LIST OF APPROVED LISTING AND TESTING AGENCIES

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. ALS Group USA, Corp.

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

Expiration: March 1, 2024

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, 2023 Edition:

- ASME A112.18.1/CSA B125.1
  Plumbing Supply Fittings
- ASME A112.18.2/CSA B125.2
  Plumbing Waste Fittings
- ASME A112.18.3
  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
  Enameled Cast Iron and Enamel 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
  Retrofit 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 B16.23
  Cast Copper Alloy Solder Joint Drainage Fittings: DWV
- ASME B16.24
  Cast Copper Alloy Pipe Flanges and Flanged Fittings, and Valves: Classes 150, 300, 600, 900, 1500 and 2500
- ASSE 1001
  Atmospheric Type Vacuum Breakers
- ASSE 1002/ASME A112.1002/CSA B125.12
  Anti-Siphon Fill Valves for Water Closet Tanks
- ASSE 1003
  Water Pressure Reducing Valves for Domestic Water Distribution Systems
- ASSE 1004
  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/ASME A112.1037/CSA B125.37
Pressurized Flushing Devices for Plumbing Fixtures

ASSE 1044
Trap Seal Primer- 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 with Integrated Backflow Protection

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 Supply Fittings

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

ASSE 1069
Automatic Temperature Control Mixing Valves

ASSE 1070/ASME A117.1070/CSA B125.70
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 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 – 2014
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.
2. ASSE International

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

Expiration: April 1, 2024

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, 2023 Edition:

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

**ASME A112.1.2**
Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)

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

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

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

**ASME A112.14.1**
Backwater Valves

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

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

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

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

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

**ASME A112.19.3/CSA B45.15**
Stainless Steel Plumbing Fixtures

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

**ASME A112.19.10**
Dual Flush Devices for Water Closets

**ASME A112.21.3M**
Hydrants for Utility and Maintenance Use

**ASME A112.36.2M**
Cleanouts

**ASME A112.19.4/CSA B45.12**
Anti-Siphon Fill Valves for Water Closet Tanks

**ASSE 1001**
Atmospheric-Type Vacuum Breakers

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

**ASSE 1003**
Water Pressure Reducing Valves for Domestic Water Distribution Systems

**ASSE 1004**
Backflow Prevention Requirements for Commercial Dishwashing Machines

**ASSE 1008**
Plumbing Aspects of Residential Food Waste Disposer Units

**ASSE 1010**
Water Hammer Arrestors

**ASSE 1011**
Hose Connection Vacuum Breakers

**ASSE 1012**
Backflow Preventers with an Intermediate Atmospheric Vent

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

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

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

**ASSE 1016/ASME A112.1016/CSA B125.16**
Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations
ASSE 1017  
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018  
Trap Seal Primer Valves - Potable Water Supplied

ASSE 1019  
Wall Hydrant with Backflow Protection and Freeze Resistance

ASSE 1020  
Pressure Vacuum Breaker Assembly

ASSE 1022  
Backflow Preventer for Beverage Dispensing Equipment

ASSE 1023  
Hot Water Dispensers Household Storage Type – Electrical

ASSE 1024  
Dual Check Backflow Preventers

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

ASSE 1035  
Laboratory Faucet Backflow Preventers

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

ASSE 1044  
Trap Seal Primer- Drainage Types and Electric Design Types

ASSE 1047  
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048  
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052  
Hose Connection Backflow Preventers

ASSE 1053  
Dual Check Backflow Preventer Wall Hydrants - Freeze Resistant Type

ASSE 1055  
Chemical Dispensing Systems

ASSE 1056  
Spill Resistant Vacuum Breakers

ASSE 1057  
Freeze Resistant Sanitary Yard Hydrant with Backflow Protection

ASSE 1060  
Outdoor Enclosures for Fluid Conveying Components

ASSE 1061  
Push-Fit Fittings

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

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

ASSE 1069  
Automatic Temperature Control Mixing Valves

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

ASSE 1071  
Temperature Activated Mixing Valves for Plumbed Emergency Equipment

ASSE 1079  
Dielectric Pipe Unions

AWWA C510  
Double Check Valve Backflow Prevention Assembly

AWWA C511  
Reduced-Pressure Principle Backflow Prevention Assembly

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

IAPMO PS 72  
Valves with Atmospheric Vacuum Breakers

IAPMO PS 76  
Trap Primers for Fill Valves and Flushometer Valves

IAPMO PS 79  
Multiport Electronic Trap Primer

IAPMO PS 113  
Hydraulically Powered Household Food Waste Disposer

NSF 3  
Commercial Warewashing Equipment

NSF 61  
Drinking Water System Components-Health Effects
Certification Mark:

This marking indicates that the product has been evaluated and is listed to the applicable ASSE standard specified.
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 Z21.1**  
Household Cooking Gas Appliances

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

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

**CSA Z21.11.2**  
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 Z21.19**  
Refrigerators Using Gas Fuel (same as CSA 1.4)

