City of Los Angeles
Department of Building and Safety

MECHANICAL TESTING LABORATORY

LIST OF APPROVED
LISTING AND TESTING AGENCIES

September 5, 2019

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

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

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

1. CSA Group Testing & Certification Inc.

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

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

(Branch Lab)
No. 10, Keyan Road, Science Park
Luo Gang District, Guangzhou
Guangdong 510663
People’s Republic of China
Phone: 949-733-4300

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 Tanks

ASSE 1003
Water Pressure Reducing Valves for Domestic Water Distribution Systems

ASSE 1010
Water Hammer Arrestors

ASSE 1011
Hose Connection Vacuum Breakers

ASSE 1012
Backflow Preventers with an Intermediate Atmospheric Vent

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

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

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

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves - Potable Water Supplied

ASSE 1019
Wall Hydrant with Backflow Protection and Freeze Resistance

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1022
Backflow Preventer for Beverage Dispensing Equipment

ASSE 1024
Dual Check Backflow Preventers

ASSE 1035
Laboratory Faucet Backflow Preventers

ASSE 1037
Pressurized Flushing Devices (Flushometers) For Plumbing Fixtures

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

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052
Hose Connection Backflow Preventers

ASSE 1056
Spill Resistant Vacuum Breakers

ASSE 1061
Push-Fit Fittings

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

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

ASSE 1069
Automatic Temperature Control Mixing Valves

ASSE 1070
Water Temperature Limiting Devices

ASTM C1173
Flexible Transition Couplings for Underground Piping Systems

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

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

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

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

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

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

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

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

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

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

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

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

CSA B45.0
General Requirements for Plumbing Fixtures

CSA B45.5
Plastic Plumbing Fixtures

CSA B64
Backflow Preventers and Vacuum Breakers

CSA B64.1.1
Atmospheric Vacuum Breakers (AVB)

CSA B64.1.2
Pressure Vacuum Breakers (PVB)

CSA B64.2
Hose Connection Vacuum Breakers (HCVB)

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

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

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

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

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

CSA B79
Commercial and Residential Drains and Cleanouts

CSA B125.3
Plumbing Fittings

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

CSA B356
Water Pressure Reducing Valves for Domestic Water Supply Systems

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

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

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

CSA Z21.12b
Draft Hoods

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

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

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

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

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

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

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

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

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

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

IAPMO Z124.5
Plastic Toilet Seats

NSF 41
Non-Liquid Saturation Treatment Systems

NSF 42
Drinking Water Treatment Units - Aesthetic Effects

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
<table>
<thead>
<tr>
<th>CSA Mark</th>
<th>Type of Mark/Label</th>
<th>CSA Mark/Label Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Image" alt="CSA Mark" /></td>
<td>Certification mark</td>
<td>Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.</td>
</tr>
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<td><img src="Image" alt="CSA Mark" /></td>
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</tr>
<tr>
<td><img src="Image" alt="CSA Mark" /></td>
<td>Certification mark</td>
<td>Indicates that the product was tested and has met the certification requirements for gas-fired products.</td>
</tr>
<tr>
<td><img src="Image" alt="CSA Mark" /></td>
<td>Certification mark</td>
<td>Indicates the product was tested and has met low lead content requirements.</td>
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</tr>
<tr>
<td><img src="Image" alt="CSA Mark" /></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>
<tr>
<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>
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<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>
<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>
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</tbody>
</table>
2. FM Approvals LLC

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

Expiration: October 1, 2019

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, 2017 Edition.

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

Certification Marks:

<table>
<thead>
<tr>
<th>Mark</th>
<th>Description</th>
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<tbody>
<tr>
<td><img src="image1.png" alt="FM Approved Mark" /></td>
<td><strong>FM Approved Mark</strong>&lt;br&gt;This marking indicates that the product has been evaluated and is listed to the applicable standard specified.</td>
</tr>
<tr>
<td><img src="image2.png" alt="FM Approved Mark with “C” and “US”" /></td>
<td><strong>FM Approved Mark with “C” and “US”</strong>&lt;br&gt;This marking indicates that the product has been evaluated to meet Canadian and U.S. standards, and is listed to the applicable standard specified.</td>
</tr>
<tr>
<td><img src="image3.png" alt="FM Approved Cast-On Marks" /></td>
<td><strong>FM Approved Cast-On Marks</strong>&lt;br&gt;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.</td>
</tr>
</tbody>
</table>
3. International Association of Plumbing and Mechanical Officials Research and Testing (IAPMO R&T)

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

Expiration: June 1, 2020

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

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

**Plumbing:**

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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 B1.20.1
Pipe Threads, General Purpose, Inch

ASME B1.20.3
Dryseal Pipe Threads, Inch

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

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

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

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

ASME B16.12
Cast Iron Threaded Drainage Fittings

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

ASME B16.18
Cast Copper Alloy Solder Joint Pressure Fittings

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

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

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

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

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

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

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

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

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

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

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

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

ASME B31.1
Power Piping

ASME B31.3
Process Piping

ASME B36.10M
Welded and Seamless Wrought Steel Pipe

ASME B36.19
Stainless Steel Pipe

ASME BPVC Section IV
Rules for Construction of Heating Boilers

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

ASME BPVC Section IX
Welding, Brazing and Fusing Qualifications

ASSE 1001
Atmospheric Type Vacuum Breakers

ASSE 1002
Anti-Siphon Fill Valves for Water Closet Tanks

ASSE 1003
Water Pressure Reducing Valves for Domestic Water Distribution Systems

ASSE 1004
Backflow Preventing Requirements for Commercial Dishwashing Machines

ASSE 1008
Plumbing Aspects of Residential Food Waste Disposer Units

ASSE 1010
Water Hammer Arresters

ASSE 1011
Hose-Connection Vacuum Breakers

ASSE 1012
Backflow Preventer with Intermediate Atmosphere Vent

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

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

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

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves- Potable Water Supplied

ASSE 1019
Wall Hydrant with Backflow Protection and Freeze Resistance

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1022
Backflow Preventer for Beverage Dispensing Equipment

