

CHAPTER 15

REFERENCED STANDARDS

User note:

About this chapter: This code contains numerous references to standards that are used to provide requirements for materials and methods of construction. Chapter 15 contains a comprehensive list of all standards that are referenced in this code. These standards, in essence, are part of this code to the extent of the reference to the standard.

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

Z21.22—99 (R2003): Relief Valves for Hot Water Supply Systems with Addenda Z21.22a—2000 (R2003) and Z21.22b—2001 (R2003)
504.2, 504.4, 504.4.1

ASHRAE

ASHRAE
1791 Tullie Circle NE
Atlanta, GA 30329

ASHRAE 18—2008 (RA13): Method of Testing for Rating Drinking-Water Coolers with Self-contained Mechanical Refrigeration (ANSI/ASHRAE Approved)
410.1

ASME

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

A112.1.2—2012: Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water Connection Receptors)
406.1, 409.2, Table 608.1, 608.14.1

A112.1.3—2000 (R2015): Air Gap Fittings for Use with Plumbing Fixtures, Appliances and Appurtenances
406.1, 409.2, Table 608.1, 608.14.1, 1102.6

A112.3.1—2007 (R2012): Stainless Steel Drainage Systems for Sanitary, DWV, Storm and Vacuum Applications Above and Below Ground
413.1, Table 702.1, Table 702.2, Table 702.3, Table 702.4, Table 1102.4, Table 1102.5, 1102.6, Table 1102.7

ASME A112.3.4—2013/CSA B45.9—2013: Macerating Toilet Systems and Related Components
405.5, 712.4.1

A112.4.1—2009: Water Heater Relief Valve Drain Tubes
504.6

A112.4.2—2015/CSA B45.16—15: Water Closet Personal Hygiene Devices
412.9

A112.4.3—1999 (R2010): Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System
405.4

A112.4.14—2004 (R2016): Manually Operated, Quarter-turn Shutoff Valves for Use in Plumbing Systems
Table 605.7

A112.6.2—2000 (R2016): Framing-affixed Supports for Off-the-floor Water Closets with Concealed Tanks
405.4.3

A112.6.3—2001 (R2016): Floor and Trench Drains
413.1

REFERENCED STANDARDS

ASME—continued

- A112.6.4—2003 (R2012): Roof, Deck, and Balcony Drains**
1102.6
- A112.6.7—2010 (R2015): Sanitary Floor Sinks**
414.1
- A112.6.9—2005 (R2015): Siphonic Roof Drains**
1107.1
- A112.14.1—2003 (R2012): Backwater Valves**
714.2
- A112.14.3—2016: Grease Interceptors**
1003.3.5
- A112.14.4—2001 (R2012): Grease Removal Devices**
1003.3.5
- A112.14.6—2010 (R2015): FOG (Fats, Oils and Greases) Disposal Systems**
1003.3, 1003.3.5, 1003.3.7
- A112.18.1—2017/CSA B125.1—2017: Plumbing Supply Fittings**
412.1, 412.2, 412.3, 412.4, 412.6, 412.8, 605.7, 607.4, 608.2
- A112.18.2—2015/CSA B125.2—15: Plumbing Waste Fittings**
412.1.2
- A112.18.3—2002 (R2012): Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings**
412.2, 412.6
- A112.18.6—2017/CSA B125.6—17: Flexible Water Connectors**
605.6
- A112.18.9—2011: Protectors/Insulators for Exposed Waste and Supplies on Accessible Fixtures**
404.3
- A112.19.1—2013/CSA B45.2—2013: Enameled Cast Iron and Enameled Steel Plumbing Fixtures**
407.1, 410.1, 418.1, 419.1, 422.1
- A112.19.2—2013/CSA B45.1—13: Ceramic Plumbing Fixtures**
401.2, 405.10, 407.1, 408.1, 410.1, 418.1, 419.1, 421.1, 422.1, 424.1, 425.1
- A112.19.3—2008/CSA B45.4—08 (R2013): Stainless Steel Plumbing Fixtures**
405.9, 407.1, 418.1, 419.1, 425.1
- A112.19.5—2017/CSA B45.15—2017: Flush Valves and Spuds for Water-closets, Urinals, and Tanks**
415.4
- A112.19.7M—2017/CSA B45.10—17: Hydromassage Bathtub Systems**
426.1, 426.4
- A112.19.12—2014: Wall Mounted and Pedestal Mounted, Adjustable, Elevating, Tilting and Pivoting Lavatory, Sink and Shampoo Bowl Carrier Systems and Drain Waste Systems**
418.3, 419.4
- A112.19.14-2013: Six-liter Water Closets Equipped with a Dual Flushing Device**
425.1
- A112.19.15—2012: Bathtub/Whirlpool Bathtubs with Pressure Sealed Doors**
407.4, 426.6
- A112.19.19—2006 (R2011): Vitreous China Nonwater Urinals**
424.1
- A112.21.3-1985(R2007): Hydrants for Utility and Maintenance Use**
Table 608.1, 608.14.6
- A112.36.2M—1991(R2012): Cleanouts**
708.1.10.2
- ASSE 1002—2015/ASME A112.1002—2015/CSA B125.12—15: Anti-Siphon Fill Valves**
415.3.1, Table 608.1
- ASSE 1016—2017/ASME A112.1016—2017/CSA B125.16—2017: Performance Requirements for Individual Thermostatic, Pressure Balancing and Combination Control Valves for Individual Fixture Fittings**
412.3, 412.4, 607.4