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

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

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

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

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

**CSA Z21.61**  
Gas-Fired Toilets

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

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

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

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

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

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

**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 378
Draft Equipment

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

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

ASSE 1003
Water Pressure Reducing Valves for Domestic Water Distribution Systems

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

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves - Potable Water Supplied
ASSE 1019
Wall Hydrant with Backflow Protection and Freeze Resistance

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1024
Dual Check Backflow Preventers

ASSE 1035
Laboratory Faucet Backflow Preventers

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

ASME B125.37

ASSE 1044
Trap Seal Primer - Drainage Types and Electric Design Types

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052
Hose Connection Backflow Preventers

ASSE 1056
Spill Resistant Vacuum Breaker Assemblies

ASSE 1061
Push-Fit Fittings

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

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

ASSE 1069
Automatic Temperature Control Mixing Valves

ASSE 1070/ ASME A112.1070/ CSA B125.70
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 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
Couplings for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications

CSA B45.5
Plastic 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 Fixtures

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

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

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

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

CSA Z21.40.1a
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 Z83.11
Gas Food Service Equipment (same as CSA 1.8)

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

IAPMO Z124.5
Plastic Toilet Seats

NSF 41
Non-Liquid Saturated 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>
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<tr>
<th>CSA Mark</th>
<th>Type of Mark/Label</th>
<th>CSA Mark/Label Definition</th>
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</thead>
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<tr>
<td><img src="image1" 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>
<tr>
<td><img src="image2" alt="US" /></td>
<td>Certification mark</td>
<td>Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.</td>
</tr>
<tr>
<td><img src="image3" alt="Design Certified" /></td>
<td>Certification mark</td>
<td>Indicates that the product was tested and has met the certification requirements for gas-fired products.</td>
</tr>
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<td><img src="image4" alt="LLC" /></td>
<td>Certification mark</td>
<td>Indicates the product was tested and has met low lead content requirements.</td>
</tr>
<tr>
<td><img src="image5" alt="Low Lead Content" /></td>
<td>Certification mark</td>
<td>Indicates the product was tested and has met low lead content requirements.</td>
</tr>
<tr>
<td><img src="image6" alt="Drinking Water" /></td>
<td>Certification mark</td>
<td>Indicates that the product was tested and has met the Drinking Water requirements. Applicable NSF/ANSI and/or CSA Group standard is listed under DRINKING WATER.</td>
</tr>
<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>
<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>
<td></td>
</tr>
<tr>
<td>Field certification label</td>
<td>Indicates that the gas-fired product was tested and met the certification and regional installation requirements for products.</td>
<td></td>
</tr>
<tr>
<td>Field evaluation label</td>
<td>Indicates that the product was tested and has met the all requirements, including the National Fire Protection Association and the National Electric Code for installation and use.</td>
<td></td>
</tr>
</tbody>
</table>
4. FM Approvals LLC

(Main Lab)  
1151 Boston-Providence Turnpike  
Norwood, MA 02062  
Phone: (781) 762-4300

(Branch Lab)  
743 Reynolds Road  
West Glocester, RI 02814  
Phone: (401) 567-0590

Expiration: October 1, 2024

This agency is approved for listing of fire protection equipment to meet applicable ANSI or UL Standards as long as the listed products and their installations are not in violations of the Los Angeles Plumbing Code, 2023 Edition.

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

Certification Marks:

| ![FM Approved Mark](image) | **FM Approved Mark**  
This marking indicates that the product has been evaluated and is listed to the applicable standard specified. |
| ![FM Approved Mark with “C” and “US”](image) | **FM Approved Mark with “C” and “US”**  
This marking indicates that the product has been evaluated to meet Canadian and U.S. standards, and is listed to the applicable standard specified. |
| ![FM Approved Cast-On Marks](image) | **FM Approved Cast-On Marks**  
Where reproduction of the FM Approved mark described above is impossible because of production restrictions, use of these modified versions of the FM Approved mark is allowed. |
5. Home Innovation Research Labs

400 Prince George’s Boulevard
Upper Marlboro, MD 20774
(301) 430-6246

Expiration: September 1, 2023

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

ASME A112.9.7/ CSA B45.10
Hydromassage Bathtub Systems

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

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 Marks:

This marking indicates that the product has been evaluated and is to be in compliance with the applicable standard specified.
6. 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, 2023

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, 2020 Edition:

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

Plumbing:

**AHAM FWD-1**
Food waste disposers

**APSP 1**
Public Swimming Pools

**ASCE 25**
Earthquake-Actuated Automatic Gas Shutoff Devices

**ASME A112.1.2**
Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)

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

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

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

**ASME A112.4.1**
Water Heater Relief Valve Drain Tubes

**ASME A112.4.2 / CSA B45.16**
Personal Hygiene Devices for Water Closets

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

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

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

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

**ASME A112.6.3**
Floor and Trench Drains

**ASME A112.6.4**
Roof, Deck, and Balcony Drains

**ASME A112.6.7**
Sanitary Floor Sinks

**ASME A112.6.9**
Siphonic Roof Drains

**ASME A112.14.1**
Backwater Valves

**ASME A112.14.3**
Grease Interceptors

**ASME A112.14.4**
Grease Removal Devices

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

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

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

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

**ASME A112.18.6**
Flexible Water Connectors

**ASME A112.18.9**
Protectors/Insulators for Exposed Waste and Supplies on Accessible Fixtures

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

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

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

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

**ASME A112.19.7 / CSA B45.10**
Hydromassage Bathtub Appliances
ASSE 1015
Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies

