City of Los Angeles
Department of Building and Safety

MECHANICAL TESTING LABORATORY

LIST OF APPROVED
LISTING AND TESTING AGENCIES

March 10, 2020

Part I: Approved Listing Agencies
Part II: Approved Testing Agencies

201 N. Figueroa Street, Suite 500
Los Angeles, CA 90012
Phone: (213) 482-0065
www.ladbs.org

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request will provide reasonable accommodation to ensure equal access to its programs, services and activities.
Part I: Approved Listing Agencies

1. CSA Group Testing & Certification Inc.

(Main Lab) 178 Rexdale Boulevard
Toronto, ON M9W 1R3
Canada
Phone: (416) 747-2798

(Branch Lab) CSA America Testing & Certification LLC
8501 E. Pleasant Valley Road
Cleveland, OH 44131
Phone: (216) 524-4990

(Branch Lab)
No. 10, Keyan Road, Science Park
Luo Gang District, Guangzhou
Guangdong 510663
People’s Republic of China

Expiration: May 1, 2020

This agency is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2017 Edition:

This agency is also approved for listing of plumbing products to meet the lead-free requirements of Section 116875 of the California Health and Safety Code (Toronto location only).

Mechanical

ASME B16.33
Manually Operated Metallic Gas
Valves for Use in Gas Piping
Systems up to 175 PSI (Sizes
NPS 1/2 Through NPS 2)

CSA Z21.1b
Household Cooking Gas
Appliances

CSA Z21.5.1a
Gas Clothes Dryers- Volume I,
Type 1 Clothes Dryers (same as
CSA 7.1a)

CSA Z21.5.2
Gas Clothes Dryers- Volume II,
Type 2 Clothes Dryers (same as
CSA 7.2)

CSA Z21.11.2
Gas-Fired Room Heaters,
Volume II, Unvented Room
Heaters

CSA Z21.12b
Draft Hoods

CSA Z21.13
Gas-Fired Low Pressure Steam
and Hot Water Boilers (same as
CSA 4.9)

CSA Z21.19a
Refrigerators Using Gas Fuel
(same as CSA 1.4a)

CSA Z21.20a
Automatic Gas Ignition Systems
and Components

CSA Z21.23
Gas Appliance Thermostats

CSA Z21.24a
Connectors for Gas Appliances
(same as CSA 6.10a)

CSA Z21.40.1a/CGA 2.91a
Gas-Fired, Heat Activated Air-
Conditioning and Heat Pump
Appliances

CSA Z21.41
Quick Disconnect Devices for
Use with Gas Fuel Appliances
(same as CSA 6.9)

CSA Z21.42
Gas-Fired Illuminating Appliances

CSA Z21.61
Gas-Fired Toilets

CSA Z21.66/CGA 6.14
Automatic Vent Damper Devices
for Use with Gas-Fired
Appliances

CSA Z21.71a
Automatic Intermittent Pilot
Ignition Systems for Field
Installation
CSA Z21.90b
Gas Convenience Outlets and Optional Enclosures (same as 6.24b)

CSA Z83.11b
Gas Food Service Equipment (Same as CSA 1.8b)

CSA Z83.18
Recirculating Direct Gas-Fired Industrial Air Heaters

CSA Z83.19a
Gas-Fired High-Intensity Infrared Heaters (same as CSA 2.35a)

UL 21
LP-Gas Hose

UL 125
Flow Control Valves for Anhydrous Ammonia and LP-Gas

UL 144
LP-Gas Regulators

UL 252
Compressed Gas Regulators

UL 296
Oil Burners

UL 343
Pumps for Oil-Burning Appliances

UL 353
Limit Controls

UL 378
Draft Equipment

UL 391
Solid-Fuel and Combination-Fuel Central and Supplementary Furnaces

UL 429
Electrically Operated Valves

UL 441
Gas Vents

UL 536
Flexible Metallic Hose

UL 569
Pigtails and Flexible Hose Connectors for LP-Gas

UL 726
Oil-Fired Boiler Assemblies

UL 727
Oil-Fired Central Furnaces

UL 729
Oil-Fired Floor Furnaces

UL 730
Oil-Fired Wall Furnaces

UL 731
Oil-Fired Unit Heaters

UL 732
Oil-Fired Storage Tank Water Heaters

UL 733
Oil-Fired Air Heaters and Direct-Fired Heaters

UL 795
Commercial-Industrial Gas Heating Equipment

UL 896
Oil-Burning Stoves

UL 1482
Solid-Fuel Type Room Heaters

UL 1995
Heating and Cooling Equipment

Plumbing

ASCE 25
Earthquake-Actuated Automatic Gas Shutoff Devices

ASME A112.3.4/CSA B45.9
Plumbing Fixtures with Pumped Waste and Macerating Toilet Systems

ASME A112.4.14
Manually Operated Quarter-turn Shutoff Valves for Use in Plumbing Systems

ASME A112.18.1/CSA B125.1
Plumbing Supply Fittings

ASME A112.18.2/CSA B125.2
Plumbing Waste Fittings

ASME A112.18.3
Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings

ASME A112.19.2/CSA B45.1
Ceramic Plumbing Fixtures

ASME A112.19.3/CSA B45.4
Stainless Steel Plumbing Fixtures

ASME A112.19.5
Flush Valves and Spuds for Water Closets, Urinals and Tanks

ASME A112.19.7/CSA B45.10
Hydromassage Bathtub Systems

ASME A112.19.10
Dual Flush Devices for Water Closets

ASME B16.33
Manually Operated Metallic Gas Valves for Use in Gas Piping Systems up to 175 PSI (Sizes NPS 1/2 Through NPS 2)

ASME B16.40
Manually Operated Thermoplastic Gas Shutoffs and Valves in Gas Distribution Systems

ASSE 1001
Atmospheric Type Vacuum Breakers

ASSE 1002
Anti-Siphon Fill Valves for Water Closet Tanks

ASSE 1003
Water Pressure Reducing Valves for Domestic Water Distribution Systems

ASSE 1010
Water Hammer Arrestors

ASSE 1011
Hose Connection Vacuum Breakers

ASSE 1012
Backflow Preventers with an Intermediate Atmospheric Vent

ASSE 1013
Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers

ASSE 1014
Backflow Prevention Devices for Hand-Held Showers
ASSE 1015
Double Check Backflow Prevention Assemblies and Double Check Fire Prevention Backflow Prevention Assemblies

ASSE 1016
Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves - Potable Water Supplied

ASSE 1019
Wall Hydrant with Backflow Protection and Freeze Resistance

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1022
Backflow Preventer for Beverage Dispensing Equipment

ASSE 1024
Dual Check Backflow Preventers

ASSE 1035
Laboratory Faucet Backflow Preventers

ASSE 1037
Pressurized Flushing Devices (Flushometers) For Plumbing Fixtures

ASSE 1044
Trap Seal Primer Devices - Drainage Types and Electronic Design Types

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052
Hose Connection Backflow Preventers

ASSE 1056
Spill Resistant Vacuum Breakers

ASSE 1061
Push-Fit Fittings

ASSE 1062
Temperature Actuated, Flow Reduction (TAFR) Valves for Individual Supply Fittings

ASSE 1066
Individual Pressure Balancing In-Line Valves for Individual Fixture Fittings

ASSE 1069
Automatic Temperature Control Mixing Valves

ASSE 1070
Water Temperature Limiting Devices

ASTM C1173
Flexible Transition Couplings for Underground Piping Systems

ASTM C1277
Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings

ASTM C1460
Shielded Transition Couplings For Use With Dissimilar DWV Pipe and Fittings Above Ground

ASTM D2235
Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings

ASTM D2466
Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40

ASTM D2564
Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Fittings

ASTM D2661
Acrylonitrile-Butadiene Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings

ASTM D2665
Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings

ASTM D2683
Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing

ASTM D3034
Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings

ASTM D3138
Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Non-Pressure Piping Components

ASTM F493
Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings

CISPI 310
Coupling for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications

CSA B45.0
General Requirements for Plumbing Fixtures

CSA B45.5
Plastic Plumbing Fixtures

CSA B64
Backflow Preventers and Vacuum Breakers

CSA B64.1.1
Atmospheric Vacuum Breakers (AVB)

CSA B64.1.2
Pressure Vacuum Breakers (PVB)

CSA B64.2
Hose Connection Vacuum Breakers (HCVB)

CSA B64.2.1.1
Hose Connection Dual Check Vacuum Breakers (HCDVB)

CSA B64.4
Reduced Pressure Principle (RP) Backflow Preventers

CSA B64.4.1
Reduced Pressure Principle Backflow Preventers for Fire Protection Systems (RPF)

CSA B64.5
Double Check Valve (DCVA) Backflow Preventers

CSA B64.5.1
Double Check Valve Backflow Preventers for Fire Protection Systems (DCVAF)
CSA B64.7
Laboratory Faucet Vacuum Breakers (LFVB)

CSA B79
Commercial and Residential Drains and Cleanouts

CSA B125.3
Plumbing Fittings

CSA B181.3
Polyolefin and Polyvinylidene Fluoride (PVDF) Laboratory Drainage Systems

CSA B356
Water Pressure Reducing Valves for Domestic Water Supply Systems

CSA LC 1b
Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST) (same as CSA 6.26b)

CSA LC 4a
Press-Connect Metallic Fittings For Use in Fuel Gas Distribution Systems (same as CSA 6.32a)

CSA Z21.10.1
Gas Water Heaters-Volume I, Storage Water Heaters With Input Ratings of 75,000 Btu Per Hour or Less (same as CSA 4.1)

CSA Z21.12b
Draft Hoods

CSA Z21.13
Gas-Fired Low Pressure Steam and Hot Water Boilers (same as CSA 4.9)

CSA Z21.22b
Relief Valves for Hot Water Supply Systems (same as CSA 4.4b)

CSA Z21.24a
Connectors for Gas Appliances (same as CSA 6.10a)

CSA Z21.40.1a
Gas-Fired, Heat Activated Air-Conditioning and Heat Pump Appliances (same as CGA 2.91a)

CSA Z21.41
Quick-Disconnect Devices for Use with Gas Fuel Appliances (same as CSA 6.9)

CSA Z21.47
Gas-Fired Central Furnaces (same as CSA 2.3)

CSA Z21.56
Gas-Fired Pool Heaters (same as CSA 4.7)

CSA Z21.86
Vented Gas-Fired Space Heating Appliances (same as CSA 2.32)

CSA Z83.11b
Gas Food Service Equipment (same as CSA 1.8b)

IAPMO PS 90
Elastomeric Test Caps, Cleanout Caps, and Combination Test Caps / Shielded Couplings

IAPMO Z124.5
Plastic Toilet Seats

NSF 41
Non-Liquid Saturation Treatment Systems

NSF 42
Drinking Water Treatment Units - Aesthetic Effects
# Certification Marks:

<table>
<thead>
<tr>
<th>CSA Mark</th>
<th>Type of Mark/Label</th>
<th>CSA Mark/Label Definition</th>
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</thead>
<tbody>
<tr>
<td><img src="image" alt="C US" /></td>
<td>Certification mark</td>
<td>Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.</td>
</tr>
<tr>
<td><img src="image" alt="C US" /></td>
<td>Certification mark</td>
<td>Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.</td>
</tr>
<tr>
<td><img src="image" alt="DESIGN CERTIFIED" /></td>
<td>Certification mark</td>
<td>Indicates that the product was tested and has met the certification requirements for gas-fired products.</td>
</tr>
<tr>
<td><img src="image" alt="LLC" /></td>
<td>Certification mark</td>
<td>Indicates the product was tested and has met low lead content requirements.</td>
</tr>
<tr>
<td><img src="image" alt="LOW LEAD CONTENT" /></td>
<td>Certification mark</td>
<td>Indicates the product was tested and has met low lead content requirements.</td>
</tr>
</tbody>
</table>
| ![Drinking Water](image) | Certification mark | Indicates that the product was tested and has met the Drinking Water requirements.  
Applicable NSF/ANSI and/or CSA Group standard is listed under DRINKING WATER. |
<table>
<thead>
<tr>
<th><img src="image1" alt="Field certification label" /></th>
<th>Indicated that the product was tested and has met the certification and regional installation requirements for products.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image2" alt="Field certification label" /></td>
<td>Indicated that the product was tested and has met the certification and regional installation requirements for products.</td>
</tr>
<tr>
<td><img src="image3" alt="Field certification label" /></td>
<td>Indicated that the gas-fired product was tested and met the certification and regional installation requirements for products.</td>
</tr>
<tr>
<td><img src="image4" alt="Field evaluation label" /></td>
<td>Indicated that the product was tested and has met the all requirements, including the National Fire Protection Association and the National Electric Code for installation and use.</td>
</tr>
</tbody>
</table>
2. FM Approvals LLC

(Main Lab)                                      (Branch Lab)
1151 Boston-Providence Turnpike                      Hydraulics Laboratory
P.O. Box 9102                                        743A Reynolds Road
Norwood, MA 02062                                      West Glocester, RI 02814
Phone: (781) 762-4300                                  Phone: (401) 567-0590

Expiration: October 1, 2020

This agency is approved for listing of fire protection equipment to meet applicable ANSI or UL Standards as long as the listed products and their installations are not in violations of the Los Angeles Plumbing Code, 2017 Edition.

Where FM Standards are used, they shall meet or exceed the ANSI or UL Standards. The equipment includes automatic sprinkler system components, fire pumps, tanks, hydrants, flame and smoke testing to ASTM E84 (UL 723).

Certification Marks:

<table>
<thead>
<tr>
<th>Mark</th>
<th>Description</th>
</tr>
</thead>
</table>
| ![FM Approved Mark](image) | FM Approved Mark  
This marking indicates that the product has been evaluated and is listed to the applicable standard specified. |
| ![FM Approved Mark with “C” and “US”](image) | FM Approved Mark with “C” and “US”  
This marking indicates that the product has been evaluated to meet Canadian and U.S. standards, and is listed to the applicable standard specified. |
| ![FM Approved Cast-On Marks](image) | FM Approved Cast-On Marks  
Where reproduction of the FM Approved mark described above is impossible because of production restrictions, use of these modified versions of the FM Approved mark is allowed. |
3. International Association of Plumbing and Mechanical Officials Research and Testing (IAPMO R&T)

5001 E. Philadelphia Street
Ontario, CA  91761
Phone: (909) 472-4100

Expiration: June 1, 2020

This agency is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2017 Edition:

This agency is also approved for listing of plumbing products to meet the lead-free requirements of Section 116875 of the California Health and Safety Code.

Plumbing:

- AHAM FWD-1
  Food waste disposers
- APSP 1
  Public Swimming Pools
- ASCE 25
  Earthquake-Actuated Automatic Gas Shutoff Devices
- ASME A112.1.2
  Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)
- ASME A112.1.3
  Air Gap for use with Plumbing Fixtures, Appliances, and Appurtenances
- ASME A112.3.1
  Stainless Steel Drainage Systems for Sanitary DWV, Storm and Vacuum Applications, Above and Below Ground
- ASME A112.3.4 / CSA B45.9
  Plumbing Fixtures with Pumped Waste and Macerating Toilet System
- ASME A112.4.1
  Water Heater Relief Valve Drain Tubes
- ASME A112.4.2
  Water Closet Personal Hygiene Devices
- ASME A112.4.3
  Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System
- ASME A112.4.14
  Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems
- ASME A112.6.1M
  Floor-Affixed Supports for Off-the-Floor Plumbing Fixtures for Public Use
- ASME A112.6.2
  Framing-Affixed Supports for Off-the-Floor Water Closets with Concealed Tanks
- ASME A112.6.3
  Floor and Trench Drains
- ASME A112.6.4
  Roof, Deck, and Balcony Drains
- ASME A112.6.7
  Sanitary Floor Sinks
- ASME A112.6.9
  Siphonic Roof Drains
- ASME A112.14.1
  Backwater Valves
- ASME A112.14.3
  Grease Interceptors
- ASME A112.14.4
  Grease Removal Devices
- ASME A112.14.6
  FOG (Fats, Oils, and Greases) Disposal Systems
- ASME A112.18.1/CSA B125.1
  Plumbing Supply Fittings
- ASME A112.18.2 / CSA B125.2
  Plumbing Waste Fittings
- ASME A112.18.3
  Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings
- ASME A112.18.6 / CSA B125.6
  Flexible Water Connectors
- ASME A112.18.9
  Protectors/Insulators for Exposed Waste and Supplies on Accessible Fixtures
- ASME A112.19.1/CSA B45.2
  Enamelled Cast Iron and Enamelled Steel Plumbing Fixtures
- ASME A112.19.2/CSA B45.1
  Ceramic Plumbing Fixtures
- ASME A112.19.3/CSA B45.4
  Stainless Steel Plumbing Fixtures
- ASME A112.19.5/CSA B45.15
  Flush Valves and Spuds for Water Closets, Urinals and Tanks
- ASME A112.19.7 / CSA B45.10
  Hydromassage Bathtub Appliances
ASME A112.19.10
Dual Flush Devices for Water Closets

ASME A112.19.12
Wall Mounted, Pedestal Mounted, Adjustable, Elevating, Tilting, and Pivoting Lavatory, Sink and Shampoo Bowl Carrier Systems and Drain Waste Systems

ASME A112.19.14
Six-Liter Water Closets Equipment with a Dual Flushing Device

ASME A112.19.15
Bathtub/whirlpool bathtubs with pressure sealed doors

ASME A112.19.19
Vitreous China Nonwater Urinals

ASME A112.21.3M
Hydrants for Utility and Maintenance Use

ASME A112.36.2M
Cleanouts

ASME B1.20.1
Pipe Threads, General Purpose, Inch

ASME B1.20.3
Dryseal Pipe Threads, Inch

ASME B16.1
Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250

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

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

ASME B16.5
Pipe Flanges and Flanged Fittings: NPS 1/2 through NPS 24 Metric/Inch

ASME B16.12
Cast Iron Threaded Drainage Fittings

ASME B16.15
Cast Copper Alloy Threaded Fittings: Classes 125 and 250

ASME B16.18
Cast Copper Alloy Solder Joint Pressure Fittings

ASME B16.20
Metallic Gaskets For Pipe Flanges: Ring-Joint, Spiral-Wound, and Jacketed

ASME B16.22
Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings

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

ASME B16.24
Cast Copper Alloy Pipe Flanges and Flanged Fittings: Classes 150, 300, 600, 900, 1500 and 2,500

ASME B16.26
Cast Copper Alloy Fittings for Flared Copper Tubes

ASME B16.29
Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings - DWV

ASME B16.33
Manually Operated Metallic Gas Valves for use in Gas Piping Systems up to 175 psi (Size NPS 1/2 - NPS 2)

ASME B16.34
Valves - Flanged, threaded and welding end

ASME B16.39
Malleable Iron Threaded Pipe Unions: Classes 150, 250 and 300 (Includes Revision Services)

ASME B16.40
Manually Operated Thermoplastic Gas Shutoffs and Valves in Gas Distribution Systems

ASME B16.47
Large Diameter Steel Flanges: NPS 26 through NPS 60 metric/Inch

ASME B16.50
Wrought Copper and Copper Alloy Brazed-Joint Pressure Fittings

ASME B31.1
Power Piping

ASME B31.3
Process Piping

ASME B36.10M
Welded and Seamless Wrought Steel Pipe

ASME B36.19
Stainless Steel Pipe

ASME BPVC Section IV
Rules for Construction of Heating Boilers

ASME BPVC Section VIII
Rules for Construction of Pressure Vessels Division 1

ASME BPVC Section IX
Welding, Brazing and Fusing Qualifications

ASSE 1001
Atmospheric Type Vacuum Breakers

ASSE 1002
Anti-Siphon Fill Valves for Water Closet Tanks

ASSE 1003
Water Pressure Reducing Valves for Domestic Water Distribution Systems

ASSE 1004
Backflow Preventing Requirements for Commercial Dishwashing Machines

ASSE 1008
Plumbing Aspects of Residential Food Waste Disposer Units

ASSE 1010
Water Hammer Arresters

ASSE 1011
Hose-Connection Vacuum Breakers

ASSE 1012
Backflow Preventer with Intermediate Atmosphere Vent

ASSE 1013
Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers

ASSE 1014
Backflow Prevention Devices for Hand-Held Showers
ASSE 1015
Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies

ASSE 1016/ASME 112.1016/CSA B125.16
Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves - Potable Water Supplied

ASSE 1019
Wall Hydrant with Backflow Protection and Freeze Resistance

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1022
Backflow Preventer for Beverage Dispensing Equipment

ASSE 1023
Hot Water Dispensers Household Storage Type-Electrical

ASSE 1024
Dual Check Backflow Preventers

ASSE 1032
Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Types

ASSE 1035
Laboratory Faucet Backflow Preventer

ASSE 1037
Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures

ASSE 1044
Trap Seal Primer Devices-Drainage Types and Electronic Design Types

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052
Hose Connection Backflow Preventer

ASSE 1055
Chemical Dispensing Systems

ASSE 1056
Spill Resistant Vacuum Breakers Assemblies

ASSE 1057
Freeze Resistant Sanitary Yard Hydrant with Backflow Protection

ASSE 1060
Outdoor Enclosures for Fluid Conveying Components

ASSE 1061
Push-Fit Fittings

ASSE 1062
Temperature Actuated, Flow Reduction (TAFR) Valves for Individual Fixture Fittings

ASSE 1066
Individual Pressure Balancing In-Line Valves for Individual Fixture Fittings

ASSE 1069
Automatic Temperature Control Mixing Valves

ASSE 1070
Water Temperature Limiting Devices

ASSE 1071
Temperature Actuated Mixing Valves for Plumbed Emergency Equipment

ASSE 1079
Dielectric Pipe Unions

ASSE Series 5000
Cross-Connection Control Professional Qualifications

ASSE Series 6000
Professional Qualifications Standard for Medical Gas Systems Personnel

ASTM A74
Cast Iron Soil Pipe and Fittings

ASTM A106/A106M
Seamless Carbon Steel Pipe for High-Temperature Service

ASTM A126
Gray Iron Casting for Valves, Flanges, and Pipe Fittings

ASTM A197/A197M
Cupola Malleable Iron

ASTM A254/A254M
Copper-Brazed Steel Tubing

ASTM A269
Seamless and Welded Austenitic Stainless Steel Tubing for General Service

ASTM A312/A312M
Seamless Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes

ASTM A377
Ductile-Iron Pressure Pipe

ASTM A479/A479M
Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels

ASTM A518/A518M
Corrosion-Resistant High-Silicon Iron Castings

ASTM A536
Ductile Iron Castings

ASTM A653/A653M
Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

ASTM A733
Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples

ASTM A861
High-Silicon Iron Pipe and Fittings

ASTM A888
Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications
ASTM A1045
Flexible Poly (Vinyl Chloride) (PVC) Gaskets used in Connection of Vitreous China Plumbing Fixtures to Sanitary Drainage Systems

ASTM A1056
Cast Iron Couplings used for Joining Hubless Cast Iron Soil Pipe and Fittings

ASTM B29
Refined Lead

ASTM B32
Solder Metal

ASTM B42
Seamless Copper Pipe, Standard Sizes

ASTM B43
Seamless Red Brass Pipe, Standards Sizes

ASTM B75/B75M
Seamless Copper Tube

ASTM B88
Seamless Copper Water Tube

ASTM B135
Seamless Brass Tube

ASTM B152/B152M
Copper Sheet, Strip, Plate, and Rolled Bar

ASTM B187/B187M
Copper, Bus Bar, Rod, and Shapes and General Purpose Rod, Bar, and Shapes

ASTM B210
Aluminum and Aluminum-Alloy Drawn Seamless Tubes

ASTM B241/B241M
Aluminum and Aluminum-Alloy Drawn Seamless Pipe and Seamless Extruded Tube

ASTM B251
General Requirements for Wrought Seamless Copper and Copper-Alloy Tube

ASTM B280
Seamless Copper Tube for Air Conditioning and Refrigeration Field Service

ASTM B302
Threadless Copper Pipe, Standard Sizes

ASTM B306
Copper Drainage Tube (DWV)

ASTM B370
Copper Sheet and Strip for Building Construction

ASTM B447
Welded Copper Tube

ASTM B584
Copper Alloy Sand Casting for general Applications

ASTM B587
Welded Brass Tube

ASTM B687
Brass, Copper, and Chromium-Plated Pipe Nipples

ASTM B813
Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube

ASTM B819
Seamless Copper Tube for Medical Gas Systems

ASTM B828
Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings

ASTM C4
Clay Drain Tile and Perforated Clay Drain Tile

ASTM C14
Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe

ASTM C412
Concrete Drain Tile

ASTM C425
Compression Joints for Vitrified Clay Pipe and Fittings

ASTM C443
Joints for Concrete Pipe and Manholes, Using Rubber Gaskets

ASTM C444
Perforated Concrete Pipe

ASTM C478
Precast Reinforced Concrete Manhole Sections

ASTM C564
Rubber Gaskets for Cast Iron Soil Pipe and Fittings

ASTM C700
Vitrified Clay Pipe, Extra Strength, Standard Strength, and Perforated

ASTM C1053
Borosilicate Glass Pipe and Fittings for Drain, Waste and Vent (DWV) Applications

ASTM C1173
Flexible Transition Couplings for Underground Piping Systems

ASTM C1227
Precast Concrete Septic Tanks

ASTM C1277
Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings

ASTM C1440
Thermoplastic Elastomeric (TPE) Gasket Materials for Drain, Waste, and Vent (DWV), Sewer, Sanitary and Storm Plumbing Systems

ASTM C1460
Shielded Transition Couplings for use with Dissimilar DWV Pipe and Fittings Above Ground

ASTM C1461
Mechanical Couplings Using Thermoplastic Elastomeric (TPE) Gasket for Joining Drain, Waste, and Vent, (DWV), Sewer, Sanitary, and Storm Plumbing Systems for Above and Below Ground Use

