MECHANICAL TESTING LABORATORY

LIST OF APPROVED LISTING AND TESTING AGENCIES

May 13, 2022

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

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

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

1. ASSE International

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

Expiration: April 1, 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 Code, 2020 Edition:

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

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

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

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

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

ASME A112.14.1
Backwater Valves

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

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

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

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

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

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

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

ASME A112.19.10
Dual Flush Devices for Water Closets

ASME A112.21.3M
Hydrants for Utility and Maintenance Use

ASME A112.36.2M
Cleanouts

ASSE 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.
2. FM Approvals LLC

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

Expiration: October 1, 2022

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, 2020 Edition.

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

Certification Marks:

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

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

**Expiration: June 1, 2022**

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:

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ASSE 1002/ASME A112.112/CSA B125.12  
Anti-Siphon Fill Valves for Water Closet Tanks

ASSE 1003  
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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
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ASSE 1037/ ASME A112.1037/ CSA B125.37
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ASSE 1044
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ASSE 1052
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ASSE 1055
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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
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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
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ASSE 1071
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Seamless Copper Water Tube

ASTM B135
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ASTM B687
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ASTM B813
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ASTM B828
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Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter  

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

ASTM D3350  
Polyethylene Plastics Pipe and Fittings Materials  

ASTM E84  
Surface Burning Characteristics of Building Materials  

ASTM E96  
Water Vapor Transmission of Materials
ASTM E136
Behavior of Materials in a Vertical Tube Furnace at 750°C

ASTM E814
Fire Tests of Penetration Firestop Systems

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

ASTM E2336
Fire Resistive Grease Duct Enclosure Systems

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

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

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

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

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

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

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

ASTM F1961
Metal Mechanical Cold Flare Compression Fittings with Disc Spring for Crosslinked Polyethylene (PEX) Tubing

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

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

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

ASTM F2080
Cold-Expansion Fittings with Metal Compression-Sleeves for Crosslinked Polyethylene (PEX) Pipe 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 F2158
Residential Central-Vacuum Tube and Fittings

ASTM F2159
Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR 9 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 SDR 9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Tubing

ASTM F2509
Field-Assembled Anodeless Riser Kits for Use on Outside Diameter Controlled Polyethylene and Polyamide-11 (PA11) Gas Distribution Pipe and Tubing

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

AWS B2.4
Welding Procedures and Performance Qualifications for Thermoplastics

AWWA C110
Ductile-Iron and Gray-Iron Fittings

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

AWWA C151
Ductile-Iron Pipe, Centrifugally Cast

AWWA C153
Ductile-Iron Compact Fittings

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

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

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

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

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 Z21.1
Household Gas Cooking 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 Z21.10.1
Gas Water Heaters-Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu Per Hour or Less (same as CSA 4.1)

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

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

CSA Z21.12b
Draft Hoods

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

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

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

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

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

CSA Z21.20a
Automatic Gas Ignition Systems and Components

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

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

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

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

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

CSA Z21.42
Gas-Fired Illuminating Appliances

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

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

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

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 Z21.66
Automatic Vent Damper Devices for Use with Gas-Fired Appliances

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

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

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

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

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

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

CSA Z21.91
Non-Recirculating Direct Gas-Fired Industrial Air Heaters (same as CSA 3.7)

CSA Z21.92
Gas Unit Heaters, Gas Package Heaters and Gas-Fired Duct Furnaces (same as CSA 2.6)

CSA Z21.93
Gas Food Service Equipment (same as CSA 1.8)

CSA Z21.94
Recirculating Direct Gas-Fired Industrial Air Heaters

CSA Z21.95
Gas-Fired High-Intensity Infrared Heaters (same as CSA 2.35a)

CSA Z21.96
Gas-Fired Low-Intensity Infrared Heaters (same as CSA 2.34b)

IAPMO PS 117
Press and Nail Connections

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

IIAR 2
Standard for the Safe Design of Closed-Circuit Ammonia Refrigeration Systems

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

MSS SP-67
Butterfly Valves

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

MSS SP-104
Wrought Copper Solder Joint Pressure Fittings

MSS SP-106
Cast Copper Alloy Flanges and Flanged Fittings: Class 125, 150 and 300
MSS SP-109
Welded Fabricated Copper Solder Joint Pressure Fittings

NEBB 2015
Procedural Standards for Testing Adjusting and Balancing Environmental Systems