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

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves- Potable Water Supplied

ASSE 1019
Wall Hydrant with Backflow Protection and Freeze Resistance

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1022
Backflow Preventer for Beverage Dispensing Equipment

ASSE 1023
Hot Water Dispensers Household Storage Type-Electrical

ASSE 1024
Dual Check Backflow Preventers

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

ASSE 1035
Laboratory Faucet Backflow Preventer

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

ASSE 1044
Trap Seal Primer- Drainage Types and Electric Design Types

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052
Hose Connection Backflow Preventer

ASSE 1055
Chemical Dispensing Systems

ASSE 1056
Spill Resistant Vacuum Breakers Assemblies

ASSE 1057
Freeze Resistant Sanitary Yard Hydrant with Backflow Protection

ASSE 1060
Outdoor Enclosures for Fluid Conveying Components

ASSE 1061
Push-Fit Fittings

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

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

ASSE 1069
Automatic Temperature Control Mixing Valves

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

ASSE 1071
Temperature Actuated Mixing Valves for Plumbed Emergency Equipment

ASSE 1079
Dielectric Pipe Unions

ASSE Series 5000
Cross-Connection Control Professional Qualifications Standard

ASSE Series 6000
Professional Qualifications Standard for Medical Gas Systems Personnel

ASTM A48
Gray Iron Casting

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

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 A254/A254M
Copper-Brazed Steel Tubing

ASTM A269/A269M
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 A536
Ductile Iron Castings

ASTM A733
Welded and Seamless Carbon Steel and Austenitic Stainless Steel 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 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
Standard Specification for 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 B613
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 D2235
Solvent Cement for Acrylonitrile-Butadiene- Styrene (ABS) Plastic Pipe and Fittings

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

ASTM D2321
Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications

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

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

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

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

ASTM D2517
Reinforced Epoxy Resin Gas Pressure Pipe and Fittings

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

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

ASTM D2657
Heat Fusion Joining of Polyolefin Pipe and 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 D2672
Joints for IPS PVC Pipe Using Solvent Cement

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

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

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

ASTM D2737
Polyethylene (PE) Plastic Tubing

ASTM D2774
Underground Installation of Thermoplastic Pressure Piping

ASTM D2855
Two-Step (Primer and Solvent Cement) Method of Joining Poly (Vinyl Chloride) (PVC) of Chlorinated Poly (Vinyl Chloride) (CPVC) Pipe and Piping Components with Tapered Sockets

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

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

ASTM D3122
Solvent Cements for Styrene-Rubber (SR) Plastic Pipe and Fittings

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

ASTM D3139
Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

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

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

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

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

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

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

ASTM F409
Thermoplastic Accessible and Replaceable Plastic Tubular Fittings

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

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

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

ASTM F446
Grab Bars and Accessories Installed in the Bathing Area

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

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

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

ASTM F656
Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings
ASTM F667
3 through 24in. Corrugated Polyethylene Tubing and Fittings

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

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

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

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

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

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

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

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

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

ASTM F1412
Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

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

ASTM F1488
Coextruded Composite Pipe

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

ASTM F1673
Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems

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

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

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

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

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

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

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

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

ASTM F2165
Flexible Pre-Insulated Piping

ASTM F2206
Fabricated Fittings of Butt-Fused Polyethylene (PE)

ASTM F2306/F2306M
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
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 Pipe

AWWA C210
Liquid-Epoxy Coatings and Lining Systems for Steel Water Pipe and Fittings

AWWA C213
Fusion-Bonded Epoxy Coatings and Linings for Steel Water Pipe and Fittings

AWWA C215
Extruded Polyolefin Coatings for Steel Water Pipe
AWWA C500  
Metal Seated Service Gate Valves for Water Supply Service

AWWA C504  
Rubber Seated Butterfly Valves

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 Service

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

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

CISPI 301  
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 B64.1.1  
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 (HCDVB)

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

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

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

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

CSA B64.7  
Laboratory Faucet Vacuum Breakers (LFVB)

CSA B79  
Commercial and Residential Drains and Cleanouts

CSA B125.3  
Plumbing Fittings

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

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

CSA B242  
Grooved-and Shouldered-Type Mechanical Pipe Couplings

CSA B356  
Water Pressure Reducing Valves for Domestic Water Supply Systems

CSA B481  
Grease Interceptors

CSA G401  
Corrugated Steel Pipe Products

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

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

CSA Z21.24  
Connectors for Gas Appliances (same as CSA 6.10)
CSA Z21.41
Quick-Disconnected Devices for Use with Gas Fuel Appliances (same as CSA 6.9)