ASTM C1540
Heavy Duty Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings

ASTM D1784
Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds

ASTM D1785
Poly (Vinyl Chloride) (PVC) Plastic Pipe Schedules 40, 80 and 120
<table>
<thead>
<tr>
<th>ASTM D2235</th>
<th>Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM D2239</td>
<td>Polyethylene (PE) Plastic Pipe, (SDR-PR) Based on Controlled Inside Diameter</td>
</tr>
<tr>
<td>ASTM D2241</td>
<td>Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe</td>
</tr>
<tr>
<td>ASTM D2231</td>
<td>Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications</td>
</tr>
<tr>
<td>ASTM D2464</td>
<td>Threaded Poly (Vinyl Chloride)(PVC) Plastic Pipe Fittings, Schedule 80</td>
</tr>
<tr>
<td>ASTM D2466</td>
<td>Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40</td>
</tr>
<tr>
<td>ASTM D2467</td>
<td>Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80</td>
</tr>
<tr>
<td>ASTM D2513</td>
<td>Polyethylene (PE) Gas Pressure Pipe, tubing, and Fittings</td>
</tr>
<tr>
<td>ASTM D2517</td>
<td>Reinforced Epoxy Resin Gas Pressure Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2564</td>
<td>Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems</td>
</tr>
<tr>
<td>ASTM D2609</td>
<td>Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe</td>
</tr>
<tr>
<td>ASTM D2657</td>
<td>Heat Fusion Joining of Polyolefin Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2661</td>
<td>Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2665</td>
<td>Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste and Vent Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2672</td>
<td>Joints for IPS PVC Pipe Using Solvent Cement</td>
</tr>
<tr>
<td>ASTM D2680</td>
<td>Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Composite Sewer Piping</td>
</tr>
<tr>
<td>ASTM D2683</td>
<td>Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing</td>
</tr>
<tr>
<td>ASTM D2729</td>
<td>Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2737</td>
<td>Polyethylene (PE) Plastic Tubing</td>
</tr>
<tr>
<td>ASTM D2751</td>
<td>Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2774</td>
<td>Underground Installation of Thermoplastic Pressure Piping</td>
</tr>
<tr>
<td>ASTM D2855</td>
<td>Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2996</td>
<td>Filament-Wound “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe</td>
</tr>
<tr>
<td>ASTM D3034</td>
<td>Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D3035</td>
<td>Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter</td>
</tr>
<tr>
<td>ASTM D3122</td>
<td>Solvent Cements for Styrene-Rubber (SR) Plastic Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D3138</td>
<td>Solvent Cements for Transitions Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Non-Pressure Components</td>
</tr>
<tr>
<td>ASTM D3139</td>
<td>Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals</td>
</tr>
<tr>
<td>ASTM D3212</td>
<td>Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals</td>
</tr>
<tr>
<td>ASTM D3261</td>
<td>Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing</td>
</tr>
<tr>
<td>ASTM D3311</td>
<td>Drain, Waste, and Vent (DWV) Plastic Fittings Patterns</td>
</tr>
<tr>
<td>ASTM D3965</td>
<td>Rigid Acrylonitrile-Butadiene-Styrene (ABS) Materials for Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D4068</td>
<td>Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-Containment Membrane</td>
</tr>
<tr>
<td>ASTM D4101</td>
<td>Polypropylene Injection and Extrusion Materials</td>
</tr>
<tr>
<td>ASTM D4551</td>
<td>Poly (Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-Containment Membrane</td>
</tr>
<tr>
<td>ASTM D4556</td>
<td>Corrugated Polyethylene (PE) Tubing and Fittings</td>
</tr>
<tr>
<td>ASTM D4557</td>
<td>Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings</td>
</tr>
<tr>
<td>ASTM F402</td>
<td>Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM F405</td>
<td>Corrugated Polyethylene (PE) Tubing and Fittings</td>
</tr>
<tr>
<td>ASTM F409</td>
<td>Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings</td>
</tr>
<tr>
<td>ASTM F437</td>
<td>Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80</td>
</tr>
</tbody>
</table>
ASTM F438
Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40

ASTM F439
Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80

ASTM F446
Grab Bars and Accessories Installed in the Bathing Area

ASTM F480
Thermoplastic Well Casing Pipe and Couplings Made in Standard Dimension Ratios (SDR), Schedule 40 and Schedule 80

ASTM F493
Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings

ASTM F628
Acrylonitrile-Butadiene-Styrene (ABS)
Sch. 40 Plastic Drain, Waste and Vent Pipe with a Cellular Core

ASTM F656
Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings

ASTM F667
3 through 24in. Corrugated Polyethylene Tubing and Fittings

ASTM F714
Polyethylene (PE) Plastic Pipe (SDR-PR) (Based on outside diameter)

ASTM F794
Poly (Vinyl Chloride) (PVC) Profile Gravity Sewer Pipe and Fittings Based on Controlled Inside Diameter

ASTM F810
Smoothwall Polyethylene (PE) Pipe for Use in Drainage and Waste Disposal Absorption Fields

ASTM F891
Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe with a Cellular Core

ASTM F894
Polyethylene (PE) Large Diameter Profile Wall Sewer and Drain Pipe

ASTM F949
Poly (Vinyl Chloride) (PVC) Corrugated Sewer Pipe with a Smooth Interior and Fittings

ASTM F1055
Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and Crosslinked Polyethylene (PEX) Pipe and Tubing

ASTM F1216
Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube

ASTM F1336
Poly (Vinyl Chloride) (PVC) Gasketed Sewer Fittings

ASTM F1412
Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

ASTM F1476
Performance of Gasketed Mechanical Couplings for Use in Piping Applications

ASTM F1488
Coextruded Composite Pipe

ASTM F1499
Coextruded Composite Drain, Waste, and Vent Pipe (DWV)

ASTM F1673
Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems

ASTM F1743
Rehabilitation of Existing Pipelines and Conduits by Pulled-In-Place Installation of Cured-in-place Thermosetting Resin pipe (CIPP)

ASTM F1866
Poly (Vinyl Chloride) Plastic Schedule 40 Drainage and DWV Fabricated Fitting

ASTM F1924
Plastic Mechanical Fittings for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing

ASTM F1948
Metallic Mechanical Fittings for Use on Outside Diameter Controlled Thermoplastic Gas Distribution Pipe and Tubing

ASTM F1970
Special Engineered Fittings, Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems

ASTM F1973
Factory Assembled Anodeless Risers and Transition Fittings in Polyethylene (PE) and Polyamide 11 (PA 11) and Polyamide 12 (PA 12) Fuel Gas Distribution Systems

ASTM F1974
Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe

ASTM F1986
Multilayer Pipe Type 2, Compression Fittings, and Compression Joints for Hot and Cold Drinking-Water Systems

ASTM F2165
Flexible Pre-Insulated Piping

ASTM F2206
Fabricated Fittings of Butt-Fused Polyethylene (PE) Plastic Pipe, Fittings, Sheet Stock, or Block Stock

ASTM F2306/F2306M
Specification for 12 to 60 in. [300 to 1500 mm] Annular Corrugated Profile-Wall Polyethylene (PE) Pipe and Fittings for Gravity-Flow Storm Sewer and Subsurface Drainage Applications

ASTM F2509
Field-Assembled Anodeless Riser Kits for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing

ASTM F2831
Internal Non Structural Epoxy Barrier Coating Material Used in Rehabilitation of Metallic Pressurized Piping Systems

AWS A5.8
Filler Metals for Brazing and Braze Welding
AWS B2.2/B2.2M
Brazing Procedure and Performance Qualification

AWS B2.4
Welding Procedure and Performance Qualification for Thermoplastic

AWWA C110
Ductile-Iron and Gray-Iron Fittings

AWWA C111
Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings

AWWA C151
Ductile-Iron Pipe, Centrifugally Cast

AWWA C153
Ductile-Iron Compact Fittings

AWWA C203
Coal-Tar Protective Coatings and Linings for Steel Water Pipelines - Enamel and Tape - Hot Applied

AWWA C210
Liquid-Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines

AWWA C213
Fusion-Bonded Epoxy Coating for the interior and Exterior of Steel Water Pipelines

AWWA C215
Extruded Polyolefin Coating for the Exterior of Steel Water Pipelines

AWWA C500
Metal Seated Service Gate Valves for Water Supply Service

AWWA C504
Rubber Seated Butterfly Valves, 3in (75 mm) through 72 in (1800 mm)

AWWA C507
Ball Valves, 6 in. through 60 in. (150 mm through 1,500 mm)

AWWA C510
Double Check Valve Backflow Prevention Assembly

AWWA C511
Reduced Pressure Principle Backflow Prevention Assembly

AWWA C606
Grooved and Shouldered Joints

AWWA C900
Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 in. through 12 in. (100 mm through 300 mm), for Water Transmission and Distribution

AWWA C901
Polyethylene (PE) Pressure Pipe and Tubing, 1/2 in. (13 mm) Through 3 in. (76 mm) for Water Service

AWWA C907
Injection-Molded Polyvinyl Chloride (PVC) Pressure Fittings 4 in. Through 12 in. (100 mm Through 300 mm), for Water, Wastewater and Reclaimed Water Service

CGA C-9
Standard Color Marking of Compressed Gas Containers for Medical use

CGA G-4.1
Cleaning Equipment for Oxygen Service

CGA S-1.3
Pressure Relief Device Standards-Part 3-Stationary Storage Containers for Compressed Gases

CGA V-1
Compressed Gas Cylinder Valve Outlet and Inlet Connections

CISPI 301
Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications

CISPI 310
Couplings For Use in Connection with Hubless Cast Iron Soil Pipe and Fittings For Sanitary and Storm Drain, Waste, and Vent Piping Applications

CSA A257
Concrete Pipe and Manhole Sections

CSA B45.5/IAPMO Z124
Plastic Plumbing Fixtures

CSA B45.11/IAPMO Z401
Glass Plumbing Fixtures

CSA B64
Backflow Preventers and Vacuum Breakers

CSA B64.1
Atmospheric Vacuum Breakers (AVB)

CSA B64.2
Hose Connection Vacuum Breakers (HCVB)

CSA B64.2.1
Hose Connection Dual Vacuum Breakers (HCDVB)

CSA B64.4
Reduced Pressure Principle (RP) Backflow Preventers

CSA B64.4.1
Reduced Pressure Principle Backflow Preventers for Fire Protection Systems (RPF)

CSA B64.5
Double Check Valve (DCVA) Backflow Preventers

CSA B64.5.1
Double Check Valve Backflow Preventers for Fire Protection Systems (DVCAF)

CSA B64.7
Laboratory Faucet Vacuum Breakers (LFVB)

CSA B79
Commercial and Residential Drains and Cleanouts

CSA B125.3
Plumbing Fittings

CSA B137.1
Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services

CSA B181.3
Polyolefin and Polyvinylidene Fluoride (PVDF) Laboratory Drainage Systems

CSA B242
Grooved-and Shouldered-Type Mechanical Pipe Couplings
CSA B356
Water Pressure Reducing Valves for Domestic Water Supply Systems

CSA B481
Grease Interceptors

CSA G401
Corrugated Steel Pipe Products

CSA LC 1b
Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST) (same as CSA 6.26b)

CSA LC 3
Appliance Stands and Drains Pans

CSA LC 4a
Press-Connect Metallic Fittings for Use in Fuel Gas Distribution Systems (same as CSA 6.32a)

CSA Z21.10.1
Gas Water Heaters - Volume I, Storage Water Heaters with Input Ratings of 75000 Btu Per Hour or Less (same as CSA 4.1)

CSA Z21.10.3
Gas-Fired Water Heaters - Volume III, Storage Water Heaters with Input Ratings Above 75000 Btu Per Hour, Circulating and Instantaneous (same as CSA 4.3)

CSA Z21.12b
Draft Hoods

CSA Z21.13
Gas-Fired Low Pressure Steam and Hot Water Boilers (same as CSA 4.9)

CSA Z21.15b
Manually Operated Gas Valves for Appliances, Appliance Connector Valves, and Hose End Valves

CSA Z21.22b
Relief Valves for Hot Water Supply Systems (same as CSA 4.4b)

CSA Z21.24a
Connectors for Gas Appliances (same as CSA 6.10a)

CSA Z21.40.1a
Gas-Fired, Heat Activated Air Conditioning and Heat Pump Appliances (same as CSA 2.91a)

CSA Z21.41
Quick-Disconnected Devices for Use with Gas Fuel Appliances (same as CSA 6.9)

CSA Z21.47
Gas-Fired Central Furnaces (same as CSA 2.3)

CSA Z21.54b
Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances (same as CSA 8.4b)

CSA Z21.56
Gas-Fired Pool Heaters (same as CSA 4.7)

CSA Z21.69a
Connectors for Movable Gas Appliances (same as CSA 6.16a)

CSA Z21.80a
Line Pressure Regulators (same as CSA 6.22a)

CSA Z21.86
Vented Gas-Fired Space Heating Appliances (same as CSA 2.32)

CSA Z83.11b
Gas Food Service Equipment (same as CSA 1.8b)

CSA Z317.1
Special Requirements for Plumbing Installations in Health Care Facilities

Energy Star – 2007
Specification for Commercial Dishwashers

EPA Watersense – 2007
High-Efficiency Lavatory Faucet Specification

EPA Watersense – 2009
Specification for Flushing Urinals

EPA Watersense – 2011
Specification for Tank-Type Toilets

IAPMO IGC 154
Shower and Tub/Shower Enclosures and Shower Panel

IAPMO IGC 157
Ball Valves

IAPMO IGC 193
Safety Plates, Plate Straps, Notched Plates and Safety Collars

IAPMO IGC 226
Drinking Water Fountains With or Without Chiller or Heater

IAPMO PS 23
Dishwasher Drain Airgaps

IAPMO PS 25
Metallic Fittings for Joining Polyethylene Pipe for Water Service and Yard Piping

IAPMO PS 34
Encasement Sleeve for Portable Water Pipe and Tube

IAPMO PS 36
Lead-Free Sealing Compounds for Threaded Joints

IAPMO PS 37
Black Plastic PVC or PE Pressure-Sensitive Corrosion Preventive Tape

IAPMO PS 42
Pipe Alignment and Secondary Support Systems

IAPMO PS 50
Flush Valves with Dual Flush Device for Water Closets or Water Closet Tank with an integral Flush Valves with a Dual Flush Device

IAPMO PS 51
Expansion Joints for DWV Piping Systems

IAPMO PS 52
Pump/Dose, Sumps and Sewage Ejector Tanks with or without a Pump

IAPMO PS 53
Grooved Mechanical Pipe Couplings and Grooved Fittings

IAPMO PS 54
Metallic and Plastic Utility Boxes

IAPMO PS 57
PVC Hydraulically Actuated Diaphragm Type Water Control Valves

IAPMO PS 59
Waste Water Diverter Valves and Diversion System

IAPMO PS 63
Plastic Leaching Chambers
IAPMO PS 64  
Roof Pipe Flashings

IAPMO PS 65  
Airgap Units for Water Conditioning  
Equipment Installation

IAPMO PS 67  
Early-Closure Replacement Flappers  
or Early-Closure Replacement Flapper  
with Mechanical Assemblies

IAPMO PS 69  
Bathwaste and Overflow Assemblies  
with Tub Filler Spout

IAPMO PS 72  
Valves with Atmospheric Vacuum  
Breaker

IAPMO PS 73  
Dental Vacuum Pumps

IAPMO PS 76  
Trap Primers for Fill Valves and  
Flushometer Valves

IAPMO PS 79  
Multiport Electronic Trap Primer

IAPMO PS 80  
Clarifiers

IAPMO PS 81  
Precast Concrete Seepage Pit Liners  
and Covers

IAPMO PS 82  
Fiberglass (Glass Fiber Reinforced  
Thermosetting Resin) Fittings

IAPMO PS 85  
Tools for Mechanically Formed Tee  
Connections in Copper Tubing

IAPMO PS 86  
Rainwater Diverter Valve for Non-  
Roofed Area Slabs

IAPMO PS 87  
Diverter and Shut-Off Valves for  
Pool/Spas

IAPMO PS 89  
Soaking and Hydrotherapy (Whirlpool)  
Bathtubs with Hydraulic Seatlift

IAPMO PS 90  
Elastomeric Test Caps/Cleanout  
Caps and Combination Test  
Caps/Shielded Couplings

IAPMO PS 91  
Plastic Stabilizer for Use with Plastic  
Closet Bends

IAPMO PS 92  
Heat Exchangers and Indirect Water  
Heaters

IAPMO PS 94  
Insulated Protectors for P-Traps,  
Supply Stops and Risers

IAPMO PS 95  
Drain, Waste, and Vent Hangers and  
Plastic Pipe Support Hooks

IAPMO PS 96  
Passive Direct Solar Water Heaters

IAPMO PS 98  
Prefabricated Fiberglass Church  
Baptisteries

IAPMO PS 100  
Porous Filter Protector for Sub-Drain  
Weep Holes

IAPMO PS 101  
Suction Relief Valves

IAPMO PS 104  
Pressure Relief Connection for  
Dispensing Equipment

IAPMO PS 105  
Polyethylene Distribution Boxes

IAPMO PS 106  
Tileable Shower Receptors and  
Shower Kits

IAPMO PS 107  
Aramid Reinforced Rubber Hose for  
Use in Non-Potable Water Radiant  
Heating and Snowmelting

IAPMO PS 110  
PVC Cold Water Compression Fittings

IAPMO PS 111  
PVC Cold Water Gripper Fittings

IAPMO PS 112  
PVC Plastic Valves for Cold Water  
Distribution Systems Outside a  
Building and CPVC Plastic Valves for  
Hot and Cold Water Distribution  
Systems

IAPMO PS 113  
Hydraulically Powered Household  
Food Waste Disposers

IAPMO PS 115  
Hot Water On-Demand or Automatic  
Activated Hot Water Pumping  
Systems

IAPMO Z124.5  
Plastic Toilet Seats

IAPMO Z124.7  
Prefabricated Plastic Spa Shells

IAPMO Z124.8  
Plastic Liners for Bathubs and Shower  
Receptors

IAPMO Z1000  
Prefabricated Septic Tanks

IAPMO Z1001  
Prefabricated Gravity Grease  
Interceptors

IAPMO Z1033  
Flexile PVC Hoses and Tubing for  
Pools, Hot Tubs, Spas and Jetted  
Bathtubs

ICC A117.1  
Accessible and Usable Buildings and  
Facilities

ISEA Z358.1  
Emergency Eyewash and Shower  
Equipment

MSS SP-6  
Finishes for Contact Faces of Pipe  
Flanges and Connecting-End Flanges  
of Valves and Fittings

MSS SP-25  
Marking Systems for Valves, Fittings,  
Flanges, and Unions

MSS SP-42  
Corrosion Resistant Gate, Globe,  
Angle and Check Valves with Flanged  
and Butt Weld Ends (Classes 150,300  
& 600)

MSS SP-44  
Steel Pipeline Flanges

MSS SP-58  
Pipe Hangers and Supports -  
Materials, Design, and Manufacture,  
Selection, Application and Installation

MSS SP-67  
Butterfly Valves
MSS SP-70
Gray Iron Gate Valves, Flanged and Threaded Ends

MSS SP-71
Gray Iron Swing Check Valves, Flanged and Threaded Ends

MSS SP-72
Ball Valves with Flanged or Butt-Welding Ends for General Service

MSS SP-78
Cast Iron Plug Valves, Flanged and Threaded Ends

MSS SP-80
Bronze gate, Globe, Angle, and Check Valves

MSS SP-83
Class 3000 Steel Pipe Unions Socket-Welding and Threaded

MSS SP 104
Wrought Copper Solder Joint Pressure Fittings

MSS SP 106
Cast Copper Alloy Flanges and Flanged Fittings Class 125, 150 and 300

MSS SP 109
Welded Fabricated Copper Solder Joint Pressure Fittings

MSS SP 123
Non-Ferrous Threaded and Solder Joint Unions for Use with Copper Water Tube

NSF 2
Food Equipment

NSF 3
Commercial Warewashing Equipment

NSF 4
Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transport Equipment

NSF 5
Water Heaters, Hot Water Supply Boilers, and Heat Recovery Equipment

NSF 12
Automatic Ice Making Equipment

NSF 14
Plastics Piping System Components and Related Materials

NSF 18
Manual Food and Beverage Dispensing Equipment

NSF 29
Detergent and Chemical Feeders for Commercial Spray-Type Dishwashing Machines

NSF 40
Residential Wastewater Treatment Systems

NSF 41
Non-Liquid Saturated Treatment Systems

NSF 42
Drinking Water Treatment Units-Aesthetic Effects

NSF 44
Residential Cation Exchange Water Softeners

NSF 46
Evaluation of Components and Devices Used in Wastewater Treatment Systems

NSF 53
Drinking Water Treatment Unit-Health Effects

NSF 55
Ultraviolet Microbiological Water Treatment Systems

NSF 58
Reverse Osmosis Drinking Water Treatment Systems

NSF 61
Drinking Water System Components - Health Effects

NSF 62
Drinking Water Distillation Systems

NSF 169
Special Purpose Food Equipment and Devices

NSF 350
Onsite Residential and Commercial Water Reuse Treatment Systems.

PDI G-101
Testing and Rating Procedure for Hydro Mechanical Grease Interceptors with Appendix of Installation and Maintenance

PDI G-102
Testing and Certification for Grease Interceptors with FOG Sensing and Alarm Devices

PDIWH 201
Water Hammer Arresters

PSAI Z4.1
For Sanitation - In Places of Employment - Minimum Requirements

SAE J512
Automotive Tube Fittings

SAE J1670
Type "F" Clamps for Plumbing Applications

TCNA A118.10
Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation

TCNA A137.1
Specifications for Ceramic Tile

UL 70
Septic Tanks, Bituminous Coated Metal

UL 80
Steel Tanks for Oil-Burner Fuels and Other Combustible Liquids

UL 103
Factory-Built Chimneys for Residential Type and Building Heating Appliances

UL 125
Flow Control Valves for Anhydrous Ammonia and LP-Gas

UL 132
Safety Relief Valves for Anhydrous Ammonia and LP-Gas

UL 144
LP-Gas Regulators

UL 174
Household Electric Storage Tank Water Heaters

UL 252
Compressed Gas Regulators
UL 263
Fire Test of Building Construction and Materials

UL 296
Oil Burners

UL 343
Pumps for Oil-Burning Appliances

UL 378
Draft Equipment

UL 399
Drinking Water Coolers

UL 404
Gauges, Indicating Pressure, for Compressed Gas Services

UL 429
Electrically Operated Valves

UL 430
Waste Disposers

UL 441
Gas Vents

UL 443
Steel Auxiliary Tanks for Oil-Burner Fuel

UL 499
Electric Heating Appliances

UL 536
Flexible Metallic Hose

UL 563
Ice Makers

UL 565
Liquid-Level Gauges for Anhydrous Ammonia and LP-Gas

UL 569
Pigtails and Flexible Hose Connectors for LP-Gas

UL 651
Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings

UL 723
Test for Surface Burning Characteristics of Building Materials

UL 726
Oil-Fired Boiler Assemblies

UL 732
Oil-Fired Storage Tank Water Heaters

UL 749
Household Dishwashers

UL 778
Motor-Operated Water Pumps

UL 834
Heating, Water Supply, and Power Boilers-Electric

UL 921
Commercial Dishwasher

UL 959
Medium Heat Appliances Factory-Built Chimneys

UL 1081
Swimming Pool Pumps, Filters, and Chlorinators

UL 1206
Electric Commercial Clothes-Washing Equipment

UL 1261
Electric Water Heaters for Pools and Tubs

UL 1331
Station Inlets and Outlets

UL 1453
Electric Booster and Commercial Storage Tank Water Heaters

UL 1469
Strength of Body and Hydraulic Pressure Loss Testing of Backflow Special Check Valves

UL 1479
Fire Test of Through-Penetration Firestops

UL 1795
Hydromassage Bathtubs

UL 1951
Electric Plumbing Accessories

UL 2157
Electric Clothes Washing Machines and Extractors

WQA S-300
Point-of-Use Low Pressure Reverse Osmosis Drinking Water Systems.

Mechanical Standards:

AHRI 700
Specification for Fluorocarbon Refrigerants

AMCA 500-D
Laboratory Methods of Testing Dampers for Ratings

AMCA 540
Louvers Impacted by Wind Borne Debris

AMCA 550
High Velocity Wind Driven Rain Resistance Louvers

ASCE 25
Earthquake-Actuated Automatic Gas Shutoff Devices

ASHRAE 52.2
General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size
<table>
<thead>
<tr>
<th>Standard</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASME A13.1</td>
<td>Scheme for the Identification of Piping Systems</td>
</tr>
<tr>
<td>ASME A112.4.1</td>
<td>Water Heater Relief Valve Drain Tubes</td>
</tr>
<tr>
<td>ASME A112.18.6 / CSA B125.6</td>
<td>Flexible Water Connectors</td>
</tr>
<tr>
<td>ASME B1.20.1</td>
<td>Pipe Threads, General Purpose, (Inch)</td>
</tr>
<tr>
<td>ASME B1.20.3</td>
<td>Dryseal Pipe Threads, Inch</td>
</tr>
<tr>
<td>ASME B16.1</td>
<td>Gray-Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250</td>
</tr>
<tr>
<td>ASME B16.3</td>
<td>Malleable Iron Threaded Fittings: Classes 150 and 300</td>
</tr>
<tr>
<td>ASME B16.5</td>
<td>Pipe Flanges and Flanged Fittings: NPS 1/2 through NPS 24 Metric/Inch</td>
</tr>
<tr>
<td>ASME B16.9</td>
<td>Factory-Made Wrought Buttwelding Fittings</td>
</tr>
<tr>
<td>ASME B16.11</td>
<td>Forged Fittings, Socket-Welding and Threaded</td>
</tr>
<tr>
<td>ASME B16.15</td>
<td>Cast Copper Alloy Threaded Fittings: Classes 125 and 250</td>
</tr>
<tr>
<td>ASME B16.18</td>
<td>Cast Copper Alloy Solder Joint Pressure Fittings</td>
</tr>
<tr>
<td>ASME B16.20</td>
<td>Metallic Gaskets for Pipe Flanges: Ring-Joint, Spiral-Wound, and Jacketed</td>
</tr>
<tr>
<td>ASME B16.22</td>
<td>Wrought Copper and Copper Alloy Solder Joint Pressure Fittings</td>
</tr>
<tr>
<td>ASME B16.23</td>
<td>Cast Copper Alloy Solder Joint Drainage Fittings: DWV</td>
</tr>
<tr>
<td>ASME B16.24</td>
<td>Cast Copper Alloy Pipe Flanges and Flanged Fittings: Classes 150, 300, 600, 900, 1500, and 2500</td>
</tr>
<tr>
<td>ASME B16.26</td>
<td>Cast Copper Alloy Fittings for Flared Copper Tubes</td>
</tr>
<tr>
<td>ASME B16.29</td>
<td>Wrought Copper and Wrought Copper Alloy Solder-Joint Drainage Fittings-DWV</td>
</tr>
<tr>
<td>ASME B16.33</td>
<td>Manually Operated Metallic Gas Valves for use in Gas Piping Systems up to 175 psi (Sizes NPS ½- NPS 2)</td>
</tr>
<tr>
<td>ASME B16.50</td>
<td>Wrought Copper and Copper Alloy Braze-Joint Pressure Fittings</td>
</tr>
<tr>
<td>ASME B31.5</td>
<td>Refrigeration Piping and Heat Transfer Components</td>
</tr>
<tr>
<td>ASME B36.10M</td>
<td>Welded and Seamless Wrought Steel Pipe</td>
</tr>
<tr>
<td>ASME BPVC Section I</td>
<td>Rules for Construction of Power Boilers</td>
</tr>
<tr>
<td>ASME BPVC Section IV</td>
<td>Rules for Construction of Heating Boilers</td>
</tr>
<tr>
<td>ASME BPVC Section VIII</td>
<td>Rules for Construction of Pressure Vessels Division 1</td>
</tr>
<tr>
<td>ASME CSD-1</td>
<td>Controls and Safety Devices for Automatically Fired Boilers</td>
</tr>
<tr>
<td>ASTM A420 / A420M</td>
<td>Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low-Temperature Service</td>
</tr>
<tr>
<td>ASTM A568 / A568M</td>
<td>Steel, Sheet, Carbon, Structural, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled</td>
</tr>
<tr>
<td>ASTM A653 / A653M</td>
<td>Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process</td>
</tr>
<tr>
<td>ASTM A733</td>
<td>Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples</td>
</tr>
<tr>
<td>ASTM A861</td>
<td>High-Silicon Iron Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM B32</td>
<td>Solder Metal</td>
</tr>
<tr>
<td>ASTM B42</td>
<td>Seamless Copper Pipe, Standard Sizes</td>
</tr>
<tr>
<td>ASTM B43</td>
<td>Seamless Red Brass Pipe, Standard Sizes</td>
</tr>
<tr>
<td>ASTM B75</td>
<td>Seamless Copper Tube</td>
</tr>
<tr>
<td>ASTM B88</td>
<td>Seamless Copper Water Tube</td>
</tr>
<tr>
<td>ASTM B135</td>
<td>Seamless Brass Tube</td>
</tr>
<tr>
<td>ASTM B210</td>
<td>Aluminum and Aluminum-Alloy Drawn Seamless Tubes</td>
</tr>
<tr>
<td>ASTM B241/A241M</td>
<td>Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube</td>
</tr>
<tr>
<td>ASTM B251</td>
<td>General Requirements for Wrought Seamless Copper and Copper-Alloy Tube</td>
</tr>
<tr>
<td>ASTM B280</td>
<td>Seamless Copper Tube for Air Conditioning and Refrigeration Field Service</td>
</tr>
</tbody>
</table>
ASTM B302  Theadless Copper Pipe, Standard Sizes
ASTM B306  Copper Drainage Tube (DWV)
ASTM B370  Copper Sheet and Strip for Building Construction
ASTM B447  Welded Copper Tube
ASTM B587  Welded Brass Tube
ASTM B687  Brass, Copper, and Chromium-Plated Pipe Nipples
ASTM B813  Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube
ASTM B828  Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings
ASTM C315  Clay Flue Liners and Chimney Pots
ASTM C411  Hot Surface Performance of High-Temperature Thermal Insulation
ASTM D2464  Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
ASTM D2466  Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40
ASTM D2467  Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
ASTM D2513  Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings
ASTM D2517  Reinforced Epoxy Resin Gas Pressure Pipe and Fittings
ASTM D2609  Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe
ASTM D2683  Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing
ASTM D2837  Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials or Pressure Design Basis for Thermoplastic Pipe Products
ASTM D3035  Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter
ASTM D3261  Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing
ASTM D3350  Polyethylene Plastics Pipe and Fittings Materials
ASTM E84  Surface Burning Characteristics of Building Materials
ASTM E96  Water Vapor Transmission of Materials
ASTM E136  Behavior of Materials in a Vertical Tube Furnace at 750°C
ASTM E814  Fire Tests of Penetration Firestop Systems
ASTM E2231  Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assess Surface Burning Characteristics
ASTM E2336  Fire Resistive Grease Duct Enclosure Systems
ASTM F437  Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
ASTM F438  Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40
ASTM F439  Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
ASTM F1055  Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing
ASTM F1476  Performance of Gasketed Mechanical Couplings for Use in Piping Applications
ASTM F1807  Metal Insert Fittings Utilizing A Copper Crimp Ring for SDR9 Cross-Linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing
ASTM F1960  Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-Linked Polyethylene (PEX) Tubing
ASTM F1961  Metal Mechanical Cold Flare Compression Fittings with Disc Spring for Crosslinked Polyethylene (PEX) Tubing
ASTM F1970
Special Engineered Fittings, Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems

ASTM F1973
Factory Assembled Anodeless Risers and Transition Fittings in Polyethylene (PE) and Polyamide 11 (PA11) and Polyamide12 (PA12) Fuel Gas Distribution Systems

ASTM F1974
Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe

ASTM F2080
Cold-Expansion Fittings with Metal Compression-Sleeves for Crosslinked Polyethylene (PEX) Pipe

ASTM F2098
Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing to Metal Insert and Plastic Insert Fittings

ASTM F2158
Residential Central-Vacuum Tube and Fittings

ASTM F2159
Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

ASTM F2434
Metal 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

ASTM F2509
Field-Assembled Anodeless Riser Kits for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing

AWS A5.8 / A5.8M
Filler Metals for Brazing and Braze Welding

AWS B2.4
Welding Procedures and Performance Qualifications for Thermoplastics

AWWA C110
Ductile-Iron and Gray-Iron Fittings

AWWA C115
Flanged Ductile-Iron Pipe with Ductile-Iron or Gray-Iron Threaded Flanges

AWWA C151
Ductile-Iron Pipe, Centrifugally Cast

AWWA C153
Ductile-Iron Compact Fittings

AWWA C203
Coal-Tar Protective Coatings and Linings for Steel Water Pipelines - Enamel and Tape- Hot- Applied

AWWA C500
Metal-Seated Gate Valves for Water Supply Service

CAN / CGSB 3.2
Heating Fuel Oil

CGA 2.91a-M97 / CSA Z21.40.1a
Gas Fired, Heat Activated Air Conditioning and Heat Pump Appliances

CGA 6.14-M96 / CSA Z21.66
Automatic Vent Damper Devices for Use with Gas-Fired Appliances

CSA B137.1
Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services

CSA B137.2
Polyvinylchloride (PVC) Injection-Molded Gasketed Fittings for Pressure Applications

CSA B137.3
Rigid Polyvinylchloride (PVC) Pipe and Fittings for Pressure Applications

CSA C448
Design and Installation of Earth-Energy Systems

CSA F379
Packaged Solar Domestic Hot Water Systems (Liquid to Liquid Heat Transfer)

CSA LC 1b
Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST) (same as CSA 6.26b)

CSA LC 4a
Press-Connect Metallic Fittings for Use in Fuel Gas Distribution Systems (same as CSA 6.32a)

CSA Z21.1b
Household Gas Cooking Appliances

CSA Z21.5.1a
Gas Clothes Dryers-Volume I, Type 1 Clothes Dryers (same as CSA 7.1a)

CSA Z21.5.2
Gas Clothes Dryers-Volume II, Type 2 Clothes Dryers (same as CSA 7.2)

CSA Z21.10.1
Gas Water Heaters-Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu Per Hour or Less (same as CSA 4.1)

CSA Z21.10.3
Gas Water Heaters-Volume III, Storage Water Heaters with Input Ratings Above 75,000 Btu Per Hour, Circulating and Instantaneous (same as CSA 4.3)

CSA Z21.11.2
Gas-Fired Room Heaters, Volume II, Unvented Room Heaters

CSA Z21.12b
Draft Hoods

CSA Z21.13
Gas-Fired Low Pressure Steam and Hot Water Boilers (same as CSA 4.9)

CSA Z21.15b
Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves (same as CSA 9.1b)

CSA Z21.17a
Domestic Gas Conversion Burners (same as CSA 2.7a)

CSA Z21.18a
Gas Appliance Pressure Regulators (same as CSA 6.3b)
CSA Z21.19a
Refrigerators Using Gas Fuel (same as CSA 1.4a)

CSA Z21.20a
Automatic Gas Ignition Systems and Components

CSA Z21.21
Automatic Valves for Gas Appliances (same as CSA 6.5)

CSA Z21.22b
Relief Valves for Hot Water Supply Systems (same as CSA 4.4b)

CSA Z21.23
Gas Appliance Thermostats

CSA Z21.24a
Connectors for Gas Appliances

CSA Z21.35a
Pilot Gas Filters (same as CSA 6.8a)

CSA Z21.41
Quick Disconnect Devices for Use with Gas Fuel Appliances (same as CSA 6.9)

CSA Z21.42
Gas-Fired Illuminating Appliances

CSA Z21.47
Gas-Fired Central Furnaces (same as CSA 2.3)

CSA Z21.50
Vented Gas Fireplaces (same as CSA 2.22)

CSA Z21.54b
Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances (same as CSA 8.4b)

CSA Z21.56
Gas-Fired Pool Heaters (same as CSA 4.7)

CSA Z21.58b
Outdoor Cooking Gas Appliances (same as CSA 1.6b)

CSA Z21.60
Decorative Gas Appliances for Installation in Solid-Fuel Burning Fireplaces (same as CSA 2.26)

CSA Z21.69a
Connectors for Movable Gas Appliances (same as CSA 6.16a)

CSA Z21.71a
Automatic Intermittent Ignition Systems for Field Installation

CSA Z21.80a
Line Pressure Regulators (same as CSA 6.22a)

CSA Z21.86
Vented Gas-Fired Space Heating Appliances (same as CSA 2.32)

CSA Z21.88a
Vented Gas Fireplaces Heaters (same as CSA 2.33a)

CSA Z21.90b
Gas Convenience Outlets and Optional Enclosures (same as CSA 6.24b)

CSA Z83.4
Non-Recirculating Direct Gas-Fired Industrial Air Heaters (same as CSA 3.7)

CSA Z83.7
Gas-Fired Construction Heaters (same as CSA 2.14)

CSA Z83.8
Gas Unit Heaters, Gas Package Heaters and Gas-Fired Duct Furnaces (same as CSA 2.6)

CSA Z83.11b
Gas Food Service Equipment (same as CSA 1.8b)

CSA Z83.18b
Recirculating Direct Gas-Fired Industrial Air Heaters

CSA Z83.19a
Gas-Fired High-Intensity Infrared Heaters (same as CSA 2.35a)

CSA Z83.20b
Gas-Fired Low-Intensity Infrared Heaters (same as CSA 2.34b)

IAPMO IS 13
Protectively Coated Pipe

IAPMO PS 117
Press and Nail Connections

IAPMO PS 120
Flashing and Stand Combination for Air Conditioning Units (Residential or Commercial Unit Curb)

IAPMO Z1033
Flexible PVC Hoses and Tubing for Pools, Hot Tubs, Spas and Jetted Bathtub

IAS 1-91
U.S. Requirements for Indirect Water Heaters for Use With External Heat Sources

IIAR 2
Equipment, Design, and Installation of Closed-Circuit Ammonia Mechanical Refrigerating Systems

MSS SP-6
Finishes for Contact Faces of Pipe Flanges and Connecting-End Flanges of Valves and Fittings

MSS SP-58
Pipe Hangers and Supports-Materials, Design, Manufacture, Selection, Application, and Installation

MSS SP-67
Butterfly Valves

MSS SP-80
Bronze Gate, Globe, Angle, and Check Valves

MSS SP-104
Wrought Copper Solder Joint Pressure Fittings

MSS SP-106
Cast Copper Alloy Flanges and Flanged Fittings: Class 125, 150 and 300

MSS SP-109
Welded Fabricated Copper Solder Joint Pressure Fittings

NEBB 2005
Procedural Standards for Testing Adjusting and Balancing of Environmental Systems

PPI TR-4
Listing for Hydrostatic Design Basis (HDB), Strength Design Basis (SDB), Pressure Design Basis (PDB) and Minimum Required Strength (MRS) Ratings for Thermoplastic Piping Materials or Pipe

SAE J512
Automotive Tube Fittings
| UL 17 | Vent or Chimney Connector Dampers for Oil-Fired Appliances |
| UL 21 | LP-Gas Hose |
| UL 33 | Heat Responsive Links for Fire-Protection Service |
| UL 51 | Power-Operated Pumps and Bypass Valves for Anhydrous Ammonia, LP-Gas and Propylene |
| UL 80 | Steel Tanks for Oil-Burner Fuels and Other Combustible Liquids |
| UL 103 | Factory Built Chimneys for Residential Type and Building Heating Appliances |
| UL 125 | Flow Control Valves for Anhydrous Ammonia and LP-Gas |
| UL 127 | Factory-Built Fireplaces |
| UL 132 | Safety Relief Valves for Anhydrous Ammonia and LP-Gas |
| UL 144 | LP-Gas Regulators |
| UL 174 | Household Electric Storage Tank Water Heaters |
| UL 180 | Liquid-Level Indicating Gauges for Oil Burner Fuels |
| UL 181 | Factory-Made Air Ducts and Air Connectors |
| UL 181A | Closure Systems for Use with Rigid Air Ducts |
| UL 181B | Closure Systems for Use with Flexible Air Ducts and Air Connectors |
| UL 197 | Commercial Electric Cooking Appliances |
| UL 207 | Refrigerant-Containing Components and Accessories, Nonelectrical |
| UL 252 | Compressed Gas Regulators |
| UL 268A | Smoke Detectors for Duct Application |
| UL 296 | Oil Burners |
| UL 300 | Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment |
| UL 343 | Pumps for Oil-Burning Appliances |
| UL 353 | Limit Controls |
| UL 378 | Draft Equipment |
| UL 391 | Solid-Fuel and Combination-Fuel Central and Supplementary Furnaces |
| UL 399 | Drinking Water Coolers |
| UL 404 | Gauges, Indicating Pressure for Compressed Gas Service |
| UL 412 | Refrigeration Unit Coolers |
| UL 429 | Electrically Operated Valves |
| UL 441 | Gas Vents |
| UL 443 | Steel Auxiliary Tanks for Oil-Burner Fuel |
| UL 471 | Commercial Refrigerators and Freezers |
| UL 525 | Flame Arresters |
| UL 536 | Flexible Metallic Hose |
| UL 555 | Fire Dampers |
| UL 555C | Ceiling Dampers |
| UL 555S | Smoke Dampers |
| UL 565 | Liquid-Level Gauges and Indications for Anhydrous Ammonia and LP-Gas |
| UL 569 | Pigtails and Flexible Hose Connectors for LP-Gas |
| UL 641 | Type L Low-Temperature Venting Systems |
| UL 651 | Schedule 40, 80 Type EB and A Rigid PVD Conduit and Fittings |
| UL 710 | Exhaust Hoods for Commercial Cooking Equipment |
| UL 710B | Recirculating Systems |
| UL 723 | Test for Surface Burning Characteristics of Building Materials |
| UL 726 | Oil-Fired Boiler Assemblies |
| UL 727 | Oil-Fired Central Furnaces |
| UL 729 | Oil-Fired Floor Furnaces |
| UL 730 | Oil-Fired Wall Furnaces |
| UL 731 | Oil-Fired Unit Heater |
| UL 732 | Oil-Fired Storage Tank Water Heaters |
Certification Marks:

**UPC®**
Uniform Plumbing Code Certification Marks
The product complies with BOTH the product's performance standard AND the Uniform Plumbing Code *(UPC)*. Applies to all plumbing products, appliances, pipe, fixtures, valves and related products.

**UMC®**
Uniform Mechanical Code Certification Marks
The product complies with BOTH product's performance standard AND the Uniform Mechanical Code *(UMC)*.

**USPC®**
Uniform Pool, Spa & Hot Tub Code Certification Marks
The product complies with BOTH the product's performance standard AND the Uniform Swimming Pool, Spa and Hot Tub Code *(USPC)*.

**USEC®**
Uniform Solar Energy Code Certification Marks
The product complies with BOTH the product's performance standard AND the Uniform Solar Energy Code *(USEC)*.

**IAPMO R&T Mark**
This marking indicates that the product has been tested and complies with the product’s specifications or legislative standard.

**LOW-LEAD**
IAPMO R&T Low Lead Mark
This marking indicates that the product has been tested and found to comply with the low-lead requirements for drinking water system components
This agency is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2017 Edition:

This agency is also approved for listing of plumbing products to meet the lead-free requirements of Section 116875 of the California Health and Safety Code.

**Mechanical Standards**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHRI 700</td>
<td>Specification for Fluorocarbon Refrigerants</td>
</tr>
<tr>
<td>ASCE 25</td>
<td>Earthquake Actuated Automatic Gas Shutoff Devices</td>
</tr>
<tr>
<td>ASHRAE 62.1</td>
<td>Ventilation for Acceptable Indoor Air Quality</td>
</tr>
<tr>
<td>ASME A13.1</td>
<td>Scheme for the Identification of Piping Systems</td>
</tr>
<tr>
<td>ASME A112.18.6/CSA B125.6</td>
<td>Flexible Water Connectors</td>
</tr>
<tr>
<td>ASME A112.4.1</td>
<td>Water Heater Relief Valve Drain Tubes</td>
</tr>
<tr>
<td>ASME B1.20.1</td>
<td>Pipe Threads, General Purpose (Inch)</td>
</tr>
<tr>
<td>ASME B1.20.3</td>
<td>Dryseal Pipe Threads (Inch)</td>
</tr>
<tr>
<td>ASME B16.1</td>
<td>Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250</td>
</tr>
<tr>
<td>ASME B16.18</td>
<td>Cast Copper Alloy Solder Joint Pressure Fittings</td>
</tr>
<tr>
<td>ASME B16.20</td>
<td>Metallic Gaskets For Pipe Flanges: Ring-Joint, Spiral-Wound, And Jacketed</td>
</tr>
<tr>
<td>ASME B16.21</td>
<td>Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings</td>
</tr>
<tr>
<td>ASME B16.23</td>
<td>Cast Copper Alloy Solder Joint Drainage Fittings: DWV</td>
</tr>
<tr>
<td>ASME B16.24</td>
<td>Cast Copper Alloy Pipe Flanges and Flanged Fittings: Classes 150, 300, 600, 900, 1,500 and 2500</td>
</tr>
<tr>
<td>ASME B16.26</td>
<td>Cast Copper Alloy Fittings for Flared Copper Tubes</td>
</tr>
<tr>
<td>ASME B16.29</td>
<td>Wrought Copper and Wrought Copper Alloy Solder-Joint Drainage Fittings- DWV</td>
</tr>
<tr>
<td>ASME B16.33</td>
<td>Manually Operated Metallic Gas Valves for Use in Gas Piping Systems up to 175 psi (Sizes NPS 1/2 - NPS 2)</td>
</tr>
<tr>
<td>ASME B16.50</td>
<td>Wrought Copper and Copper Alloy Braze-Joint Pressure Fittings</td>
</tr>
<tr>
<td>ASME B31.5</td>
<td>Refrigeration Piping and Heat Transfer Components</td>
</tr>
<tr>
<td>ASME B36.10M</td>
<td>Welded and Seamless Wrought Steel Pipe</td>
</tr>
<tr>
<td>ASME Section IV</td>
<td>Rules for Construction of Heating Boilers</td>
</tr>
<tr>
<td>ASME Section VIII</td>
<td>Rules for Construction of Pressure Vessels Division 1</td>
</tr>
<tr>
<td>ASTM A53 / A53M</td>
<td>Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded, and Seamless</td>
</tr>
<tr>
<td>ASTM A53 / A53M</td>
<td>Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process</td>
</tr>
<tr>
<td>ASTM A312 / A312M</td>
<td>Seamless, Welded and Heavy Cold Worked Austenitic Stainless Steel Pipes</td>
</tr>
<tr>
<td>ASTM A653 / A653M</td>
<td>Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process</td>
</tr>
<tr>
<td>ASTM A733</td>
<td>Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples</td>
</tr>
</tbody>
</table>
ASTM A861  
High-Silicon Iron Pipe and Fittings

ASTM B32  
Solder Metal

ASTM B42  
Seamless Copper Pipe, Standard Sizes

ASTM B43  
Seamless Red Brass Pipe, Standard Sizes

ASTM B75 / B75M  
Seamless Copper Tube

ASTM B88  
Seamless Copper Water Tube

ASTM B135  
Seamless Brass Tube

ASTM B210  
Aluminum and Aluminum-Alloy Drawn Seamless Tubes

ASTM B241 / B241M  
Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube

ASTM B280  
Seamless Copper Tube for Air Conditioning and Refrigeration Field Service

ASTM B302  
Threadless Copper Pipe, Standard Sizes

ASTM B306  
Copper Drainage Tube (DWV)

ASTM B370  
Copper Sheet and Strip for Building Construction

ASTM B447  
Welded Copper Tube

ASTM B587  
Welded Brass Tube

ASTM B687  
Brass, Copper, and Chromium-Plated Pipe Nipples

ASTM B813  
Liquid and Paste Fluxes for Soldering Applications of Copper and Copper Alloy Tube

ASTM B828  
Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings

ASTM C411  
Hot-Surface Performance of High-Temperature Thermal Insulation

ASTM C518  

ASTM D93  
Flash Point by Pensky-Martens Closed Cup Tester

ASTM D2513  
Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings

ASTM E84  
Surface Burning Characteristics of Building Materials

ASTM E814  
Fire Tests of Penetration Firestop Systems

ASTM E2336  
Fire Resistive Grease Duct Enclosure Systems

ASTM F1807  
Metal Insert Fittings Utilizing Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR 9 Polyethylene of Raised Temperature (PE-RT) Tubing

ASTM F1960  
Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing

ASTM F1961  
Metal Mechanical Cold Flare Compression Fittings with Disc Springs for Cross-linked Polyethylene (PEX) Tubing

ASTM F1970  
Special Engineered Fittings or Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems

ASTM F1973  
Factory Assembled Anodeless Risers and Transition Fitting in Polyethylene (PE) and Polyamide 11 (PA11) and Polyamide 12 (PA12) Fuel Gas Distribution Systems

ASTM F1974  
Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe

ASTM F2080  
Cold-Expansion Fittings With Metal Compression-Sleeves for Crosslinked Polyethylene (PEX) Pipe

ASTM F2098  
Stainless Steel Clamps for Securing SDR9 Crosslinked Polyethylene (PEX) Tubing to Metal Insert and Plastic Insert Fittings

ASTM F2158  
Residential Central-Vacuum Tube and Fittings

ASTM F2159  
Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

ASTM F2434  
Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Crosslinked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Tubing

ASTM F2509  
Field-Assembled Anodeless Riser Kits for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing

AWS A5.8 / A5.8M  
Filler Metals for Brazing and Braze Welding

AWS B2.4  
Welding Procedure and Performance Qualification for Thermoplastics

AWWA C110  
Ductile-Iron and Gray-Iron Fittings
AWWA C151
Ductile-Iron Pipe, Centrifugally Cast

AWWA C203
Coal-Tar Protective Coatings and Linings for Steel Water Pipelines - Enamel and Tape - Hot-Applied

AWWA C500
Metal-Seated Service Gate Valves for Water Supply Service

CAN/CGSB 3.2
Heating Fuel Oil

CGA 2.91a
Gas-Fired, Heat Activated Air Conditioning and Heat Pump Appliances (same as CSA Z21.40.1)

CGA 6.14
Automatic Vent Damper Devices for Use with Gas-Fired Appliances (same as CSA Z21.66)

CSA F379 Series
Packaged Solar Domestic Hot Water Systems (Liquid-to-Liquid Heat Transfer)

CSA FC 1
Stationary Fuel Cell Power Systems

CSA LC 1b
Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST) (same as 6.26b)

CSA LC 4a
Press-Connect Metallic Fittings For Use in Fuel Gas Distribution Systems (same as CSA 6.32a)

CSA Z21.1b
Household Gas Cooking Appliances

CSA Z21.5.1a
Gas Clothes Dryers - Volume I, Type 1 Clothes Dryers (same as CSA 7.1a)

CSA Z21.5.2
Gas Clothes Dryers - Volume II, Type 2 Clothes Dryers (same as CSA 7.2)

CSA Z21.10.1
Gas Water Heaters - Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu Per Hour or Less (same as CSA 4.1)

CSA Z21.10.3
Gas-Fired Water Heaters – Volume III, Storage Water Heaters with Input Ratings Above 75,000 Btu Per Hour, Circulating and Instantaneous (same as CSA 4.3)

CSA Z21.11.2
Gas-Fired Room Heaters, Volume II, Unvented Room Heaters

CSA Z21.12b
Draft Hoods

CSA Z21.13
Gas-Fired Low Pressure Steam and Hot Water Boilers (same as CSA 4.9)

CSA Z21.15b
Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves (same as CSA 9.1b)

CSA Z21.17a
Domestic Gas Conversion Burners (same as CSA 2.27a)

CSA Z21.18b
Gas Appliance Pressure Regulators (same as CSA 6.3b)

CSA Z21.19a
Refrigerators Using Gas Fuel (same as CSA 1.4a)

CSA Z21.20a
Automatic Gas Ignition Systems and Components

CSA Z21.21
Automatic Valves for Gas Appliances (same as CSA 6.5)

CSA Z21.22b
Relief Valves for Hot Water Supply Systems (same as CSA 4.4b)

CSA Z21.23
Gas Appliance Thermostats

CSA Z21.24a
Connectors for Gas Appliances (same as CSA 6.10a)

CSA Z21.35a
Pilot Gas Filters (same as CSA 6.8a)

CSA Z21.41
Quick Disconnect Devices for Use with Gas Fuel Appliances (same as CSA 6.9)

CSA Z21.42
Gas-Fired Illuminating Appliances

CSA Z21.50
Vented Gas Fireplaces (same as CSA 2.22)

CSA Z21.54b
Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances (same as CSA 8.4b)

CSA Z21.56
Gas-Fired Pool Heaters (same as CSA 4.7)

CSA Z21.58b
Outdoor Gas Cooking Appliances (same as CSA 1.6b)

CSA Z21.60
Decorative Gas Appliances for Installation in Solid-Fuel Burning Fireplaces (same as CSA 2.26)

CSA Z21.61
Gas-Fired Toilets

CSA Z21.69a
Connectors for Moveable Gas Appliances (same as CSA 6.16a)

CSA Z21.71a
Automatic Intermittent Ignition Systems for Field Installation

CSA Z21.80a
Line Pressure Regulators (same as CSA 6.22a)

CSA Z21.86
Vented Gas-Fired Space Heating Appliances (same as CSA 2.32)

CSA Z21.88a
Vented Gas Fireplace Heaters (same as CSA 2.33a)

CSA Z21.90b
Gas Convenience Outlets and Optional Outlets (same as CSA 6.24)

CSA Z83.4
Non-Recirculating Direct Gas-Fired Industrial Air Heaters (same as CSA 3.7)

CSA Z83.7
Gas-Fired Construction Heaters (same as CSA 2.14)
CSA Z83.8
Gas Unit Heaters, Gas Packaged Heaters, Gas Utility Heaters, and Gas-Fired Duct Furnaces (same as CSA 2.6)

CSA Z83.11b
Gas Food Service Equipment (same as CSA 1.8b)

CSA Z83.18
Recirculating Direct Gas-Fired Industrial Air Heaters

CSA Z83.19a
Gas-Fired High-Intensity Infrared Heaters (same as CSA 2.35a)

CSA Z83.20b
Gas-Fired Low-Intensity Infrared Heaters (same as CSA 2.34b)

IAPMO PS 120
Flashing and Stand Combination for Air Conditioning Units (Residential or Commercial Unit Curb)

IAPMO Z1033
Flexible PVC Hose for Pools, Hot Tubs, Spas and Jetted Bathtub

IAS 1-91
U.S. Requirements for Indirect Water Heaters for Use With External Heat Source

IIAR 2
Equipment, Design, and Installation of Closed-Circuit Ammonia Mechanical Refrigerating Systems

MSS SP-6
Finishes for Contact Faces of Pipe Flanges and Connecting-End Flanges of Valves and Fittings

MSS SP-58
Pipe Hangers and Supports – Materials, Design, Manufacture, Selection, Application, and Installation

MSS SP-67
Butterfly Valves

MSS SP-80
Bronze Gate, Globe, Angle, and Check Valves

MSS SP-104
Wrought Copper Solder-Joint Pressure Fittings

MSS SP-106
Cast Copper Alloy Flanges and Flanged Fittings Class 125, 150, and 300

MSS SP-109
Welded Fabricated Copper Solder-Joint Pressure Fittings

PPI TR-4
Listing for Hydrostatic Design Basis (HBD), Hydrostatic Design Stress (HDS), Strength Design Basis (SDB), Pressure Design Basis (PDB) and Minimum Required Strength (MRS) Ratings for Thermoplastic Piping Materials or Pipe

SAE J512
Automotive Tube Fittings

SMACNA-2003
Fibrous Glass Duct Construction Standard, 7th Edition

SMACNA-2006
HVAC Duct Construction Standards Metal and Flexible, 3rd Edition

UL 17
Vent or Chimney Connector Dampers for Oil-Fired Appliances

UL 21
LP-Gas Hose

UL 33
Heat Responsive Links for Fire-Protection Service

UL 51
Power-Operated Pumps and Bypass Valves for Anhydrous Ammonia, LP-Gas, and Propylene

UL 80
Steel Tanks for Oil-Burner Fuels and Other Combustible Liquids

UL 103
Factory-Built Chimneys for Residential Type and Building Heating Appliances