SAE J512
Automotive Tube Fittings

SMACNA 2002
HVAC Systems Testing, Adjusting and Balancing

SMACNA 2003
Fibrous Glass Duct Construction Standard

SMACNA 2006
HVAC Duct Construction Standards Metal and Flexible

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

UL 21
LP-Gas Hose

UL 33
Heat Responsive Links for Fire-Protection Service

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

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

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

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

UL 127
Factory-Built Fireplaces

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

UL 144
LP-Gas Regulators

UL 174
Household Electric Storage Tank Water Heaters

UL 180
Liquid-Level Indicating Gauges for Oil Burner Fuels

UL 181
Factory-Made Air Ducts and Air Connectors

UL 181A
Closure Systems for Use with Rigid Air Ducts

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

UL 197
Commercial Electric Cooking Appliances

UL 207
Refrigerant-Containing Components and Accessories, Nonelectrical

UL 252
Compressed Gas Regulators

UL 268A
Smoke Detectors for Duct Application

UL 296
Oil Burners

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

UL 343
Pumps for Oil-Burning Appliances

UL 353
Limit Controls

UL 378
Draft Equipment

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

UL 404
Gauges, Indicating Pressure for Compressed Gas Service

UL 412
Refrigeration Unit Coolers

UL 429
Electrically Operated Valves

UL 441
Gas Vents

UL 443
Steel Auxiliary Tanks for Oil-Burner Fuel

UL 471
Commercial Refrigerators and Freezers

UL 525
Flame Arresters

UL 555
Fire Dampers

UL 555C
Ceiling Dampers

UL 555S
Smoke Dampers

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

UL 569
Pigtails and Flexible Hose Connectors for LP-Gas

UL 641
Type L Low-Temperature Venting Systems

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

UL 710
Exhaust Hoods for Commercial Cooking Equipment

UL 710B
Recirculating Systems

UL 723
Test for Surface Burning Characteristics of Building Materials

UL 726
Oil-Fired Boiler Assemblies

UL 727
Oil-Fired Central Furnaces

UL 729
Oil-Fired Floor Furnaces
UL 730
Oil-Fired Wall Furnaces

UL 731
Oil-Fired Unit Heater

UL 732
Oil-Fired Storage Tank Water Heaters

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

UL 737
Fireplace Stoves

UL 791
Residential Incinerators

UL 795
Commercial-Industrial Gas Heating Equipment

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

UL 842
Valves for Flammable Fluids

UL 858
Household Electric Ranges

UL 867
Electrostatic Air Cleaners

UL 896
Oil-Burning Stoves

UL 900
Air Filter Units

UL 907
Fireplace Accessories

UL 921
Commercial Dishwashers

UL 959
Medium Heat Appliance Factory-Built Chimneys

UL 984
Hermetic Refrigerant Motor-Compressors

UL 1046
Grease Filters for Exhaust Ducts

UL 1240
Electric Commercial Clothes-Drying Equipment

UL 1435
Electric Booster and Commercial Storage Tank Water Heaters

UL 1479
Fire Tests of Through-Penetration FireStops

UL 1482
Solid-Fuel Type Room Heaters

UL 1746
External Corrosion Protection Systems for Steel Underground Storage Tanks

UL 1777
Chimney Liners

UL 1812
Ducted Heat Recovery Ventilators

UL 1815
Nonducted Heat Recovery Ventilators

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

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

UL 1963
Refrigerant Recovery/Recycling Equipment

UL 1978
Grease Ducts

UL 1995
Heating and Cooling Equipment

UL 2021
Fixed and Location-Dedicated Electric Room Heaters

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

UL 2158
Electric Clothes Dryers

UL 2200
Stationary Engine Generator Assemblies

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

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

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

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

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

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

**IAPMO R&T Low Lead Mark**
This marking indicates that the product has been tested and found to comply with the low-lead requirements for drinking water system components.
4. ICC Evaluation Service, LLC

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

Expiration: July 1, 2022

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

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

Mechanical Standards

AHRI 700
Specification for Fluorocarbon Refrigerants

ASCE 25
Earthquake Actuated Automatic Gas Shutoff Devices

ASHRAE 62.1
Ventilation for Acceptable Indoor Air Quality

ASME A13.1
Scheme for the Identification of Piping Systems

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

ASME B1.20.1
Pipe Threads, General Purpose (Inch)