CSA Z21.54
Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances (same as CSA 6.9)

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

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

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

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

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

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

Energy Star – 2007
Program Requirement for Commercial Dishwashers

EPA Watersense – 2007
High-Efficiency Lavatory Faucet Specification

EPA Watersense – 2009
Specification for Flushing Urinals

EPA Watersense – 2014
Specification for Tank-Type Toilets

IAPMO IGC 154
Shower and Tub/Shower Enclosures, Bathtubs with Glass Pressure-Sealed Doors, and Shower/Steam Panels

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 and Flexible 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 Liquid-Ring 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 98
Prefabricated Fiberglass Church Baptisteries

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

IAPMO PS 101
Suction Relief Valves

IAPMO PS 104
Pressure Relief Connection for Dispensing Equipment

IAPMO PS 105
Polyethylene Distribution Boxes

IAPMO PS 106
Tileable Shower Receptors and Shower Kits

IAPMO PS 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
Standard 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
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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 the 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.
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, 2023 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.

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Certification Marks:

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.

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.

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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).

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.

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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).
8. Intertek Testing Services NA, Inc.

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

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

Expiration: June 1, 2024

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, 2023 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.

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<td>Commercial Wood-Fired Baking Ovens-Refractory Type</td>
</tr>
<tr>
<td>UL 2200</td>
<td>Stationary Engine Generator Assemblies</td>
</tr>
<tr>
<td>UL 2221</td>
<td>Tests of Fire Resistive Grease Duct Enclosure Assemblies</td>
</tr>
</tbody>
</table>
Certification Mark:

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

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

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

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

- **C US Intertek** and **Intertek**: Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.
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, 2023 Edition:

### Mechanical Standards:

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

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

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

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

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

- **UL 197**
  - Commercial Electric Cooking Equipment

### Plumbing Standards:

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

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

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

- **ASME A112.19.3 / CSA 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

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

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

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

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

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

Field Evaluated in: ______________________

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

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

Expiration: February 1, 2024

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, 2023 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

- **ASME 1013**
  Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers

- **ASME 1017**
  Temperature Actuated Mixing Valves for Hot Water Distribution Systems

- **ASME 1061**
  Push-Fit Fittings

- **ASTM B88**
  Seamless Copper Water Tube

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ASTM F1960
Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing and Polyethylene of Raised Temperature (PE-RT) 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 Crosslinked Polyethylene (PEX) Pipe and SDR 9 Polyethylene of Raised Temperature (PE-RT) 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, 3/4 in. (13 mm) Through 3 in. (76 mm), for Water Service

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

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

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

CSA C448.1
Design and Installation of Ground Source Heat Pump Systems for Commercial and Institutional Buildings

CSA C448.2
Design and Installation of Ground Source Heat Pump Systems for Residential and Other Small Buildings

IAPMO PS 117
Press and Nail Connections

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

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

Plumbing Standards:

ASME A112.1.2
Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)

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

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
Macerating Toilet Systems and Waste-Pumping Systems for Plumbing Fixtures

ASME A112.4.14
Manually Operated Valves for Use in Plumbing Systems

ASME A112.6.2
Framing-Affixed Supports (Carriers) for Off-the-Floor Plumbing Fixtures

ASME A112.6.3
Floor and Trench Drains

ASME A112.6.4
Roof, Deck, and Balcony Drains

ASME A112.6.7
Sanitary Floor Sinks

ASME A112.6.9
Siphonic Roof Drains

ASME A112.14.1
Backwater Valves

ASME A112.14.3
Hydromechanical Grease Interceptors

ASME A112.14.4
Grease Removal Devices

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

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

ASME A112.18.3
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
Enamel Cast Iron and Enamel 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 A112.19.15/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
Retrofit Dual Flush Devices for Water Closets

ASME A112.21.3M
Hydrants for Utility and Maintenance Use

ASME A112.36.2M
Cleanouts

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

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

ASSE 1001
Atmospheric-Type Vacuum Breakers

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

ASSE 1003
Water Pressure Reducing Valves for Domestic Water Distribution Systems

ASSE 1004
Commercial Dishwashing Machines

ASSE 1010
Water Hammer Arresters

ASSE 1011
Hose Connection Vacuum Breakers

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

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

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

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves-Potable Water Supplied

ASSE 1019
Wall Hydrant with Backflow Protection and Freeze Resistance

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1022
Backflow Preventer for Beverage Dispensing Equipment

ASSE 1023
Hot Water Dispensers Household Storage Type-Electrical

ASSE 1024
Dual Check Backflow Preventers

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

ASSE 1035
Laboratory Faucet Backflow Preventers

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

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052
Hose Connection Backflow Preventers

ASSE 1056
Spill Resistant Vacuum Breaker Assemblies

ASSE 1061
Push-Fit Fittings

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

ASSE 1069
Automatic Temperature Control Mixing Valves

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

ASTM A74
Cast Iron Soil Pipe and Fittings

ASTM A536
Ductile Iron Castings

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

ASTM B88
Seamless Copper Water Tube

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

ASTM B306
Copper Drainage Tube (DWV)