UL 125
Flow Control Valves for Anhydrous Ammonia and LP-Gas

UL 127
Factory-Built Fireplaces

UL 132
Safety Relief Valves for Anhydrous Ammonia and LP-Gas

UL 144
LP-Gas Regulators

UL 174
Household Electric Storage Tank Water Heaters

UL 180
Liquid-Level Indicating Gauges for Oil Burner Fuels

UL 181
Factory-Made Air Ducts and Air Connectors

UL 181A
Closure Systems for Use with Rigid Air Ducts

UL 181B
Closure Systems for Use with Flexible Air Ducts and Air Connectors

UL 197
Commercial Electric Cooking Appliances

UL 207
Refrigerant-Containing Components and Accessories, Nonelectrical

UL 252
Compressed Gas Regulators

UL 268A
Smoke Detectors for Duct Application

UL 296
Oil Burners

UL 300
Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment

UL 343
Pumps for Oil-Burning Appliances

UL 353
Limit Controls

UL 378
Draft Equipment

UL 391
Solid-Fuel and Combination-Fuel Central and Supplementary Furnaces
| UL 399 | Drinking Water Coolers |
| UL 404 | Gauges, Indicating Pressure, for Compressed Gas Service |
| UL 412 | Refrigeration Unit Coolers |
| UL 429 | Electrically Operated Valves |
| UL 441 | Gas Vents |
| UL 443 | Steel Auxiliary Tanks for Oil-Burner Fuel |
| UL 471 | Commercial Refrigerators and Freezers |
| UL 525 | Flame Arresters |
| UL 555 | Fire Dampers |
| UL 555C | Ceiling Dampers |
| UL 555S | Smoke Dampers |
| UL 565 | Liquid-Level Gauges and Indicators for Anhydrous Ammonia and LP-Gas |
| UL 569 | Pigtails and Flexible Hose Connectors for LP-Gas |
| UL 641 | Type L Low-Temperature Venting Systems |
| UL 710 | Exhaust Hoods for Commercial Cooking Equipment |
| UL 723 | Test for Surface Burning Characteristics of Building Materials |
| UL 726 | Oil-Fired Boiler Assemblies |
| UL 727 | Oil-Fired Central Furnaces |
| UL 729 | Oil-Fired Floor Furnaces |
| UL 730 | Oil-Fired Wall Furnaces |
| UL 731 | Oil-Fired Unit Heaters |
| UL 732 | Oil-Fired Storage Tank Water Heaters |
| UL 733 | Oil-Fired Air Heaters and Direct-Fired Heaters |
| UL 737 | Fireplace Stoves |
| UL 791 | Residential Incinerators |
| UL 795 | Commercial-Industrial Gas Heating Equipment |
| UL 834 | Heating, Water Supply, and Power Boilers–Electric |
| UL 842 | Valves for Flammable Fluids |
| UL 858 | Household Electric Ranges |
| UL 867 | Electrostatic Air Cleaners |
| UL 896 | Oil-Burning Stoves |
| UL 900 | Air Filter Units |
| UL 907 | Fireplace Accessories |
| UL 921 | Commercial Dishwashers |
| UL 959 | Medium Heat Appliance Factory-Built Chimneys |
| UL 984 | Hermetic Refrigerant Motor-Compressors |
| UL 1026 | Electric Household Cooking and Food Serving Appliances |
| UL 1046 | Grease Filters for Exhaust Ducts |
| UL 1206 | Electric Commercial Clothes-Washing Equipment |
| UL 1240 | Electric Commercial Clothes-Drying Equipment |
| UL 1453 | Electric Booster and Commercial Storage Tank Water Heaters |
| UL 1479 | Fire Tests of Through-Penetration Firestops |
| UL 1482 | Solid-Fuel Type Room Heaters |
| UL 1746 | External Corrosion Protection Systems for Steel Underground Storage Tanks |
| UL 1777 | Chimney Liners |
| UL 1812 | Ducted Heat Recovery Ventilators |
| UL 1815 | Nonducted Heat Recovery Ventilators |
| UL 1820 | Fire Test of Pneumatic Tubing for Flame and Smoke Characteristics |
| UL 1887 | Fire Test of Plastic Sprinkler Pipe for Visible Flame and Smoke Characteristics |
| UL 1963 | Refrigerant Recovery/ Recycling Equipment |
| UL 1978 | Grease Ducts |
| UL 1995 | Heating and Cooling Equipment |
| UL 2021 | Fixed and Location-Dedicated Electric Room Heaters |
UL 2043
Fire Test for Heat and Visible Smoke
Release For Discrete Products and Their Accessories Installed in Air-Handling Spaces

UL 2157
Electric Clothes Washing Machines and Extractors

UL 2158
Electric Clothes Dryers

UL 2200
Stationary Engine Generator Assemblies

UL 2221
Tests of Fire Resistive Grease Duct Enclosure Assemblies

Plumbing Standards

AHAM FWD-1
Food Waste Disposers

APSP 1
Public Swimming Pools

ASCE 25
Earthquake-Actuated Automatic Gas Shutoff Devices

ASME A13.1
Scheme for the Identification of Piping Systems

ASME A112.1.3
Air Gap Fittings for Use with Plumbing Fixtures, Appliances, and Appurtenances

ASME A112.3.1
Stainless Steel Drainage Systems for Sanitary DWV, Storm, and Vacuum Applications, Above- and Below-Ground

ASME A112.3.4/CSA B45.9
Plumbing Fixtures with Pumped Waste and Macerating Toilet Systems

ASME A112.4.1
Water Heater Relief Valve Drain Tubes

ASME A112.4.2
Water Closet Personal Hygiene Devices

ASME A112.4.3
Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System

ASME A112.4.14
Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems

ASME A112.6.1M
Floor-Affixed Supports for Off-the-Floor Plumbing Fixtures for Public Use

ASME A112.6.2
Framing-Affixed Supports for Off-the-Floor Water Closets with Concealed Tanks

ASME A112.6.3
Floor and Trench Drains

ASME A112.6.4
Roof, Deck, and Balcony Drains

ASME A112.6.7
Sanitary Floor Sinks

ASME A112.6.9
Siphonic Roof Drains

ASME A112.14.1
Backwater Valves

ASME A112.14.3
Grease Interceptors

ASME A112.14.4
Grease Removal Devices

ASME A112.14.6
FOG (Fats, Oils, and Greases) Disposal Systems

ASME A112.18.1/CSA B125.1
Plumbing Supply Fittings

ASME A112.18.2/CSA B125.2
Plumbing Waste Fittings

ASME A112.18.3
Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixtures Fittings

ASME A112.18.6/CSA B125.6
Flexible Water Connectors

ASME A112.19.1/CSA B45.2
Enamede Cast-Iron and Enamede Steel Plumbing Fixtures

ASME A112.19.2/CSA B45.1
Ceramic Plumbing Fixtures

ASME A112.19.3/CSA B45.4
Stainless Steel Plumbing Fixtures

ASME A112.19.5/CSA B45.15
Flush Valves and Spuds for Water Closets, Urinals and Tanks

ASME A112.19.7/CSA B45.10
Hydromassage Bathtub Appliances

ASME A112.19.10
Dual Flush Devices for Water Closets

ASME A112.19.12
Wall Mounted, Pedestal Mounted, Adjustable, Elevating, Tilting and Pivoting Lavatory, Sink, and Shampoo Bowl Carrier Systems and Drainage Waste Systems

ASME A112.19.14
Six-Liter Water Closets Equipped with a Dual Flushing Device

ASME A112.19.15
Bathtubs/Whirlpool Bathtubs with Pressure Sealed Doors

ASME A112.19.19
Vitreous China Nonwater Urinals

ASME A112.21.3M
Hydrants for Utility and Maintenance Use

ASME A112.36.2M
Cleanouts

ASME B1.20.1
Pipe Threads, General Purpose, Inch

ASME B1.20.3
Dryseal Pipe Threads, (Inch)

ASME B16.1
Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, 250

ASME B16.3
Malleable Iron Threaded Fittings: Classes 150 and 300
| ASME B16.4 | Gray Iron Threaded Fittings: Classes 125 and 250 |
| ASME B16.5 | Pipe Flanges and Flanged Fittings: NPS ½ through 24 Metric/Inch |
| ASME B16.12 | Cast Iron Threaded Drainage Fittings |
| ASME B16.15 | Cast Copper Alloy Threaded Fittings: Classes 125 and 250 |
| ASME B16.18 | Cast Copper Alloy Solder Joint Pressure Fittings |
| ASME B16.20 | Metallic Gaskets For Pipe Flanges: Ring-Joint, Spiral-Wound, And Jacketed |
| ASME B16.21 | Nonmetallic Flat Gaskets for Pipe Flanges |
| ASME B16.22 | Wrought Copper and Copper Alloy Solder Joint Pressure Fittings |
| ASME B16.23 | Cast Copper Alloy Solder Joint Drainage Fittings: DWV |
| ASME B16.24 | Cast Copper Alloy Pipe Flanges and Flanged Fittings: Classes 150, 300, 600, 900, 1,500 and 2,500 |
| ASME B16.26 | Cast Copper Alloy Fittings for Flared Copper Tubes |
| ASME B16.29 | Wrought Copper and Wrought Copper Alloy Solder-Joint Drainage Fittings - DWV |
| ASME B16.33 | Manually Operated Metallic Gas Valves for Use in Gas Piping Systems up to 175 psi (Sizes NPS 1/2 - NPS 2) |
| ASME B16.34 | Valves – Flanged, Threaded, and Welding End |
| ASME B16.39 | Malleable Iron Threaded Pipe Unions: Classes 150, 250 and 300 |
| ASME B16.40 | Manually Operated Thermoplastic Gas Shutoff and Valves in Gas Distribution Systems |
| ASME B16.47 | Large Diameter Steel Flanges: NPS 26 through NPS 60 Metric/Inch Standard |
| ASME B16.50 | Wrought Copper and Copper Alloy Braze-Joint Pressure Fittings |
| ASME B31.1 | Power Piping |
| ASME B36.10M | Welded and Seamless Wrought Steel Pipe |
| ASME B36.19 | Stainless Steel Pipe |
| ASME BPVC Section IV | Rules for Construction of Heating Boilers |
| ASME BPVC Section VIII | Rules for Construction of Pressure Vessels Division 1 |
| ASME BPVC Section IX | Welding, Brazing, and Fusing Qualifications |
| ASSE 1001 | Atmospheric-Type Vacuum Breakers |
| ASSE 1002 | Anti-Siphon Fill Valves for Water Closet Tanks |
| ASSE 1003 | Water Pressure Reducing Valves for Domestic Water Distribution Systems |
| ASSE 1004 | Backflow Prevention Requirements for Commercial Dishwashing Machines |
| ASSE 1008 | Plumbing Aspects of Residential Food Waste Disposer Units |
| ASSE 1010 | Water Hammer Arresters |
| ASSE 1011 | Hose Connection Vacuum Breakers |
| ASSE 1012 | Backflow Preventer with Intermediate Atmospheric Vent |
| ASSE 1013 | Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers |
| ASSE 1014 | Backflow Prevention Devices for Hand-Held Showers |
| ASSE 1015 | Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies |
| ASSE 1016 / ASME A112.1016 / CSA B124.16 | Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations |
| ASSE 1017 | Temperature Actuated Mixing Valves for Hot Water Distribution Systems |
| ASSE 1018 | Trap Seal Primer Valves-Potable Water Supplied |
| ASSE 1019 | Wall Hydrant with Backflow Protection and Freeze Resistance |
| ASSE 1020 | Pressure Vacuum Breaker Assembly |
| ASSE 1022 | Backflow Preventer for Beverage Dispensing Equipment |
| ASSE 1023 | Hot Water Dispensers Household Storage Type - Electrical |
| ASSE 1024 | Dual Check Valve Backflow Preventers |
| ASSE 1032 | Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers-Post Mix Type |
| ASSE 1035 | Laboratory Faucet Backflow Preventers |
| ASSE 1037 | Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures |
ASSE 1044
Trap Seal Primer Devices-Drainage Types and Electronic Design Types

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1049
Hose Connection Backflow Preventers

ASSE 1055
Chemical Dispensing Systems

ASSE 1056
Spill Resistant Vacuum Breaker Assemblies

ASSE 1060
Outdoor Enclosures for Backflow Prevention Assemblies

ASSE 1061
Push-Fit Fittings

ASSE 1062
Temperature Actuated, Flow Reduction (TAFR) Valves for Individual Fixture Fittings

ASSE 1066
Individual Pressure Balancing In-Line Valves for Individual Fixture Fittings

ASSE 1069
Automatic Temperature Control Mixing Valves

ASSE 1070
Water Temperature Limiting Devices

ASSE 1079
Dielectric Pipe Unions

ASSE Series 5000
Cross-Connection Control Professional Qualifications

ASSE Series 6000
Professional Qualifications Standard for Medical Gas Systems Personnel

ASTM A47/ A47M
Ferritic Malleable Iron Castings

ASTM A48 / A48M
Gray Iron Castings

ASTM A53 / A53M
Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded, and Seamless

ASTM A74
Cast Iron Soil Pipe and Fittings

ASTM A126
Gray Iron Castings for Valves, Flanges, and Pipe Fittings

ASTM A197
Cupola Malleable Iron

ASTM A269
Seamless and Welded Austenitic Stainless Steel Tubing for General Service

ASTM A312 / A312M
Seamless, Welded and Heavy Cold Worked Austenitic Stainless Steel Pipes

ASTM A377
Ductile-Iron Pressure Pipe

ASTM A479 / A479M
Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels

ASTM A518/ A518M
Corrosion-Resistant High-Silicon Iron Castings

ASTM A536
Ductile Iron Castings

ASTM A653/ A653M
Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

ASTM A733
Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples

ASTM A861
High-Silicon Iron Pipe and Fittings

ASTM A888
Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications

ASTM B29
Refined Lead

ASTM B32
Solder Metal

ASTM B42
Seamless Copper Pipe, Standard Sizes

ASTM B43
Seamless Red Brass Pipe, Standard Sizes

ASTM B75/ B75M
Seamless Copper Tube

ASTM B88
Seamless Copper Water Tube

ASTM B135
Seamless Brass Tube

ASTM B152/ B152M
Copper Sheet, Strip, Plate, and Rolled Bar

ASTM B187/ B187M
Copper Bar, Bus Bar, Rod and Shapes and Shapes and General Purpose Rod, Bar and Shapes

ASTM B251
General Requirements for Wrought Seamless Copper and Copper-Alloy Tube

ASTM B280
Seamless Copper Tube for Air Conditioning and Refrigeration Field Service

ASTM B302
Threadless Copper Pipe, Standard Sizes

ASTM B306
Copper Drainage Tube (DWV)

ASTM B370
Copper Sheet and Strip for Building Construction

ASTM B447
Welded Copper Tube

ASTM B584
Copper Alloy Sand Casting for General Applications

ASTM B587
Welded Brass Tube

ASTM B687
Brass, Copper, and Chromium-Plated Pipe Nipples

ASTM B813
Liquid and Paste Fluxes for Soldering Applications of Copper and Copper Alloy Tube

ASTM B819
Seamless Copper Tube for Medical Gas Systems
<table>
<thead>
<tr>
<th>ASTM B828</th>
<th>Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM C14</td>
<td>Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe</td>
</tr>
<tr>
<td>ASTM C412</td>
<td>Concrete Drain Tile</td>
</tr>
<tr>
<td>ASTM C425</td>
<td>Compression Joints for Vitrified Clay Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM C443</td>
<td>Joints for Concrete Pipe and Manholes, Using Rubber Gaskets</td>
</tr>
<tr>
<td>ASTM C478</td>
<td>Precast Reinforced Concrete Manhole Sections</td>
</tr>
<tr>
<td>ASTM C564</td>
<td>Rubber Gaskets for Cast Iron Soil Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM C700</td>
<td>Vitrified Clay Pipe, Extra Strength, Standard Strength, and Perforated</td>
</tr>
<tr>
<td>ASTM C1053</td>
<td>Borosilicate Glass Pipe and Fittings for Drain, Waste, and Vent (DWV)</td>
</tr>
<tr>
<td>ASTM C1173</td>
<td>Flexible Transition Couplings for Underground Piping Systems</td>
</tr>
<tr>
<td>ASTM C1227</td>
<td>Precast Concrete Septic Tanks</td>
</tr>
<tr>
<td>ASTM C1277</td>
<td>Shielded Couplings Joining Hubless Cast Iron Soil Pipe &amp; Fittings</td>
</tr>
<tr>
<td>ASTM C1440</td>
<td>Thermoplastic Elastomeric (TPE) Gasket Materials for Drain, Waste, and Vent (DWV), Sewer, Sanitary and Storm Plumbing Systems</td>
</tr>
<tr>
<td>ASTM C1460</td>
<td>Shielded Transition Couplings for Use with Dissimilar DWV Pipe and Fittings Above Ground</td>
</tr>
<tr>
<td>ASTM C1461</td>
<td>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</td>
</tr>
<tr>
<td>ASTM C1540</td>
<td>Heavy Duty Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D1784</td>
<td>Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds</td>
</tr>
<tr>
<td>ASTM D1785</td>
<td>Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120</td>
</tr>
<tr>
<td>ASTM D2235</td>
<td>Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2239</td>
<td>Polyethylene (PE) Plastic Pipe, (SIDR-PR) Based on Controlled Inside Diameter</td>
</tr>
<tr>
<td>ASTM D2241</td>
<td>Poly (Vinyl Chloride) (PVC) Pressure-Rated pipe (SDR Series)</td>
</tr>
<tr>
<td>ASTM D2321</td>
<td>Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications</td>
</tr>
<tr>
<td>ASTM D2464</td>
<td>Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80</td>
</tr>
<tr>
<td>ASTM D2466</td>
<td>Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40</td>
</tr>
<tr>
<td>ASTM D2467</td>
<td>Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80</td>
</tr>
<tr>
<td>ASTM D2513</td>
<td>Polyethylene (PE) Gas Pressure Pipe Tubing and Fittings</td>
</tr>
<tr>
<td>ASTM D2517</td>
<td>Reinforced Epoxy Resin Gas Pressure Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2564</td>
<td>Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems</td>
</tr>
<tr>
<td>ASTM D2609</td>
<td>Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe</td>
</tr>
<tr>
<td>ASTM D2657</td>
<td>Heat Fusion Joining of Polyolefin Pipe Fittings</td>
</tr>
<tr>
<td>ASTM D2665</td>
<td>Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2672</td>
<td>Joints for IPS PVC Pipe Using Solvent Cement</td>
</tr>
<tr>
<td>ASTM D2680</td>
<td>Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Composite Sewer Piping</td>
</tr>
<tr>
<td>ASTM D2683</td>
<td>Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing</td>
</tr>
<tr>
<td>ASTM D2729</td>
<td>Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2737</td>
<td>Polyethylene (PE) Plastic Tubing</td>
</tr>
<tr>
<td>ASTM D2751</td>
<td>Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2774</td>
<td>Underground Installation of Thermoplastic Pressure Piping</td>
</tr>
<tr>
<td>ASTM D2855</td>
<td>Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2996</td>
<td>Filament-Wound “Fiberglass” (Glass-Fiber- Reinforced Thermosetting Resin) Pipe</td>
</tr>
<tr>
<td>ASTM D3034</td>
<td>Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D3035</td>
<td>Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter</td>
</tr>
</tbody>
</table>
ASTM D3122  
Solvent Cements for Styrene-Rubber (SR) Plastic Pipe and Fittings

ASTM D3138  
Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene- Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Non-Pressure Piping Components

ASTM D3139  
Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

ASTM D3212  
Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals

ASTM D3261  
Butt Heat Fusion Polyethylene (PE) Plastic Fitting for Polyethylene (PE) Plastic Pipe and Tubing

ASTM D3311  
Drain, Waste, and Vent (DWV) Plastic Fittings Patterns

ASTM D3965  
Rigid Acrylonitrile-Butadiene-Styrene (ABS) Materials for Pipe and Fittings

ASTM D4068  
Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-Containment Membrane

ASTM D4101  
Polypropylene Injection and Extrusion Materials

ASTM D4551  
Poly (Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-Containment Membrane

ASTM D6104  
Determining the Performance of Oil/Water Separators Subjected to Surface Run-Off

ASTM E84  
Surface Burning Characteristics of Building Materials

ASTM E19  
Fire Tests of Building Construction and Materials

ASTM E814  
Fire Tests of Penetration Fire Stops

ASTM F402  
Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings

ASTM F405  
Corrugated Polyethylene (PE) Pipe and Fittings

ASTM F409  
Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings

ASTM F437  
Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80

ASTM F438  
Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40

ASTM F439  
Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80

ASTM F446  
Grab Bars and Accessories Installed in the Bathing Area

ASTM F480  
Thermoplastic Well Casing Pipe and Couplings Made in Standard Dimension Ratios (SDR), Schedule 40 and Schedule 80

ASTM F493  
Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings

ASTM F628  
Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe with a Cellular Core

ASTM F656  
Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings

ASTM F667  
3 through 24 in. Corrugated Polyethylene Pipe and Fittings

ASTM F714  
Polyethylene (PE) Plastic Pipe (DR-PR) Based on Outside Diameter

ASTM F794  
Poly (Vinyl Chloride) (PVC) Profile Gravity Sewer Pipe and Fittings Based on Controlled Inside Diameter

ASTM F810  
Smoothwall Polyethylene (PE) Pipe for Use in Drainage and Waste Disposal Absorption Fields

ASTM F891  
Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe with a Cellular Core

ASTM F894  
Polyethylene (PE) Large Diameter Profile Wall Sewer and Drain Pipe

ASTM F949  
Poly (Vinyl Chloride) (PVC) Corrugated Sewer Pipe with a Smooth Interior and Fittings

ASTM F1055  
Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and Crosslinked Polyethylene (PEX) Pipe and Fittings

ASTM F1216  
Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube

ASTM F1336  
Poly (Vinyl Chloride) (PVC) Gasketed Sewer Fittings

ASTM F1412  
Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

ASTM F1476  
Performance of Gasketed Mechanical Couplings for Use in Piping Applications

ASTM F1488  
Coextruded Composite Pipe

ASTM F1499  
Coextrude Composite Drain, Waste, and Vent Pipe (DWV)

ASTM F1673  
Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems

ASTM F1743  
Rehabilitation of Existing Pipelines and Conduits by Pulled-in-Place Installation of Cured-in Place Thermosetting Resin Pipe (CIPP)
ASTM F1807
Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Crosslinked Polyethylene of Raised Temperature (PE-RT) Tubing

ASTM F1866
Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings

ASTM F1924
Plastic Mechanical Fitting for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing

ASTM F1948
Metallic Fitting for Use on Outside Diameter Controlled Thermoplastic Gas Distribution Pipe and Tubing

ASTM F1960
Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing

ASTM F1961
Metal Mechanical Cold Flare Compression Fittings with Disc Springs for Cross-linked Polyethylene (PEX) Tubing

ASTM F1970
Special Engineered Fittings or Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems

ASTM F1973
Factory Assembled Anodeless Riser and Transition Fittings in Polyethylene (PE) and Polyamide 12 (PA12) Fuel Gas Distribution Systems

ASTM F1974
Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe

ASTM F1986
Multilayer Pipe Type 2, Compression Fittings, and Compression Joints for Hot and Cold Drinking-Water Systems

ASTM F2080
Cold-Expansion Fittings With Metal Compression-Sleeves for Cross-linked Polyethylene (PEX) Pipe

ASTM F2098
Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing to Metal Insert and Plastic Insert Fittings

ASTM F2159
Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raise Temperature (PE-RT) Tubing

ASTM F2165
Flexible Pre-Insulated Piping

ASTM F2434
Metal 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

ASTM F2509
Field-Assembled Anodeless Riser Kits for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing

ASTM F2831
Internal Non Structural Epoxy Barrier Coating Material Used in Rehabilitation of Metallic Pressurized Piping Systems

AWS A5.8
Filler Metals for Brazing and Braze Welding

AWS B2.2/ B2.2M
Brazing Procedure and Performance Qualification

AWS B2.4
Welding Procedure and Performance Qualification for Thermoplastics

AWWA C110
Ductile-Iron and Gray-Iron Fittings

AWWA C111
Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings

AWWA C151
Ductile-Iron Pipe, Centrifugally Cast

AWWA C153
Ductile-Iron Compact Fittings

AWWA C203
Coal-Tar Protective Coatings and Linings for Steel Water Pipelines - Enamel and Tape – Hot Applied

AWWA C213
Fusion-Bonded Epoxy Coating for the Interior and Exterior of Steel Water Pipelines

AWWA C215
Extruded Polyolefin Coatings for the Exterior of Steel Water Pipelines

AWWA C500
Metal-Seated Service Gate Valves for Water Supply Service

AWWA C504
Rubber Seated Butterfly Valves, 3 in. (75mm) through 72 in. (1800mm)

AWWA C507
Ball Valves, 6 in. through 60 in. (150 mm through 1,500 mm)

AWWA C510
Double Check Valve Backflow Prevention Assembly

AWWA C511
Reduced-Pressure Principle Backflow Prevention Assembly

AWWA C606
Grooved and Shouldered Joints

AWWA C900
Polyvinyl Chloride (PVC) Pressure Pipe and Fittings 4 in. through 12 in. (100 mm through 300 mm), for Water Transmission and Distribution

AWWA C901
Polyethylene (PE) Pressure Pipe and Tubing, 1/2 in. (13 mm) through 3 in. (76 mm), for Water Service

AWWA C907
Injection-Molded Polyvinyl Chloride (PVC) Pressure Fittings 4 in. through 12 in. (100mm through 300mm), for Water, Wastewater, and Reclaimed Water Service