ASME—continued

ASSE 1037—2015/ASME A112.1037—2015/CSA B125.37—: Pressurized Flushing Devices for Plumbing Fixtures

415.2

ASSE 1070—2015/ASME A112.1070—2015/CSA B125.1070—15: Water Temperature Limiting Devices

408.3, 412.5, 412.10, 419.5, 423.3, 607.1.2

B1.20.1—2013: Pipe Threads, General Purpose (inch)

605.10.3, 605.12.4, 605.14.3, 605.17.1, 605.22.4, 705.2.3, 705.5.4, 705.8.1, 705.10.3, 705.19.1

B16.3—2016: Malleable Iron Threaded Fittings Classes 150 and 300

Table 1102.7

B16.4—2016: Gray Iron Threaded Fittings Classes 125 and 250

Table 605.5, Table 702.4, Table 1102.7

B16.9—2012: Factory-made Wrought Steel Butt-welding Fittings

Table 605.5, Table 702.4, Table 1102.7

B16.11—2016: Forged Fittings, Socket-welding and Threaded

Table 605.5, Table 702.4, Table 1102.7

B16.12—2009 (R2014): Cast-iron Threaded Drainage Fittings

Table 702.4, Table 1102.7

B16.15—2013: Cast Alloy Threaded Fittings: Class 125 and 250

Table 605.5, Table 702.4, Table 1102.7

B16.18—2012: Cast Copper Alloy Solder Joint Pressure Fittings

Table 605.5, Table 702.4, Table 1102.7

B16.22—2013: Wrought Copper and Copper Alloy Solder Joint Pressure Fittings

Table 605.5, Table 702.4, Table 1102.7

B16.23—2016: Cast Copper Alloy Solder Joint Drainage Fittings DWV

Table 702.4, Table 1102.7

B16.26—2016: Cast Copper Alloy Fittings for Flared Copper Tubes

Table 605.5, Table 702.4, Table 1102.7

B16.28—1994: Wrought Steel Butt-welding Short Radius Elbows and Returns

Table 605.5, Table 702.4, Table 1102.7

B16.29—2012: Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings (DWV)

Table 702.4, Table 1102.7

B16.34—2015: Valves Flanged, Threaded and Welding End

Table 605.7

B16.51—2013: Copper and Copper Alloy Press-connect Pressure Fittings

Table 605.5

ASPE

American Society of Plumbing Engineers
6400 Shafer Ct., Suite 350
Rosemont, IL 60018-4914