ASTM B819
Seamless Copper Tube for Medical Gas Systems

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

ASTM D1784
Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds
ASTM D1785
Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120

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

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

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

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

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

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

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

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

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

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

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

ASTM D2672
Joints for IPS Pipe Using Solvent Cement

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

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

ASTM D2737
Polyethylene (PE) Plastic Tubing

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

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

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

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

ASTM D3139
Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

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

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

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

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

ASTM E84
Surface Burning Characteristics of Building Materials

ASTM F409
Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ASTM F1282
Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe
ASTM F1336
Poly (Vinyl Chloride) (PVC) Gasketed Sewer Fittings

ASTM F1412
Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

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

ASTM F1488
Coextruded Composite Pipe

ASTM F1673
Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems

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

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

ASTM F1960
Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) 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 Crosslinked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

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

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

ASTM F2389
Pressure-Rated Polypropylene (PP) Piping Systems

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

ASMT F2618
Chlorinated Poly (Vinyl Chloride) CPVC Pipe and Fittings for Chemical Waste Drainage Systems

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

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

AWWA C510
Double-Check Valve Backflow Prevention Assembly

AWWA C511
Reduced-Pressure Principle Backflow Prevention Assembly

AWWA C606
Grooved and Shouldered Joints

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

AWWA C901
Polyethylene (PE) Pressure Pipe and Tubing, 3/4 in. (13 mm) Through 3 in. (76 mm), for Water Service

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

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

CSA B45.5/IAPMO Z124
Plastic Plumbing Fixtures

CSA B64.1.1
Atmospheric Vacuum Breakers (AVB)

CSA B79
Commercial and Residential Drains and Cleanouts

CSA B125.3
Plumbing Fittings

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

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

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

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

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

CSA B356
Water Pressure Reducing Valves for Domestic Water Supply Systems

CSA B481
Grease Interceptors

EPA Water Sense- 2007
High Efficiency Lavatory Faucet Specification

IAPMO PS 36
Lead-Free Sealing Compounds for Threaded Joints
IAPMO PS 51
Expansion Joints and Flexible Expansion Joints for DWV Piping Systems

IAPMO PS 65
Airgap Units for Water Conditioning Equipment Installation

IAPMO PS 117
Press and Nail Connections

IAPMO Z1000
Prefabricated Septic Tanks

IAPMO Z1001
Prefabricated Gravity Grease Interceptors

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

IAPMO Z1157
Ball Valves

NSF 2
Food Equipment

NSF 3
Commercial Warewashing Equipment

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

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

NSF 12
Automatic Ice Making Equipment

NSF 14
Plastic Piping System Components and Related Materials

NSF 18
Manual Food and Beverage Dispensing Equipment

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

NSF 40
Residential Wastewater Treatment Systems

NSF 41
Non-Liquid Saturated Treatment Systems

NSF 42
Drinking Water Treatment Units – Aesthetic Effects

NSF 44
Residential Cation Exchange Water Softeners

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

NSF 53
Drinking Water Treatment Units - Health Effects

NSF 55
Ultraviolet Microbiological Water Treatment Systems

NSF 58
Reverse Osmosis Drinking Water Treatment Systems

NSF 61
Drinking Water System Components – Health Effects

NSF 62
Drinking Water Distillation Systems

NSF 169
Special Purpose Food Equipment and Devices

NSF 350
Onsite Residential and Commercial Water Reuse Treatment Systems

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

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

[NSF Certified to] This mark indicates that the product is certified to the standard indicated in the box.

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

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

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

Expiration: September 1, 2023

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, 2020 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 Z21.58
Outdoor Cooking Gas Appliances (Same as CSA 1.6)

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

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

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

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

CSA Z83.11
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 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 Marks:

This mark is a legacy certification mark that indicates that the product is listed to the applicable standard specified.

This mark is used on products listed to national recognized standards that fall within OMNI’s scope of accreditation for US only.

This mark is used on products listed to national recognized standards that fall within OMNI’s scope of accreditation for US and Canada.

This mark is used on products listed to national recognized standards that fall within OMNI’s scope of accreditation for the Canada, US and EPA.
12. PFS Corporation

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

Expiration: May 1, 2023

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

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

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

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

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

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

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

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

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

**UL 127**
Factory-Built Fireplaces

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

**UL 737**
Fireplace Stoves

**UL 907**
Fireplace Accessories

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

**Certification Marks:**

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

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

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

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

Expiration: December 1, 2022

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, 2020 Edition:

- **ASME A112.1.2**
  Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)

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

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

- **ASME A112.3.4/CSDA 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/CSDA B125.1**
  Plumbing Supply Fittings

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

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

- **ASME A112.19.3/CAS 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 an Intermediate Atmospheric Vent