ASSE 1023
Hot Water Dispensers Household Storage Type-Electrical

ASSE 1024
Dual Check Backflow Preventers

ASSE 1025
Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Types

ASSE 1035
Laboratory Faucet Backflow Preventer

ASSE 1037
Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures

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

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASTM A74
Cast Iron Soil Pipe and Fittings

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

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

ASTM A197/A197M
Cupola Malleable Iron

ASTM A254/A254M
Copper-Brazed Steel Tubing

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

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

ASTM A377
Ductile-Iron Pressure Pipe

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

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

ASTM A536
Ductile Iron Castings

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

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

ASTM A861
High-Silicon Iron Pipe and Fittings

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

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

ASTM B29  Refined Lead

ASTM B32  Solder Metal

ASTM B42  Seamless Copper Pipe, Standard Sizes

ASTM B43  Seamless Red Brass Pipe, Standards Sizes

ASTM B75/B75M  Seamless Copper Tube

ASTM B88  Seamless Copper Water Tube

ASTM B135  Seamless Brass Tube

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

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

ASTM B210  Aluminum and Aluminum-Alloy Drawn Seamless Tubes

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

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

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

ASTM B302  Threadless Copper Pipe, Standard Sizes

ASTM B306  Copper Drainage Tube (DWV)

ASTM B370  Copper Sheet and Strip for Building Construction

ASTM B447  Welded Copper Tube

ASTM B584  Copper Alloy Sand Casting for general Applications

ASTM B587  Welded Brass Tube

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

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

ASTM B819  Seamless Copper Tube for Medical Gas Systems

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

ASTM C4  Clay Drain Tile and Perforated Clay Drain Tile

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

ASTM C412  Concrete Drain Tile

ASTM C425  Compression Joints for Vitrified Clay Pipe and Fittings

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

ASTM C444  Perforated Concrete Pipe

ASTM C478  Precast Reinforced Concrete Manhole Sections

ASTM C564  Rubber Gaskets for Cast Iron Soil Pipe and Fittings

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

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

ASTM C1173  Flexible Transition Couplings for Underground Piping Systems

ASTM C1227  Precast Concrete Septic Tanks

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

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

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

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

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

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

ASTM D1785  Poly (Vinyl Chloride) (PVC) Plastic Pipe Schedules 40, 80 and 120
ASTM F438
Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40

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

ASTM F446
Grab Bars and Accessories Installed in the Bathing Area

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

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

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

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

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

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

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

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

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

ASTM F 894
Polyethylene (PE) Large Diameter Profile Wall Sewer and Drain Pipe

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

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

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

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

ASTM F1412
Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

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

ASTM F1488
Coextruded Composite Pipe

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

ASTM F1673
Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems

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

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

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

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

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

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

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

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

ASTM F2165
Flexible Pre-Insulated Piping

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

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

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

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

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

AWS B2.4
Welding Procedure and Performance Qualification for Thermoplastic

AWWA C110
Ductile-Iron and Gray-Iron Fittings

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

AWWA C151
Ductile-Iron Pipe, Centrifugally Cast

AWWA C153
Ductile-Iron Compact Fittings

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

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

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

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

AWWA C500
Metal Seated Service Gate Valves for Water Supply Service

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

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

AWWA C510
Double Check Valve Backflow Prevention Assembly

AWWA C511
Reduced Pressure Principle Backflow Prevention Assembly

AWWA C606
Grooved and Shouldered Joints

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

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

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

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

CGA G-4.1
Cleaning Equipment for Oxygen Service

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

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

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

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

CSA A257
Concrete Pipe and Manhole Sections

CSA B45.5/IAPMO Z124
Plastic Plumbing Fixtures

CSA B45.11/IAPMO Z401
Glass Plumbing Fixtures

CSA B64
Backflow Preventers and Vacuum Breakers

CSA B64.1.1
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 Vacuum Breakers (HCDV)

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

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

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

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

CSA B64.7
Laboratory Faucet Vacuum Breakers (LFVB)

CSA B79
Commercial and Residential Drains and Cleanouts

CSA B125.3
Plumbing Fittings

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

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

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

CSA B481  
Grease Interceptors

CSA G401  
Corrugated Steel Pipe Products

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

CSA LC 3  
Appliance Stands and Drains Pans

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

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

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

CSA Z21.12b  
Draft Hoods

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Energy Star – 2007  
Specification for Commercial Dishwashers