45—2013: Siphonic Roof Drainage Systems

1107.1

ASSE

ASSE International
18927 Hickory Creek Drive, Suite 220
Mokena, IL 60448

1001—2016: Performance Requirements for Atmospheric Type Vacuum Breakers

415.2, Table 608.1, 608.14.6, 608.17.4.1

ASSE 1002—2015/ASME A112.1002—2015/CSA B125.12—15: Antisiphon Fill Valves

415.3.1, Table 608.1

1003—09: Performance Requirements for Water Pressure Reducing Valves

604.8

1004—2016: Performance Requirements for Commercial Dishwashing Machines

409.1

REFERENCED STANDARDS

ASSE—continued

- 1005—99: Performance Requirements for Water Heater Drain Valves**
501.3
- 1008—06: Performance Requirements for Plumbing Aspects of Food Waste Disposer Units**
413.1
- 1010—04: Performance Requirements for Water Hammer Arresters**
604.9
- 1011—2016: Performance Requirements for Hose Connection Vacuum Breakers**
Table 608.1, 608.14.6
- 1012—09: Performance Requirements for Backflow Preventers with Intermediate Atmospheric Vent**
Table 608.1, 608.14.3, 608.17.2, 608.17.10
- 1013—2017: Performance Requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers**
Table 608.1, 608.14.2, 608.17.2
- 1015—2017: Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies**
Table 608.1, 608.14.7
- ASSE 1016—2017/ASME A112.1016—2017/CSA B125.16—2017: Performance Requirements for Individual Thermostatic, Pressure Balancing and Combination Control Valves for Individual Fixture Fittings**
412.3, 412.4, 607.4
- 1017—2010: Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems**
501.2, 613.1
- 1018—2017: Performance Requirements for Trap Seal Primer Valves; Potable Water Supplied**
1002.4.1.2
- 1019—2016: Performance Requirements for Vacuum Breaker Wall Hydrants, Freeze Resistant, Automatic Draining Type**
Table 608.1, 608.14.6
- 1020—04: Performance Requirements for Pressure Vacuum Breaker Assembly**
Table 608.1, 608.14.5
- 1022—2016: Performance Requirements for Backflow Preventer for Beverage Dispensing Equipment**
Table 608.1, 608.17.1.1, 608.17.1.2
- 1024—2016: Performance Requirements for Dual Check Valve Type Backflow Preventers, Anti-siphon-type, Residential Applications**
605.3.1, Table 608.1, 608.14.9, 608.17.1.2
- 1035—08: Performance Requirements for Laboratory Faucet Backflow Preventers**
Table 608.1, 608.14.6
- ASSE 1037—2015/ASME A112.1037—2015/CSA B125.37—15: Pressurized Flushing Devices for Plumbing Fixtures**
415.2
- 1044—2010: Performance Requirements for Trap Seal Primer Devices Drainage Types and Electronic Design Types**
1002.4.1.3
- 1047—2017: Performance Requirements for Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies**
Table 608.1, 608.14.2
- 1048—2017: Performance Requirements for Double Check Detector Fire Protection Backflow Prevention Assemblies**
Table 608.1, 608.14.7
- 1049—2009: Performance Requirements for Individual and Branch Type Air Admittance Valves for Chemical Waste Systems**
901.3, 918.8
- 1050—2009: Performance Requirements for Stack Air Admittance Valves for Sanitary Drainage Systems**
918.1
- 1051—2009: Performance Requirements for Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems-
fixture and Branch Devices**
918.1
- 1052—2016: Performance Requirements for Hose Connection Backflow Preventers**
Table 608.1, 608.14.6
- 1055—2016: Performance Requirements for Chemical Dispensing Systems**
608.14.8

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- 1056—2013: Performance Requirements for Spill Resistant Vacuum Breaker**
Table 608.1, 608.14.5
- 1060—2016: Performance Requirements for Outdoor Enclosures for Fluid Conveying Components**
608.15.1
- 1061—2015: Performance Requirements for Push Fit Fittings**
Table 605.5, 604.13.7, 605.14.4, 605.16.3
- 1062—2016: Performance Requirements for Temperature Actuated, Flow Reduction (TAFR) Valves to Individual Supply Fittings**
424.7
- 1066—2016: Performance Requirements for Individual Pressure Balancing In-line Valves for Individual Fixture Fittings**
604.11
- 1069—05: Performance Requirements for Automatic Temperature Control Mixing Valves**
412.4
- ASSE 1070—2015/ASME A112.1070—2015/CSA B125.70—15: Water-temperature Limiting Devices**
408.3, 419.5, 423.3, 424.5, 607.1.2
- 1071—2012: Performance Requirements for Temperature Actuated Mixing Valves for Plumbed Emergency Equipment**
411.3, 412.5, 412.10, 419.5, 423.3, 607.1.2
- 1072—07: Performance Requirements for Barrier Type Floor Drain Tap Seal Protection Devices**
1002.4.14
- 1079—2005: Performance Requirements for Dielectric Pipe Unions**
605.23.1, 605.23.3
- 5013—2015: Performance Requirements for Testing Reduced Pressure Principle Backflow Prevention Assembly (RPA) and Reduced Pressure Fire Protection Backflow Preventers (RFP)**
312.10.2
- 5015—2015: Performance Requirements for Testing Double Check Valve Backflow Prevention Assemblies (DC) and Double Check Fire Protection Backflow Prevention Assemblies (DCF)**
312.10.2
- 5020—2015: Performance Requirements for Testing Pressure Vacuum Breaker Assemblies (PVBA)**
312.10.2
- 5047—2015: Performance Requirements for Testing Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies (RPDA)**
312.10.2
- 5048—2015: Performance Requirements for Testing Double Check Valve Detector Assembly (DCDA)**
312.10.2
- 5052—98: Performance Requirements for Testing Hose Connection Backflow Preventers**
312.10.2
- 5056—2015: Performance Requirements for Testing Spill Resistant Vacuum Breaker (SRVB)**
312.10.2

