May 19, 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. ASSE International

18927 Hickory Creek Dr., Suite 220
Mokena, IL 60448
Phone: (708) 995-3019

Expiration: April 1, 2021

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, 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.

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 Vacuum Applications, Above- and Below-Ground

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

ASME A112.14.1
Backwater Valves

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 A112.19.1/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 B45.15
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 A112.21.3M
Hydrants for Utility and Maintenance Use

ASME A112.36.2M
Cleanouts

ASSE 1000
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 1008
Plumbing Aspects of Residential Food Waste Disposer Units

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 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 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 1044  
Trap Seal Primer- Drainage Types and Electric 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 1053  
Dual Check Backflow Preventer Wall Hydrants - Freeze Resistant Type

ASSE 1055  
Chemical Dispensing Systems

ASSE 1056  
Spill Resistant Vacuum Breakers

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 Supply Fittings

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

ASSE 1069  
Automatic Temperature Control Mixing Valves

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

ASSE 1071  
Temperature Activated Mixing Valves for Plumbed Emergency Equipment

ASSE 1079  
Dielectric Pipe Unions

ASSE Series 5000  
Cross-Connection Control Professional Qualifications Standard

AWWA C510  
Double Check Valve Backflow Prevention Assembly

AWWA C511  
Reduced-Pressure Principle Backflow Prevention Assembly

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 72  
Valves with Atmospheric Vacuum Breakers

IAPMO PS 76  
Flush Valves with Dual Flush Devices for Water Closets or Water Closet Tank with a Dual Flush Device

IAPMO PS 79  
Multiport Electronic Trap Primer

IAPMO PS 113  
Hydraulically Powered Household Food Waste Disposer

NSF 3  
Commercial Warewashing Equipment

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 ASSE standard specified.
2. 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

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

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

NSF 53
Drinking Water Treatment Units - Health Effects

NSF 61
Drinking Water System Components – Health Effects

PDI WH-201
Water Hammer Arresters

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 441
Gas Vents

UL 569
Pigtails and Flexible Hose Connectors for LP-Gas

UL 726
Oil-Fired Boiler Assemblies

UL 732
Oil-Fired Storage Tank Water Heaters

UL 778
Motor-Operated Water Pumps

UL 1081
Swimming Pool Pumps, Filters, and Chlorinators
**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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<tbody>
<tr>
<td>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>
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<tr>
<td>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>
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<td>Certification mark</td>
<td>Indicates that the product was tested and has met the certification requirements for gas-fired products.</td>
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<tr>
<td>LLC</td>
<td>Certification mark</td>
<td>Indicates the product was tested and has met low lead content requirements.</td>
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<tr>
<td>LOW LEAD CONTENT</td>
<td>Certification mark</td>
<td>Indicates the product was tested and has met low lead content requirements.</td>
</tr>
<tr>
<td>Drinking Water</td>
<td>Certification mark</td>
<td>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.</td>
</tr>
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<td>Field certification label</td>
<td>Indicates that the product was tested and has met the certification and regional installation requirements for products.</td>
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<td>Field certification label</td>
<td>Indicates that the product was tested and has met the certification and regional installation requirements for products.</td>
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<tr>
<td>Field certification label</td>
<td>Indicates that the gas-fired product was tested and met the certification and regional installation requirements for products.</td>
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</tr>
<tr>
<td>Field evaluation label</td>
<td>Indicates 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>
<td></td>
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</table>
3. FM Approvals LLC

(Main Lab) 1151 Boston-Providence Turnpike
P.O. Box 9102
Norwood, MA 02062
Phone: (781) 762-4300

(Branch Lab) Hydraulics Laboratory
743A Reynolds Road
West Glocester, RI 02814
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:

- **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”**
  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**
  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.
4. 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 A13.1
Scheme for the Identification of Piping Systems

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

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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 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
ASME A13.1
Scheme for the Identification of Piping Systems