EPA Watersense – 2007  
High-Efficiency Lavatory Faucet Specification

EPA Watersense – 2009  
Specification for Flushing Urinals

EPA Watersense – 2011  
Specification for Tank-Type Toilets

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

IAPMO IGC 157  
Ball Valves

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

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

IAPMO PS 23  
Dishwasher Drain Airgaps

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

IAPMO PS 34  
Encasement Sleeve for Portable Water Pipe and Tube

IAPMO PS 36  
Lead-Free Sealing Compounds for Threaded Joints

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

IAPMO PS 42  
Pipe Alignment and Secondary Support Systems

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

IAPMO PS 51  
Expansion Joints for DWV Piping Systems

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

IAPMO PS 53  
Grooved Mechanical Pipe Couplings and Grooved Fittings

IAPMO PS 54  
Metallic and Plastic Utility Boxes

IAPMO PS 57  
PVC Hydraulically Actuated Diaphragm Type Water Control Valves

IAPMO PS 59  
Waste Water Diverter Valves and Diversion System

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

IAPMO PS 65
Airgap Units for Water Conditioning Equipment Installation

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

IAPMO PS 69
Bathwaste and Overflow Assemblies with Tub Filler Spout

IAPMO PS 72
Valves with Atmospheric Vacuum Breaker

IAPMO PS 73
Dental Vacuum Pumps

IAPMO PS 76
Trap Primers for Fill Valves and Flushometer Valves

IAPMO PS 79
Multiport Electronic Trap Primer

IAPMO PS 80
Clarifiers

IAPMO PS 81
Precast Concrete Seepage Pit Liners and Covers

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

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

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

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

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

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

IAPMO PS 91
Plastic Stabilizer for Use with Plastic Closet Bends

IAPMO PS 92
Heat Exchangers and Indirect Water Heaters

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

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

IAPMO PS 96
Passive Direct Solar Water Heaters

IAPMO PS 98
Prefabricated Fiberglass Church Baptisteries

IAPMO PS 100
Suction Relief Valves

IAPMO PS 104
Pressure Relief Connection for Dispensing Equipment

IAPMO PS 105
Polyethylene Distribution Boxes

IAPMO PS 106
Tileable Shower Receptors and Shower Kits

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

IAPMO PS 110
PVC Cold Water Compression Fittings

IAPMO PS 111
PVC Cold Water Gripper Fittings

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

IAPMO PS 113
Hydraulically Powered Household Food Waste Disposers

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

IAPMO Z124.5
Plastic Toilet Seats

IAPMO Z124.7
Prefabricated Plastic Spa Shells

IAPMO Z124.8
Plastic Liners for Bathubs and Shower Receptors

IAPMO Z1000
Prefabricated Septic Tanks

IAPMO Z1001
Prefabricated Gravity Grease Interceptors

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

ICC A117.1
Accessible and Usable Buildings and Facilities

ISEA Z358.1
Emergency Eyewash and Shower Equipment

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

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

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

MSS SP-44
Steel Pipeline Flanges

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

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

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

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

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

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

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

MSS SP 104  
Wrought Copper Solder Joint Pressure Fittings

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

MSS SP 109  
Welded Fabricated Copper Solder Joint Pressure Fittings

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

NSF 2  
Food Equipment

NSF 3  
Commercial Warewashing Equipment

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

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

NSF 12  
Automatic Ice Making Equipment

NSF 14  
Plastics Piping System Components and Related Materials

NSF 18  
Manual Food and Beverage Dispensing Equipment

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

NSF 40  
Residential Wastewater Treatment Systems

NSF 41  
Non-Liquid Saturated Treatment Systems

NSF 42  
Drinking Water Treatment Units-Aesthetic Effects

NSF 44  
Residential Cation Exchange Water Softeners

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

NSF 53  
Drinking Water Treatment Unit-Health Effects

NSF 55  
Ultraviolet Microbiological Water Treatment Systems

NSF 58  
Reverse Osmosis Drinking Water Treatment Systems

NSF 61  
Drinking Water System Components - Health Effects

NSF 62  
Drinking Water Distillation Systems

NSF 169  
Special Purpose Food Equipment and Devices

NSF 350  
Onsite Residential and Commercial Water Reuse Treatment Systems.

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

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

PDIWH 201  
Water Hammer Arresters

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

SAE J512  
Automotive Tube Fittings

SAE J1670  
Type “F” Clamps for Plumbing Applications

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

TCNA A137.1  
Specifications for Ceramic Tile

UL 70  
Septic Tanks, Bituminous Coated Metal

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

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

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

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

UL 144  
LP-Gas Regulators

UL 174  
Household Electric Storage Tank Water Heaters

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

UL 296  
Oil Burners

UL 343  
Pumps for Oil-Burning Appliances

UL 378  
Draft Equipment

UL 399  
Drinking Water Coolers

UL 404  
Gauges, Indicating Pressure, for Compressed Gas Services

UL 429  
Electrically Operated Valves

UL 430  
Waste Disposers

UL 441  
Gas Vents

UL 443  
Steel Auxiliary Tanks for Oil-Burner Fuel

UL 499  
Electric Heating Appliances

UL 536  
Flexible Metallic Hose

UL 563  
Ice Makers

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

UL 569  
Pigtails and Flexible Hose Connectors for LP-Gas

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

UL 723  
Test for Surface Burning Characteristics of Building Materials

UL 726  
Oil-Fired Boiler Assemblies

UL 732  
Oil-Fired Storage Tank Water Heaters

UL 749  
Household Dishwashers

UL 778  
Motor-Operated Water Pumps

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

UL 921  
Commercial Dishwasher

UL 959  
Medium Heat Appliances Factory-Built Chimneys

UL 1081  
Swimming Pool Pumps, Filters, and Chlorinators

UL 1206  
Electric Commercial Clothes-Washing Equipment

UL 1261  
Electric Water Heaters for Pools and Tubs

UL 1331  
Station Inlets and Outlets

UL 1453  
Electric Booster and Commercial Storage Tank Water Heaters

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

UL 1479  
Fire Test of Through-Penetration Firestops

UL 1795  
Hydromassage Bathtubs

UL 1951  
Electric Plumbing Accessories

UL 2157  
Electric Clothes Washing Machines and Extractors

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

Mechanical Standards:

AHRI 700  
Specification for Fluorocarbon Refrigerants

AMCA 500-D  
Laboratory Methods of Testing Dampers for Ratings

AMCA 540  
Louveres 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
Threadless Copper Pipe, Standard Sizes

ASTM B306
Copper Drainage Tube (DWV)

ASTM B370
Copper Sheet and Strip for Building Construction

ASTM B447
Welded Copper Tube

ASTM B587
Welded Brass Tube

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

ASTM B813
Liquid and Paste Fluxes for Soldering 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 C518

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 D814
Fire Tests of Penetration Firestop Systems

ASTM E2231
Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assist Surface Burning Characteristics

ASTM E2336
Fire Resistant Grease Duct Enclosure Systems

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

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

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

ASTM F1055
Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing

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

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

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

ASTM F1961
Metal Mechanical Cold Flare Compression Fittings with Disc Spring for Crosslinked Polyethylene (PEX) Tubing
ASTM F1970
Special Engineered Fittings, Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems

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

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

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

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

ASTM F2158
Residential Central-Vacuum Tube and Fittings

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

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

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

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

AWS B2.4
Welding Procedures and Performance Qualifications for Thermoplastics

AWWA C110
Ductile-Iron and Gray-Iron Fittings

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

AWWA C151
Ductile-Iron Pipe, Centrifugally Cast

AWWA C153
Ductile-Iron Compact Fittings

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

AWWA C500
Metal-Seated Gate Valves for Water Supply Service

CAN / CGSB 3.2
Heating Fuel Oil

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

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

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

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

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

CSA C448
Design and Installation of Earth-Energy Systems

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

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

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

CSA Z21.1b
Household Gas Cooking Appliances

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

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

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

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

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

CSA Z21.12b
Draft Hoods

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

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

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

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

CSA Z21.20a
Automatic Gas Ignition Systems and Components

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

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

CSA Z21.23
Gas Appliance Thermostats

CSA Z21.24a
Connectors for Gas Appliances

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

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

CSA Z21.42
Gas-Fired Illuminating Appliances

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

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

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

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

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

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

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

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

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

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

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

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

CSA 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)

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
SMACNA 2002
HVAC Systems Testing, Adjusting and Balancing

SMACNA 2003
Fibrous Glass Duct Construction Standard

SMACNA 2006
HVAC Duct Construction Standards Metal and Flexible

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

UL 21
LP-Gas Hose

UL 33
Heat Responsive Links for Fire-Protection Service

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

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

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

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

UL 127
Factory-Built Fireplaces

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

UL 144
LP-Gas Regulators

UL 174
Household Electric Storage Tank Water Heaters

UL 180
Liquid-Level Indicating Gauges for Oil Burner Fuels

UL 181
Factory-Made Air Ducts and Air Connectors

UL 181A
Closure Systems for Use with Rigid Air Ducts

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

UL 197
Commercial Electric Cooking Appliances

UL 207
Refrigerant-Containing Components and Accessories, Nonelectrical

UL 252
Compressed Gas Regulators

UL 268A
Smoke Detectors for Duct Application

UL 296
Oil Burners

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

UL 343
Pumps for Oil-Burning Appliances

UL 353
Limit Controls

UL 378
Draft Equipment

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

UL 399
Drinking Water Coolers

UL 404
Gauges, Indicating Pressure for Compressed Gas Service

UL 412
Refrigeration Unit Coolers

UL 429
Electrically Operated Valves

UL 441
Gas Vents

UL 443
Steel Auxiliary Tanks for Oil-Burner Fuel

UL 471
Commercial Refrigerators and Freezers

UL 525
Flame Arresters

UL 536
Flexible Metallic Hose

UL 555
Fire Dampers

UL 555C
Ceiling Dampers

UL 555S
Smoke Dampers

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

UL 569
Pigtails and Flexible Hose Connectors for LP-Gas

UL 641
Type L Low-Temperature Venting Systems

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

UL 710
Exhaust Hoods for Commercial Cooking Equipment

UL 710B
Recirculating Systems

UL 723
Test for Surface Burning Characteristics of Building Materials

UL 726
Oil-Fired Boiler Assemblies

UL 727
Oil-Fired Central Furnaces

UL 729
Oil-Fired Floor Furnaces

UL 730
Oil-Fired Wall Furnaces

UL 731
Oil-Fired Unit Heater

UL 732
Oil-Fired Storage Tank Water Heaters
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 Resistant 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.

**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.
4. 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 B687
Brass, Copper, and Chromium-Plated Pipe Nipples

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

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

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

ASTM C518

ASTM D93
Flash Point by Pensky-Martens Closed Cup Tester

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

ASTM E84
Surface Burning Characteristics of Building Materials

ASTM E814
Fire Tests of Penetration Firestop Systems

ASTM E2336
Fire Resistive Grease Duct Enclosure Systems

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

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

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

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

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

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

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

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

ASTM F2158
Residential Central-Vacuum Tube and Fittings

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

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

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

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

AWS B2.4
Welding Procedure and Performance Qualification for Thermoplastics

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

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

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

CAN/CGSB 3.2  
Heating Fuel Oil

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

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

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

CSA FC 1  
Stationary Fuel Cell Power Systems

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

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

CSA Z21.1b  
Household Gas Cooking Appliances

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

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

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

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

CSA Z21.11.2  
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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

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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
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Filler Metals for Brazing and Braze Welding

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

AWS B2.4
Welding Procedure and Performance Qualification for Thermoplastics

AWWA C110
Ductile-Iron and Gray-Iron Fittings

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

AWWA C151
Ductile-Iron Pipe, Centrifugally Cast

AWWA C153
Ductile-Iron Compact Fittings

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

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

AWWA C215
 Extruded Polylefin 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

CISA A257
Concrete Pipe and Manhole Sections

CISA B45.0
General Requirements for Plumbing Fixtures

CISA B45.5 / IAPMO Z124
Plastic Plumbing Fixtures

CISA B45.11 / IAPMO Z401
Glass Plumbing Fixtures

CISA B64
Backflow Preventers and Vacuum Breakers

CISA B64.1.1
Atmospheric Vacuum Breakers (AVB)

CISA B64.1.2
Pressure Vacuum Breakers (PVB)

CISA B64.2
Hose Connection Vacuum Breakers (HCVB)

CISA B64.2.1.1
Hose Connection Dual Check Type (HCDVB)

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

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

CISA B64.5
Double Check Valve (DVCA) Backflow Preventers

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

CISA B64.7
Laboratory Faucet Vacuum Breakers (LFVB)

CISA B79
Commercial and Residential Drains and Cleanouts

CISA B125.3
Plumbing Fittings

CISA B128.1 / CISA B128.2
Design and Installation of Non-Potable Water Systems/Maintenance and Field Testing of Non-Potable Water Systems

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

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

CISA B242
Groove- and Shoulder- Type Mechanical Pipe Couplings

CISA B356
Water Pressure Reducing Valves for Domestic Water Supply Systems

CISA G401
Corrugated Steel Pipe Products

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

CISA LC 3
Appliance Stands and Drain Pans

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

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

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

CISA Z21.12b
Draft Hoods

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

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

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

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

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

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

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

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

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

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

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

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

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

CISA 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
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Airgap Units for Water Conditioning Equipment Installation