ASTM

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

- A53/A53M—12: Specification for Pipe, Steel, Black and Hot-dipped, Zinc-coated Welded and Seamless**
Table 605.3, Table 605.4, Table 702.1
- A74—15: Specification for Cast-iron Soil Pipe and Fittings**
Table 702.1, Table 702.2, Table 702.3, Table 702.4, 708.1.6, 708.7, Table 1102.4, Table 1102.5, Table 1102.7
- A312/A312M—15a: Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes**
Table 605.3, Table 605.4, Table 605.5, 605.22.2
- A733—15: Specification for Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples**
Table 605.8
- A778/A778M—15: Specification for Welded Unannealed Austenitic Stainless Steel Tubular Products**
Table 605.3, Table 605.4, Table 605.5

REFERENCED STANDARDS

ASTM—continued

- A888—15: Specification for Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Application**
Table 702.1, Table 702.2, Table 702.3, Table 702.4, 708.7, Table 1102.4, Table 1102.5, Table 1102.7
- B32—08(2014): Specification for Solder Metal**
605.12.3, 605.13.6, 705.5.3, 705.6.1, 705.17.3
- B42—15a: Specification for Seamless Copper Pipe, Standard Sizes**
Table 605.3, Table 605.4, Table 702.1
- B43—15: Specification for Seamless Red Brass Pipe, Standard Sizes**
Table 605.4, Table 702.1
- B75/B75M—11: Specification for Seamless Copper Tube**
Table 605.3, Table 605.4, Table 702.1, Table 702.2, Table 702.3, Table 1102.4
- B88—14: Specification for Seamless Copper Water Tube**
Table 605.3, Table 605.4, Table 702.1, Table 702.2, Table 702.3, Table 1102.4
- B152/B152M—13: Specification for Copper Sheet, Strip Plate and Rolled Bar**
402.3, 415.3.3, 422.5.2.4, 902.2
- B251—10: Specification for General Requirements for Wrought Seamless Copper and Copper-alloy Tube**
Table 605.3, Table 605.4, Table 702.1, Table 702.2, Table 702.3, Table 1102.4
- B302—12: Specification for Threadless Copper Pipe, Standard Sizes**
Table 605.3, Table 605.4, Table 702.1
- B306—13: Specification for Copper Drainage Tube (DWV)**
Table 702.1, Table 702.2, Table 1102.4
- B447—12a: Specification for Welded Copper Tube**
Table 605.3, Table 605.4
- B687—99(2011): Specification for Brass, Copper and Chromium-plated Pipe Nipples**
Table 605.8
- B813—10: Specification for Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube**
605.12.3, 605.13.6, 705.5.3, 705.6.1, 705.7.3
- B828—02(2010): Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings**
605.12.3, 605.13.6, 705.5.3, 705.6.1, 705.17.3
- C4—04(2014): Specification for Clay Drain Tile and Perforated Clay Drain Tile**
Table 702.3, Table 1102.4, Table 1102.5
- C14—15a: Specification for Nonreinforced Concrete Sewer, Storm Drain and Culvert Pipe**
Table 702.3, Table 1102.4
- C76—15a: Specification for Reinforced Concrete Culvert, Storm Drain and Sewer Pipe**
Table 702.3, Table 1102.4
- C425—04(2013): Specification for Compression Joints for Vitrified Clay Pipe and Fittings**
705.11, 705.16
- C443—12: Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets**
705.4, 705.16
- C564—14: Specification for Rubber Gaskets for Cast-iron Soil Pipe and Fittings**
705.3.2, 705.3.3, 705.16
- C700—13: Specification for Vitrified Clay Pipe, Extra Strength, Standard Strength, and Perforated**
Table 702.3, Table 702.4, Table 1102.4, Table 1102.5
- C1053—00(2010): Specification for Borosilicate Glass Pipe and Fittings for Drain, Waste, and Vent (DWV) Applications**
Table 702.1, Table 702.4
- C1173—10(2014): Specification for Flexible Transition Couplings for Underground Piping System**
705.2.1, 705.5, 705.10.1, 705.11, 705.12.2, 705.16
- C1277—15: Specification for Shielded Coupling Joining Hubless Cast-iron Soil Pipe and Fittings**
705.3.3
- C1440—08(2013): Specification for Thermoplastic Elastomeric (TPE) Gasket Materials for Drain, Waste, and Vent (DWV), Sewer, Sanitary and Storm Plumbing Systems**
705.16