ASME A112.4.1
Water Heater Relief Valve Drain Tubes

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

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

ASME B16.9
Factory-Made Wrought Buttwelding Fittings

ASME B16.11
Forged Fittings, Socket-Welding and Threaded

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 2500

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 ½- NPS 2)

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

ASME B31.5
Refrigeration Piping and Heat Transfer Components

ASME B36.10M
Welded and Seamless Wrought Steel Pipe

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

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

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

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

ASTM A254/ A254M
Copper-Brazed Steel Tubing

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

ASTM A420 / A420M
Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low-Temperature Service

ASTM A568/A568M
Steel, Sheet, Carbon, Structural, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled

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 B32
Solder Metal

ASTM B42
Seamless Copper Pipe, Standard Sizes

ASTM B43
Seamless Red Brass Pipe, Standard Sizes

ASTM B75
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/A241M
Aluminum and Aluminum-Alloy 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 | 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 D93 | Flash Point by Pensky-Martens Closed Cup Tester |
| ASTM D396 | Fuel Oils |
| ASTM D1693 | Environmental Stress-Cracking of Ethylene Plastics |
| ASTM D1785 | Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120 |
| ASTM D2241 | Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe |
| 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 D396 | Fuel Oils |
| ASTM D1693 | Environmental Stress-Cracking of Ethylene Plastics |
| ASTM D1785 | Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120 |
| ASTM D2241 | Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe |
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 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 268A        | Smoke Detectors for Duct Application |
| UL 275         | Compressed Gas Regulators |
| 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 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 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 |
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
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.
5. ICC Evaluation Service, LLC

3060 Saturn Street, Suite 100
Brea, CA 92821
Phone: (562) 699-0543

Expiration: July 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 700
Specification for Fluorocarbon Refrigerants

ASCE 25
Earthquake Actuated Automatic Gas Shutoff Devices

ASHRAE 62.1
Ventilation for Acceptable Indoor Air Quality

ASME A13.1
Scheme for the Identification of Piping Systems

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

ASME A112.4.1
Water Heater Relief Valve Drain Tubes

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 B16.18
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, 1,500 and 2500

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 B16.50
Wrought Copper and Copper Alloy Braze-Joint Pressure Fittings

ASME B31.5
Refrigeration Piping and Heat Transfer Components

ASME B36.10M
Welded and Seamless Wrought Steel Pipe

ASME Section IV
Rules for Construction of Heating Boilers

ASME Section VIII
Rules for Construction of Pressure Vessels Division 1

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

ASTM A254 / A254M
Copper-Brazed Steel Tubing

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

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 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 B667
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 Crosslinked 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 Polyethylene of Raised Temperature (PE-RT) 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 536  
Flexible Metallic Hose

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/CWA 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
Fixtures 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/CWA B125.1
Plumbing Supply Fittings

ASME A112.18.2/CWA 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/CWA B125.6
Flexible Water Connectors

ASME A112.19.1/CWA B45.2
Enameled Cast-Iron and Enameled Steel
Plumbing Fixtures

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

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

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

ASME A112.19.7/CWA 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 Brazed-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  Reduced Pressure 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 1059  Chemical Dispensing Systems

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

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 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)

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 & 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) Gaskets 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

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

ASTM D2239  Poly (Vinyl Chloride) (PVC) Pressure-Rated pipe (SDR Series)

ASTM D2241  Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80

ASTM D2245  Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications

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

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

ASTM D2657  Heat Fusion Joining of Polyolefin Pipe Fittings


ASTM D2672  Joints for IPS PVC Pipe Using Solvent Cement

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

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

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

ASTM D2737  Polyethylene (PE) Plastic Tubing

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

ASTM D2774  Underground Installation of Thermoplastic Pressure Piping

ASTM D2855  Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings

ASTM D2996  Filament-Wound “Fiberglass” (Glass-Fiber-Reinforced Thermosetting Resin) Pipe

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

ASTM D3035  Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter
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) Sheet 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 Mechanical Fittings 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 Brazing 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. 3in. (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 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. (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
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