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

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

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

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

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

- **ASSE 1018**
  Trap Seal Primer Valves - Potable Water Supplied

- **ASSE 1019**
  Wall Hydrant with Backflow Protection and Freeze Resistance

- **ASSE 1020**
  Pressure Vacuum Breaker Assembly
ASSE 1023
Hot Water Dispensers Household Storage Type - Electrical

ASSE 1024
Dual Check Backflow Preventers

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

ASSE 1035
Laboratory Faucet Backflow Preventers

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

ASSE 1044
Trap Seal Primer - Drainage Types and Electric Design Types

ASSE 1047
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

ASSE 1048
Double Check Detector Fire Protection Backflow Prevention Assemblies

ASSE 1052
Hose Connection Backflow Preventers

ASSE 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 Supply Fittings

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

ASSE 1070/ASME A112.70/CSA B125.70
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 (SDR-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/IAPMO 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 B64.2.1.1
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

IAPMO PS 34
Encasement Sleeve for Potable Water Pipe and Tubing

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

IAPMO PS 54
Metallic and Plastic Utility Boxes

IAPMO PS 59
Wastewater Diverter Valves and Diversion Systems

IAPMO PS 65
Airgap Units for Water Conditioning Equipment Installation
<table>
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<tr>
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<th>Description</th>
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<td>Early-Closure Replacement Flappers or Early-Closure Replacement Flapper with Mechanical Assemblies</td>
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<td>Butterfly Valves</td>
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<tr>
<td>NSF 61</td>
<td>Drinking Water System Components - Health Effects</td>
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</tbody>
</table>

**Certification Mark:**

**QAI Certification Mark:** This mark is used on products that have been evaluated to nationally recognized standards that fall within QAI’s scope of accreditation for the noted country, US and or Canada. QAI maintains an ongoing inspection program at the manufacturer’s location to validate that current product are representative of the product submitted for evaluation. The NRTL Logo is only used for products that fall within the Scope of QAI’s NRTL program.

**QAI Recognized Mark:** This mark is used on products that been evaluated to national recognized standards that fall within QAI’s scope of accreditation for the noted country, US and or Canada. The specific product is considered a component and further evaluation will be required when it is incorporated in a finished product.

**QAI Classified Mark:** This mark is used on products that have been evaluated against a portion of a published criterial, this could be a code or standard, and obtained a specific rating or performance value. QAI maintains an ongoing inspection program at the manufacturer’s location to validate that current product are representative of the product submitted for evaluation. Note C and US optional.

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

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

Expiration: June 1, 2024

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, 2023 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

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

ICC 900/ SRCC 300
Solar Thermal System Standard

ICC 901/ SRCC 100
Solar Thermal Collector Standard
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.
15. 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  
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  
Phone: (714) 223-3600

Expiration: November 1, 2023

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, 2023 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  
Specifications for Refrigerants

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

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

AMCA 500-D  
Laboratory Methods of Testing Dampers for Rating

AMCA 540  
Louvers Impacted by Wind Borne Debris

AMCA 550  
Test Method for High Velocity Wind Driven Rain Resistance Louvers

ASCE 25  
Earthquake-Actuated Automatic Gas Shutoff Devices

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

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

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

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

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

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

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

ASME B31.5  
Refrigeration Piping and Heat Transfer Components

ASME BPVC Section I  
Rules for Construction of Power Boilers

ASME BPVC Section IV  
Rules for Construction of Heating Boilers

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

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

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

ASSE 1061  
Push-Fit Fittings

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

ASTM A733  
Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples
ASTM B280
General Requirements for Wrought Seamless Copper and Copper-Alloy Tube

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

ASTM C518

ASTM E84
Surface Burning Characteristics of Building Materials

ASTM E96 / E96M
Water Vapor Transmission of Materials

ASTM E136
Behavior of Materials in a Vertical Tube Furnace at 750 °C

ASTM E814
Fire Tests of Penetration Firestop Systems

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

ASTM E2336
Fire Resistive Grease Duct Enclosure Systems

AWWA C110
Ductile-Iron and Gray-Iron Fittings

AWWA C151
Ductile-Iron Pipe, Centrifugally Cast

AWWA C153
Ductile-Iron Compact Fittings

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

CSA Z21.1
Household Cooking Gas Appliances

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

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

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

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

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

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

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

CSA Z21.20a
Automatic Gas Ignition Systems and Components

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

CSA 21.41
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 CSA2.3)

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

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

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

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

CSA Z21.61
Gas-Fired Toilets

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

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

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

CSA Z83.4
Non-Recirculating Direct Gas-Fired Heating and Forced Ventilation Appliances for Commercial and Industrial Applications (same as CSA 3.7)

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

CSA Z83.18
Recirculating Direct Gas-Fired Heating and Forced Ventilation Appliances for Commercial and Industrial Applications

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

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

NFPA 82
Incinerators and Waste and Linen Handling Systems and Equipment

NFPA 259
Test Method for Potential Heat of Building Materials

NFPA 259
Test Method for Potential Heat of Building Materials

NFPA 262
Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces
NFPA 274
Test Method to Evaluate Fire Performance Characteristics of Pipe Insulation