ASTM—continued

- C1460—2012: Specification for Shielded Transition Couplings for Use with Dissimilar DWV Pipe and Fittings Above Ground**
705.16
- C1461—08(2013): Specification for Mechanical Couplings Using Thermoplastic Elastomeric (TPE) Gaskets for Joining Drain, Waste and Vent (DWV) Sewer, Sanitary and Storm Plumbing Systems for Above and Below Ground Use**
705.19
- C1540—15: Specification for Heavy Duty Shielded Couplings Joining Hubless Cast-iron Soil Pipe and Fittings**
705.3.3
- C1563—08(2013): Standard Test Method for Gaskets for Use in Connection with Hub and Spigot Cast Iron Soil Pipe and Fittings for Sanitary Drain, Waste, Vent and Storm Piping Applications**
705.3.2
- D1253—14: Standard Test Method For Residual Chlorine in Water**
1301.2.1, 1303.9
- D1527—99(2005): Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe, Schedules 40 and 80**
Table 605.3
- D1785—15: Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80 and 120**
Table 605.3
- D2235—04(2011): Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings**
605.10.2, 705.2.2, 705.7.2
- D2239—12a: Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Controlled Inside Diameter**
Table 605.3
- D2241—15: Specification for Poly (Vinyl Chloride) (PVC) Pressure-rated Pipe (SDR-Series)**
Table 605.3
- D2282—99(2005): Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe (SDR-PR)**
Table 605.3
- D2464—15: Specification for Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80**
Table 605.5, 605.21.3
- D2466—15: Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40**
Table 605.5
- D2467—15: Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80**
Table 605.5
- D2468—96a: Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe Fittings, Schedule 40**
Table 605.5
- D2564—12: Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems**
605.21.3, 705.10.2, 705.14.2
- D2609—15: Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe**
Table 605.5
- D2657—07: Practice for Heat Fusion-joining of Polyolefin Pipe and Fitting Waste, and Vent Pipe and Fittings**
605.18.2, 705.12.1
- D2661—14: Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings**
Table 702.1, Table 702.2, Table 702.3, Table 702.4, 705.2.2, 705.7.2, Table 1102.4, Table 1102.7
- D2665—14: Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings**
Table 702.1, Table 702.2, Table 702.3, Table 702.4, Table 1102.4, Table 1102.7
- D2672—14: Specification for Joints for IPS PVC Pipe Using Solvent Cement**
Table 605.3
- D2683—14: Standard Specification for Socket-type Polyethylene Fittings for Outside Diameter-controlled Polyethylene Pipe and Tubing**
Table 605.5, Table 702.4, 716.5
- D2729—11: Specification for Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings**
Table 1102.5, Table 1403.2
- D2737—2012a: Specification for Polyethylene (PE) Plastic Tubing**
Table 605.3
- D2751—05: Specification for Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings**
Table 702.3, Table 702.4, Table 1102.7

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- D2846/D2846M—14: Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems**
Table 605.3, Table 605.4, Table 605.5, 605.14.2, 605.15.2
- D2855—96(2010): Standard Practice for Making Solvent-cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings**
605.21.3, 705.10.2
- D2949—10: Specification for 3.25-in. Outside Diameter Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings**
Table 702.1, Table 702.2, Table 702.3, Table 702.4, Table 1102.7
- D3034—14a: Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings**
Table 702.3, Table 702.4, Table 1102.4, Table 1102.5, Table 1102.7
- D3035—15: Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter**
Table 605.3
- D3138—04(2011): Standard Specification for Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Non-pressure Piping Components**
Table 705.16.4
- D3139—98(2011): Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals**
605.10.1, 605.22.1
- D3212—07(2013): Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals**
705.2.1, 705.10.1, 705.12.2, 705.15
- D3261—12e1: Specification for Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing**
Table 605.5
- D3311—11: Specification for Drain, Waste and Vent (DWV) Plastic Fittings Patterns**
Table 1102.7
- D4068—15: Specification for Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-containment Membrane**
422.5.2.2
- D4551—12: Specification for Poly (Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-containment Membrane**
421.5.2.1
- E2635—14: Standard Practice for Water Conservation Through In-Situ Water Reclamation**
1302.1
- E2727—10e1: Standard Practice for the Assessment of Rainwater Quality**
1303.15.9
- F405—05: Specification for Corrugated Polyethylene (PE) Pipe and Fittings**
Table 1102.5, Table 1403.2
- F409—12: Specification for Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings**
412.1.2, Table 1102.7
- F437—15: Specification for Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80**
Table 605.5
- F438—15: Specification for Socket-type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40**
Table 605.5
- F439—13: Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80**
Table 605.5
- F441/F441M—15: Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80**
Table 605.3, Table 605.4
- F442/F442M—13e1: Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR)**
Table 605.3, Table 605.4
- F477—14: Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe**
605.23, 705.16
- F493—14: Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings**
605.14.2, 605.15.2
- F628—12e1: Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe with a Cellular Core**
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- F656—15: Specification for Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings**
605.21.3, 705.10.2, 705.14.2