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 B45.0
General Requirements for Plumbing Fixtures

CSA B45.5 / IAPMO Z124
Plastic Plumbing Fixtures

CSA B45.11 / IAPMO Z401
Glass Plumbing Fixtures

CSA B64
Backflow Preventers and Vacuum Breakers

CSA B64.1.1
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 Type (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 (DVCA) 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 B128.1 / CSA B128.2
Design and Installation of Non-Potable Water Systems/Maintenance and Field Testing of Non-Potable Water Systems

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

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

CSA B242
Groove- and Shoulder-Type Mechanical Pipe Couplings

CSA B356
Water Pressure Reducing Valves for Domestic Water Supply Systems

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 Drain 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 75,000 Btu per Hour or Less (same as CSA 4.1)

CSA Z21.10.3
Gas Water Heaters – Volume III, Storage, with Input Ratings Above 75,000 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 (same as CSA 9.1b)

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

CSA Z21.24b
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 2.91b)

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 Z21.69a
Connectors for Movable 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)

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

IAPMO IGC 154
Shower and Tub/Shower Enclosures and Shower Panels
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
Multiprot 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 Shutdown 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
Prefabriacted 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)

IAPMO Z1117.1
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:

- UL 2157: Electric Clothes Washing Machines and Extractors
- WQA S-300: Point-of-Use Low Pressure Reverse Osmosis Drinking Water Systems

<table>
<thead>
<tr>
<th>Certification Mark</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>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>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>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>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>
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<td>ICC-ES PMG LOW LEAD</td>
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</tr>
<tr>
<td>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>
6. 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, 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, 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/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/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

- **ASSE 1001**
  - Atmospheric Type Vacuum Breakers

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

- **ASME B42**
  - Seamless Copper Pipe, Standard Sizes

- **ASME 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 B302**
  - Threadless Copper Pipe, Standard Sizes

- **ASTM B306**
  - Copper Drainage Tube (DWV)

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

- **ASTM C425**
  - Compression Joints for Vitrified Clay Pipe and Fittings
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 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 F891
Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe with a Cellular Core

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

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

BS EN 12976-2
Thermal Solar Systems and Components - Factory Made Systems - 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 B45.5/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 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 Z21.12b
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 Z21.22
Relief Valves for Hot Water Supply Systems (same as CSA 4.4)

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

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 4.7)

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

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 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 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 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 536**
Flexible Metallic Hose

**UL 563**
Ice Makers

**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 B16.18**
Cast Copper Alloy Solder Joint Pressure Fittings

**ASTM B88**
Seamless Copper Water Tube

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

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

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

**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 Z21.47**
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 2.26)

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

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

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

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

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

**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 Z21.47**
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 2.26)

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

**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 Z21.88**
Vented Gas Fireplace Heaters (same as CSA 2.33)
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 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 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 2158
Electric Clothes Dryers

UL 2162
Commercial Wood-Fired Baking Ovens-Refractory Type

UL 2200
Stationary Engine Generator Assemblies

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

- ETL Listed
- Intertek

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

- ETL Certified
- Intertek

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

- ETL Field Evaluated
- Intertek

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

- Complies to UPC
- Intertek

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

- C-US Intertek

Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.
7. 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:

\[\text{LC}_{\text{us}}\]

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

\[\text{LC}_{\text{us}}\]

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

Field Evaluated in: ________________________

\[\text{cLC}_{\text{us}}\]

Indicates that the product was certified for the United States and Canada.
8. 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**
Solvant 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 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 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

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, Appurtenances, 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 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
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 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 D2672
Joints for IPS PVC Pipe Using Solvent Cement

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

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

ASTM D2737
Polyethylene (PE) Plastic Tubing

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

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

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

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 Fittings for Polyethylene (PE) Plastic Pipe and Tubing

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

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

ASTM E84
Surface Burning Characteristics of Building Materials.