ASME B1.20.3
Dryseal Pipe Threads (Inch)

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

ASME B16.18
Cast Copper Alloy Solder Joint Pressure Fittings

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

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

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

ASME B16.24
Cast Copper Alloy Pipe Flanges and Flanged Fittings: Classes 150, 300, 600, 900, 1,500 and 2500

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

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

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

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

ASME B31.5
Refrigeration Piping and Heat Transfer Components

ASME B36.10M
Welded and Seamless Wrought Steel Pipe

ASME BPVC Section IV
Rules for Construction of Heating Boilers

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

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

ASTM A254 / A254M
Copper-Brazed Steel Tubing

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

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

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

ASTM B32
Solder Metal

ASTM B42
Seamless Copper Pipe, Standard Sizes
ASTM B43
Seamless Red Brass Pipe, Standard Sizes

ASTM B75 / B75M
Seamless Copper Tube

ASTM B88
Seamless Copper Water Tube

ASTM B135
Seamless Brass Tube

ASTM B210
Aluminum and Aluminum-Alloy Drawn Seamless Tubes

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

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

ASTM B302
Threadless Copper Pipe, Standard Sizes

ASTM B370
Standard Specification for Copper Sheet and Strip for Building Construction

ASTM B447
Welded Copper Tube

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

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

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

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

ASTM C518

ASTM D93
Flash Point by Pensky-Martens Closed Cup Tester

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

ASTM E84
Surface Burning Characteristics of Building Materials

ASTM E814
Fire Tests of Penetration Firestop Systems

ASTM E2336
Fire Resistive Grease Duct Enclosure Systems

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

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

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

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

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

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

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

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

ASTM F2158
Residential Central-Vacuum Tube and Fittings

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

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

ASTM F2509
Field-Assembled Anodeless Riser Kits for Use on Outside Diameter Controlled Polyethylene and Polyamide-11 (PA11) Gas Distribution Pipe and Tubing

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

AWS B2.4
Welding Procedure and Performance Qualification for Thermoplastics

AWWA C110
Ductile-Iron and Gray-Iron Fittings

AWWA C151
Ductile-Iron Pipe, Centrifugally Cast

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

CSA LC 1
Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (same as 6.26)
CSA LC 4a
Press-Connect Metallic Fittings For Use in Fuel Gas Distribution Systems (same as CSA 6.32a)

CSA Z21.1
Household Gas Cooking 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 Z21.10.1
Gas Water Heaters - Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu Per Hour or Less (same as CSA 4.1)

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

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

CSA Z21.12b
Draft Hoods

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

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

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

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

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

CSA Z21.20a
Automatic Gas Ignition Systems and Components

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

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

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

CSA Z21.40.1a/GA 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 Z21.50
Vented Gas Fireplaces (same as CSA 2.22)

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

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

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

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

CSA Z21.61
Gas-Fired Toilets

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

MSS SP-67
Butterfly Valves
MSS SP-80
Bronze Gate, Globe, Angle, and Check Valves

MSS SP-104
Wrought Copper Solder-Joint Pressure Fittings

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

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

SAE J512
Automotive Tube Fittings

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

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

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

UL 21
LP-Gas Hose

UL 33
Heat Responsive Links for Fire-Protection Service

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

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

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

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

UL 127
Factory-Built Fireplaces

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

UL 144
LP-Gas Regulators

UL 174
Household Electric Storage Tank Water Heaters

UL 180
Liquid-Level Indicating Gauges for Oil Burner Fuels

UL 181
Factory-Made Air Ducts and Air Connectors

UL 181A
Closure Systems for Use with Rigid Air Ducts

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

UL 197
Commercial Electric Cooking Appliances

UL 207
Refrigerant-Containing Components and Accessories, Nonelectrical

UL 252
Compressed Gas Regulators

UL 268A
Smoke Detectors for Duct Application

UL 296
Oil Burners

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

UL 343
Pumps for Oil-Burning Appliances

UL 353
Limit Controls

UL 378
Draft Equipment

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

UL 404
Gauges, Indicating Pressure, for Compressed Gas Service

UL 412
Refrigeration Unit Coolers

UL 429
Electrically Operated Valves

UL 441
Gas Vents

UL 443
Steel Auxiliary Tanks for Oil-Burner Fuel

UL 471
Commercial Refrigerators and Freezers

UL 525
Flame Arresters

UL 536
Flexible Metallic Hose

UL 555
Fire Dampers

UL 555C
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ASME B16.26 Cast Copper Alloy Fittings for Flared Copper Tubes