CGA S-1.3
Pressure Relief Device Standards-Part 3-Stationary Storage Containers for Compressed Gases
<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
<th>Referenced Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGA V-1</td>
<td>Compressed Gas Cylinder Valve Outlet and Inlet Connections</td>
<td></td>
</tr>
<tr>
<td>CISPI 301</td>
<td>Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications</td>
<td></td>
</tr>
<tr>
<td>CISPI 310</td>
<td>Couplings for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications</td>
<td></td>
</tr>
<tr>
<td>CSA A257</td>
<td>Concrete Pipe and Manhole Sections</td>
<td></td>
</tr>
<tr>
<td>CSA B45.0</td>
<td>General Requirements for Plumbing Fixtures</td>
<td></td>
</tr>
<tr>
<td>CSA B45.5 / IAPMO Z124</td>
<td>Plastic Plumbing Fixtures</td>
<td></td>
</tr>
<tr>
<td>CSA B45.11 / IAPMO Z401</td>
<td>Glass Plumbing Fixtures</td>
<td></td>
</tr>
<tr>
<td>CSA B64</td>
<td>Backflow Preventers and Vacuum Breakers</td>
<td></td>
</tr>
<tr>
<td>CSA B64.1.1</td>
<td>Atmospheric Vacuum Breakers (AVB)</td>
<td></td>
</tr>
<tr>
<td>CSA B64.1.2</td>
<td>Pressure Vacuum Breakers (PVB)</td>
<td></td>
</tr>
<tr>
<td>CSA B64.2</td>
<td>Hose Connection Vacuum Breakers (HCVB)</td>
<td></td>
</tr>
<tr>
<td>CSA B64.2.1.1</td>
<td>Hose Connection Dual Check Type (HCDVB)</td>
<td></td>
</tr>
<tr>
<td>CSA B64.4</td>
<td>Reduced Pressure Principle (RP) Backflow Preventers</td>
<td></td>
</tr>
<tr>
<td>CSA B64.4.1</td>
<td>Reduced Pressure Principle Backflow Preventers for Fire Protection Systems (RPF)</td>
<td></td>
</tr>
<tr>
<td>CSA B64.5</td>
<td>Double Check Valve (DVCA) Backflow Preventers</td>
<td></td>
</tr>
<tr>
<td>CSA B64.5.1</td>
<td>Double Check Valve Backflow Preventers for Fire Protection Systems (DVCAF)</td>
<td></td>
</tr>
<tr>
<td>CSA B64.7</td>
<td>Laboratory Faucet Vacuum Breakers (LFVB)</td>
<td></td>
</tr>
<tr>
<td>CSA B79</td>
<td>Commercial and Residential Drains and Cleanouts</td>
<td></td>
</tr>
<tr>
<td>CSA B125.3</td>
<td>Plumbing Fittings</td>
<td></td>
</tr>
<tr>
<td>CSA B128.1 / CSA B128.2</td>
<td>Design and Installation of Non-Potable Water Systems/Maintenance and Field Testing of Non-Potable Water Systems</td>
<td></td>
</tr>
<tr>
<td>CSA B137.1</td>
<td>Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services</td>
<td></td>
</tr>
<tr>
<td>CSA B181.3</td>
<td>Polyolefin and Polyvinylidene Fluoride (PVDF) Laboratory Drainage Systems</td>
<td></td>
</tr>
<tr>
<td>CSA B242</td>
<td>Groove- and Shoulder- Type Mechanical Pipe Couplings</td>
<td></td>
</tr>
<tr>
<td>CSA B356</td>
<td>Water Pressure Reducing Valves for Domestic Water Supply Systems</td>
<td></td>
</tr>
<tr>
<td>CSA G401</td>
<td>Corrugated Steel Pipe Products</td>
<td></td>
</tr>
<tr>
<td>CSA LC 1b</td>
<td>Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST) (same as CSA 6.26b)</td>
<td></td>
</tr>
<tr>
<td>CSA LC 3</td>
<td>Appliance Stands and Drain Pans</td>
<td></td>
</tr>
<tr>
<td>CSA LC 4a</td>
<td>Press-Connect Metallic Fittings for Use in Fuel Gas Distribution Systems (same as CSA 6.32a)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.10.1</td>
<td>Gas Water Heaters – Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu per Hour or Less (same as CSA 4.1)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.10.3</td>
<td>Gas Water Heaters – Volume III, Storage, with Input Ratings Above 75,000 Btu per Hour, Circulating and Instantaneous (same as CSA 4.3)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.12b</td>
<td>Draft Hoods</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.13</td>
<td>Gas-Fired Low Pressure Steam and Hot Water Boilers (same as CSA 4.9)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.15b</td>
<td>Manually Operated Gas Valves for Appliances, Appliance Connector Valves, and Hose End Valves (same as CSA 9.1b)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.22b</td>
<td>Relief Valves for Hot Water Supply Systems (same as CSA 4.4b)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.24b</td>
<td>Connectors for Gas Appliances (same as CSA 6.10a)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.40.1a</td>
<td>Gas-Fired, Heat Activated Air-Conditioning and Heat Pump Appliances (same as CSA 2.91b)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.41</td>
<td>Quick-Disconnect Devices for Use with Gas Fuel Appliances (same as CSA 6.9)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.47</td>
<td>Gas-Fired Central Furnaces (same as CSA 2.3)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.56</td>
<td>Gas-Fired Pool Heaters (same as CSA 4.7)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.69a</td>
<td>Connectors for Movable Gas Appliances (same as CSA 6.16a)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.80a</td>
<td>Line Pressure Regulators (same as CSA 6.22a)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.81a</td>
<td>Cylinder Connection Devices (same as CSA 6.25a)</td>
<td></td>
</tr>
<tr>
<td>CSA Z21.86</td>
<td>Vented Gas-Fired Space-Heating Appliances (same as CSA 2.32)</td>
<td></td>
</tr>
<tr>
<td>CSA Z83.11b</td>
<td>Gas Food Service Equipment (same as CSA 1.8b)</td>
<td></td>
</tr>
<tr>
<td>CSA Z317.1</td>
<td>Special Requirements for Plumbing Installations in Health Care Facilities</td>
<td></td>
</tr>
<tr>
<td>IAPMO IGC 154</td>
<td>Shower and Tub/Shower Enclosures and Shower Panels</td>
<td></td>
</tr>
</tbody>
</table>
IAPMO IGC 157
Ball Valves

IAPMO IGC 193
Safety Plates, Plate Straps, Notched Plates and Safety Collars

IAPMO IGC 226
Drinking Water Fountains With or Without Chiller or Heater

IAPMO PS 23
Dishwasher Drain Airgaps

IAPMO PS 25
Metallic Fittings for Joining Polyethylene Pipe For Water Service and Yard Piping

IAPMO PS 34
Encasement Sleeve for Potable Water Pipe and Tubing

IAPMO PS 36
Lead Free Sealing Compounds for Threaded Joints

IAPMO PS 37
Black Plastic PVC or PE Pressure-Sensitive Corrosion Preventive Tape

IAPMO PS 42
Pipe Alignment and Secondary Support Systems

IAPMO PS 50
Flush Valves with Dual Flush Devices For Water Closets or Water Closet Tank with an Integral Flush Valves with a Dual Flush Device

IAPMO PS 51
Expansion Joints for DWV Piping Systems

IAPMO PS 52
Pump/Dose, Sumps and Sewage Ejector Tanks with or without a Pump

IAPMO PS 53
Grooved Mechanical Pipe Couplings and Grooved Fittings

IAPMO PS 54
Metallic and Plastic Utility Boxes

IAPMO PS 57
PVC Hydraulically Actuated Diaphragm Type Water Control Valves

IAPMO PS 59
Wastewater Diverter Valves and Diversion Systems

IAPMO PS 60
Sewage Holding Tank Containing Sewage Ejector Pump for Direct Mounted Water Closet

IAPMO PS 63
Plastic Leaching Chambers

IAPMO PS 64
Roof Pipe Flashings

IAPMO PS 65
Airgap Units for Water Conditioning Equipment Installation

IAPMO PS 66
Dielectric Waterway Fittings

IAPMO PS 67
Early-Closure Replacement Flappers or Early-Closure Replacement Flapper With Mechanical Assemblies

IAPMO PS 69
Bathwaste and Overflow Assemblies with Tub Filler Spout

IAPMO PS 72
Valves with Atmospheric Vacuum Breakers

IAPMO PS 73
Dental Vacuum Pumps

IAPMO PS 76
Trap Primers for Fill Valves and Flushtometer Valves

IAPMO PS 79
Multiport Electronic Trap Primer

IAPMO PS 80
Clarifiers

IAPMO PS 81
Precast Concrete Seepage Pit Liners and Covers

IAPMO PS 82
Fiberglass (Glass Fiber Reinforced Thermosetting Resin) Fittings

IAPMO PS 85
Tools for Mechanically Formed Tee Connections in Copper Tubing

IAPMO PS 86
Rainwater Diverter Valve for Non-Roofed Area Slabs

IAPMO PS 87
Diverter and Shutoff Valves for Pool/Spas

IAPMO PS 89
Soaking and Hydrotherapy (Whirlpool) Bathtubs with Hydraulic Seatlift

IAPMO PS 90
Elastomeric Test Caps, Cleanout Caps, and Combination Test Caps/Shielded Couplings

IAPMO PS 91
Plastic Stabilizers for Use with Plastic Closet Bends

IAPMO PS 92
Heat Exchangers and Indirect Water Heaters

IAPMO PS 94
Insulated Protectors for P-Traps, Supply Stops and Risers

IAPMO PS 95
Drain, Waste, and Vent Hangers and Plastic Pipe Support Hooks

IAPMO PS 96
Passive Direct Solar Water Heaters

IAPMO PS 98
Prefabricated Fiberglass Church Baptisteries

IAPMO PS 100
Porous Filter Protector for Sub-Drain Weep Holes

IAPMO PS 101
Suction Relief Valves

IAPMO PS 104
Pressure Relief Connection for Dispensing Equipment

IAPMO PS 105
Polyethylene Distribution Boxes

IAPMO PS 106
Tileable Shower Receptors and Shower Kits

IAPMO PS 107
Aramid Reinforced Rubber Hose for Use in Non-Potable Water Radiant Heating and Snowmelting

IAPMO PS 108
Restaurant Fire Suppression Systems

IAPMO PS 110
PVC Cold Water Compression Fittings
IAPMO PS 111
PVC Cold Water Gripper Fittings

IAPMO PS 112
PVC Plastic Valves for Cold Water Distribution Systems Outside a Building and CPVC Plastic Valves for Hot and Cold Water Distribution Systems

IAPMO PS 113
Hydraulically Powered Household Food Waster Disposers

IAPMO PS 114
Remote, Floor Box Industrial Water Supply, Air Supply, Drainage

IAPMO PS 115
Hot Water On-Demand or Automatic Activated Hot Water Pumping Systems

IAPMO PS 116
Hot Water Circulating Devices Which Do Not Use a Pump

IAPMO PS 117
Press and Nail Connections

IAPMO PS 119
Water-Powered Sump Pumps

IAPMO Z124.5
Plastic Toilet Seats

IAPMO Z124.7
Prefabricated Plastic Spa Shells

IAPMO Z124.8
Plastic Liners for Bathtubs and Shower Receptors

IAPMO Z403
Terrazzo, Concrete, and Natural Stone Plumbing Fixtures (supersedes IAPMO PS 99)

IAPMO Z1000
Prefabricated Septic Tanks

IAPMO Z1001
Prefabricated Gravity Grease Interceptors

IAPMO Z1033
Flexible PVC Hose for Pools, Hot Tubs, Spas and Jetted Bathtub (supersedes IAPMO PS 33)

IAPMO Z1088
Pre-Pressurized Potable Water Tanks (supersedes IAPMO PS 88)

ICC A117.1
Accessible and Usable Buildings and Facilities

ISEA Z358.1
Emergency Eyewash and Shower Equipment

MSS SP-25
Marking System for Valves, Fittings, Flanges, and Unions

MSS SP-42
Corrosion-Resistant Gate, Globe, Angle, and Check Valves with Flanged and Butt Weld Ends (Classes 150, 300, & 600)

MSS SP-44
Steel Pipeline Flanges

MSS SP-58
Pipe Hangers and Supports – Materials, Design, Manufacture, Selection, Application, and Installation

MSS SP-67
Butterfly Valves

MSS SP-70
Gray Iron Gate Valves, Flanged and Threaded Ends

MSS SP-71
Gray Iron Swing Check Valves, Flanged and Threaded Ends

MSS SP-72
Ball Valves with Flanged or Butt-Welding Ends for General Service

MSS SP-78
Gray Iron Plug Valves, Flanged and Threaded Ends

MSS SP-80
Bronze Gate, Globe, Angle, and Check Valves

MSS SP-83
Class 3000 Steel Pipe Unions Socket Welding and Threaded

MSS SP-104
Wrought Copper Solder Joint Pressure Fittings

MSS SP-106
Cast Copper Alloy Flanges and Flanged Fittings: Class 125, 150, and 300

MSS SP-109
Weld-Fabricated Copper Solder-Joint Pressure Fittings

MSS SP-123
Non-Ferrous Threaded and Solder-Joint Unions for Use with Copper Water Tube

NSF 2
Food Equipment

NSF 3
Commercial Warewashing Equipment

NSF 4
Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transport Equipment

NSF 5
Water Heaters, Hot Water Supply Boilers, and Heat Recovery Equipment

NSF 12
Automatic Ice Making Equipment

NSF 14
Plastic Piping System Components and Related Materials

NSF 18
Manual Food and Beverage Dispensing Equipment

NSF 29
Detergent and Chemical Feeders for Commercial Spray-Type Dishwashing Machines

NSF 40
Residential Wastewater Treatment Systems

NSF 41
Non-Liquid Saturated Treatment Systems

NSF 42
Drinking Water Treatment Units—Aesthetic Effects

NSF 44
Residential Cation Exchange Water Softeners

NSF 46
Evaluation of Components and Devices Used in Wastewater Treatment Systems

NSF 53
Drinking Water Treatment Units—Health Effects
NSF 55
Ultraviolet Microbiological Water Treatment Systems

NSF 58
Reverse Osmosis Drinking Water Treatment Systems

NSF 61
Drinking Water System Components—Health Effects

NSF 62
Drinking Water Distillation Systems

NSF 169
Special Purpose Food Equipment and Devices

PDI G-101
Testing and Rating Procedure for Hydro Mechanical Grease Interceptors with Appendix of Installation and Maintenance

PDI-WH 201
Water Hammer Arresters

PSAI Z4.1
For Sanitation - In Places of Employment - Minimum Requirements

SAE J 512
Automotive Tube Fittings

SAE J1670
Type "F" Clamps for Plumbing Applications

TCNA A118.10
Load, Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installations

TCNA A137.1
Specification for Ceramic Tile

UL 70
Septic Tanks, Bituminous-Coated Metal

UL 80
Steel Tanks for Oil-Burner Fuels and Other Combustible Liquids

UL 103
Factory-Built Chimneys for Residential Type and Building Heating Appliances

UL 125
Flow Control Valves for Anhydrous Ammonia and LP-Gas

UL 132
Safety Relief Valves for Anhydrous Ammonia and LP-Gas

UL 144
LP-Gas Regulators

UL 174
Household Electric Storage Tank Water Heaters

UL 252
Compressed Gas Regulators

UL 263
Fire Tests of Building Construction and Materials

UL 296
Oil Burners

UL 343
Pumps for Oil-Burning Appliances

UL 378
Draft Equipment

UL 399
Drinking Water Coolers

UL 404
Gauges, Indicating Pressure, for Compressed Gas Service

UL 429
Electrically Operated Valves

UL 430
Waste Disposers

UL 441
Gas Vents

UL 443
Steel Auxiliary Tanks for Oil-Burner Fuel

UL 499
Electric Heating Appliances

UL 536
Flexible Metallic Hose

UL 563
Ice Makers

UL 565
Liquid-Level Gauges and Indicators for Anhydrous Ammonia and LP-Gas

UL 569
Pigtails and Flexible Hose Connectors for LP Gas

UL 723
Test for Surface Burning Characteristics of Building Materials

UL 726
Oil-Fired Boiler Assemblies

UL 732
Oil-Fired Storage Tank Water Heaters

UL 749
Household Dishwashers

UL 778
Motor-Operated Water Pumps

UL 834
Heating, Water Supply, and Power Boilers—Electric

UL 921
Commercial Dishwashers

UL 959
Medium Heat Appliance Factory-Built Chimneys

UL 1081
Swimming Pool Pumps, Filters, and Chlorinators

UL 1206
Electric Commercial Clothes-Washing Equipment

UL 1261
Electric Water Heaters for Pools and Tubs

UL 1331
Station Inlets and Outlets

UL 1453
Electric Booster and Commercial Storage Tank Water Heaters

UL 1469
Strength of Body and Hydraulic Pressure Loss Testing of Backflow Special Check Valves

UL 1479
Fire Tests of Through-Penetration Firestops

UL 1951
Electric Plumbing Accessories
**Certification Marks:**

<table>
<thead>
<tr>
<th>Mark</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="ICC ES Listed" /></td>
<td>This mark indicates that the product is listed under the Evaluation Service (ES) Program, and a technical evaluation for code compliance has been performed on the product, and the product has been found to comply with applicable codes and standards indicated in the report.</td>
</tr>
<tr>
<td><img src="image2.png" alt="ICC ES PMG" /></td>
<td>This mark indicates that the product is listed under the PMG Listing Program, which certifies products in the areas of plumbing, mechanical and fuel gas. While most listing programs only verify that products adhere to standards, the ICC-ES program provides comprehensive coverage of both codes and standards.</td>
</tr>
<tr>
<td><img src="image3.png" alt="ICC-ES PMG" /></td>
<td>This mark indicates that the product is listed under the PMG Listing Program, which certifies products in the areas of plumbing, mechanical and fuel gas. While most listing programs only verify that products adhere to standards, the ICC-ES program provides comprehensive coverage of both codes and standards.</td>
</tr>
<tr>
<td><img src="image4.png" alt="ICC ES PMG" /></td>
<td>This mark indicates that the product is listed under the PMG Listing Program, which certifies products in the areas of plumbing, mechanical and fuel gas, and meets the requirements of the Uniform Plumbing Code (UPC).</td>
</tr>
<tr>
<td><img src="image5.png" alt="ICC ES PMG LOW LEAD" /></td>
<td>This mark indicates that the product is listed under the PMG Listing Program, which certifies products in the areas of plumbing, mechanical and fuel gas, and meets the low-lead requirements for drinking water system components.</td>
</tr>
<tr>
<td><img src="image6.png" alt="ICC ES PMG LOW LEAD" /></td>
<td>This mark indicates that the product is listed under the PMG Listing Program, which certifies products in the areas of plumbing, mechanical and fuel gas, and meets the low-lead requirements for drinking water system components.</td>
</tr>
<tr>
<td><img src="image7.png" alt="ICC ES SOLAR" /></td>
<td>This mark indicates that the product is listed under the PMG Listing Program, which certifies products in the areas of plumbing, mechanical and fuel gas, and meets the Uniform Solar Energy Code (USEC).</td>
</tr>
</tbody>
</table>
5. Intertek Testing Services NA, Inc.

(Main Lab)  
545 E. Algonquin Road  
Arlington Heights, IL 60065  
Phone: (847) 439-5667

(Branch Lab)  
16015 Shady Falls Road  
Elmendorf, TX 78112-9784  
Phone: (210) 635-8100

(Branch Lab)  
1500 Brigantine Drive  
Coquitlam, BC V3K 7C1, Canada  
Phone: (604) 520-3321

(Branch Lab)  
8431 Murphy Drive  
Middleton, WI 53562  
Phone: (604) 529-3321

(Branch Lab)  
25791 Commercentre Drive  
Lake Forest, CA 92630  
Phone: (714) 448-4100

(Branch Lab)  
3933 US Route 11  
Cortland, NY 13045  
Phone: (607) 753-6711

Expiration: June 1, 2020

This agency branch is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2017 Edition:

This agency branch is also approved for listing of plumbing products to meet the lead-free requirements of Section 116875 of the California Health and Safety Code.

Plumbing Standards:

AHAM FDW-1  
Food Waste Disposers

ASME A112.18.1  
Plumbing Supply Fittings

ASME A112.19.1/CSA B45.2  
Enamelled Cast Iron and Enamelled Steel Plumbing Fixtures

ASME A112.19.2/CSA B45.1  
Ceramic Plumbing Fixtures

ASME A112.19.3/CSA B45.4  
Stainless Steel Plumbing Fixtures

ASME A112.19.5/CSA B45.15  
Flush Valves and Spuds for Water Closets, Urinals, and Tanks

ASME A112.19.7/CSA B45.10  
Hydromassage Bathtub Systems

ASME A112.19.10  
Dual Flush Devices for Water Closets

ASME A112.19.15  
Bathtubs/Whirlpool Bathtubs with Pressure Sealed Doors

ASME B16.18  
Cast Copper Alloy Solder Joint Pressure Fittings

ASME B42  
Seamless Copper Pipe, Standard Sizes

ASME B43  
Seamless Red Brass Pipe, Standard Sizes

ASME B75/B75M  
Seamless Copper Tube

ASME B88  
Seamless Copper Water Tube

ASME B135  
Seamless Brass Tube

ASME B302  
Threadless Copper Pipe, Standard Sizes

ASTM A74  
Cast Iron Soil Pipe and Fittings

ASTM A197/A197M  
Cupola Malleable Iron

ASTM B104  
Backflow Prevention Devices for Individual Showers and Tub/Shower Combinations

ASTM B106  
Backflow Prevention Devices for Hand-Held Shower

ASTM B112  
Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

ASTM B14  
Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe

ASTM B202  
Compression Joints for Vitrified Clay Pipe and Fittings

ASTM B206  
Copper Drainage Tube (DWV)
ASTM C443
Joints for Concrete Pipe and Manholes, Using Rubber Gaskets

ASTM C564
Rubber Gaskets for Cast Iron Soil Pipe and Fittings

ASTM C700
Vitrified Clay Pipe, Extra Strength, Standard Strength, and Perforated

ASTM C1173
Flexible Transition Couplings for Underground Piping Systems

ASTM D2235
Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Piping and Fittings

ASTM D2564
Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems

ASTM D2661
Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings

ASTM D2665
Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings

ASTM D2680
Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Composite Sewer Piping

ASTM D2729
Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings

ASTM D2751
Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings

ASTM E84
Surface Burning Characteristics of Building Materials

ASTM E119
Fire Tests of Building Construction and Materials

ASTM E814
Fire Tests of Penetration Firestop Systems

ASTM F405
Corrugated Polyethylene (PE) Pipe and Fittings

ASTM F628
Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe with a Cellular Core

ASTM F891
Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe with a Cellular Core

ASTM F949
Poly (Vinyl Chloride) (PVC) Corrugated Sewer Pipe and Fittings

ASTM F1173
Flexible Transition Couplings for Underground Piping Systems

ASTM D2235
Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Piping and Fittings

BS EN 12975-1
Thermal Solar Systems and Components - Solar Collectors - Part 1: General Requirements

BS EN 12975-2
Thermal Solar Systems and Components - Solar Collectors - Part 2: Test Methods

BS EN 12976-1
Thermal Solar Systems and Components - Factory Made Systems - Part 1: General Requirements

BS EN 12976-2
Thermal Solar Systems and Components - Factory Made Systems - Part 2: Test Methods

CSA B45.0
General Requirements for Plumbing Fixtures

CSA B45.5/IAPMO Z124
Plastic Plumbing Fixtures

CSA B45.9/ASME 112.3.4
Plumbing Fixtures with Pumped Waste and Macerating Toilet Systems

CSA B45.11/IAPMO Z401
Glass Plumbing Fixtures

CSA B125.3
Plumbing Fittings

CSA Z21.10.1
Gas Water Heaters – Volume I – Storage Water Heaters with Input Ratings of 75,000 Btu per Hour or Less (same as CSA 4.1a)

CSA Z21.10.3
Gas Water Heaters-Volume III, Storage Water Heaters with Input Ratings Above 75 000 Btu per Hour, Circulating and Instantaneous (same as CSA 4.3b)

CSA Z21.12b
Draft Hoods

CSA Z21.13
Gas-Fired Low-Pressure Steam and Hot-Water Boilers (Same as CSA 4.9)

CSA Z21.15b
Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves (same as CSA 9.1b)

CSA Z21.22b
Relief Valves for Hot Water Supply Systems (same as CSA 4.4b)

CSA Z21.24a
Connectors for Gas Appliances (same as CSA 6.10a)

CSA Z21.40.1a
Gas-Fired, Heat Activated Air Conditioning and Heat Pump Appliances (same as CSA 2.91a)

CSA Z21.41
Quick Disconnect Devices for Use with Gas Fuel Appliances (same as CSA 6.9)

CSA Z21.56
Gas-Fired Pool Heaters (same as CSA 4.7a)

CSA Z21.69a
Connectors for Moveable Gas Appliances (same as CSA 6.16a)

CSA Z21.80a
Line Pressure Regulators (same as CSA 6.22a)

CSA Z21.81a
Cylinder Connection Devices (same as CSA 6.25a)

IAPMO Z124.5
Plastic Toilet Seats

IAPMO Z124.7
Prefabricated Plastic Spa Shells

IAPMO Z124.8
Plastic Liners for Bathtubs and Shower Receptors

NSF 2
Food Equipment

NSF 3
Commercial Warewashing Equipment

NSF 6
Commercial Food Equipment
| NSF 4 | Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transport Equipment |
| NSF 5 | Water Heaters, Hot Water Supply Boilers, and Heat Recovery Equipment |
| NSF 12 | Automatic Ice Making Equipment |
| NSF 14 | Plastic Piping System Components and Related Materials |
| NSF 18 | Manual Food and Beverage Dispensing Equipment |
| NSF 61 | Drinking Water System Components—Health Effects |
| NSF 169 | Special Purpose Food Equipment and Devices |
| PDI WH-201 | Water Hammer Arresters |
| UL 103 | Factory-Built Chimneys for Residential Type and Building Heating Appliances |
| UL 125 | Flow Control Valves for Anhydrous Ammonia and LP-Gas |
| UL 132 | Safety Relief Valves for Anhydrous Ammonia and LP-Gas |
| UL 144 | LP-Gas Regulators |
| UL 174 | Household Electric Storage Tank Water Heaters |
| UL 252 | Compressed Gas Regulators |
| UL 263 | Fire Tests of Building Construction and Materials |
| UL 296 | Oil Burners |
| UL 343 | Pumps for Oil-Burning Appliances |
| UL 378 | Draft Equipment |
| UL 399 | Drinking Water Coolers |
| UL 404 | Gauges, Indicating Pressure for Compressed Gas Service |
| UL 429 | Electrically Operated Valves |
| UL 430 | Waste Disposers |
| UL 441 | Gas Vents |
| UL 499 | Electric Heating Appliances |
| UL 536 | Flexible Metallic Hose |
| UL 563 | Ice Makers |
| UL 565 | Liquid-Level Gauges for Anhydrous Ammonia and LP-Gas |
| UL 569 | Pigtails and Flexible Hose Connectors for LP-Gas |
| UL 723 | Test for Surface Burning Characteristics of Building Materials |
| UL 726 | Oil-Fired Boiler Assemblies |
| UL 732 | Oil-Fired Storage Tank Water Heaters |
| UL 749 | Household Dishwashers |
| UL 778 | Motor Operated Water Pumps |
| UL 834 | Heating, Water Supply, and Power Boilers-Electric |
| UL 921 | Commercial Dishwashers |
| UL 959 | Medium Heat Appliance Factory-Built Chimneys |
| UL 1081 | Swimming Pool Pumps, Filters, and Chlorinators |
| UL 1206 | Electric Commercial Clothes-Washing Equipment |
| UL 1261 | Electric Water Heaters for Pools and Tubs |
| UL 1331 | Station Inlets and Outlets |
| UL 1453 | Electric Booster and Commercial Storage Tank Water Heaters |
| UL 1479 | Fire Tests of Through-Penetration Firestops |
| UL 1951 | Electric Plumbing Accessories |
| UL 2157 | Electric Clothes Washing Machines and Extractors |
Mechanical Standards:

**ASME B 16.18**
Cast Copper Alloy Solder Joint Pressure Fittings

**ASTM B88**
Seamless Copper Water Tube

**ASTM B302**
Threadless Copper Pipe, Standard Sizes

**CGA 2.91a**
Gas-Fired, Heat Activated Air Conditioning and Heat Pump Appliances (same as CSA Z21.40.1)

**CSA Z21.1b**
Household Cooking Gas Appliances

**CSA Z21.5.1a**
Gas Clothes Dryers-Volume I, Type 1 Clothes Dryers (same as CSA 7.1)

**CSA Z21.5.2**
Gas Clothes Dryers-Volume II, Type 2 Clothes Dryers (same as CSA 7.2)

**CSA Z21.10.1**
Gas Water Heaters- Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu per Hour or Less (same as CSA 4.1)

**CSA Z21.10.3**
Gas-Fired Water Heaters-Volume III, Storage Water Heaters with Input Ratings Above 75,000 Btu per Hour, Circulating and Instantaneous (same as CSA 4.3)