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

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ASTM F442/F442M
Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDPR)

ASTM F480
Thermoplastic Well Casing Pipe and Couplings Made in Standard Dimension Ratios (SDR), SCH 40 and SCH 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 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 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 F1673
Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems

ASTM F1807
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
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
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Certification Marks:

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

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

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

**NSF dwv**
This Mark indicates that the product is certified to NSF/ANSI 14 for drain, waste and vent
9. 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.
10. PFS Corporation

1507 Matt Pass
Cottage Grove, WI 53527
Phone: (608) 839-1013

Expiration: May 1, 2021

This agency is approved for listing of mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Mechanical Code, 2020 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 Z21.58**
  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 2.26)

- **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 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 US](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 US](image)
  This marking indicates that the product has been evaluated to meet U.S. standards, and is listed to the applicable standard specified.

- ![PFS US](image)
  This marking indicates that the product has been evaluated and is listed to the applicable standard specified.
# 11. QAI Laboratories, Inc.

(Oct 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:

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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

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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

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CSA B64.1.2
Pressure Vacuum Breakers (PVB)

CSA B64.2
Hose Connection Vacuum Breakers (HCVB)

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Hose Connection Dual Check Vacuum Breakers (HCDVB)

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Reduced Pressure Principle (RP) Backflow Preventers

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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

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IAPMO PS 59
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Early-Closure Replacement Flappers
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Supply Stops, and Risers

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

IAPMO PS 98
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Baptisteries

MSS SP-67
Butterfly Valves

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Drinking Water System Components -
Health Effects

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

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.
12. 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

SRCC 100
Solar Thermal Collectors

SRCC 300
Solar Water Heating Systems

NSF 50
Equipment for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities
Certification Mark:

This marking indicates that the product has been tested and has met the certification requirements of SRCC Standard 100.

This marking indicates that the product has been tested and has met the certification requirements of SRCC Standard 300.

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.
13. Truesdail Laboratories, Inc.

3337 Michelson Drive, Suite CN750
Irvine, CA 92612
Phone: (714) 730-6239

Expiration: January 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.

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 B16.24
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.
14. 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 94583  
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:

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ASTM E84
Surface Burning Characteristics of Building Materials

ASTM E96 / E96M
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 Resistant Grease Duct Enclosure Systems

AWWA C110
Ductile-Iron and Gray-Iron Fittings

AWWA C151
Ductile-Iron Pipe, Centrifugally Cast

AWWA C153
Ductile-Iron Compact Fittings

CSA FC-1
Fuel Cell Technologies-Part-3-100: Stationary Fuel Cell Power Systems

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

CSA Z21.17a
Domestic Gas Conversion Burners (same as CSA2.7a)

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

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
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CSA Z21.47
Gas-Fired Central Furnaces (same as CSA2.3)

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 2.26)

CSA Z21.61
Gas-Fired Toilets

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

CSA Z21.86
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CSA Z21.88
Vented Gas Fireplace Heaters (same as CSA 2.33)

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

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

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

CSA Z83.11
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)

NFPA 259
Potential Heat of Building Materials

NFPA 262
Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces

NFPA 274
Test Method to Evaluate Fire Performance Characteristics of Pipe Insulation

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

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

SMACNA-2012
HVAC Air Duct Leakage Test Manual, 2nd 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 Fuel and Other Combustible Liquids
UL 103  Factory-Built Chimneys for Residential Type and Building Heating Appliances

UL 125  Valves for Anhydrous Ammonia and LP-Gas (Other than Safety Relief)

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 Gauges for Oil Burner Fuels and Other Combustible Liquids

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

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UL 268A  Smoke Detectors for Duct Application

UL 295  Commercial-Industrial Gas Burners

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 404  Gauges, Indicating Pressure, for Compressed Gas Service

UL 412  Refrigeration Unit Coolers

UL 427  Refrigerating Units

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 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 PVC Conduit and Fittings