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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
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ASTM A53 / A53M
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ASTM A74
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ASTM A126
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Seamless Copper Water Tube

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ASTM B302
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ASTM B819
Seamless Copper Tube for Medical Gas Systems

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

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Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe

ASTM C412
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ASTM C443
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Rubber Gaskets for Cast Iron Soil Pipe and Fittings

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

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

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

ASTM C1461
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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, (SIDR-PR) Based on Controlled Inside Diameter

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

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

ASTM D2464
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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
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Polyethylene (PE) Gas Pressure Pipe Tubing and Fittings

ASTM D2517
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ASTM D2564
Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems

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

ASTM D2657
Heat Fusion Joining of Polyolefin Pipe Fittings

ASTM D25665
Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings

ASTM D2672
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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 D4329
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) or 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 Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Non-Pressure Piping Components

ASTM D3139
Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

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

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

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

ASTM 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

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ASTM F409
Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings

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

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

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

ASTM F446
Grab Bars and Accessories Installed in the Bathing Area

ASTM F480
Thermoplastic Well Casing Pipe and Couplings Made in Standard Dimension Ratios (SDR), 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
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ASTM F667
3 through 24 in. Corrugated Polyethylene Pipe and Fittings

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

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

ASTM F810
Smoothwall Polyethylene (PE) Pipe for Use in Drainage and Waste Disposal Absorption Fields
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ASTM F894  Polyethylene (PE) Large Diameter Profile Wall Sewer and Drain Pipe

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

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

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

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

ASTM F1412  Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

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

ASTM F1488  Coextruded Composite Pipe

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

ASTM F1673  Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems

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

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

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

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

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

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

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

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

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

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

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

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

ASTM F2165  Flexible Pre-Insulated Piping

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

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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

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AWWA C500  Metal-Seated 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  

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

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

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

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

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

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

CSA A257  Concrete Pipe and Manhole Sections  

CSA B45.5 / IAPMO Z124  Plastic Plumbing Fixtures  

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

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CSA G401  Corrugated Steel Pipe Products  

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

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

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

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Cylinder Connection Devices (same as CSA 6.25a)

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)

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

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 Potable Water Pipe and Tubing

IAPMO PS 36
Lead Free Sealing Compounds for Threaded Joints

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

IAPMO PS 42
Pipe Alignment and Secondary Support Systems

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

IAPMO PS 51
Expansion Joints 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
Wastewater Diverter Valves and Diversion Systems

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

IAPMO PS 63
Plastic Leaching Chambers

IAPMO PS 64
Roof Pipe Flashings

IAPMO PS 65
Airgap Units for Water Conditioning Equipment Installation

IAPMO PS 66
Dielectric Fittings

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

IAPMO PS 69
Bathwaste and Overflow Assemblies with Tub Filler Spout

IAPMO PS 72
Valves with Atmospheric Vacuum Breakers

IAPMO PS 73
Dental 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 Shutoff Valves for Pool/Spas

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

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

IAPMO PS 91
Plastic Stabilizers for Use with Plastic Closet Bends

IAPMO PS 92
Heat Exchangers and Indirect Water Heaters

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

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

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

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

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

IAPMO PS 117  
Press and Nail Connections

IAPMO PS 119  
Water-Powered Sump Pumps

IAPMO Z124.5  
Plastic Toilet Seats

IAPMO Z124.7  
Prefabricated Plastic Spa Shells

IAPMO Z124.8  
Plastic Liners for Bathtubs and Shower  
Receptors

IAPMO Z1000  
Prefabricated Septic Tanks

IAPMO Z1001  
Prefabricated Gravity Grease Interceptors

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

IAPMO Z1088  
Pre-Pressurized Water Expansion Tanks

IAPMO Z1141  
Accessible and Usable Buildings and  
Facilities

ISEA Z358.1  
Emergency Eyewash and Shower  
Equipment

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

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

MSS SP-44  
Steel Pipeline Flanges

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

MSS SP-67  
Butterfly Valves

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

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

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

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

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

MSS SP-83  
Class 3000 and 6000 Steel Pipe Unions,  
Socket Welding and Threaded (Carbon  
Steel, Alloy Steel, Stainless Steels, and  
Nickel Alloys)