**CSA Z21.11.2**
Gas-Fired Room Heaters, Volume II, Unvented Room Heaters

**CSA Z21.12b**
Draft Hoods

**CSA Z21.13**
Gas-Fired Low Pressure Steam and Hot Water Boilers (same as CSA 4.9)

**CSA Z21.15b**
Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves (same as CSA 9.1b)

**CSA Z21.17a**
Domestic Gas Conversion Burners (same as CSA 2.7a)

**CSA Z21.18b**
Gas Appliance Pressure Regulators (same as CSA 6.3b)

**CSA Z21.21**
Automatic Valves for Gas Appliances (same as CSA 6.5)

**CSA Z21.22b**
Relief Valves for Hot Water Supply Systems (same as CSA 4.4b)

**CSA Z21.23**
Gas Appliances Thermostats

**CSA Z21.24a**
Connectors for Gas Appliances (same as CSA 6.10a)

**CSA Z21.35a**
Pilot Gas Filters (same as CSA 6.8a)

**CSA Z21.41**
Quick Disconnect Devices for Use with Gas Fuel Appliances (same as CSA 6.9)

**CSA Z21.42**
Gas-Fired Illuminating Appliances

**CSA Z21.47**
Gas-Fired Central Furnaces (same as CSA 2.3)

**CSA Z21.50**
Vented Gas Fireplaces (same as CSA 2.22)

**CSA Z21.56**
Gas-Fired Pool Heaters (same as CSA 4.7)

**CSA Z21.58b**
Outdoor Cooking Gas Appliances

**CSA Z21.60**
Decorative Gas Appliances for Installation in Solid-Fuel Burning Fireplaces

**CSA Z21.69a**
Connectors for Moveable Gas Appliances (same as CSA 6.16a)

**CSA Z21.80a**
Line Pressure Regulators (same as CSA 6.22a)

**CSA Z21.86**
Vented Gas-Fired Space Heating Appliances (same as CSA 2.32)

**CSA Z21.88a**
Vented Gas Fireplace Heaters (same as CSA 2.33)

**CSA Z83.4**
Non-Recirculating Direct Gas-Fired Industrial Air Heaters (same as CSA 3.7)

**CSA Z83.7**
Gas-Fired Construction Heaters (same as CSA 2.14)

**CSA Z83.8**
Gas Unit Heaters, Gas Package Heaters, Gas Utility Heaters and Gas-Fired Duct Furnaces (same as CSA 2.6)

**CSA Z83.11b**
Gas Food Service Equipment (same as CSA 1.8b)

**CSA Z83.18**
Recirculating Direct Gas-Fired Industrial Air Heaters

**CSA Z83.19a**
Gas-Fired High-Intensity Infrared Heaters (same as CSA 2.35a)

**CSA Z83.20b**
Gas-Fired Low-Intensity Infrared Heaters (same as CSA 2.34b)

**UL 103**
Factory-Built Chimneys for Residential Type and Building Heating Appliances

**UL 125**
Flow Control Valves for Anhydrous Ammonia and LP-Gas

**UL 127**
Factory-Built Fireplaces

**UL 132**
Safety Relief Valves for Anhydrous Ammonia and LP-Gas

**UL 144**
LP-Gas Regulators

**UL 181**
Factory-Made Air Ducts and Air Connectors

**UL 197**
Commercial Electric Cooking Appliances
UL 252
Compressed Gas Regulators

UL 268A
Smoke Detectors for Duct Applications

UL 296
Oil Burners

UL 300
Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment

UL 343
Pumps for Oil-Burning Appliances

UL 378
Draft Equipment

UL 391
Solid-Fuel and Combination-Fuel Central and Supplementary Furnaces

UL 399
Drinking Water Coolers

UL 404
Gauges, Indicating Pressure for Compressed Gas Service

UL 412
Refrigeration Unit Coolers

UL 429
Electrically Operated Valves

UL 441
Gas Vents

UL 471
Commercial Refrigerators and Freezers

UL 555
Fire Dampers

UL 565
Liquid-Level Gauges for Anhydrous Ammonia and LP-Gas

UL 569
Pigtails and Flexible Hose Connectors for LP-Gas

UL 710
Exhaust Hoods for Commercial Cooking Equipment

UL 723
Test for Surface Burning Characteristics of Building Materials

UL 726
Oil-Fired Boiler Assemblies

UL 727
Oil-Fired Central Furnaces

UL 729
Oil-Fired Floor Furnaces

UL 730
Oil-Fired Wall Furnaces

UL 731
Oil-Fired Unit Heaters

UL 732
Oil-Fired Storage Tank Water Heaters

UL 733
Oil-Fired Air Heaters and Direct-Fired Heaters

UL 737
Fireplace Stoves

UL 795
Commercial-Industrial Gas Heating Equipment

UL 834
Heating, Water Supply, and Power Boilers-Electric

UL 858
Household Electric Ranges

UL 867
Electrostatic Air Cleaners

UL 896
Oil-Burning Stoves

UL 900
Air Filter Units

UL 907
Fireplace Accessories

UL 921
Commercial Dishwashers

UL 959
Medium Heat Appliance Factory-Built Chimney

UL 984
Hermetic Refrigeration Motor-Compressors

UL 1026
Electric Household Cooking and Food Serving Appliances

UL 1046
Grease Filters for Exhaust Ducts

UL 1206
Electric Commercial Clothes-Washing Equipment

UL 1240
Electric Commercial Clothes-Drying Equipment

UL 1453
Electric Booster and Commercial Storage Tank Water Heaters

UL 1479
Fire Tests of Through-Penetration Firestops

UL 1482
Solid-Fuel Type Room Heaters

UL 1777
Chimney Liners

UL 1812
Ducted Heat Recovery Ventilators

UL 1815
Nonducted Heat Recovery Ventilators

UL 1963
Refrigerant Recovery/Recycling Equipment

UL 1978
Grease Ducts

UL 1995
Heating and Cooling Equipment

UL 2021
Fixed and Location-Dedicated Electric Room Heaters

UL 2157
Electric Clothes Washing Machines and Extractors

UL 2158
Electric Clothes Dryers

UL 2162
Commercial Wood-Fired Baking Ovens-Refractory Type
UL 2200
Stationary Engine Generator Assemblies

UL 2221
Tests of Fire Resistive Grease Duct Enclosure Assemblies
Certification Mark:

Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.

Indicates that the product was tested and has met the certification requirements for food service and pool/spa products.

Indicates that the product was tested and has met the certification and regional installation requirements for products.

Indicates that the product was tested and has met the certification requirements for the Uniform Plumbing Code.

Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.
6. LabTest Certification, Inc.

(Main Lab)  
205 – 8291 92nd Street  
Delta, British Columbia  
Canada V4G 0A4  
Phone: (604) 247 – 0444

(Branch Lab)  
3255 Pepper Lane, Suite 112  
Las Vegas, NV 89120  
USA, 89120  
Phone: (702) 269 - 0578

Expiration: August 1, 2020

This agency branch is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2017 Edition:

Mechanical Standards:

- **CSA Z21.1b**  
  Gas-Fired Low Pressure Steam and Hot Water Boilers

- **CSA Z21.13**  
  Gas-Fired Low Pressure Steam and Hot Water Boilers (Same as CSA 4.9)

- **CSA Z21.50**  
  Vented Gas Fireplaces (Same as CSA 2.22)

- **CSA Z21.88**  
  Vented Gas Fireplace Heater (Same as CSA 2.33a)

- **CSA Z83.11b**  
  Gas Food Service Equipment (Same as CSA 1.8b)

- **UL 197**  
  Commercial Electric Cooking Equipment

Plumbing Standards:

- **ASME A112.3.4 / CSA B45.9**  
  Plumbing Fixtures with Pumped Waste and Macerating Toilet Systems

- **ASME A112.18.1 / CSA B125.1**  
  Plumbing Supply Fittings

- **ASME A112.18.2 / CSA B125.2**  
  Plumbing Waste Fittings

- **ASME A112.18.6 / CSA B125.6**  
  Flexible Water Connectors

- **ASME A112.19.1 / CSA B45.2**  
  Enamelled Cast Iron and Enamelled Steel Plumbing Fixtures

- **ASME A112.19.2 / CSA B45.1**  
  Ceramic Plumbing Fixtures

- **ASME A112.19.3 / CSA B 45.4**  
  Stainless Steel Plumbing Fixtures

- **ASME 112.19.5 / CSA B45.15**  
  Flush valves and Spuds for Water Closet, Urinals, and Tanks

- **ASME A112.19.7 / CSA B 45.10**  
  Hydromassage Bathtub System

- **ASME A112.1016/CSA B125.16**  
  Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

- **CSA B45.5**  
  Plastic Plumbing Fixtures

- **UL 499**  
  Electric Heating Appliances

- **UL 1261**  
  Electric Water Heaters for Pools and Tubs

- **UL 1795**  
  Hydromassage Bathtubs
Certification Mark:

Indicates that the product was evaluated and has met the certification requirements for mechanical products

Indicates that the product was field evaluated and has met the certification requirements for mechanical products

Indicates that the product was certified for the United States and Canada
7. NSF International

789 N. Dixboro Road
Ann Arbor, MI 48105
Phone: (734) 769-8010

Expiration: February 1, 2021

This agency branch is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2020 Edition:

This agency is also approved for listing of plumbing products to meet the lead-free requirements of Section 116875 of the California Health and Safety Code.

Mechanical Standards:

* **ASME A112.18.6/CSA B125.6**
  Flexible Water Connectors

* **ASME B16.22**
  Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings

* **ASME B16.51**
  Copper and Copper Alloy Press-Connect Pressure Fittings

* **ASSE 1013**
  Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers

* **ASSE 1017**
  Temperature Actuated Mixing Valves for Hot Water Distribution Systems

* **ASME B88**
  Seamless Copper Water Tube

* **ASTM B280**
  Seamless Copper Tube for Air Conditioning and Refrigeration Field Service

* **ASTM D1785**
  Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120

* **ASTM D2241**
  Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)

* **ASTM D2464**
  Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80

* **ASTM D2466**
  Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40

* **ASTM D2467**
  Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80

* **ASTM D2513**
  Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings

* **ASTM D2564**
  Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems

* **ASTM D2609**
  Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe

* **ASTM D2683**
  Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing

* **ASTM D2737**
  Polyethylene (PE) Plastic Tubing

* **ASTM D2846/D2846M**
  Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems

* **ASTM D3035**
  Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter

* **ASTM D3139**
  Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

* **ASTM D3261**
  Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing

* **ASTM E84**
  Surface Burning Characteristics of Building Materials.

* **ASTM F437**
  Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80

* **ASTM F438**
  Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40

* **ASTM F439**
  Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80

* **ASTM F441/F441M**
  Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40 and 80

* **ASTM F442/F442M**
  Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDRPR)
ASTM F493  
Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings

ASTM F656  
Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings

ASTM F714  
Polyethylene (PE) Plastic Pipe (DR-PR) Based on Outside Diameter

ASTM F1807  
Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

ASTM F1960  
Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing

ASTM F1970  
Special Engineered Fittings, Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems

ASTM F1974  
Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked Polyethylene/Aluminum/ Crosslinked Polyethylene Composite Pressure Pipe

ASTM F2080  
Cold-Expansion Fittings With Metal Compression-Sleeves for Cross-Linked Polyethylene (PEX) Pipe

ASTM F2098  
Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

ASTM F2159  
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

AWWA C901  
Polyethylene (PE) Pressure Pipe and Tubing, 1/2 in. (13 mm) Through 3 in. (76 mm), for Water Service

CSA B137.1  
Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services

CSA B137.3  
Rigid Polyvinylchloride (PVC) Pipe and Fittings for Pressure Applications

CSA B137.6  
Chlorinated Polyvinylchloride (CPVC) Pipe, Tubing, and Fittings for Hot- and Cold-Water Distribution Systems

CSA C448  
Design and Installation of Ground Source Heat Pump Systems for Commercial and Residential Buildings

IAPMO PS 117  
Press and Nail Connections

NSF 358-1  
Polyethylene Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems

NSF 358-2  
Polypropylene Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems

Plumbing Standards:

ASME A112.1.2  
Air Gaps in Plumbing Systems

ASME A112.1.3  
Air Gap Fittings for Use with Plumbing Fixtures, Appliances, and Appurtenances

ASME A112.3.1  
Stainless Steel Drainage Systems for Sanitary DWV, Storm, and Vacuum Applications, Above- and Below-Ground

ASME A112.3.4/CSA B45.9  
Plumbing Fixtures with Pumped Waste and Macerating Toilet Systems

ASME A112.4.14  
Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems

ASME A112.6.2  
Framing-Affixed Supports for Off-the-Floor Water Closets with Concealed Tanks

ASME A112.6.3  
Floor and Trench Drains

ASME A112.14.1  
Backwater Valves

ASME A112.14.3  
Grease Interceptors

ASME A112.14.4  
Grease Removal Devices

ASME A112.18.1/CSA B125.1  
Plumbing Supply Fittings

ASME A112.18.2/CSA B125.2  
Plumbing Waste Fittings

ASME A112.18.3  
Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings

ASME A112.18.6/CSA B125.6  
Flexible Water Connectors

ASME A112.19.1/CSA B45.2  
Enamelled Cast Iron and Enamelled Steel Plumbing Fixtures

ASME A112.19.2/CSA B45.1  
Ceramic Plumbing Fixtures

ASME A112.19.3/CSA B45.4  
Stainless Steel Plumbing Fixtures

ASME A112.19.5  
Flush Valves and Spuds for Water Closets, Urinals, and Tanks
ASME A112.19.7/CSA B45.10
Hydromassage Bathtub Systems

ASME A112.19.10
Dual Flush Devices for Water Closets

ASME A112.21.3M
Hydrants for Utility and Maintenance Use

ASME A112.36.2M
Cleanouts

ASME B16.22
Wrought Copper and Copper Alloy Solder Joint Pressure Fittings

ASME B16.51
Copper and Copper Alloy Press-Connect Pressure Fittings

ASSE 1001
Atmospheric-Type Vacuum Breakers

ASSE 1002/ASME A112.1002/CSA B125.12
Anti-Siphon Fill Valves for Water Closet Tanks

ASSE 1003
Water Pressure Reducing Valves for Domestic Water Distribution Systems

ASSE 1004
Backflow Prevention Requirements for Commercial Dishwashing Machines

ASSE 1010
Water Hammer Arresters

ASSE 1013
Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers

ASSE 1015
Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies

ASSE 1016/ASME A112.1016/CSA B125.6
Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves-Potable Water Supplied

ASSE 1019
Wall Hydrant with Backflow Protection and Freeze Resistance

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1022
Backflow Preventer for Beverage Dispensing Equipment

ASSE 1023
Hot Water Dispensers Household Storage Type-Electrical

ASSE 1024
Dual Check Backflow Preventers

ASSE 1032
Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers - Post Mix Type

ASSE 1035
Laboratory Faucet Backflow Preventers

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

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052
Hose Connection Backflow Preventers

ASSE 1056
Spill Resistant Vacuum Breaker Assemblies

ASSE 1061
Push-Fit Fittings

ASSE 1070/ASME A112.1070/CSA B125.70
Water Temperature Limiting Devices

ASTM A74
Cast Iron Soil Pipe and Fittings

ASTM A536
Ductile Iron Castings

ASTM A888
Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications

ASTM B88
Seamless Copper Water Tube

ASTM B280
Seamless Copper Tube for Air Conditioning and Refrigeration Field Service

ASTM B306
Copper Drainage Tube (DWV)

ASTM B819
Seamless Copper Tube for Medical Gas Systems

ASTM C1277
Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings

ASTM D1784
Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds

ASTM D1785
Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120

ASTM D2235
Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings

ASTM D2239
Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter

ASTM D2241
Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)

ASTM D2464
Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80

ASTM D2466
Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40

ASTM D2467
Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
<table>
<thead>
<tr>
<th>ASTM D2513</th>
<th>Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM D2564</td>
<td>Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems</td>
</tr>
<tr>
<td>ASTM D2609</td>
<td>Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe</td>
</tr>
<tr>
<td>ASTM D2661</td>
<td>Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and fittings</td>
</tr>
<tr>
<td>ASTM D2665</td>
<td>Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and fittings</td>
</tr>
<tr>
<td>ASTM D2672</td>
<td>Joints for IPS PVC Pipe Using Solvent Cement</td>
</tr>
<tr>
<td>ASTM D2683</td>
<td>Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing</td>
</tr>
<tr>
<td>ASTM D2729</td>
<td>Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D2737</td>
<td>Polyethylene (PE) Plastic Tubing</td>
</tr>
<tr>
<td>ASTM D2846/D2846M</td>
<td>Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems</td>
</tr>
<tr>
<td>ASTM D3034</td>
<td>Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM D3035</td>
<td>Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter</td>
</tr>
<tr>
<td>ASTM D3138</td>
<td>Solvent Cements for Transition Joints between Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Non-Pressure Piping Components</td>
</tr>
<tr>
<td>ASTM D3139</td>
<td>Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals</td>
</tr>
<tr>
<td>ASTM D3212</td>
<td>Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals</td>
</tr>
<tr>
<td>ASTM D3261</td>
<td>Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing</td>
</tr>
<tr>
<td>ASTM D3311</td>
<td>Drain, Waste, and Vent (DWV) Plastic Fittings Patterns</td>
</tr>
<tr>
<td>ASTM D4551</td>
<td>Poly (Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-Containment Membrane</td>
</tr>
<tr>
<td>ASTM D884</td>
<td>Surface Burning Characteristics of Building Materials</td>
</tr>
<tr>
<td>ASTM F409</td>
<td>Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings</td>
</tr>
<tr>
<td>ASTM F437</td>
<td>Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80</td>
</tr>
<tr>
<td>ASTM F438</td>
<td>Specification for Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40</td>
</tr>
<tr>
<td>ASTM F439</td>
<td>Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80</td>
</tr>
<tr>
<td>ASTM F441/F441M</td>
<td>Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40 and 80</td>
</tr>
<tr>
<td>ASTM F442/F442M</td>
<td>Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDRPR)</td>
</tr>
<tr>
<td>ASTM F480</td>
<td>Thermoplastic Well Casing Pipe and Couplings Made in Standard Dimension Ratios (SDR), SCH 40 and SCH 80</td>
</tr>
<tr>
<td>ASTM F493</td>
<td>Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM F628</td>
<td>Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core</td>
</tr>
<tr>
<td>ASTM F656</td>
<td>Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM F667</td>
<td>3 through 24 in. Corrugated Polyethylene Pipe and Fittings</td>
</tr>
<tr>
<td>ASTM F714</td>
<td>Polyethylene (PE) Plastic Pipe (DR-PR) Based on Outside Diameter</td>
</tr>
<tr>
<td>ASTM F891</td>
<td>Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe With a Cellular Core</td>
</tr>
<tr>
<td>ASTM F894</td>
<td>Polyethylene (PE) Large Diameter Profile Wall Sewer and Drain Pipe</td>
</tr>
<tr>
<td>ASTM F949</td>
<td>Poly (Vinyl Chloride) (PVC) Corrugated Sewer Pipe with a Smooth Interior and Fittings</td>
</tr>
<tr>
<td>ASTM F1216</td>
<td>Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube</td>
</tr>
<tr>
<td>ASTM F1336</td>
<td>Poly (Vinyl Chloride) (PVC) Gasketed Sewer Fittings</td>
</tr>
<tr>
<td>ASTM F1412</td>
<td>Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems</td>
</tr>
<tr>
<td>ASTM F1476</td>
<td>Performance of Gasketed Mechanical Couplings for Use in Piping Applications</td>
</tr>
<tr>
<td>ASTM F1488</td>
<td>Coextruded Composite Pipe</td>
</tr>
<tr>
<td>ASTM F1673</td>
<td>Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems</td>
</tr>
<tr>
<td>ASTM F1807</td>
<td>Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR 9 Polyethylene of Raised Temperature (PE-RT) Tubing</td>
</tr>
</tbody>
</table>
ASTM F1866
Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings

ASTM F1924
Plastic Mechanical Fittings for use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing

ASTM F1960
Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing

ASTM F1970
Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems

ASTM F1974
Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked Polyethylene/Aluminum/ Crosslinked Polyethylene Composite Pressure Pipe

ASTM F2080
Cold-Expansion Fittings With Metal Compression-Sleeves for Cross-Linked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

ASTM F2098
Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing to Metal Insert and Plastic Insert Fittings

ASTM F2159
Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

ASTM F2389
Pressure-Rated Polypropylene (PP) Piping Systems

ASTM F2434
Metal 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

ASTM F2769
Polyethylene of Raised Temperature (PE-RT) Plastic Hot- and Cold-Water Distribution Systems

ASTM F2855
Chlorinated Poly (Vinyl Chloride)/Aluminum/Chlorinated Poly (Vinyl Chloride) (CPVC/AL/CPVC) Composite Pressure Tubing

AWWA C510
Double-Check Valve Backflow Prevention Assembly

AWWA C511
Reduced-Pressure Principle Backflow Prevention Assembly

AWWA C606
Grooved and Shouldered Joints

AWWA C900
Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 in. through 12 in. (100 mm Through 300 mm), for Water Transmission and Distribution

AWWA C901
Polyethylene (PE) Pressure Pipe and Tubing, 1/2 in. (13 mm) through 3 in. (76 mm), for Water Service

CISPI 301
Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications

CISPI 310
Couplings for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications

CSA B45.5/IAPMO Z124
Plastic Plumbing Fixtures

CSA B64.1.1
Atmospheric Vacuum Breakers (AVB)

CSA B79
Commercial and Residential Drains and Cleanouts

CSA B125.3
Plumbing Fittings

CSA B137.1
Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services

CSA B137.6
Chlorinated Polyvinylchloride (CPVC) Pipe, Tubing, and Fittings for Hot- and Cold-Water Distribution Systems

CSA B137.9
Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure-Pipe Systems

CSA B137.11
Polyethylene (PP-R) Pipe and Fittings for Pressure Applications

CSA B181.3
Polyolefin and Polyvinylidene Fluoride (PVDF) Laboratory Drainage Systems

CSA B356
Water Pressure Reducing Valves for Domestic Water Supply Systems

CSA B481
Grease Interceptors

EPA Water Sense- 2007
High Efficiency Lavatory Faucet Specification

IAPMO PS 36
Lead-Free Sealing Compounds for Threaded Joints

IAPMO PS 65
Airgap Units for Water Conditioning Equipment Installation

IAPMO PS 117
Press and Nail Connections

IAPMO Z1000
Prefabricated Septic Tanks

IAPMO Z1001
Prefabricated Gravity Grease Interceptors

IAPMO Z1033
Flexible PVC Hoses and Tubing for Pools, Hot Tubs, Spas, and Jetted Bathtubs

NSF 2
Food Equipment

NSF 3
Commercial Warewashing Equipment

NSF 4
Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transport Equipment
NSF 5  
Water Heaters, Hot Water Supply Boilers, and Heat Recovery Equipment

NSF 12  
Automatic Ice Making Equipment

NSF 14  
Plastic Piping System Components and Related Materials

NSF 18  
Manual Food and Beverage Dispensing Equipment

NSF 29  
Detergent and Chemical Feeders for Commercial Spray-Type Dishwashing Machines

NSF 40  
Residential Wastewater Treatment Systems

NSF 41  
Non-Liquid Saturated Treatment Systems

NSF 42  
Drinking Water Treatment Units – Aesthetic Effects

NSF 44  
Residential Cation Exchange Water Softeners

NSF 46  
Evaluation of Components and Devices Used in Wastewater Treatment Systems

NSF 53  
Drinking Water Treatment Units - Health Effects

NSF 55  
Ultraviolet Microbiological Water Treatments Systems

NSF 58  
Reverse Osmosis Drinking Water Treatment Systems

NSF 61  
Drinking Water System Components – Health Effects

NSF 62  
Drinking Water Distillation Systems

NSF 169  
Special Purpose Food Equipment and Devices

NSF 350  
Onsite Residential and Commercial Water Reuse Treatment Systems

NSF 359  
Valves for Crosslinked Polyethylene (PEX) Water Distribution Tubing Systems
Certification Marks:

This mark indicates that the product is certified to both Canadian and U.S. requirements.

This mark indicates that the product is certified to the standard indicated in the box.

This Mark indicates that the product is certified to NSF/ANSI 14 for potable water.

This Mark indicates that the product is certified to NSF/ANSI 14 for drain, waste and vent.
8. OMNI-Test Laboratories, Inc.

13327 NE Airport Way
Portland, OR 97230
Phone: (503) 643-3788

Expiration: September 1, 2020

This agency is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Mechanical Code, 2017 Edition:

- **CSA Z21.11.2**
  Gas-Fired Room Heaters, Volume II, Unvented Room Heaters

- **CSA Z21.20a**
  Automatic Gas Ignition Systems and Components

- **CSA Z21.41**
  Quick Disconnect Devices for Use with Gas Fuel Appliances (Same as CSA 6.9)

- **CSA Z21.42**
  Gas-Fired Illuminating Appliances

- **CSA Z21.47**
  Gas-Fired Central Furnaces (Same as CSA 2.3)

- **CSA Z21.50**
  Vented Gas Fireplaces (Same as CSA 2.22)

- **CSA Z21.58b**
  Outdoor Cooking Gas Appliances (Same as CSA 1.6b)

- **CSA Z21.60**
  Decorative Gas Appliances for Installation in Solid-Fuel Burning Fireplaces (Same as CSA 2.26)

- **CSA Z21.66/CGA 6.14**
  Automatic Vent Damper Devices for Use with Gas-Fired Appliances

- **CSA Z21.86**
  Vented Gas-Fired Space Heating Appliances (Same as CSA 2.32)

- **CSA Z21.88a**
  Vented Gas Fireplace Heaters (Same as CSA 2.33a)

- **CSA Z83.7**
  Gas-Fired Construction Heaters (Same as CSA 2.14)

- **CSA Z83.11b**
  Gas Food Service Equipment (Same as CSA 1.8)

- **UL 103**
  Factory-Built Chimneys for Residential Type and Building Heating Appliances

- **UL 127**
  Factory-Built Fireplaces

- **UL 197**
  Commercial Electric Cooking Appliances

- **UL 378**
  Draft Equipment

- **UL 391**
  Solid-Fuel and Combination-Fuel Central and Supplementary Furnaces

- **UL 441**
  Gas Vents

- **UL 641**
  Type L Low-Temperature Venting Systems

- **UL 726**
  Oil-Fired Boiler Assemblies

- **UL 727**
  Oil-Fired Central Furnaces

- **UL 731**
  Oil-Fired Unit Heaters

- **UL 733**
  Oil-Fired Air Heaters and Direct-Fired Heaters

- **UL 737**
  Fireplace Stoves

- **UL 858**
  Household Electric Ranges

- **UL 896**
  Oil-Burning Stoves

- **UL 907**
  Fireplace Accessories

- **UL 1026**
  Electric Household Cooking and Food Serving Appliances

- **UL 1482**
  Solid-Fuel Type Room Heaters

- **UL 1777**
  Chimney Liners

- **UL 1995**
  Heating and Cooling Equipment

- **UL 2021**
  Fixed and Location-Dedicated Electric Room Heaters
Certification Mark:

This mark indicates that the product is listed to the applicable standard specified.
9. PFS Corporation

1507 Matt Pass
Cottage Grove, WI 53527
Phone: (608) 839-1013

Expiration: May 1, 2020

This agency is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Mechanical Code, 2017 Edition:

**CSA Z21.11.2**
Gas-Fired Room Heaters, Volume II, Unvented Room Heaters

**CSA Z21.50**
Vented Gas Fireplaces (same as CSA 2.22)

**CSA Z21.58b**
Outdoor Cooking Gas Appliances (same as CSA 1.6b)

**CSA Z21.60**
Decorative Gas Appliances for Installation in Solid-Fuel Burning Fireplaces (same as CSA 2.26)

**CSA Z21.86**
Vented Gas-Fired Space Heating Appliances (same as CSA 2.32)

**CSA Z21.88a**
Vented Gas Fireplace Heaters (same as CSA 2.33a)

**CSA Z83.8**
Gas Unit Heaters, Gas Packaged Heaters, Gas Utility Heaters, and Gas-Fired Duct Furnaces (same as CSA 2.6)

**CSA Z83.20b**
Gas-Fired Low-Intensity Infrared Heaters (same as CSA 2.34b)

**UL 127**
Factory-Built Fireplaces

**UL 391**
Solid-Fuel and Combination-Fuel Central and Supplementary Furnaces

**UL 737**
Fireplace Stoves

**UL 907**
Fireplace Accessories

**UL 1482**
Solid-Fuel Type Room Heaters

Certification Marks:

![PFS Certification Mark](image)

This marking indicates that the product has been evaluated to meet Canadian and U.S. standards, and is listed to the applicable standard specified.