IAPMO PS 66
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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
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IAPMO PS 76
Trap Primers for Fill Valves and Flusrometer Valves

IAPMO PS 79
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IAPMO PS 80
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IAPMO PS 81
Precast Concrete Seepage Pit Liners and Covers

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

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

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

IAPMO PS 87
Diverter and Shutoff Valves for Pool/Spas

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

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

IAPMO PS 91
Plastic Stabilizers for Use with Plastic Closet Bends

IAPMO PS 92
Heat Exchangers and Indirect Water Heaters

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

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

IAPMO PS 96
Passive Direct Solar Water Heaters

IAPMO PS 98
Prefabocated Fiberglass Church Baptisteries

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

IAPMO PS 101
Suction Relief Valves

IAPMO PS 104
Pressure Relief Connection for Dispensing Equipment

IAPMO PS 105
Polyethylene Distribution Boxes

IAPMO PS 106
Tileable Shower Receptors and Shower Kits

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

IAPMO PS 108
Restaurant Fire Suppression Systems

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

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

IAPMO PS 113
Hydraulically Powered Household Food Waster Disposers

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

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

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

IAPMO PS 117
Press and Nail Connections

IAPMO PS 119
Water-Powered Sump Pumps

IAPMO Z124.5
Plastic Toilet Seats

IAPMO Z124.7
Prefabricated Plastic Spa Shells

IAPMO Z124.8
Plastic Liners for Bathtubs and Shower Receptors

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

IAPMO Z1000
Prefabricated Septic Tanks

IAPMO Z1001
Prefabricated Gravity Grease Interceptors

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

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

ICC A117.1
Accessible and Usable Buildings and Facilities

ISEA Z358.1
Emergency Eyewash and Shower Equipment

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

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

MSS SP-44
Steel Pipeline Flanges

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

MSS SP-67
Butterfly Valves

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

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

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

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

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

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

MSS SP-104
Wrought Copper Solder Joint Pressure Fittings

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

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

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

NSF 2
Food Equipment

NSF 3
Commercial Warewashing Equipment

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

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

NSF 12
Automatic Ice Making Equipment

NSF 14
Plastic Piping System Components and Related Materials

NSF 18
Manual Food and Beverage Dispensing Equipment

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

NSF 40
Residential Wastewater Treatment Systems

NSF 41
Non-Liquid Saturated Treatment Systems

NSF 42
Drinking Water Treatment Units—Aesthetic Effects

NSF 44
Residential Cation Exchange Water Softeners

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

NSF 53
Drinking Water Treatment Units—Health Effects
40

**NSF 55**
Ultraviolet Microbiological Water Treatment Systems

**NSF 58**
Reverse Osmosis Drinking Water Treatment Systems

**NSF 61**
Drinking Water System Components—Health Effects

**NSF 62**
Drinking Water Distillation Systems

**NSF 169**
Special Purpose Food Equipment and Devices

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

**PDI-WH 201**
Water Hammer Arresters

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

**SAE J 512**
Automotive Tube Fittings

**SAE J1670**
Type "F" Clamps for Plumbing Applications

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

**TCNA A137.1**
Specification for Ceramic Tile

**UL 70**
Septic Tanks, Bituminous-Coated Metal

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

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

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

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

**UL 144**
LP-Gas Regulators

**UL 174**
Household Electric Storage Tank Water Heaters

**UL 252**
Compressed Gas Regulators

**UL 263**
Fire Tests of Building Construction and Materials

**UL 296**
Oil Burners

**UL 343**
Pumps for Oil-Burning Appliances

**UL 378**
Draft Equipment

**UL 399**
Drinking Water Coolers

**UL 404**
Gauges, Indicating Pressure, for Compressed Gas Service

**UL 429**
Electrically Operated Valves

**UL 430**
Waste Disposers

**UL 441**
Gas Vents

**UL 443**
Steel Auxiliary Tanks for Oil-Burner Fuel

**UL 499**
Electric Heating Appliances

**UL 536**
Flexible Metallic Hose

**UL 563**
Ice Makers

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

**UL 569**
Pigtails and Flexible Hose Connectors for LP Gas

**UL 723**
Test for Surface Burning Characteristics of Building Materials

**UL 726**
Oil-Fired Boiler Assemblies

**UL 732**
Oil-Fired Storage Tank Water Heaters

**UL 749**
Household Dishwashers

**UL 778**
Motor-Operated Water Pumps

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

**UL 921**
Commercial Dishwashers

**UL 959**
Medium Heat Appliance Factory-Built Chimneys

**UL 1081**
Swimming Pool Pumps, Filters, and Chlorinators

**UL 1206**
Electric Commercial Clothes-Washing Equipment

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

**UL 1331**
Station Inlets and Outlets

**UL 1453**
Electric Booster and Commercial Storage Tank Water Heaters

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

**UL 1479**
Fire Tests of Through-Penetration Firestops

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

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

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

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

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

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

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

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

Expiration: June 1, 2020

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

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

Plumbing Standards:

AHAM FDW-1  
Food Waste Disposers

ASME A112.18.1  
Plumbing Supply Fittings

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

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

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

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

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

ASME A112.19.10  
Dual Flush Devices for Water Closets

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

ASME B16.18  
Cast Copper Alloy Solder Joint Pressure Fittings

ASME B42  
Seamless Copper Pipe, Standard Sizes

ASME B43  
Seamless Red Brass Pipe, Standard Sizes

ASME B75/B75M  
Seamless Copper Tube

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 A74  
Cast Iron Soil Pipe and Fittings

ASTM A197/A197M  
Cupola Malleable Iron
ASTM C443  
Joints for Concrete Pipe and Manholes, Using Rubber Gaskets