UL 710  Exhaust Hoods for Commercial Cooking Equipment

UL 710B  Recirculating Systems

UL 710C  Ultraviolet Radiation Systems for Use in the Ventilation Control of Commercial Cooking Operations

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 762  Power Roof Ventilators for Restaurant Exhaust Appliances

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  
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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  
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UL 1812  
Ducted Heat Recovery Ventilators

UL 1815  
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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 1987  
Fire Test of Plastic Sprinkler Pipe for Visible Flame and Smoke Characteristics

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 Resistant 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
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 F446  
Grab Bars and Accessories Installed in the Bathing Area

AWWA C110  
Ductile-Iron and Gray-Iron Fittings

AWWA C151  
Ductile-Iron Pipe, Centrifugally Cast

AWWA C153  
Ductile-Iron Compact Fittings

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)

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

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 B45.1 / ASME A112.19.2  
Ceramic Plumbing Fixtures

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

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

CSA B45.5 / IAPMO Z124  
Plastic Plumbing Fixtures

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

CSA B45.11 / IAPMO Z401  
Glass Plumbing Fixtures

CSA B45.12 / IAPMO Z402  
Aluminum and Copper Plumbing Fixtures

CSA B64.1.1  
Atmospheric Vacuum Breakers (AVB)

CSA B64.1.2  
Pressure Vacuum Breakers (PVB)

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

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 But per Hour, Circulating and Instantaneous (same as CSA 4.3)

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

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

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

Energy Star – 2007(version 2.0)  
Program Requirements for Commercial Dishwashers

EPA WaterSense - 2007  
High-Efficiency Lavatory Faucet Specification

EPA WaterSense - 2009  
Specification for Flushing Urinals

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

IAPMO PS 42  
Pipe Alignment and Secondary Support Systems

IAPMO PS 54  
Metallic and Plastic Utility Boxes

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

IAPMO PS 117  
Press and Nail Connections

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 / CSA B45.8  
Terrazzo, Concrete, and Natural Stone Plumbing Fixtures

IAPMO Z1000  
Prefabricated Septic Tanks

IAPMO Z1001  
Prefabricated Gravity Grease Interceptors

IAPMO Z1088  
Pre-Pressurized Water Expansion Tanks

IAPMO Z1157  
Ball Valves

ISEA Z358.1  
Emergency Eyewash and Shower Equipment

MSS SP-67  
Butterfly Valves

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 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 169  Special Purpose Food Equipment and Devices
UL 17  Vent or Chimney Connector Dampers for Oil-Fired Appliances
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 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 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 536  Flexible Metallic Hose
UL 563  Ice Makers
UL 569  Pigtailed 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 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 921  Commercial Dishwashers
UL 959  Medium Heat Appliance Factory-Built Chimneys
UL 1206  Electric Commercial Clothes-Washing Equipment
UL 1331  Station Inlets and Outlets
UL 1453  Electric Booster and Commercial Storage Tank Water Heaters
UL 1479  Fire Tests of Penetration Firestops
UL 1795  Hydromassage Bathtubs
UL 1951  Electric Plumbing Accessories
UL 2157  Electric Clothes Washing Machines and Extractors
UL 2523  Solid Fuel-Fired Hydronic Heating Appliances, Water Heaters, and Boilers
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.
15. 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 59**: Ultraviolet Microbiological 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

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3. TI RADCO LLP

3220 E. 59th St.
Long Beach, CA, 90805
Phone: 562-272-7231

Expiration: January 1, 2021

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 Z21.5.1**
  Gas Clothes Dryers - Volume 1, 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 Z21.8**
  Installation of Domestic Gas Conversion Burners

- **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

- **CSAI Z21.12b**
  Draft Hoods

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

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

- **CSA Z21.40.1a**
  Gas-Fired, Heat Activated Air-Conditioning and Heat Pump 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 Z83.4**
  Non-Recirculating Direct Gas-Fired Industrial Air Heaters (same as CSA 3.7)

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

- **CSA Z83.11**
  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