![PFS Certification Mark](image)

This marking indicates that the product has been evaluated to meet U.S. standards, and is listed to the applicable standard specified.

![PFS Certification Mark](image)

This marking indicates that the product has been evaluated and is listed to the applicable standard specified.
10. QAI Laboratories, Inc.

(Main Lab)
3980 North Fraser Way
Burnaby, BC, Canada V5J 5K5
Phone: (877) 461-8378

Expiration: December 1, 2020

This agency is approved for listing of plumbing products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing Codes, 2017 Edition:

ASME A112.1.2  
Air Gaps in Plumbing Systems

ASME A112.1.3  
Air Gap Fittings for Use with Plumbing 
Fixtures, Appliances, and 
Appurtenances

ASME A112.3.1  
Stainless Steel Drainage Systems for 
Sanitary DWV, Storm, and Vacuum 
Applications, Above- and Below 
Ground

ASME A112.3.4/ CSA B45.9  
Plumbing Fixtures with Pumped Waste 
and Macerating Toilet Systems

ASME A112.6.1M  
Floor-Affixed Supports for Off-the-
Floor Plumbing Fixtures for Public Use

ASME A112.6.2  
Framing-Affixed Supports for Off-The 
Floor Water Closets with Concealed 
Tanks

ASME A112.6.3  
Floor and Trench Drains

ASME A112.6.4  
Roof, Deck, and Balcony Drains

ASME A112.6.7  
Sanitary Floor Sinks

ASME A112.14.1  
Backwater Valves

ASME A112.18.1 / CSA B125.1  
Plumbing Supply Fittings

ASME A112.19.1 / CSA B45.2  
Enamelled Cast Iron and Enamelled 
Steel Plumbing Fixtures

ASME A112.19.2 / CSA B45.1  
Ceramic Plumbing Fixtures

ASME A112.19.3 / CSA B45.4  
Stainless Steel Plumbing Fixtures

ASME A112.19.5  
Flush Valves and Spuds for Water 
Closets, Urinals, and Tanks

ASME A112.19.10  
Dual Flush Devices for Water Closets

ASME A112.19.14  
Six-Liter Water Closets Equipped With 
Dual Flush Device

ASME A112.19.15  
Bathtubs/Whirlpool Bathtubs with 
Pressure Sealed Doors

ASME A112.19.19  
Vitreous China Nonwater Urinals

ASSE 1001  
Atmospheric Type Vacuum Breakers

ASSE 1002  
Anti-Siphon Fill Valves for Water 
Closet Tanks

ASSE 1003  
Water Pressure Reducing Valves for 
Domestic Water Distribution Systems

ASSE 1010  
Water Hammer Arresters

ASSE 1011  
Hose Connection Vacuum Breakers

ASSE 1012  
Backflow Preventers with Intermediate 
Atmospheric Vent

ASSE 1013  
Reduced Pressure Principle Backflow 
Preventers and Reduced Pressure 
Principle Fire Protection Backflow 
Preventers

ASSE 1014  
Backflow Prevention Devices for 
Hand-Held Shower

ASSE 1015  
Double Check Backflow Prevention 
Assemblies and Double Check Fire 
Protection Backflow Prevention 
Assemblies

ASSE 1016/ ASME A112.1016/ 
CSA B125.16  
Automatic Compensating Valves for 
Individual Showers and Tub/Shower 
Combinations

ASSE 1017  
Temperature Actuated Mixing Valves 
for Hot Water Distribution Systems

ASSE 1018  
Trap Seal Primer Valves - Potable 
Water Supplied

ASSE 1019  
Wall Hydrant with Backflow Protection 
and Freeze Resistance

ASSE 1020  
Pressure Vacuum Breaker Assembly

ASSE 1023  
Hot Water Dispensers Household 
Storage Type - Electrical
ASSE 1024
Dual Check Backflow Preventers

ASSE 1032
Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type

ASSE 1035
Laboratory Faucet Backflow Preventers

ASSE 1037
Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures

ASSE 1044
Trap Seal Primer Devices - Drainage Types and Electronic Design Types

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052
Hose Connection Backflow Preventers

ASSE 1055
Chemical Dispensing Systems

ASSE 1056
Spill Resistant Vacuum Breaker Assemblies

ASSE 1057
Freeze Resistant Sanitary Yard Hydrants with Backflow Protection

ASSE 1061
Push-Fit Fittings

ASSE 1062
Temperature Actuated Flow Reduction (TAFR) Valves for Individual Fixture Fittings

ASSE 1066
Individual Pressure Balancing In-Line Valves for Individual Fixture Fittings

ASSE 1070
Water Temperature Limiting Devices

ASTM C1277
Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings

ASTM D1785
Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120

ASTM D2239
Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter

ASTM D2241
Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)

ASTM D2513
Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings

ASTM D2665
Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings

ASTM D2737
Polyethylene (PE) Plastic Tubing

ASTM E84
Surface Burning Characteristics of Building Materials

ASTM F409
Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings

ASTM F446
Grab Bars and Accessories Installed in the Bathing Area

ASTM F1412
Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

CSA B45.5 Z124
Plastic Plumbing Fixtures

CSA B45.11 / IAPMO Z401
Glass Plumbing Fixtures

CSA B45.1.1
Atmospheric Vacuum Breakers (AVB)

CSA B64.1.2
Pressure Vacuum Breakers (PVB)

CSA B64.2
Hose Connection Vacuum Breakers (HCVB)

CSA B64.2.1.1
Hose Connection Dual Check Vacuum Breakers (HCDVB)

CSA B64.4
Reduced Pressure Principle (RP) Backflow Preventers

CSA B64.4.1
Reduced Pressure Principle Backflow Preventers for Fire Protection Systems (RPF)

CSA B64.5
Double Check Valve (DCVA) Backflow Preventers

CSA B64.5.1
Double Check Valve Backflow Preventers for Fire Protection Systems (DCVAF)

CSA B64.7
Laboratory Faucet Vacuum Breakers (LFVB)

CSA B79
Commercial and Residential Drains and Cleanouts

CSA B125.3
Plumbing Fittings

EPA Watersense - 2007
High-Efficiency Lavatory Faucet Specification

EPA Watersense - 2009
Specification for Flushing Urinals

EPA Watersense - 2011
Specification for Tank-Type Toilets

IAPMO IGC 157
Ball Valves

IAPMO PS 34
Encasement Sleeve for Potable Water Pipe and Tubing

IAPMO PS 52
Pump/Dose, Sumps and Sewage Ejector Tanks with or without a Pump

IAPMO PS 54
Metallic and Plastic Utility Boxes

IAPMO PS 59
Wastewater Diverter Valves and Diversion Systems

IAPMO PS 65
Airgap Units for Water Conditioning Equipment Installation
<table>
<thead>
<tr>
<th>IAPMO PS 67</th>
<th>IAPMO PS 79</th>
<th>IAPMO PS 95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early-Closure Replacement Flappers or Early-Closure Replacement Flapper with Mechanical Assemblies</td>
<td>Multiport Electronic Trap Primer</td>
<td>Drain, Waste, and Vent Hangers and Plastic Pipe Support Hooks</td>
</tr>
<tr>
<td>IAPMO PS 69</td>
<td>IAPMO PS 90</td>
<td>IAPMO PS 98</td>
</tr>
<tr>
<td>Bathwaste and Overflow Assemblies with Tub Filler Spout</td>
<td>Elastomeric Test Caps, Cleanout Caps, and Combination Test Caps/Shielded Couplings</td>
<td>Prefabricated Fiberglass Church Baptisteries</td>
</tr>
<tr>
<td>IAPMO PS 72</td>
<td>IAPMO PS 94</td>
<td>MSS SP-67</td>
</tr>
<tr>
<td>Valves with Atmospheric Vacuum Breakers</td>
<td>Insulated Protectors for P-Traps, Supply Stops, and Risers</td>
<td>Butterfly Valves</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NSF 61</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Drinking Water System Components - Health Effects</td>
</tr>
</tbody>
</table>

### Certification Mark:

**QAI Certification Mark:** This mark is used on products that have been evaluated to nationally recognized standards that fall within QAI’s scope of accreditation for the noted country, US and or Canada. QAI maintains an ongoing inspection program at the manufacturer’s location to validate that current product are representative of the product submitted for evaluation. The NRTL Logo is only used for products that fall within the Scope of QAI’s NRTL program.

**QAI Recognized Mark:** This mark is used on products that been evaluated to national recognized standards that fall within QAI’s scope of accreditation for the noted country, US and or Canada. The specific product is considered a component and further evaluation will be required when it is incorporated in a finished product.

**QAI Classified Mark:** This mark is used on products that have been evaluated against a portion of a published criterial, this could be a code or standard, and obtained a specific rating or performance value. QAI maintains an ongoing inspection program at the manufacturer’s location to validate that current product are representative of the product submitted for evaluation. Note C and US optional.

**QAI Verified Mark:** This mark is used on products that have been evaluated against a published criterial, this typically is a client’s own requirements, and QAI maintains an ongoing inspection program at the manufacturer’s location to validate that current products are representative of the product submitted for evaluation. Note C and US optional.
11. Solar Rating & Certification Corporation

3060 Saturn Street, Suite 100  
Brea, CA 92821  
Phone: (888) 422-7233, ext. 7735

Expiration: June 1, 2020

This agency is approved for listing of plumbing products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing Code, 2017 Edition:

This agency is also approved for listing of plumbing products to meet the lead-free requirements of Section 116875 of the California Health and Safety Code.

IAPMO PS 92  
Heat Exchangers and Indirect Water Heaters

IAPMO PS 96  
Passive Direct Solar Water Heaters

NSF 50  
Equipment for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities

SRCC 100  
Solar Thermal Collectors

SRCC 300  
Solar Water Heating Systems
Certification Mark:

- **OG-100 Certified**: This marking indicates that the product has been tested and has met the certification requirements of SRCC Standard 100.

- **OG-300 Certified**: This marking indicates that the product has been tested and has met the certification requirements of SRCC Standard 300.

- **LISTED**: This mark indicates the product is listed under the SRCC Solar Heating and Cooling Listing Program, which certifies solar heating and cooling products to the Uniform Solar Energy Code (USEC), Uniform Plumbing Code (UPC), Uniform Mechanical Code (UMC), and Uniform Swimming Pool and Hot Tub Code (USPC). It is also used to specify products that meet the low-lead requirements for drinking water system components.
This agency is approved for listing of plumbing products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing Code, 2017 Edition:

This agency is also approved for listing of plumbing products to meet the lead-free requirements of Section 116875 of the California Health and Safety Code.

ASME A112.18.1/CSA B125.1
Plumbing Supply Fittings

ASME A112.18.2/CSA B125.2
Plumbing Waste Fittings

ASME A112.18.3
Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings

ASME A112.18.6/CSA B125.6
Flexible Water Connectors

ASME A112.19.1/CSA B45.2
Enamelled Cast Iron and Enamelled Steel Plumbing Fixtures

ASME A112.19.2/CSA B45.1
Ceramic Plumbing Fixtures

ASME A112.19.3/CSA B45.4
Stainless Steel Plumbing Fixtures

ASME A112.19.5/CSA B45.15
Flush Valves and Spuds for Water Closets, Urinals and Tanks

ASME A112.19.10
Dual Flush Devices for Water Closets

ASME A112.19.14
Six-Liter Water Closets Equipped with a Dual Flushing Device

ASME A112.19.19
Vitreous China Nonwater Urinals

ASME B16.24
Cast Copper Alloy Pipe Flanges and Flanged Fittings: Classes 150, 300, 600, 900, 1500 and 2500

ASME B16.2.4
Cast Copper Alloy Pipe Flanges and Flanged Fittings: Classes 150, 300, 600, 900, 1500 and 2500

ASSE 1001
Atmospheric Type Vacuum Breakers

ASSE 1002
Anti-Siphon Fill Valves for Water Closet Tanks

ASSE 1003
Water Pressure Reducing Valves for Domestic Water Distribution Systems

ASSE 1004
Backflow Prevention Requirements for Commercial Dishwashing Machines

ASSE 1008
Plumbing Aspects of Residential Food Waste Disposer Units

ASSE 1010
Water Hammer Arresters

ASSE 1011
Hose Connection Vacuum Breakers

ASSE 1012
Backflow Preventer with Intermediate Atmospheric Vent

ASSE 1013
Reduced Pressure Principle Backflow Preventers and Reduced Pressure Fire Protection Principle Backflow Preventers

ASSE 1014
Backflow Prevention Devices for Hand-Held Showers

ASSE 1015
Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies

ASSE 1016 / ASME A112.1016 / CSA B124.16
Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves-Potable Water Supplied

ASSE 1019
Wall Hydrant with Backflow Protection and Freeze Resistance

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1022
Backflow Preventer for Beverage Dispensing Equipment

ASSE 1023
Hot Water Dispensers Household Storage Type – Electrical

ASSE 1024
Dual Check Valve Backflow Preventers
ASSE 1032
Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers-Post Mix Type

ASSE 1035
Laboratory Faucet Backflow Preventers

ASSE 1037
Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures

ASSE 1044
Trap Seal Primer Devices-Drainage Types and Electronic Design Types

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052
Hose Connection Backflow Preventers

ASSE 1055
Chemical Dispensing Systems

ASSE 1056
Spill Resistant Vacuum Breaker Assemblies

ASSE 1057
Freeze Resistant Sanitary Yard Hydrants with Backflow Protection

ASSE 1060
Outdoor Enclosures for Fluid Conveying Components

ASSE 1061
Push-Fit Fittings

ASSE 1062
Temperature Actuated, Flow Reduction (TAFR) Valves for Individual Fixture Fittings

ASSE 1066
Individual Pressure Balancing In-Line Valves for Individual Fixture Fittings

ASSE 1069
Automatic Temperature Control Mixing Valves

ASSE 1070
Water Temperature Limiting Devices

ASSE 1071
Temperature Actuated Mixing Valves for Plumbed Emergency Equipment

ASSE 1079
Dielectric Pipe Unions

CSA B45.5 / IAPMO Z124
Plastic Plumbing Fixtures

CSA B64
Backflow Preventers and Vacuum Breakers

CSA B125.3
Plumbing Fittings

CSA B137.1
Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services

EPA Watersense – 2007
High-Efficiency Lavatory Faucet Specification

EPA Watersense – 2009
Specification for Flushing Urinals

EPA Watersense – 2011
Specification for Tank-Type Toilets

NSF 42
Drinking Water Treatment Units-Aesthetic Effects

NSF 53
Drinking Water Treatment Unit-Health Effects

NSF 61
Drinking Water System Components - Health Effects

Certification Mark:

This marking indicates that the product has been evaluated and is listed to the applicable standard specified.
13. UL LLC

(Main Lab) 333 Pfingsten Road
Northbrook, IL 60062
Phone: (847) 272-8800

(Branch Lab) 1285 Walt Whitman Road
Melville, NY 11747
Phone: (516) 271-6200

(Branch Lab) 12 Laboratory Drive
Research Triangle Park, NC 27709
Phone: (919) 549-1400

(Branch Lab) 2600 N.W. Lake Road
Camas, WA 98607-9526
Phone: (360) 817-5500

(Branch Lab) 47173 Benicia St.
Fremont, CA 94538
Phone: (510) 771-1000

(Branch Lab) 2929 East Imperial Hwy, Ste. 100
Brea, CA 92821-66729
Phone: (714) 223-3600

Expiration: November 1, 2020

This agency is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2017 Edition:

This agency is also approved for listing of plumbing products to meet the lead-free requirements of Section 116875 of the California Health and Safety Code.

Mechanical Standards:

- **AHRI 1200**
  Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets
- **AHRI 1230**
  Performance Rating of Variable Refrigerant Flow (VRF) Multi-Split Air-Conditioning and Heat Pump Equipment
- **AMCA 500 D**
  Laboratory Methods of Testing Dampers for Rating
- **AMCA 540**
  Louvers Impacted by Wind Borne Debris
- **AMCA 550**
  Test Method for High Velocity Wind Driven Rain Resistance Louvers
- **ASCE 25**
  Earthquake-Actuated Automatic Gas Shutoff Devices
- **ASHRAE 127**
  Method of Testing for Rating Computer and Data Processing Room Unitary Air Conditioners
- **ASME A112.18.6/CSA B125.6**
  Flexible Water Connectors
- **ASME B16.1**
  Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250
- **ASME B16.3**
  Malleable Iron Threaded Fittings: Classes 150 and 300
- **ASME B16.5**
  Pipe Flanges and Flanged Fittings: NPS ½ through NPS 24 Metric/Inch
- **ASME B16.15**
  Cast Copper Alloy Threaded Fittings: Classes 125 and 250
- **ASME B16.22**
  Wrought Copper and Copper Alloy Solder Joint Pressure Fittings
- **ASME B31.5**
  Refrigeration Piping and Heat Transfer Components
- **ASME BPVC Section I**
  Rules for Construction of Power Boilers
- **ASME BPVC Section IV**
  Rules for Construction of Heating Boilers
- **ASME BPVC Section VIII**
  Rules for Construction of Pressure Vessels Division 1
- **ASME CSD-1**
  Controls and Safety Devices for Automatically Fired Boilers
- **ASSE 1013**
  Reduced Pressure Principle Backflow Preventers and Reduced Pressure Fire Protection Principle Backflow Preventers
- **ASSE 1061**
  Push-Fit Fittings
- **ASTM A53 /A53M**
  Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded, and Seamless
- **ASTM A733**
  Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples
- **ASTM B280**
  General Requirements for Wrought Seamless Copper and Copper-Alloy Tube
- **ASTM C411**
  Hot-Surface Performance of High-Temperature Thermal Insulation
<table>
<thead>
<tr>
<th>Standard</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM E84</td>
<td>Surface Burning Characteristics of Building Materials</td>
</tr>
<tr>
<td>ASTM E96 / E96M</td>
<td>Water Vapor Transmission of Materials</td>
</tr>
<tr>
<td>ASTM E136</td>
<td>Behavior of Materials in a Vertical Tube Furnace at 750 °C</td>
</tr>
<tr>
<td>ASTM E814</td>
<td>Fire Tests of Penetration Firestop Systems</td>
</tr>
<tr>
<td>ASTM E2231</td>
<td>Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assess Surface Burning Characteristics</td>
</tr>
<tr>
<td>ASTM E2336</td>
<td>Fire Resistive Grease Duct Enclosure Systems</td>
</tr>
<tr>
<td>AWWA C110</td>
<td>Ductile-Iron and Gray-Iron Fittings</td>
</tr>
<tr>
<td>AWWA C151</td>
<td>Ductile-Iron Pipe, Centrifugally Cast</td>
</tr>
<tr>
<td>AWWA C153</td>
<td>Ductile-Iron Compact Fittings</td>
</tr>
<tr>
<td>CSA FC-1</td>
<td>Fuel Cell Technologies-Part-3:100: Stationary Fuel Cell Power Systems</td>
</tr>
<tr>
<td>CSA Z21.13</td>
<td>Gas-Fired Low Pressure Steam and Hot Water Boilers (same as CSA 4.9)</td>
</tr>
<tr>
<td>CSA Z21.17a</td>
<td>Domestic Gas Conversion Burners (same as CSA2.7a)</td>
</tr>
<tr>
<td>CSA Z21.19</td>
<td>Refrigerators Using Gas Fuel (same as CSA 1.4)</td>
</tr>
<tr>
<td>CSA Z21.20a</td>
<td>Automatic Gas Ignition Systems and Components</td>
</tr>
<tr>
<td>CSA Z21.41</td>
<td>Quick Disconnect Devices for Use with Gas Fuel Appliances (same as CSA 6.9)</td>
</tr>
<tr>
<td>CSA Z21.42</td>
<td>Gas-Fired Illuminating Appliances</td>
</tr>
<tr>
<td>CSA Z21.47</td>
<td>Gas-Fired Central Furnaces (same as CSA2.3)</td>
</tr>
<tr>
<td>CSA Z21.50</td>
<td>Vented Gas Fireplaces (same as CSA 2.22)</td>
</tr>
<tr>
<td>CSA Z21.56</td>
<td>Gas-Fired Pool Heaters (same as CSA 4.7)</td>
</tr>
<tr>
<td>CSA Z21.58</td>
<td>Outdoor Cooking Gas Appliances (same as CSA 1.6)</td>
</tr>
<tr>
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<td>Decorative Gas Appliances for Installation in Solid-Fuel Burning Fireplaces (same as CSA 2.26)</td>
</tr>
<tr>
<td>CSA Z21.61</td>
<td>Gas-Fired Toilets</td>
</tr>
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</tr>
<tr>
<td>CSA Z21.86</td>
<td>Vented Gas-Fired Space-Heating Appliances (same as CSA 2.32)</td>
</tr>
<tr>
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<td>Vented Gas Fireplace Heaters (same as CSA 2.33)</td>
</tr>
<tr>
<td>CSA ZB3.4</td>
<td>Non-Recirculating Direct Gas-Fired Industrial Air Heaters (same as CSA 3.7)</td>
</tr>
<tr>
<td>CSA Z83.8</td>
<td>Gas Unit Heaters, Gas Packaged Heaters, Gas Utility Heaters and Gas-Fired Duct Furnaces (same as CSA 2.6)</td>
</tr>
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<td>Gas Food Service Equipment (same as CSA 1.8)</td>
</tr>
<tr>
<td>CSA Z83.18</td>
<td>Recirculating Direct Gas-Fired Industrial Air Heaters</td>
</tr>
<tr>
<td>CSA Z83.19a</td>
<td>Gas-Fired High-Intensity Infrared Heaters (same as CSA 2.35a)</td>
</tr>
<tr>
<td>CSA Z83.20b</td>
<td>Gas-Fired Low-Intensity Infrared heaters (same as CSA 2.34b)</td>
</tr>
<tr>
<td>NFPA 259</td>
<td>Potential Heat of Building Materials</td>
</tr>
<tr>
<td>NFPA 262</td>
<td>Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces</td>
</tr>
<tr>
<td>NFPA 274</td>
<td>Test Method to Evaluate Fire Performance Characteristics of Pipe Insulation</td>
</tr>
<tr>
<td>SMACNA-2006</td>
<td>HVAC Duct Construction Standards Metal and Flexible, 3rd Edition</td>
</tr>
<tr>
<td>UL 17</td>
<td>Vent or Chimney Connector Dampers for Oil-Fired Appliances</td>
</tr>
<tr>
<td>UL 21</td>
<td>LP-Gas Hose</td>
</tr>
<tr>
<td>UL 33</td>
<td>Heat Responsive Links for Fire-Protection Service</td>
</tr>
<tr>
<td>UL 51</td>
<td>Power-Operated Pumps and Bypass Valves for Anhydrous Ammonia, LP-Gas, and Propylene</td>
</tr>
<tr>
<td>UL 80</td>
<td>Steel Tanks for Oil-Burner Fuel and Other Combustible Liquids</td>
</tr>
<tr>
<td>UL 103</td>
<td>Factory-Built Chimneys for Residential Type and Building Heating Appliances</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>UL 125</td>
<td>Valves for Anhydrous Ammonia and LP-Gas (Other than Safety Relief)</td>
</tr>
<tr>
<td>UL 127</td>
<td>Factory-Built Fireplaces</td>
</tr>
<tr>
<td>UL 132</td>
<td>Safety Relief Valves for Anhydrous Ammonia and LP-Gas</td>
</tr>
<tr>
<td>UL 144</td>
<td>LP-Gas Regulators</td>
</tr>
<tr>
<td>UL 174</td>
<td>Household Electric Storage Tank Water Heaters</td>
</tr>
<tr>
<td>UL 180</td>
<td>Liquid-Level Gauges for Oil Burner Fuels and Other Combustible Liquids</td>
</tr>
<tr>
<td>UL 181</td>
<td>Factory-Made Air Ducts and Air Connectors</td>
</tr>
<tr>
<td>UL 181A</td>
<td>Closure Systems for Use with Rigid Air Ducts</td>
</tr>
<tr>
<td>UL 181B</td>
<td>Closure Systems for Use with Flexible Air Ducts and Air Connectors</td>
</tr>
<tr>
<td>UL 197</td>
<td>Commercial Electric Cooking Appliances</td>
</tr>
<tr>
<td>UL 207</td>
<td>Refrigerant-Containing Components and Accessories, Nonelectrical</td>
</tr>
<tr>
<td>UL 252</td>
<td>Compressed Gas Regulators</td>
</tr>
<tr>
<td>UL 268A</td>
<td>Smoke Detectors for Duct Application</td>
</tr>
<tr>
<td>UL 295</td>
<td>Commercial-Industrial Gas Burners</td>
</tr>
<tr>
<td>UL 296</td>
<td>Oil Burners</td>
</tr>
<tr>
<td>UL 300</td>
<td>Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment</td>
</tr>
<tr>
<td>UL 343</td>
<td>Pumps for Oil-Burning Appliances</td>
</tr>
<tr>
<td>UL 353</td>
<td>Limit Controls</td>
</tr>
<tr>
<td>UL 378</td>
<td>Draft Equipment</td>
</tr>
<tr>
<td>UL 391</td>
<td>Solid-Fuel and Combination-Fuel Central and Supplementary Furnaces</td>
</tr>
<tr>
<td>UL 404</td>
<td>Gauges, Indicating Pressure, for Compressed Gas Service</td>
</tr>
<tr>
<td>UL 412</td>
<td>Refrigeration Unit Coolers</td>
</tr>
<tr>
<td>UL 427</td>
<td>Refrigerating Units</td>
</tr>
<tr>
<td>UL 429</td>
<td>Electrically Operated Valves</td>
</tr>
<tr>
<td>UL 441</td>
<td>Gas Vents</td>
</tr>
<tr>
<td>UL 443</td>
<td>Steel Auxiliary Tanks for Oil-Burner Fuel</td>
</tr>
<tr>
<td>UL 471</td>
<td>Commercial Refrigerators and Freezers</td>
</tr>
<tr>
<td>UL 525</td>
<td>Flame Arresters</td>
</tr>
<tr>
<td>UL 555</td>
<td>Fire Dampers</td>
</tr>
<tr>
<td>UL 555C</td>
<td>Ceiling Dampers</td>
</tr>
<tr>
<td>UL 555S</td>
<td>Smoke Dampers</td>
</tr>
<tr>
<td>UL 565</td>
<td>Liquid-Level Gauges for Anhydrous Ammonia and LP-Gas</td>
</tr>
<tr>
<td>UL 569</td>
<td>Pigtails and Flexible Hose Connectors for LP-Gas</td>
</tr>
<tr>
<td>UL 641</td>
<td>Type L Low-Temperature Venting Systems</td>
</tr>
<tr>
<td>UL 651</td>
<td>Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings</td>
</tr>
<tr>
<td>UL 710</td>
<td>Exhaust Hoods for Commercial Cooking Equipment</td>
</tr>
<tr>
<td>UL 710B</td>
<td>Recirculating Systems</td>
</tr>
<tr>
<td>UL 710C</td>
<td>Ultraviolet Radiation Systems for Use in the Ventilation Control of Commercial Cooking Operations</td>
</tr>
<tr>
<td>UL 723</td>
<td>Test for Surface Burning Characteristics of Building Materials</td>
</tr>
<tr>
<td>UL 726</td>
<td>Oil-Fired Boiler Assemblies</td>
</tr>
<tr>
<td>UL 727</td>
<td>Oil-Fired Central Furnaces</td>
</tr>
<tr>
<td>UL 729</td>
<td>Oil-Fired Floor Furnaces</td>
</tr>
<tr>
<td>UL 730</td>
<td>Oil-Fired Wall Furnaces</td>
</tr>
<tr>
<td>UL 731</td>
<td>Oil-Fired Unit Heaters</td>
</tr>
<tr>
<td>UL 732</td>
<td>Oil-Fired Storage Tank Water Heaters</td>
</tr>
<tr>
<td>UL 733</td>
<td>Oil-Fired Air Heaters and Direct-Fired Heaters</td>
</tr>
<tr>
<td>UL 737</td>
<td>Fireplace Stoves</td>
</tr>
<tr>
<td>UL 762</td>
<td>Power Roof Ventilators for Restaurant Exhaust Appliances</td>
</tr>
<tr>
<td>UL 791</td>
<td>Residential Incinerators</td>
</tr>
<tr>
<td>UL 795</td>
<td>Commercial-Industrial Gas Heating Equipment</td>
</tr>
<tr>
<td>UL 834</td>
<td>Heating, Water Supply, and Power Boilers - Electric</td>
</tr>
<tr>
<td>UL 842</td>
<td>Valves for Flammable Fluids</td>
</tr>
<tr>
<td>UL 858</td>
<td>Household Electric Ranges</td>
</tr>
<tr>
<td>UL 867</td>
<td>Electrostatic Air Cleaners</td>
</tr>
<tr>
<td>UL 896</td>
<td>Oil-Burning Stoves</td>
</tr>
</tbody>
</table>
UL 900  
Air Filter Units