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- F667—12: Standard Specification for 3 through 24 in. Corrugated Polyethylene Pipe and Fittings**
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- F714—2013: Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter**
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- F876—15a: Specification for Cross-linked Polyethylene (PEX) Tubing**
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- F877—11a: Specification for Cross-linked Polyethylene (PEX) Hot- and Cold-water Distribution Systems**
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- F891—10: Specification for Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe with a Cellular Core**
Table 702.1 Table 702.2, Table 702.3, Table 1102.4, Table 1102.5, Table 1102.7
- F1055—13: Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and Cross-linked Polyethylene Pipe and Tubing**
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- F1281—11: Specification for Cross-linked Polyethylene/Aluminum/ Cross-linked Polyethylene (PEX-AL-PEX) Pressure Pipe**
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- F1282—10: Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe**
Table 605.3, Table 605.4, Table 605.5, 605.20.1
- F1412—09: Specification for Polyolefin Pipe and Fittings for Corrosive Waste Drainage**
Table 702.1, Table 702.2, Table 702.4, 705.13.1, 901.3
- F1476—07(2013): Standard Specification for Performance of Gasketed Mechanical Couplings for Use in Piping Applications**
Table 605.5, 605.13.3, 605.17.3, 605.22.2, 605.22.3
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- F1673—10: Standard Specification for Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems**
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- F1807—15: Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing**
Table 605.5
- F1866—13: Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings**
Table 702.4, Table 1102.7
- F1960—15: Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing**
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- F1970—12e1: Special Engineered Fittings, Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) OR Chlorinated Poly (Vinyl Chloride) (CPVC) Systems**
Table 605.7
- F1974—09(2015): Specification for Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene Composite Pressure Pipe**
Table 605.5, 605.20.1
- F1986—01(2011): Specification for Multilayer Pipe, Type 2, Compression Fittings and Compression Joints for Hot and Cold Drinking Water Systems**
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- F2080—15: Specifications for Cold-expansion Fittings with Metal Compression-sleeves for Cross-linked Polyethylene (PEX) Pipe**
Table 605.5
- F2098—08: Standard Specification for Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing to Metal Insert and Plastic Fittings**
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- F2159—14: Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing**
Table 605.5

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- F2306/F2306M—14e1: 12" to 60" Annular Corrugated Profile-wall Polyethylene (PE) Pipe and Fittings for Gravity Flow Storm Sewer and Subsurface Drainage Applications**
Table 1102.4, Table 1102.7
- F2389—15: Specification for Pressure-rated Polypropylene (PP) Piping Systems**
Table 605.3, Table 605.4, Table 605.5, Table 605.7, 605.19.1
- F2434—14: Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Cross-linked Polyethylene/Aluminum/ Cross-linked Polyethylene (PEX AL-PEX) Tubing**
Table 605.5
- F2648/F2648M—13: Standard Specification for 2 to 60 inch [50 to 1500 mm] Annular Corrugated Profile Wall Polyethylene (PE) Pipe and Fittings for Land Drainage Applications**
Table 1102.4
- F2735—09: Standard Specification for Plastic Insert Fittings for SDR9 Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing**
Table 605.5
- F2736—13e1: Standard Specification for 6 to 30 in. [152 to 762 mm] Polypropylene (PP) Corrugated Single Wall Pipe and Double Wall Pipe**
Table 702.3
- F2764/F2764M—11ae2: Standard Specification for 30 to 60 in. [750 to 1500 mm] Polypropylene (PP) Triple Wall Pipe and Fittings for Non-pressure Sanitary Sewer Applications**
Table 702.3
- F2769—14: Polyethylene or Raised Temperature (PE-RT) Plastic Hot- and Cold-water Tubing and Distribution Systems**
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- F2831—12: Standard Practice for Internal Non Structural Epoxy Barrier Coating Material Used in Rehabilitation of Metallic Pressurized Piping Systems**
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- F2855—12: Standard Specification for Chlorinated Poly (Vinyl Chloride)/Aluminum/Chlorinated Poly (Vinyl Chloride) (CPVC/AL/CPVC) Composite Pressure Tubing**
Table 605.3, Table 605.4
- F2881—11: Standard Specification for 12 to 60 in. [300 to 1500 mm] Polypropylene (PP) Dual Wall Pipe and Fittings for Non-pressure Storm Sewer Applications**
Table 1102.4