ASTM C564  
Rubber Gaskets for Cast Iron Soil Pipe and Fittings

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

ASTM C1173  
Flexible Transition Couplings for Underground Piping Systems

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

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

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

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

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

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

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

ASTM E84  
Surface Burning Characteristics of Building Materials

ASTM E119  
Fire Tests of Building Construction and Materials

ASTM E814  
Fire Tests of Penetration Firestop Systems

ASTM F405  
Corrugated Polyethylene (PE) Pipe and Fittings

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

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

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

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

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

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

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

CSA B45.0  
General Requirements for Plumbing Fixtures

CSA B45.5/IAPMO Z124  
Plastic Plumbing Fixtures

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

CSA B45.11/IAPMO Z401  
Glass Plumbing Fixtures

CSA B125.3  
Plumbing Fittings

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

CSA Z21.10.3  
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CSA Z21.15b  
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CSA Z21.40.1a  
Gas-Fired, Heat Activated Air Conditioning and Heat Pump Appliances (same as CSA 2.91a)

CSA Z21.41  
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CSA Z21.56  
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CSA Z21.69a  
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CSA Z21.80a  
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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

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NSF 3  
Commercial Warewashing Equipment
NSF 4
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NSF 5
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NSF 12
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NSF 14
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Pigtails and Flexible Hose Connectors for LP-Gas

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Test for Surface Burning Characteristics of Building Materials

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Oil-Fired Storage Tank Water Heaters

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UL 778
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UL 834
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ASME B 16.18
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CSA Z21.1b
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CSA Z21.5.1a
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CSA Z21.5.2
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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
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CSA Z21.13
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CSA Z21.24a
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CSA Z21.35a
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CSA Z21.41
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Non-Recirculating Direct Gas-Fired Industrial Air Heaters (same as CSA 3.7)

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

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

CSA Z83.11b
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CSA Z83.18
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CSA Z83.19a
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CSA Z83.20b
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Electrostatic Air Cleaners

UL 896
Oil-Burning Stoves

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Air Filter Units

UL 907
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UL 921
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UL 959
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UL 984
Hermetic Refrigeration Motor-Compressors

UL 1026
Electric Household Cooking and Food Serving Appliances

UL 1046
Grease Filters for Exhaust Ducts

UL 1206
Electric Commercial Clothes-Washing Equipment

UL 1240
Electric Commercial Clothes-Drying Equipment

UL 1453
Electric Booster and Commercial Storage Tank Water Heaters

UL 1479
Fire Tests of Through-Penetration Firestops

UL 1482
Solid-Fuel Type Room Heaters

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UL 1815
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UL 1963
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UL 1978
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UL 1995
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UL 2021
Fixed and Location-Dedicated Electric Room Heaters

UL 2157
Electric Clothes Washing Machines and Extractors

UL 2158
Electric Clothes Dryers

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

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

- **ETL Listed US**: Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.

- **ETL Sanitation Listed**: Indicates that the product was tested and has met the certification requirements for food service and pool/spa products.

- **ETL Field Evaluated**: Indicates that the product was tested and has met the certification and regional installation requirements for products.

- **COMPLIES TO UPC**: Indicates that the product was tested and has met the certification requirements for the Uniform Plumbing Code.

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

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

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

Mechanical Expiration: August 1, 2020
Plumbing Expiration: August 1, 2020

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

Mechanical Standards:

CSA Z21.1b Gas-Fired Low Pressure Steam and Hot Water Boilers
CSA Z21.13 Gas-Fired Low Pressure Steam and Hot Water Boilers (Same as CSA 4.9)
CSA Z21.50 Vented Gas Fireplaces (Same as CSA 2.22)
CSA Z21.88 Vented Gas Fireplace Heater (Same as CSA 2.33a)
CSA Z83.11b Gas Food Service Equipment (Same as CSA 1.8b)
UL 197 Commercial Electric Cooking Equipment

Plumbing Standards:

ASME A112.3.4 / CSA B45.9 Plumbing Fixtures with Pumped Waste and Macerating Toilet Systems
ASME A112.18.1 / CSA B125.1 Plumbing Supply Fittings
ASME A112.18.2 / CSA B125.2 Plumbing Waste Fittings
ASME A112.18.6 / CSA B125.6 Flexible Water Connectors
ASME A112.19.1 / CSA B45.2 Enamelled Cast Iron and Enamelled Steel Plumbing Fixtures
ASME A112.19.2 / CSA B45.1 Ceramic Plumbing Fixtures
ASME A112.19.3 / CSA B 45.4 Stainless Steel Plumbing Fixtures
ASME 112.19.5 / CSA B45.15 Flush valves and Spuds for Water Closet, Urinals, and Tanks
ASME A112.19.7 / CSA B 45.10 Hydromassage Bathtub System
ASME A112.1016/CSA B125.16 Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations
CSA B45.5 Plastic Plumbing Fixtures
UL 499 Electric Heating Appliances
UL 1261 Electric Water Heaters for Pools and Tubs
UL 1795 Hydromassage Bathtubs
Certification Mark:

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

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

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

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

Expiration: February 1, 2020

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

This agency 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

ASSE 1061
Push-Fit Fittings

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 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 D2654
Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems

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

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

ASTM D2737
Polyethylene (PE) Plastic Tubing

ASTM 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
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ASTM F439
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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 (SDR-PR)
Based on Outside Diameter

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 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

Plumbing Standards:

ASME A112.1.2
Air Gaps in Plumbing Systems

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

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

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

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

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

ASME A112.6.3
Floor and Trench Drains

ASME A112.14.1
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ASME A112.14.3
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ASME A112.14.4
Grease Removal Devices

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

ASME A112.18.2/CSA B125.2
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ASME A112.18.3
Performance Requirements for Backflow 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
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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 A112.21.3
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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

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 B45.0
General Requirements for plumbing fixtures