MSS SP-104  
Wrought Copper Solder Joint Pressure  
Fittings

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

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

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

NSF 2  
Food Equipment

NSF 3  
Commercial Warewashing Equipment

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

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

NSF 12  
Automatic Ice Making Equipment

NSF 14  
Plastic Piping System Components and  
Related Materials

NSF 18  
Manual Food and Beverage Dispensing  
Equipment

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

NSF 40  
Residential Wastewater Treatment  
Systems
NSF 41
Non-Liquid Saturated Treatment Systems

NSF 42
Drinking Water Treatment Units--Aesthetic Effects

NSF 44
Residential Cation Exchange Water Softeners

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

NSF 53
Drinking Water Treatment Units--Health Effects

NSF 55
Ultraviolet Microbiological Water Treatment Systems

NSF 58
Reverse Osmosis Drinking Water Treatment Systems

NSF 61
Drinking Water System Components--Health Effects

NSF 62
Drinking Water Distillation Systems

NSF 169
Special Purpose Food Equipment and Devices

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

PDI-WH 201
Water Hammer Arresters

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

SAE J 512
Automotive Tube Fittings

SAE J1670
Type "F" Clamps for Plumbing Applications

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

UL 70
Septic Tanks, Bituminous-Coated Metal

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

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

UL 144
LP-Gas Regulators

UL 174
Household Electric Storage Tank Water Heaters

UL 252
Compressed Gas Regulators

UL 263
Fire Tests of Building Construction and Materials

UL 296
Oil Burners

UL 378
Draft Equipment

UL 399
Drinking Water Coolers

UL 404
Gauges, Indicating Pressure, for Compressed Gas Service

UL 429
Electrically Operated Valves

UL 430
Waste Disposers

UL 441
Gas Vents

UL 536
Flexible Metallic Hose

UL 563
Ice Makers

UL 569
Pigtails and Flexible Hose Connectors for LP Gas

UL 723
Test for Surface Burning Characteristics of Building Materials

UL 726
Oil-Fired Boiler Assemblies

UL 732
Oil-Fired Storage Tank Water Heaters

UL 749
Household Dishwashers

UL 778
Motor-Operated Water Pumps

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

UL 921
Commercial Dishwashers

UL 959
Medium Heat Appliance Factory-Built Chimneys

UL 1081
Swimming Pool Pumps, Filters, and Chlorinators

UL 1206
Electric Commercial Clothes-Washing Equipment

UL 1261
Electric Water Heaters for Pools and Tubs

UL 1331
Station Inlets and Outlets

UL 1453
Electric Booster and Commercial Storage Tank Water Heaters

UL 1479
Fire Tests of Penetration Firestops

UL 1951
Electric Plumbing Accessories

UL 2157
Electric Clothes Washing Machines and Extractors

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

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

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

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

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

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

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

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

Expiration: June 1, 2022

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

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

Plumbing Standards:

AHAM FDW-1  
Food Waste Disposers

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

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

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

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

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

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

ASME A112.19.10  
Dual Flush Devices for Water Closets

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

ASME B16.18  
Cast Copper Alloy Solder Joint Pressure Fittings

ASME B42  
Seamless Copper Pipe, Standard Sizes

ASME B43  
Seamless Red Brass Pipe, Standard Sizes

ASME B75/B75M  
Seamless Copper Tube

ASME B88  
Seamless Copper Water Tube

ASTM B135  
Seamless Brass Tube

ASTM B302  
Threadless Copper Pipe, Standard Sizes

ASTM B306  
Copper Drainage Tube (DWV)

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

ASTM C425  
Compression Joints for Vitrified Clay Pipe and Fittings
ASTM C443
Joints for Concrete Pipe and Manholes, Using Rubber Gaskets

ASTM C564
Rubber Gaskets for Cast Iron Soil Pipe and Fittings

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

ASTM C1173
Flexible Transition Couplings for Underground Piping Systems

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

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

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

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

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

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

ASTM E84
Surface Burning Characteristics of Building Materials

ASTM E119
Fire Tests of Building Construction and Materials

ASTM E814
Fire Tests of Penetration Firestop Systems

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

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

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

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

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

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

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

CSA B45.5/IAPMO Z124
Plastic Plumbing Fixtures

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

CSA B45.11/IAPMO Z401
Glass Plumbing Fixtures

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

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

CSA Z21.12b
Draft Hoods

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

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

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

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

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

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

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

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

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

IAPMO Z124.5
Plastic Toilet Seats

IAPMO Z124.7
Prefabricated Plastic Spa Shells

IAPMO Z124.8
Plastic Liners for Bathtubs and Shower Receptors

NSF 2
Food Equipment

NSF 3
Commercial Warewashing Equipment

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

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

NSF 12
Automatic Ice Making Equipment

NSF 14
Plastic Piping System Components and Related Materials
NSF 18
Manual Food and Beverage Dispensing Equipment