UL 907  
Fireplace Accessories

UL 921  
Commercial Dishwashers

UL 923  
Microwave Cooking Appliances

UL 959  
Medium Heat Appliance Factory-Built Chimneys

UL 984  
Hermetic Refrigerant Motor-Compressors

UL 1026  
Electric Household Cooking and Food Serving Appliances

UL 1046  
Grease Filters for Exhaust Ducts

UL 1240  
Electric Commercial Clothes-Drying Equipment

UL 1453  
Electric Booster and Commercial Storage Tank Water Heaters

UL 1479  
Fire Tests of Penetration Firestops

UL 1482  
Solid-Fuel Type Room Heaters

UL 1746  
External Corrosion Protection Systems for Steel Underground Storage Tanks

UL 1777  
Chimney Liners

UL 1812  
Ducted Heat Recovery Ventilators

UL 1815  
Nonducted Heat Recovery Ventilators

UL 1820  
Fire Test of Pneumatic Tubing for Flame and Smoke Characteristics

UL 1887  
Fire Test of Plastic Sprinkler Pipe for Visible Flame and Smoke Characteristics

UL 1963  
Refrigerant Recovery/Recycling Equipment

UL 1978  
Grease Ducts

UL 1995  
Heating and Cooling Equipment

UL 2021  
Fixed and Location-Dedicated Electric Room Heaters

UL 2043  
Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces

UL 2158  
Electric Clothes Dryers

UL 2162  
Commercial Wood-Fired Baking Ovens - Refractory Type

UL 2200  
Stationary Engine Generator Assemblies

UL 2221  
Tests of Fire Resisting Grease Duct Enclosure Assemblies

UL 2523  
Solid Fuel-Fired Hydronic Heating Appliances, Water Heaters, and Boilers

UL 2790  
Commercial Incinerators

UL 60335-2-40  
Household and Similar Electrical Appliances, Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers

Plumbing Standards:

AHAM FWD-1  
Food Waste Disposers

ASCE 25  
Earthquake-Actuated Automatic Gas Shutoff Devices

ASME A112.1.2  
Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)

ASME A112.1.3  
Air Gap Fittings for Use with Plumbing Fixtures, Appliances, and Appurtenances

ASME A112.3.1  
Stainless Steel Drainage Systems for Sanitary DWV, Storm, and Chemical Applications, Above- and Below-Ground

ASME A112.4.2  
Personal Hygiene Devices for Water Closets

ASME A112.4.3  
Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System

ASME A112.4.14  
Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems

ASME A112.6.3  
Floor and Trench Drains

ASME A112.6.7  
Sanitary Floor Sinks

ASME A112.18.1 / CSA B125.1  
Plumbing Supply Fittings

ASME A112.18.2 / CSA B125.2  
Plumbing Waste Fittings

ASME A112.18.3  
Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings

ASME A112.18.6 / CSA B125.6  
Flexible Water Connectors

ASME A112.18.9  
Protectors/Insulators for Exposed Waste and Supplies on Accessible Fixtures

ASME A112.19.1 / CSA B45.2  
Enameled Cast Iron and Enameled Steel Plumbing Fixtures

ASME A112.19.2 / CSA B45.1  
Ceramic Plumbing Fixtures

ASME A112.19.3 / CSA B45.4  
Stainless Steel Plumbing Fixtures

ASME A112.19.5 / CSA B45.15  
Flush Valves and Spuds for Water Closets, Urinals, and Tanks

ASME A112.19.7 / CSA B45.10  
Hydromassage Bathtub Systems
ASME A112.19.10
Dual Flush Devices for Water Closets

ASME A112.19.12
Wall Mounted, Pedestal Mounted, Adjustable, Elevating, Tilting, and Pivoting Lavatory, Sink, and Shampoo Bowl Carrier Systems and Drainage Waste Systems

ASME A112.19.14
Six-Liter Water Closets Equipped with a Dual Flushing Device

ASME A112.19.15
Bathtubs/Whirlpool Bathtubs with Pressure Sealed Doors

ASME A112.19.19
Vitreous China Nonwater Urinals

ASME A112.21.3M
Hydrants for Utility and Maintenance Use

ASME A112.36.2M
Cleanouts

ASME B16.1
Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250

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

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

ASME B16.5
Pipe Flanges and Flanged Fittings: NPS ½ through NPS 24 Metric/Inch

ASME B16.15
Cast Copper Alloy Threaded Fittings: Classes 125 and 250

ASME B16.18
Cast Copper Alloy Solder Joint Pressure Fittings

ASME B16.22
Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings

ASME B16.39
Malleable Iron Threaded Pipe Unions: Classes 150, 250 and 300

ASME BPVC Section IV
Rules for Construction of Heating Boilers

ASME BPVC Section VIII
Rules for Construction of Pressure Vessels Division 1

ASSE 1001
Atmospheric Type Vacuum Breakers

ASSE 1002 / AMSE A112.1002 / CSA B125.12
Anti-Siphon Fill Valves for Water Closet Tanks

ASSE 1004
Backflow Prevention Requirements for Commercial Dishwashing Machines

ASSE 1008
Plumbing Aspects of Residential Food Waste Disposer Units

ASSE 1011
Hose Connection Vacuum Breakers

ASSE 1012
Backflow Preventer with an Intermediate Atmospheric Vent

ASSE 1013
Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers

ASSE 1014
Backflow Prevention Devices for Hand-Held Shower

ASSE 1015
Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies

ASSE 1016 / AMSE A112.1016 / CSA B125.16
Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1022
Backflow Preventer for Beverage Dispensing Equipment

ASSE 1023
Hot Water Dispensers Household Storage Type-Electrical

ASSE 1024
Dual Check Backflow Preventers

ASSE 1032
Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type

ASSE 1037 / AMSE A112.1037 / CSA B125.37
Pressurized Flushing Devices for Plumbing Fixtures

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1055
Chemical Dispensing Systems

ASSE 1056
Spill Resistant Vacuum Breaker Assemblies

ASSE 1061
Push-Fit Fittings

ASSE 1062
Temperature Actuated, Flow, Reduction (TAFR) Valves for Individual Supply Fittings

ASSE 1066
Individual Pressure Balancing In-Line Valves for Individual Fixture Fittings

ASSE 1069
Automatic Temperature Control Mixing Valves

ASSE 1070 / AMSE A112.1070 / CSA B125.70
Water Temperature Limiting Devices

ASTM A53 / A53M
Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded, and Seamless

ASTM A74
Cast Iron Soil Pipe and Fittings

ASTM A733
Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples

ASTM A888
Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications

ASTM B280
Seamless Copper Tube for Air-Conditioning and Refrigeration Field Service

ASTM C1277
Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings
<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM E84</td>
<td>Surface Burning Characteristics of Building Materials</td>
</tr>
<tr>
<td>ASTM E119</td>
<td>Fire Tests of Building Construction and Materials</td>
</tr>
<tr>
<td>ASTM E814</td>
<td>Fire Tests of Penetration Firestop Systems</td>
</tr>
<tr>
<td>ASTM F446</td>
<td>Grab Bars and Accessories Installed in the Bathing Area</td>
</tr>
<tr>
<td>AWWA C110</td>
<td>Ductile-Iron and Gray-Iron Fittings</td>
</tr>
<tr>
<td>AWWA C151</td>
<td>Ductile-Iron Pipe, Centrifugally Cast</td>
</tr>
<tr>
<td>AWWA C153</td>
<td>Ductile-Iron Compact Fittings</td>
</tr>
<tr>
<td>AWWA C606</td>
<td>Grooved and Shouldered Joints</td>
</tr>
<tr>
<td>AWWA C900</td>
<td>Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 in. through 12 in. (100 mm through 300 mm)</td>
</tr>
<tr>
<td>AWWA C907</td>
<td>Injection-Molded Polyvinyl Chloride (PVC) Pressure Fittings 4 in. through 12 in. (100 mm through 300 mm), for Water, Wastewater, and Reclaimed Water Service</td>
</tr>
<tr>
<td>CISPI 301</td>
<td>Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications</td>
</tr>
<tr>
<td>CISPI 310</td>
<td>Couplings for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications</td>
</tr>
<tr>
<td>CSA B45.11 / IAPMO Z401</td>
<td>Glass Plumbing Fixtures</td>
</tr>
<tr>
<td>CSA B45.12 / IAPMO Z402</td>
<td>Aluminum and Copper Plumbing Fixtures</td>
</tr>
<tr>
<td>CSA B64.1.1</td>
<td>Atmospheric Vacuum Breakers (AVB)</td>
</tr>
<tr>
<td>CSA B64.1.2</td>
<td>Pressure Vacuum Breakers (PVB)</td>
</tr>
<tr>
<td>CSA B64.4</td>
<td>Reduced Pressure Principle (RP) Backflow Preventers</td>
</tr>
<tr>
<td>CSA Z21.10.1</td>
<td>Gas Water Heaters, Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu per Hour or Less (same as CSA 4.1)</td>
</tr>
<tr>
<td>CSA Z21.10.3</td>
<td>Gas Water Heaters, Volume III, Storage Water Heaters, with Input Ratings Above 75,000 Btu per Hour, Circulating and Instantaneous (same as CSA 4.3)</td>
</tr>
<tr>
<td>CSA Z21.13</td>
<td>Gas-Fired Low-Pressure Steam and Hot-Water Boilers (same as CSA 4.9)</td>
</tr>
<tr>
<td>CSA Z21.86</td>
<td>Vented Gas-Fired Space Heating Appliances (same as CSA 2.32)</td>
</tr>
<tr>
<td>CSA Z83.11b</td>
<td>Gas Food Service Equipment (same as CSA 1.8)</td>
</tr>
<tr>
<td>Energy Star – 2007(version 2.0) Program Requirements for Commercial Dishwashers</td>
<td></td>
</tr>
<tr>
<td>EPA WaterSense - 2007 High-Efficiency Lavatory Faucet Specification</td>
<td></td>
</tr>
<tr>
<td>EPA WaterSense - 2009 Specification for Flushing Urinals</td>
<td></td>
</tr>
<tr>
<td>IAPMO IGC 193</td>
<td>Safety Plates, Plate Straps, Notched Plates and Safety Collars</td>
</tr>
<tr>
<td>IAPMO IGC 226</td>
<td>Drinking Water Fountains With or Without Chiller or Heater</td>
</tr>
<tr>
<td>IAPMO PS 23</td>
<td>Dishwasher Drain Airgaps</td>
</tr>
<tr>
<td>IAPMO PS 37</td>
<td>Black Plastic PVC or PE Pressure-Sensitive Corrosion Preventive Tape</td>
</tr>
<tr>
<td>IAPMO PS 42</td>
<td>Pipe Alignment and Secondary Support Systems</td>
</tr>
<tr>
<td>IAPMO PS 54</td>
<td>Metallic and Plastic Utility Boxes</td>
</tr>
<tr>
<td>IAPMO PS 86</td>
<td>Rainwater Diverter Valve for Non-Roofed Area Slabs</td>
</tr>
<tr>
<td>IAPMO PS 117</td>
<td>Press and Nail Connections</td>
</tr>
<tr>
<td>IAPMO Z124.5</td>
<td>Plastic Toilet Seats</td>
</tr>
<tr>
<td>IAPMO Z124.7</td>
<td>Prefabricated Plastic Spa Shells</td>
</tr>
<tr>
<td>IAPMO Z124.8</td>
<td>Plastic Liners for Bathtubs and Shower Receptors</td>
</tr>
<tr>
<td>IAPMO Z403 / CSA B45.8</td>
<td>Terrazzo, Concrete, and Natural Stone Plumbing Fixtures</td>
</tr>
<tr>
<td>IAPMO Z1000</td>
<td>Prefabricated Septic Tanks</td>
</tr>
<tr>
<td>IAPMO Z1001</td>
<td>Prefabricated Gravity Grease Interceptors</td>
</tr>
<tr>
<td>IAPMO Z1088</td>
<td>Pre-Pressurized Water Expansion Tanks</td>
</tr>
<tr>
<td>IAPMO Z1157</td>
<td>Ball Valves</td>
</tr>
<tr>
<td>ISEA Z358.1</td>
<td>Emergency Eyewash and Shower Equipment</td>
</tr>
<tr>
<td>MSS SP-67</td>
<td>Butterfly Valves</td>
</tr>
<tr>
<td>NSF 2</td>
<td>Food Equipment</td>
</tr>
<tr>
<td>NSF 3</td>
<td>Commercial Warewashing Equipment</td>
</tr>
<tr>
<td>NSF 4</td>
<td>Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transport Equipment</td>
</tr>
<tr>
<td>NSF 5</td>
<td>Water Heaters, Hot Water Supply Boilers, and Heat Recovery Equipment</td>
</tr>
<tr>
<td>NSF 12</td>
<td>Automatic Ice Making Equipment</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>NSF 14</td>
<td>Plastic Piping System Components and Related Materials</td>
</tr>
<tr>
<td>NSF 18</td>
<td>Manual Food and Beverage Dispensing Equipment</td>
</tr>
<tr>
<td>NSF 42</td>
<td>Drinking Water Treatment Units – Aesthetic Effects</td>
</tr>
<tr>
<td>NSF 44</td>
<td>Residential Cation Exchange Water Softeners</td>
</tr>
<tr>
<td>NSF 46</td>
<td>Evaluation of Components and Devices Used in Wastewater Treatment Systems</td>
</tr>
<tr>
<td>NSF 53</td>
<td>Drinking Water Treatment Units – Health Effects</td>
</tr>
<tr>
<td>NSF 55</td>
<td>Ultraviolet Microbiological Water Treatment Systems</td>
</tr>
<tr>
<td>NSF 58</td>
<td>Reverse Osmosis Drinking Water Treatment Systems</td>
</tr>
<tr>
<td>NSF 61</td>
<td>Drinking Water System Components– Health Effects</td>
</tr>
<tr>
<td>NSF 169</td>
<td>Special Purpose Food Equipment and Devices</td>
</tr>
<tr>
<td>UL 17</td>
<td>Vent or Chimney Connector Dampers for Oil-Fired Appliances</td>
</tr>
<tr>
<td>UL 70</td>
<td>Septic Tanks, Bituminous-Coated Metal</td>
</tr>
<tr>
<td>UL 80</td>
<td>Steel Tanks for Oil-Burner Fuels and Other Combustible Liquids</td>
</tr>
<tr>
<td>UL 103</td>
<td>Factory-Built Chimneys for Residential Type and Building Heating Appliances</td>
</tr>
<tr>
<td>UL 144</td>
<td>LP-Gas Regulators</td>
</tr>
<tr>
<td>UL 174</td>
<td>Household Electric Storage Tank Water Heaters</td>
</tr>
<tr>
<td>UL 252</td>
<td>Compressed Gas Regulators</td>
</tr>
<tr>
<td>UL 263</td>
<td>Fire Tests of Building Construction and Materials</td>
</tr>
<tr>
<td>UL 296</td>
<td>Oil Burners</td>
</tr>
<tr>
<td>UL 378</td>
<td>Draft Equipment</td>
</tr>
<tr>
<td>UL 399</td>
<td>Drinking Water Coolers</td>
</tr>
<tr>
<td>UL 404</td>
<td>Gauges, Indicating Pressure, for Compressed Gas Service</td>
</tr>
<tr>
<td>UL 429</td>
<td>Electrically Operated Valves</td>
</tr>
<tr>
<td>UL 430</td>
<td>Waste Disposers</td>
</tr>
<tr>
<td>UL 441</td>
<td>Gas Vents</td>
</tr>
<tr>
<td>UL 536</td>
<td>Flexible Metallic Hose</td>
</tr>
<tr>
<td>UL 563</td>
<td>Ice Makers</td>
</tr>
<tr>
<td>UL 569</td>
<td>Pigtails and Flexible Hose Connectors for LP-Gas</td>
</tr>
<tr>
<td>UL 641</td>
<td>Type L Low-Temperature Venting Systems</td>
</tr>
<tr>
<td>UL 651</td>
<td>Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings</td>
</tr>
<tr>
<td>UL 723</td>
<td>Test for Surface Burning Characteristics of Building Materials</td>
</tr>
<tr>
<td>UL 726</td>
<td>Oil-Fired Boiler Assemblies</td>
</tr>
<tr>
<td>UL 732</td>
<td>Oil-Fired Storage Tank Water Heaters</td>
</tr>
<tr>
<td>UL 749</td>
<td>Household Dishwashers</td>
</tr>
<tr>
<td>UL 778</td>
<td>Motor-Operated Water Pumps</td>
</tr>
<tr>
<td>UL 921</td>
<td>Commercial Dishwashers</td>
</tr>
<tr>
<td>UL 959</td>
<td>Medium Heat Appliance Factory-Built Chimneys</td>
</tr>
<tr>
<td>UL 1206</td>
<td>Electric Commercial Clothes-Washing Equipment</td>
</tr>
<tr>
<td>UL 1331</td>
<td>Station Inlets and Outlets</td>
</tr>
<tr>
<td>UL 1453</td>
<td>Electric Booster and Commercial Storage Tank Water Heaters</td>
</tr>
<tr>
<td>UL 1479</td>
<td>Fire Tests of Penetration Firestops</td>
</tr>
<tr>
<td>UL 1795</td>
<td>Hydromassage Bathtubs</td>
</tr>
<tr>
<td>UL 1951</td>
<td>Electric Plumbing Accessories</td>
</tr>
<tr>
<td>UL 2157</td>
<td>Electric Clothes Washing Machines and Extractors</td>
</tr>
<tr>
<td>UL 2523</td>
<td>Solid Fuel-Fired Hydronic Heating Appliances, Water Heaters, and Boilers</td>
</tr>
</tbody>
</table>
Certification Marks:

**UL Listing Mark**
This mark is one of the most common UL Marks. If a product bears this Mark, it means UL found that representative product samples met applicable safety requirements.

**UL Gas-Fired Mark**
This mark is used exclusively on gas-fired appliances and equipment, to indicate a product’s compliance to nationally recognized gas standards, including UL, ANSI Z21/Z83 Series, and the CSA/CGA standards. The UL Gas-Fired Mark indicates that a product has been evaluated to reasonable and foreseeable hazards including both gas and electrical.

**Combined UL Mark for Europe, Canada and United States**
This mark indicates that the product has been evaluated to European, Canadian and U.S. requirements, and is listed to the applicable standard specified.

**UL Plumbing Mark**
This mark appears on plumbing-related products and clearly identifies those products that comply with applicable health-effect and plumbing performance standards and requirements of plumbing codes, including the Uniform Plumbing Code. The UL Plumbing Mark appears on plumbing fixture fittings such as kitchen sink and lavatory supply fittings, bath and shower supply fittings and various types of automatic compensating valves.

**UL Field Evaluated Product Mark**
A Field Evaluated Product Mark is applied to a product that is thoroughly evaluated in the field instead of UL’s laboratories or a manufacturer’s facility. If a product has been significantly modified since its manufacture or the product doesn’t bear any third-party certification mark, a building owner, a regulatory authority or anyone else directly involved with the product can request that UL test a specific piece of equipment in the field. Products that meet appropriate safety requirements are labeled with a tamper resistant Field Evaluated Product Mark.
14. Water Quality Association

4151 Naperville Road
Lisle, IL  60532-1088
Phone: (630) 505-0160

Expiration: November 1, 2020

This agency is approved for listing of plumbing products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing Codes, 2017 Edition:

This agency is also approved for listing of plumbing products to meet the lead-free requirements of Section 116875 of the California Health and Safety Code.

**NSF 14**
Plastics Piping System Components and Related Materials

**NSF 18**
Manual Food and Beverage Dispensing Equipment

**NSF 42**
Drinking Water Treatment Units - Aesthetic Effects

**NSF 44**
Residential Cation Exchange Water Softeners

**NSF 50**
Equipment for Swimming Pools, Spas, Hot Tubs, and other Rec Water Facilities

**NSF 53**
Drinking Water Treatment Units - Health Effects

**NSF 55**
Ultraviolet Microbiological Water Treatment Systems

**NSF 58**
Reverse Osmosis Drinking Water Treatment Systems

**NSF 60**
Drinking Water Treatment Chemicals - Health Effects

**NSF 61**
Drinking Water System Components - Health Effects

**NSF 62**
Drinking Water Distillation Systems

**NSF 169**
Special Purpose Food Equipment and Devices

**WQA S-300**
Point-of-Use Low Pressure Reverse Osmosis Drinking Water Systems

Certification Mark:

This marking indicates that the product is certified with the WQA Gold Seal Program and is listed to the applicable standard specified.
Part II: Approved Testing Agencies

1. **Home Innovation Research Labs**

400 Prince George’s Boulevard
Upper Marlboro, MD 20774
(301) 430-6246

*Expiration November 1, 2019*

This agency is approved for testing of plumbing products to the following standards:

- **ASME A112.19.7/CSA B45.10**
  Hydromassage Bathtub Systems

- **CSA B45.5/IAPMO Z124**
  Plastic Plumbing Systems

- **IAPMO Z124.8**
  Plastic Liners for Bathtubs and Shower Receptors

- **ICC A117.1**
  Accessible and Usable Buildings and Facilities (Chapter 6 Only)

**Certification Mark:**

This marking indicates that the product has been tested and is found to be in compliance with the applicable product standard.
2. **International Association of Plumbing and Mechanical Officials (IAPMO), R&T Lab**

5001 E. Philadelphia Street  
Ontario, CA 91761  
Phone: (909) 472-4100

*Expiration: March 1, 2021*

This agency is approved for testing of plumbing products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing Code, 2020 Edition:

- **ASME A112.18.1/CSA B125.1**  
  Plumbing Supply Fittings

- **ASME A112.19.2/CSA B45.1**  
  Ceramic Plumbing Fixtures

- **ASME A112.19.5/CSA B45.15**  
  Flush valves and Spuds for Water Closets, Urinals, and Tanks

- **ASME A112.19.7/CSA B45.10**  
  Hydromassage Bathtub Systems

- **ASSE 1001**  
  Atmospheric Type Vacuum Breakers

- **ASSE 1002/ASME A112.1002/CSA B125.12**  
  Anti-Siphon Fill Valves for Water Closet Tanks

- **ASSE 1014**  
  Backflow Prevention Devices for Hand-Held Showers

- **ASSE 1016/ASME A112.1016/CSA B125.16**  
  Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

- **ASSE 1017**  
  Temperature Actuated Mixing Valves for Hot Water Distribution Systems

- **ASSE 1019**  
  Wall Hydrant with Backflow Protection and Freeze Resistance

- **ASSE 1037/ASME A112.1037/CSA B125.37**  
  Pressurized Flushing Devices for Plumbing Fixtures

- **CSA B45.5/IAPMO Z124**  
  Plastic Plumbing Fixtures

- **IAPMO Z124.5**  
  Plastic Toilet Seats

- **IAPMO Z124.7**  
  Prefabricated Plastic Spa Shells

- **IAPMO Z124.8**  
  Plastic Liners for Bathtubs and Shower Receptors
This agency is approved for testing of mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Mechanical Code, 2020 Edition:

**CSA Z21.1**
Household Cooking Gas Appliances

**CSA Z21.42**
Gas-Fired Illuminating Appliances

**CSA Z21.47**
Gas-Fired Central Furnaces (same as CSA 2.3)

**CSA Z21.50**
Vented Gas Fireplaces (same as CSA 2.22)

**CSA Z21.56**
Gas-Fired Pool Heaters (same as CSA 4.7)

**CSA Z21.58**
Outdoor Cooking Gas Appliances (same as CSA 1.6)

**CSA Z21.60**
Decorative Gas Appliances for Installation in Solid-Fuel Burning Fireplaces (same as CSA 1.6)

**CSA Z21.61**
Gas-Fired Toilets

**CSA Z21.86**
Vented Gas-Fired Space Heating Appliances (same as CSA 2.32)

**CSA Z21.88**
Vented Gas Fireplace Heaters (same as CSA 2.33)

**CSA Z21.86**
Gas Unit Heaters, Gas Packed Heaters, Gas Utility Heaters, and Gas-Fired Duct Furnaces (same as CSA 2.6)

**CSA Z21.11**
Gas Food Service Equipment (same as CSA 1.8)

**CSA Z83.18**
Recirculating Direct Gas-Fired Industrial Air Heaters

**CSA Z83.19a**
Gas-Fired High-Intensity Infrared Heaters (same as CSA 2.35a)

**CSA Z83.20b**
Gas-Fired Low-Intensity Infrared Heaters (same as CSA 2.34b)

**ASTM C518**

**UL 103**
Factory-Built Chimneys for Residential Type and Building Heating Appliances

**UL 127**
Factory-Built Fireplaces

**UL 181**
Factory-Made Air Ducts and Air Connectors

**UL 295**
Commercial-Industrial Gas Burners

**UL 441**
Gas Vents

**UL 471**
Commercial Refrigerators and Freezers

**UL 737**
Fireplace Stoves

**UL 1046**
Grease Filters for Exhaust Ducts
UL 1995
Heating and Cooling Equipment