CSA B45.5
Plastic Plumbing Fixtures

CSA B64
Backflow Preventers and Vacuum Breakers

CSA B79
Commercial and Residential Drains and Cleanouts

CSA B125.3
Plumbing Fittings

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

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

CSA B356
Water Pressure Reducing Valves for Domestic Water Supply Systems

CSA B481
Grease Interceptors

IAPMO IGC 157
Ball Valves

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

NSF 2
Food Equipment

NSF 3
Commercial Warewashing Equipment

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

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

NSF 12
Automatic Ice Making Equipment

NSF 14
Plastic Piping System Components and Related Materials

NSF 18
Manual Food and Beverage Dispensing Equipment

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

NSF 40
Residential Wastewater Treatment Systems

NSF 41
Non-Liquid Saturated Treatment Systems

NSF 42
Drinking Water Treatment Units – Aesthetic Effects

NSF 44
Residential Cation Exchange Water Softeners

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

NSF 53
Drinking Water Treatment Units - Health Effects

NSF 55
Ultraviolet Microbiological Water Treatments Systems
NSF 58
Reverse Osmosis Drinking Water Treatment Systems

NSF 61
Drinking Water System Components – Health Effects

NSF 62
Drinking Water Distillation Systems

NSF 169
Special Purpose Food Equipment and Devices

NSF 350
Onsite Residential and Commercial Water Reuse Treatment Systems

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

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

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

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

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

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

Expiration: September 1, 2020

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- **UL 127**
  Factory-Built Fireplaces

- **UL 197**
  Commercial Electric Cooking Appliances

- **UL 378**
  Draft Equipment

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

- **UL 441**
  Gas Vents

- **UL 641**
  Type L Low-Temperature Venting Systems

- **UL 726**
  Oil-Fired Boiler Assemblies

- **UL 727**
  Oil-Fired Central Furnaces

- **UL 731**
  Oil-Fired Unit Heaters

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

- **UL 737**
  Fireplace Stoves

- **UL 858**
  Household Electric Ranges

- **UL 896**
  Oil-Burning Stoves

- **UL 907**
  Fireplace Accessories

- **UL 1026**
  Electric Household Cooking and Food Serving Appliances

- **UL 1482**
  Solid-Fuel Type Room Heaters

- **UL 1777**
  Chimney Liners

- **UL 1995**
  Heating and Cooling Equipment

- **UL 2021**
  Fixed and Location-Dedicated Electric Room Heaters
Certification Mark:

This mark indicates that the product is listed to the applicable standard specified.
9. PFS Corporation

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

Expiration: May 1, 2020

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

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

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

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

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

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

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

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

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

UL 127
Factory-Built Fireplaces

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

UL 737
Fireplace Stoves

UL 907
Fireplace Accessories

UL 1482
Solid-Fuel Type Room Heaters

Certification Marks:

- This marking indicates that the product has been evaluated to meet Canadian and U.S. standards, and is listed to the applicable standard specified.

- This marking indicates that the product has been evaluated to meet U.S. standards, and is listed to the applicable standard specified.

- This marking indicates that the product has been evaluated and is listed to the applicable standard specified.
10. QAI Laboratories, Inc.

(Main Lab)
3980 North Fraser Way
Burnaby, BC, Canada V5J 5K5
Phone: (877) 461-8378

(Branch Lab)
1325 N. 108th E Ave.
Tulsa, OK 74116
Phone: (604) 527-8378

Expiration: July 1, 2019

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

ASME A112.1.2
Air Gaps in Plumbing Systems

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

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

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

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

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

ASME A112.6.3
Floor and Trench Drains

ASME A112.6.4
Roof, Deck, and Balcony Drains

ASME A112.6.7
Sanitary Floor Sinks

ASME A112.14.1
Backwater Valves

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

ASME A112.19.1 / CSA B45.2
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
Flush Valves and Spuds for Water Closets, Urinals, and Tanks

ASME A112.19.10
Dual Flush Devices for Water Closets

ASME A112.19.14
Six Liter Water Closets Equipped With Dual Flush Device

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

ASME A112.19.19
Vitreous China Nonwater Urinals

ASSE 1001
Atmospheric Type Vacuum Breakers

ASSE 1002
Anti-Siphon Fill Valves for Water Closet Tanks

ASSE 1003
Water Pressure Reducing Valves for Domestic Water Distribution Systems

ASSE 1010
Water Hammer Arresters

ASSE 1011
Hose Connection Vacuum Breakers

ASSE 1012
Backflow Preventers with Intermediate Atmospheric Vent

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

ASSE 1014
Backflow Prevention Devices for Hand-Held Shower

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

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

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves - Potable Water Supplied

ASSE 1019
Wall Hydrant with Backflow Protection and Freeze Resistance

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1023
Hot Water Dispensers Household Storage Type - Electrical
ASSE 1024
Dual Check Backflow Preventers

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

ASSE 1035
Laboratory Faucet Backflow Preventers

ASSE 1037
Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures

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

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052
Hose Connection Backflow Preventers

ASSE 1055
Chemical Dispensing Systems

ASSE 1056
Spill Resistant Vacuum Breaker Assemblies

ASSE 1057
Freeze Resistant Sanitary Yard Hydrants with Backflow Protection

ASSE 1061
Push-Fit Fittings

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

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

ASSE 1070
Water Temperature Limiting Devices

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

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

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

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

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

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

ASTM D2737
Polyethylene (PE) Plastic Tubing

ASTM E84
Surface Burning Characteristics of Building Materials

ASTM F409
Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings

ASTM F446
Grab Bars and Accessories Installed in the Bathing Area

ASTM F1412
Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

CSA B45.5 / ANSI Z124
Plastic Plumbing Fixtures

CSA B45.11 / IAPMO Z401
Glass Plumbing Fixtures

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

EPA Watersense - 2007
High-Efficiency Lavatory Faucet Specification

EPA Watersense - 2009
Specification for Flushing Urinals

EPA Watersense - 2011
Specification for Tank-Type Toilets

IAPMO IGC 157
Ball Valves

IAPMO PS 34
Encasement Sleeve for Potable Water Pipe and Tubing

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

IAPMO PS 54
Metallic and Plastic Utility Boxes

IAPMO PS 59
Wastewater Diverter Valves and Diversion Systems

IAPMO PS 65
Airgap Units for Water Conditioning Equipment Installation
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 79
Multiport Electronic Trap Primer

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

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 98
Prefabricated Fiberglass Church Baptisteries

MSS SP-67
Butterfly Valves

NSF / ANSI 61
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 product submitted for evaluation. Note C and US optional.