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

SMACNA-2012
HVAC Air Duct Leakage Test Manual, 2nd Edition

SMACNA-2015
Phonolic Duct Construction Standards

SMACNA-2017
HVAC Duct Construction Standards Metal and Flexible, 4th Edition

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

UL 21
LP-Gas Hose

UL 33
Heat Responsive Links for Fire-Protection Service

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

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

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

UL 125
Valves for Anhydrous Ammonia and LP-Gas

UL 127
Factory-Built Fireplaces

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

UL 144
LP-Gas Regulators

UL 174
Household Electric Storage Tank Water Heaters

UL 180
Liquid-Level Gauges for Oil Burner Fuels and Other Combustible Liquids

UL 181
Factory-Made Air Ducts and Air Connectors

UL 181A
Closure Systems for Use with Rigid Air Ducts

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

UL 197
Commercial Electric Cooking Appliances

UL 207
Refrigerant-Containing Components and Accessories, Nonelectrical

UL 252
Compressed Gas Regulators

UL 268A
Smoke Detectors for Duct Application

UL 295
Commercial-Industrial Gas Burners

UL 296
Oil Burners

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

UL 343
Pumps for Oil-Burning Appliances

UL 353
Limit Controls

UL 378
Draft Equipment

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

UL 404
Gauges, Indicating Pressure, for Compressed Gas Service

UL 412
Refrigeration Unit Coolers

UL 427
Refrigerating Units

UL 429
Electrically Operated Valves

UL 441
Gas Vents

UL 443
Steel Auxiliary Tanks for Oil-Burner Fuel

UL 467
Grounding and Bonding Equipment

UL 471
Commercial Refrigerators and Freezers

UL 499
Electric Heating Appliances

UL 525
Flame Arresters

UL 555
Fire Dampers

UL 555C
Ceiling Dampers

UL 555S
Smoke Dampers

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

UL 569
Pigtails and Flexible Hose Connectors for LP-Gas

UL 641
Type L Low-Temperature Venting Systems

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

UL 705
Power Ventilators

UL 710
Exhaust Hoods for Commercial Cooking Equipment

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

UL 723  
Test for Surface Burning Characteristics of Building Materials

UL 726  
Oil-Fired Boiler Assemblies

UL 727  
Oil-Fired Central Furnaces

UL 729  
Oil-Fired Floor Furnaces

UL 730  
Oil-Fired Wall Furnaces

UL 731  
Oil-Fired Unit Heaters

UL 732  
Oil-Fired Storage Tank Water Heaters

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

UL 737  
Fireplace Stoves

UL 762  
Power Roof Ventilators for Restaurant Exhaust Appliances

UL 778  
Motor Operated Water Pumps

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 923  
Microwave Cooking Appliances

UL 959  
Medium Heat Appliance Factory-Built Chimneys

UL 984  
Hermetic Refrigerant Motor-Compressors

UL 1046  
Grease Filters for Exhaust Ducts

UL 1240  
Electric Commercial Clothes-Drying Equipment

UL 1453  
Electric Booster and Commercial Storage Tank Water Heaters

UL 1479  
Fire Tests of Penetration Firestops

UL 1482  
Solid-Fuel Type Room Heaters

UL 1746  
External Corrosion Protection Systems for Steel Underground Storage Tanks

UL 1777  
Chimney Liners

UL 1812  
Ducted Heat Recovery Ventilators

UL 1815  
Nonducted Heat Recovery Ventilators

UL 1820  
Fire Test of Pneumatic Tubing for Flame and Smoke Characteristics

UL 1887  
Fire Test of Plastic Sprinkler Pipe for Visible Flame and Smoke Characteristics

UL 1963  
Refrigerant Recovery/Recycling Equipment

UL 1978  
Grease Ducts

UL 1995  
Heating and Cooling Equipment

UL 1996  
Electric Duct Heaters

UL 2021  
Fixed and Location-Dedicated Electric Room Heaters

UL 2043  
Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces

UL 2158  
Electric Clothes Dryers

UL 2158A  
Clothes Dryer Transition Duct

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

UL 2518  
Air Dispersion Systems Materials

UL 2523  
Solid Fuel-Fired Hydronic Heating Appliances, Water Heaters, and Boilers

UL 2790  
Commercial Incinerators

UL 60335-2-40  
Household and Similar Electrical Appliances- Safety- Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers
Plumbing Standards:

AHAM FWD-1
Food Waste Disposers

ASCE 25
Earthquake-Actuated Automatic Gas Shutoff Devices

ASME A112.1.2
Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)

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

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

ASME A112.4.2
Personal Hygiene Devices for Water Closets

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

ASME A112.4.14
Manually Operated Valves for Use in Plumbing Systems

ASME A112.6.3
Floor and Trench Drains

ASME A112.6.7
Sanitary Floor Sinks

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

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

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

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

ASME A112.18.9
Protectors/Insulators for Exposed Waste and Supplies on Accessible Fixtures

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

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

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

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

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

ASME A112.19.10
Retrofit 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 Equipped with a Dual Flushing Device

