Z83.8—2016/CSA 2.6—2016: Gas Unit Heater, Gas Packaged Heaters, Gas Utility Heaters And Gas-Fired Duct Furnaces
610.1, 620.1

ANSI Z83.11—2016/CSA 1.8—2016: Gas Food Service Equipment
623.1

ANSI Z83.18—2017: Recirculating Direct Gas-Fired Heating and Forced Ventilation Appliances for Commercial and Industrial Applications
612.1

ANSI—continued

Z83.19—09(R2014): Gas-fired High-Intensity Infrared Heaters

630.1

ANSI Z83.20—2016/CSA 2.34—2016: Gas-Fired Tubular and Low-Intensity

630.1

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

B16.38-2012(R2017): Large Metallic Valves for Gas Distribution: Manually Operated, NPS 2 1/2 (DN 65) to NPS 12 (DN 300),

125 psig (8.6 bar) Maximum

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

ASSP

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

Z359.1: The Fall Protection Code

306.6

REFERENCED STANDARDS

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 Braze Steel Tubing
403.4.1

A268/A268M—2010(16): Standard Specification for Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service
403.4.2

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 Materials Using a Vertical Tube Furnace at 750 Degrees 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

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—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

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

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

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

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

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

REFERENCED STANDARDS

NFPA—continued

- 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
- 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

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
614.10

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

UL—continued

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