NSF 61
Drinking Water System Components-Health Effects

NSF 169
Special Purpose Food Equipment and Devices

PDI WH-201
Water Hammer Arresters

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

UL 144
LP-Gas Regulators

UL 174
Household Electric Storage Tank Water Heaters

UL 252
Compressed Gas Regulators

UL 263
Fire Tests of Building Construction and Materials

UL 296
Oil Burners

UL 378
Draft Equipment

UL 399
Drinking Water Coolers

UL 404
Gauges, Indicating Pressure for Compressed Gas Service

UL 429
Electrically Operated Valves

UL 430
Waste Disposers

UL 441
Gas Vents

UL 536
Flexible Metallic Hose

UL 563
Ice Makers

UL 569
Pigtails and Flexible Hose Connectors for LP-Gas

UL 723
Test for Surface Burning Characteristics of Building Materials

UL 726
Oil-Fired Boiler Assemblies

UL 732
Oil-Fired Storage Tank Water Heaters

UL 749
Household Dishwashers

UL 778
Motor Operated Water Pumps

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

UL 921
Commercial Dishwashers

UL 959
Medium Heat Appliance Factory-Built Chimneys

UL 1081
Swimming Pool Pumps, Filters, and Chlorinators

UL 1206
Electric Commercial Clothes-Washing Equipment

UL 1261
Electric Water Heaters for Pools and Tubs

UL 1331
Station Inlets and Outlets

UL 1453
Electric Booster and Commercial Storage Tank Water Heaters

UL 1479
Fire Tests of Through-Penetration Firestops

UL 1951
Electric Plumbing Accessories

UL 2157
Electric Clothes Washing Machines and Extractors
Mechanical Standards:

ASME B16.18
Cast Copper Alloy Solder Joint Pressure Fittings

ASTM B88
Seamless Copper Water Tube

ASTM B302
Threadless Copper Pipe, Standard Sizes

CSA Z21.1
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 Z21.10.1
Gas Water Heaters- Volume I, Storage Water Heaters with Input Ratings of 75,000 Btu per Hour or Less (same as CSA 4.1)

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

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

CSA Z21.12b
Draft Hoods

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

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

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

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

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

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

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

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

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

CSA Z21.42
Gas-Fired Illuminating Appliances

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

UL 127
Factory-Built Fireplaces

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

UL 144
LP-Gas Regulators

UL 181
Factory-Made Air Ducts and Air Connectors

UL 197
Commercial Electric Cooking Appliances

UL 252
Compressed Gas Regulators

UL 268A
Smoke Detectors for Duct Applications

UL 296
Oil Burners
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<tr>
<th>UL Code</th>
<th>Description</th>
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<td>UL 300</td>
<td>Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment</td>
</tr>
<tr>
<td>UL 343</td>
<td>Pumps for Oil-Burning Appliances</td>
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<tr>
<td>UL 378</td>
<td>Draft Equipment</td>
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<td>UL 391</td>
<td>Solid-Fuel and Combination-Fuel Central and Supplementary Furnaces</td>
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<tr>
<td>UL 404</td>
<td>Gauges, Indicating Pressure for Compressed Gas Service</td>
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<td>UL 412</td>
<td>Refrigeration Unit Coolers</td>
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<td>UL 429</td>
<td>Electrically Operated Valves</td>
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<td>UL 441</td>
<td>Gas Vents</td>
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<td>UL 471</td>
<td>Commercial Refrigerators and Freezers</td>
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<td>UL 555</td>
<td>Fire Dampers</td>
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<tr>
<td>UL 565</td>
<td>Liquid-Level Gauges for Anhydrous Ammonia and LP-Gas</td>
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<td>UL 569</td>
<td>Pigtails and Flexible Hose Connectors for LP-Gas</td>
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<td>UL 710</td>
<td>Exhaust Hoods for Commercial Cooking Equipment</td>
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<td>UL 723</td>
<td>Test for Surface Burning Characteristics of Building Materials</td>
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<td>UL 726</td>
<td>Oil-Fired Boiler Assemblies</td>
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<td>UL 727</td>
<td>Oil-Fired Central Furnaces</td>
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<td>UL 729</td>
<td>Oil-Fired Floor Furnaces</td>
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Certification Mark:

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

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

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

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

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

(Main Lab) 205 – 8291 92nd Street Delta, British Columbia Canada V4G 0A4 Phone: (604) 247 – 0444
(Branch Lab) 3255 Pepper Lane, Suite 112 Las Vegas, NV 89120 USA, 89120 Phone: (702) 269 - 0578

Expiration: May 1, 2023

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

**Mechanical Standards:**

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**Plumbing Standards:**

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<tr>
<td>UL 1795</td>
<td>Hydromassage Bathtubs</td>
</tr>
</tbody>
</table>
Certification Mark:

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

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

Indicates that the product was certified for the United States and Canada.
This agency branch is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2020 Edition:

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

**Mechanical Standards:**

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

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

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

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

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

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

- **ASTM D2564**
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- **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**
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- **ASTM D2846/D2846M**
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- **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**
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- **ASTM F439**
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- **ASTM F441/F441M**
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- **ASTM F442/F442M**
  Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDRPR)
### ASTM Standards

- **ASTM F493**: Solvent Cements for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe and Fittings
- **ASTM F656**: Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings
- **ASTM F714**: Polyethylene (PE) Plastic Pipe (DR-PR) Based on Outside Diameter
- **ASTM F1807**: Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing
- **ASTM F1960**: Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing
- **ASTM F1970**: Special Engineered Fittings, Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems
- **ASTM F1974**: Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked Polyethylene/Aluminum/ Crosslinked Polyethylene Composite Pressure Pipe
- **ASTM F2080**: Cold-Expansion Fittings With Metal Compression-Sleeves for Cross-Linked Polyethylene (PEX) Pipe
- **ASTM F2098**: Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing to Metal Insert and Plastic Insert Fittings
- **ASTM F2159**: Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing
- **ASTM F2434**: Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Cross-linked Polyethylene/Aluminum/ Cross-linked Polyethylene (PEX-AL-PEX) Tubing
- **ASTM F2435**: Metal Insert Fittings for Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe
- **AWS A901**: Polyethylene (PE) Pressure Pipe and Tubing, 1/2 in. (13 mm) Through 3 in. (76 mm), for Water Service
- **CSA B137.1**: Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services
- **CSA B137.3**: Rigid Polyvinylchloride (PVC) Pipe and Fittings for Pressure Applications
- **CSA C448**: Design and Installation of Ground Source Heat Pump Systems for Commercial and Residential Buildings
- **IAPMO PS 117**: Press and Nail Connections
- **NSF 358-1**: Polyethylene Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems
- **NSF 358-2**: Polypropylene Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems

### Plumbing Standards:

- **ASME A112.1.2**: Air Gaps in Plumbing Systems (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/CSA B45.9**: Plumbing Fixtures with Pumped Waste and Macerating Toilet Systems
- **ASME A112.4.14**: Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems
- **ASME A112.6.2**: Framing-Affixed Supports for Off-the-Floor Water Closets with Concealed Tanks
- **ASME A112.6.3**: Floor and Trench Drains
- **ASME A112.14.1**: Backwater Valves
- **ASME A112.14.3**: Grease Interceptors
- **ASME A112.14.4**: Grease Removal Devices
- **ASME A112.18.1/CSA B125.1**: Plumbing Supply Fittings
- **ASME A112.18.2/CSA B125.2**: Plumbing Waste Fittings
- **ASME A112.18.3**: Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings
- **ASME A112.18.6/CSA B125.6**: Flexible Water Connectors
- **ASME A112.19.1/CSA B45.2**: 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
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ASME B16.22
Wrought Copper and Copper Alloy Solder Joint Pressure Fittings

ASME B16.51
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ASSE 1017
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Trap Seal Primer Valves-Potable Water Supplied

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Pressure Vacuum Breaker Assembly

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ASSE 1024
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ASSE 1025
Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers - Post Mix Type

ASSE 1027
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ASSE 1037/CSA B125.37
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ASTM A74
Cast Iron Soil Pipe and Fittings