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

ASME A112.19.19
Vitreous China Nonwater Urinals

ASME A112.21.3M
Hydrants for Utility and Maintenance Use

ASME A112.36.2M
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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
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ASME B16.15
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ASME B16.18
Cast Copper Alloy Solder Joint Pressure Fittings

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

ASME B16.39
Malleable Iron Threaded Pipe Unions: Classes 150, 250 and 300

ASME BPVC Section IV
Rules for Construction of Heating Boilers

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

ASSE 1001
Atmospheric Type Vacuum Breakers

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

ASSE 1004
Commercial Dishwashing Machines

ASSE 1008
Plumbing Aspects of Residential Food Waste Disposer Units

ASSE 1011
Hose Connection Vacuum Breakers

ASSE 1012
Backflow Preventer with an Intermediate Atmospheric Vent

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

ASSE 1014
Backflow Prevention Devices for Hand-Held Shower

ASSE 1015
Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies
CSA Z21.86
Vented Gas-Fired Space Heating Appliances (same as CSA 2.32)

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

Energy Star – 2012
Program Requirements Product Specification for Commercial Dishwashers

Energy Star- 2018
Product Specifications Product Specifications for Clothes Washers

Energy Star- 2016
Program Requirements for Residential Dishwashers

EPA WaterSense - 2007
High-Efficiency Lavatory Faucet Specification

EPA WaterSense - 2009
Specification for Flushing Urinals

EPA WaterSense- 2014
Specification for Tank-Type Toilets

IAPMO IGC 154
Shower and Tub/Shower Enclosures, Bathtubs with Glass Pressure-Sealed Doors, and Shower/Steam Panels

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

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

IAPMO PS 23
Dishwasher Drain Airgaps

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

IAPMO PS 42
Pipe Alignment and Secondary Support Systems

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

IAPMO PS 54
Metallic and Plastic Utility Boxes

IAPMO PS 64
Roof Pipe Flushings

IAPMO PS 86
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IAPMO PS 87
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IAPMO PS 89
Soaking and Hydrotherapy (Whirlpool) Bathtubs with Hydraulic Seatlift

IAPMO PS 92
Heat Exchangers and Indirect Water Heaters

IAPMO PS 101
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IAPMO PS 105
Polyethylene Distribution Boxes

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

IAPMO PS 117
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IAPMO Z124.5
Plastic Toilet Seats

IAPMO Z124.7
Prefabricated Plastic Spa Shells

IAPMO Z124.8
Plastic Liners for Bathtubs and Shower Receptors

IAPMO Z1000
Prefabricated Septic Tanks

IAPMO Z1001
Prefabricated Gravity Grease Interceptors

ISEA Z358.1
Emergency Eyewash and Shower Equipment

MSS SP-67
Butterfly Valves

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NSF 12
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NSF 14
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NSF 29
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NSF 40
Residential Wastewater Treatment Systems

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Non-Liquid Saturated Treatment Systems

NSF 42
Drinking Water Treatment Units – Aesthetic Effects

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Residential Cation Exchange Water Softeners

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NSF 53
Drinking Water Treatment Units – Health Effects

NSF 55
Ultraviolet Microbiological Water Treatment Systems

NSF 58
Reverse Osmosis Drinking Water Treatment Systems

NSF 61
Drinking Water System Components– Health Effects

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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.
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, 2023 Edition:

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

**NSF 14**  
Plastics Piping System Components and Related Materials

**NSF 18**  
Manual Food and Beverage Dispensing Equipment

**NSF 42**  
Drinking Water Treatment Units - Aesthetic Effects

**NSF 44**  
Residential Cation Exchange Water Softeners

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

**NSF 53**  
Drinking Water Treatment Units - Health Effects

**NSF 55**  
Ultraviolet Microbiological Water Treatment Systems

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

**NSF 59**  
Drinking Water Treatment Chemicals - Health Effects

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

**NSF 62**  
Drinking Water Distillation Systems

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

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

**Certification Mark:**

This marking indicates that the product is certified with the WQA Gold Seal Program and is listed to the applicable standard specified.
Part II: Approved Testing Agencies

1. Home Innovation Research Labs

400 Prince George’s Boulevard
Upper Marlboro, MD 20774
(301) 430-6246

Expiration: August 1, 2023

This agency is approved for testing of plumbing products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing Code, 2020 Edition:

ASME A112.9.7/ CSA B45.10
Hydromassage Bathtub Systems

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

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)
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, 2024*

This agency is approved for testing of plumbing products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing Code, 2023 Edition:

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

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

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

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

- **ASSE 1001**  
  Atmospheric Type Vacuum Breakers

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

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

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

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

- **ASSE 1019**  
  Wall Hydrant with Backflow Protection and Freeze Resistance

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

- **CSA B45.5/IAPMO Z124**  
  Plastic Plumbing Fixtures

- **IAPMO Z124.5**  
  Plastic Toilet Seats

- **IAPMO Z124.7**  
  Prefabricated Plastic Spa Shells