AWS

American Welding Society
8669 NW 36 Street, #130
Miami, FL 33166

- A5.8M/A5.8—2011: Specifications for Filler Metals for Brazing and Braze Welding**
605.12.1, 605.13.1, 705.5.1, 705.6.1

AWWA

American Water Works Association
6666 West Quincy Avenue
Denver, CO 80235

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605.11
- C115/A21.15—11: Flanged Ductile-iron Pipe with Ductile-iron or Gray-iron Threaded Flanges**
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- C151/A21.51—09: Ductile-iron Pipe, Centrifugally Cast for Water**
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- C500—09: Standard for Metal-seated Gate Valves for Water Supply Service**
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- C504—10: Standard for Rubber-Seated Butterfly Valves**
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- C507—15: Standard for Ball Valves, 6 In. Through 60 in. (150 mm through 1,500 mm).**
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- C510—07: Double Check Valve Backflow Prevention Assembly**
Table 608.1, 608.14.7
- C511—07: Reduced-pressure Principle Backflow Prevention Assembly**
Table 608.1, 608.14.2, 608.17.2
- C651—14: Disinfecting Water Mains**
610.1
- C652—11: Disinfection of Water-storage Facilities**
610.1
- C901—16: Polyethylene (PE) Pressure Pipe and Tubing ³/₄ inch (19 mm) Through 3 inch (76 mm) for Water Service**
Table 605.3
- C904—16: Cross-linked Polyethylene (PEX) Pressure Tubing ¹/₂ inch (13 mm) Through 3 inch (76 mm) for Water Service**
Table 605.3

CISPI

Cast Iron Soil Pipe Institute
2401 Fieldcrest Dr.
Mundelein, IL 60060

- 301—12: Specification for Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications**
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- 310—12: Specification for Coupling for Use in Connection with Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications**
705.3.3

CSA

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

- A257.1M—14: Non-reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings**
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- A257.2M—14: Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings**
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- A257.3M—14: Joints for Circular Concrete Sewer and Culvert Pipe, Manhole Sections and Fittings Using Rubber Gaskets**
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- ASME A112.18.1—2017/CSA B125.1—17: Plumbing Supply Fittings**
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- ASSE 1070—2015/ASME A112.1070—2015/CSA B125.1070—2015: Water Temperature Limiting Devices**
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- B64.1.1—16: Vacuum Breakers, Atmospheric Type (AVB)**
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- B64.1.2—16: Pressure Vacuum Breakers, (PVB)**
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- B64.1.3—16: Spill Resistant Pressure Vacuum Breakers (SRPVB)**
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- B64.2.1.1—16: Hose Connection Dual Check Vacuum Breakers (HCDVB)**
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- B64.3—16: Backflow Preventers, Dual Check Valve Type with Atmospheric Port (DCAP)**
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- B64.4—16: Backflow Preventers, Reduced Pressure Principle Type (RP)**
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- B64.4.1—16: Reduced Pressure Principle for Fire Sprinklers (RPF)**
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- B64.5—16: Double Check Backflow Preventers (DCVA)**
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- B64.6—16: Dual Check Valve (DuC) Backflow Preventers**
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- B137.2—16: Polyvinylchloride, PVC, Injection-moulded Gasketed Fittings for Pressure Applications**
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- B137.3—16: Rigid Poly (Vinyl Chloride) (PVC) Pipe for Pressure Applications**
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- B137.6—16: CPVC Pipe, Tubing and Fittings for Hot- and Cold-water Distribution Systems**
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- B137.9—16: Polyethylene Aluminum/Polyethylene (PE-AL-PE) Composite Pressure-pipe Systems**
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- B137.11—16: Polypropylene (PP-R) Pipe and Fittings for Pressure Applications**
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- B181.1—15: Acrylonitrile-Butadiene-Styrene ABS Drain, Waste and Vent Pipe and Pipe Fittings**
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- B182.4—15: Profile Polyvinylchloride PVC Sewer Pipe and Fittings**
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- B182.6—15: Profile Polyethylene (PE) Sewer Pipe and Fittings for Leak-proof Sewer Applications**
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- B182.8—15: Profile Polyethylene (PE) Storm Sewer and Drainage Pipe and Fittings**
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- B182.13—11: Profile Polypropylene (PP) Sewer Pipe and Fittings for Leak-proof Sewer Applications**
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- B481.1—12: Testing and Rating of Grease Interceptors Using Lard**
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- B481.3—12: Sizing, Selection, Location and Installation of Grease Interceptors**
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- B483.1—07(R2012): Drinking Water Treatment Units**
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- B602—15: Mechanical Couplings for Drain, Waste and Vent Pipe and Sewer Pipe**
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IAPMO