QAI Verified Mark: This mark is used on products that have been evaluated against a published criterial, this typically is a client’s own requirements, and QAI maintains an ongoing inspection program at the manufacturer’s location to validate that current products are representative of the product submitted for evaluation. Note C and US optional.
11. Solar Rating & Certification Corporation

3060 Saturn Street, Suite 100
Brea, CA 92821
Phone: (888) 422-7233, ext. 7735

Expiration: June 1, 2020

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

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

IAPMO PS 92
Heat Exchangers and Indirect Water Heaters

IAPMO PS 96
Passive Direct Solar Water Heaters

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

SRCC 100
Solar Thermal Collectors

SRCC 300
Solar Water Heating Systems
Certification Mark:

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.
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

ASSE 1001
Atmospheric Type Vacuum Breakers

ASSE 1002
Anti-Siphon Fill Valves for Water Closet Tanks

ASSE 1003
Water Pressure Reducing Valves for Domestic Water Distribution Systems

ASSE 1004
Backflow Prevention Requirements for Commercial Dishwashing Machines

ASSE 1008
Plumbing Aspects of Residential Food Waste Disposer Units

ASSE 1010
Water Hammer Arresters

ASSE 1011
Hose Connection Vacuum Breakers

ASSE 1012
Backflow Preventer with Intermediate Atmospheric Vent

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

ASSE 1014
Backflow Prevention Devices for Hand-Held Showers

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

ASSE 1016 / ASME A112.1016 / CSA B124.16
Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves-Potable Water Supplied

ASSE 1019
Wall Hydrant with Backflow Protection and Freeze Resistance

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1022
Backflow Preventer for Beverage Dispensing Equipment

ASSE 1023
Hot Water Dispensers Household Storage Type – Electrical

ASSE 1024
Dual Check Valve Backflow Preventers
ASSE 1032
Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers-Post Mix Type

ASSE 1035
Laboratory Faucet Backflow Preventers

ASSE 1037
Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures

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

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052
Hose Connection Backflow Preventers

ASSE 1055
Chemical Dispensing Systems

ASSE 1056
Spill Resistant Vacuum Breaker Assemblies

ASSE 1057
Freeze Resistant Sanitary Yard Hydrants with Backflow Protection

ASSE 1060
Outdoor Enclosures for Fluid Conveying Components

ASSE 1061
Push-Fit Fittings

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

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

ASSE 1069
Automatic Temperature Control Mixing Valves

ASSE 1070
Water Temperature Limiting Devices

ASSE 1071
Temperature Actuated Mixing Valves for Plumbed Emergency Equipment

ASSE 1079
Dielectric Pipe Unions

CSA B45.5 / IAPMO Z124
Plastic Plumbing Fixtures

CSA B64
Backflow Preventers and Vacuum Breakers

CSA B125.3
Plumbing Fittings

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

EPA Watersense – 2007
High-Efficiency Lavatory Faucet Specification

EPA Watersense – 2009
Specification for Flushing Urinals

EPA Watersense – 2011
Specification for Tank-Type Toilets

NSF 42
Drinking Water Treatment Units-Aesthetic Effects

NSF 53
Drinking Water Treatment Unit-Health Effects

NSF 61
Drinking Water System Components - Health Effects

Certification Mark:

This marking indicates that the product has been evaluated and is listed to the applicable standard specified.
13. UL LLC

(Main Lab) 333 Pfingsten Road
Northbrook, IL 60062
Phone: (847) 272-8800

(Branch Lab) 1285 Walt Whitman Road
Melville, NY 11747
Phone: (516) 271-6200

(Branch Lab) 12 Laboratory Drive
Research Triangle Park, NC 27709
Phone: (919) 549-1400

(Branch Lab) 2600 N.W. Lake Road
Camas, WA 98607-9526
Phone: (360) 817-5500

(Branch Lab) 47173 Benicia St.
Fremont, CA 94583
Phone: (510) 771-1000

(Branch Lab) 2929 East Imperial Hwy, Ste. 100
Brea, CA 92821-66729
Phone: (714) 223-3600

Expiration: November 1, 2019

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

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

Mechanical Standards:

AHRI 1200
Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets

AHRI 1230
Performance Rating of Variable Refrigerant Flow (VRF) Multi-Split Air-Conditioning and Heat Pump Equipment

AMCA 500 D
Laboratory Methods of Testing Damper Flanges for Rating

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 127
Method of Testing for Rating Computer and Data Processing Room Unitary Air Conditioners

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

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

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

ASME B16.5
Pipe Flanges and Flanged Fittings: NPS ½ through 24 Metric/Inch

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

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

ASME B31.5
Refrigeration Piping and Heat Transfer Components

ASME BPVC Section I
Rules for Construction of Power Boilers

ASME BPVC Section IV
Rules for Construction of Heating Boilers

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

ASME CSD-1
Controls and Safety Devices for Automatically Fired Boilers

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

ASSE 1061
Push-Fit Fittings

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

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

ASTM B280
General Requirements for Wrought Seamless Copper and Copper-Alloy Tube

ASTM C411
Hot-Surface Performance of High-Temperature Thermal Insulation
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Fire Tests of Through-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.
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, 2020

This agency is approved for testing of plumbing products to the following standards:

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

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

- **ASME A112.19.5**
  Flush valves and Spuds for Water Closets, Urinals, and Tanks

- **ASME A112.19.7**
  Hydromassage Bathtub Systems

- **ASSE 1001**
  Atmospheric Type Vacuum Breakers

- **ASSE 1002**
  Anti-Siphon Fill Valves for Water Closet Tanks

- **ASSE 1014**
  Backflow Prevention Devices for Hand-Held Showers

- **ASSE 1016**
  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**
  Pressurized Flushing Devices (Flushometers) for 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

- **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

- **IAPMO Z124**
  Plastic Plumbing Fixtures
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, 2017 Edition:

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UL 1995
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