IAPMO Group
4755 E. Philadelphia Street
Ontario, CA 91761 USA

Z1001—2014: Prefabricated Gravity Grease Interceptors
1003.3.7

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ICC

International Code Council, Inc.
500 New Jersey Ave, NW
6th Floor
Washington, DC 20001

A117.1—2009: Accessible and Usable Buildings and Facilities
404.2, 410.3

IBC—18: International Building Code®
201.3, 202, 307.1, 307.2, 307.3, 308.2, 309.1, 309.2, 310.1, 310.3, 315.1, 403.1, Table 403.1, 403.1.2,
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IEBC—18: International Existing Building Code
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IECC—18: International Energy Conservation Code®
313.1, 607.2.1, 607.5

IFC—18: International Fire Code®
201.3, 1201.1, 1301.1.1

IFGC—18: International Fuel Gas Code®
101.2, 201.3, 502.1, 502.1.1

IMC—18: International Mechanical Code®
201.3, 307.6, 310.1, 502.1, 502.1.1, 612.1, 1202.1

IPSDC—18: International Private Sewage Disposal Code®
701.2

IRC—18: International Residential Code®
101.2

ICC 900/SRCC 300—2015: Solar Thermal System Standard
502.1

ISEA

International Safety Equipment Association
1901 N. Moore Street, Suite 808
Arlington, VA 22209

ANSI/ISEA Z358.1—2014: Emergency Eyewash and Shower Equipment
411.1

MSS

Manufacturers Standardization Society of the Valve and Fittings Industry, Inc.
127 Park St. NE
Vienna, VA 22180-4602

SP-67—2011: Butterfly Valves
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SP-70—2013: Gray Iron Gate Valves, Flanged and Threaded Ends
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SP-71—2013: Gray Iron Swing Check Valves, Flanged and Threaded Ends
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SP-72—2010a: Ball Valves with Flanged or Butt-welding Ends for General Service

Table 605.7

SP-78—2013: Cast Iron Plug Valves, Flanged and Threaded Ends

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SP-110—2010a: Ball Valves, Threaded, Socket Welding, Solder Joint, Grooved and Flared Ends

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SP-122—2012: Plastic Industrial Ball Valves

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SP-139—2014: Copper Alloy Gate, Globe, Angle and Check Valves for Low Pressure/Low Temperature Plumbing Applications

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NFPA

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

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

1203.1

55—16: Compressed Gases and Cryogenic Fluids Code

1203.1

70—17: National Electric Code

502.1, 504.3, 1113.1.3

99—18: Health Care Facilities Code

1202.1

NGWA

National Ground Water Association
601 Dempsey Road
Westerville, OH 43081

ANSI/NGWA 01—14: Water Well Construction Standard

602.3.1

NSF

NSF International
789 N. Dixboro Road
P.O. Box 130140
Ann Arbor, MI 48105

3—2012: Commercial Warewashing Equipment

409.1

14—2015: Plastic Piping System Components and Related Materials

303.3, 611.3

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426.1

42—2015: Drinking Water Treatment Units-Aesthetic Effects

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PDI

Plumbing and Drainage Institute
800 Turnpike Street, Suite 300
North Andover, MA 01845

- PDI G101 (2012): Testing and Rating Procedure for Grease Interceptors with Appendix of Sizing and Installation Data**
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PSAI

Portable Sanitation Association International
2626 E. 82nd Street, Suite 175
Bloomington, MN 55425

- PSAI/ANSI Z4.3—16: Minimum Requirements for Nonsewered Waste-disposal Systems**
311.1

TCNA

Tile Council of North America
100 Clemson Research Boulevard
Anderson, SC 29625

- TCNA/ANSI A118.10—99: Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin Set Ceramic Tile and Dimension Stone Installation**
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UL

UL LLC
333 Pfingsten Road
Northbrook, IL 60062-2096

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410.1
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- 508—99: Industrial Control Equipment—with revisions through October 2013**
314.2.3
- 1795—2009: Hydromassage Bathtubs—with revisions through January 2015**
426.1