ASTM A536
Ductile Iron Castings

ASTM A888
Hubless Cast Iron Soil Pipe and Fittings

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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

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ASTM D2239
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ASTM D2241
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ASTM D2464
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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 D2564
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ASTM D2609
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ASTM D2661
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ASTM D2665
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ASTM D3034
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ASTM D3212
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ASTM D3261
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ASTM D3311
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ASTM D4551
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ASTM E84
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ASTM F409
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ASTM F437
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ASTM F438
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ASTM F439
Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80

ASTM F441/F441M
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ASTM F442/F442M
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ASTM F493
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ASTM F628
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ASTM F656
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ASTM F891
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ASTM F949
Poly (Vinyl Chloride) (PVC) Corrugated Sewer Pipe with a Smooth Interior and Fittings

ASTM F1216
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ASTM F1336
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ASTM F1412
Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

ASTM F1476
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ASTM F1488
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ASTM F1673
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ASTM F1807
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ASTM F1866
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Plastic Mechanical Fittings for use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing

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

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

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

ASTM F2080
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ASTM F2098
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ASTM F2434
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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, 1/2 in. (13 mm) through 3 in. (76 mm), for Water Service

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

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

CSA B45.5/IAPMO Z124
Plastic Plumbing Fixtures

CSA B64.1.1
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CSA B79
Commercial and Residential Drains and Cleanouts

CSA B125.3
Plumbing Fittings

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

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

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

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

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

CSA B356
Water Pressure Reducing Valves for Domestic Water Supply Systems

CSA B481
Grease Interceptors

EPA Water Sense- 2007
High Efficiency Lavatory Faucet Specification

IAPMO PS 36
Lead-Free Sealing Compounds for Threaded Joints

IAPMO PS 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 Transport Equipment

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

NSF 12
Automatic Ice Making Equipment

NSF 14
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Drinking Water Treatment Units – Aesthetic Effects

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Evaluation of Components and Devices Used in Wastewater Treatment Systems

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Drinking Water Treatment Units – Health Effects

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

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

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

NSF 12
Automatic Ice Making Equipment

NSF 14
Plastic Piping System Components and Related Materials

NSF 18
Manual Food and Beverage Dispensing Equipment

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

NSF 40
Residential Wastewater Treatment Systems

NSF 41
Non-Liquid Saturated Treatment Systems

NSF 42
Drinking Water Treatment Units – Aesthetic Effects

NSF 44
Residential Cation Exchange Water Softeners

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

NSF 53
Drinking Water Treatment Units – Health Effects

NSF 55
Ultraviolet Microbiological Water Treatments Systems

NSF 58
Reverse Osmosis Drinking Water Treatment Systems

NSF 61
Drinking Water System Components – Health Effects

NSF 62
Drinking Water Distillation Systems

NSF 169
Special Purpose Food Equipment and Devices

NSF 350
Onsite Residential and Commercial Water Reuse Treatment Systems

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

- **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
7. OMNI-Test Laboratories, Inc.

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

Expiration: September 1, 2022

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

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

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

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

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

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

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

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

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

**UL 127**
Factory-Built Fireplaces

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

**UL 737**
Fireplace Stoves

**UL 907**
Fireplace Accessories

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

**Certification Marks:**

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

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

- **PFS**
  - This marking indicates that the product has been evaluated and is listed to the applicable standard specified.
9. 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/CSA B45.9
Plumbing Fixtures with Pumped Waste and Macerating Toilet Systems

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

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

ASME A112.6.3
Floor and Trench Drains

ASME A112.6.4
Roof, Deck, and Balcony Drains

ASME A112.6.7
Sanitary Floor Sinks

ASME A112.14.1
Backwater Valves

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

ASME A112.19.1/CSA B45.2
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 A112.19.5
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/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 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/ ASME A112.1016/CSA B125.16
Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

ASSE 1017
Temperature Actuated Mixing Valves for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves - Potable Water Supplied

ASSE 1019
Wall Hydrant with Backflow Protection and Freeze Resistance

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

ASSE 1024
Dual Check Backflow Preventers

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

ASSE 1035
Laboratory Faucet Backflow
Preventers

ASSE 1037/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 (SIDR-
PR) Based on Controlled Inside
Diameter

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

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

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

ASTM D2737
Polyethylene (PE) Plastic Tubing

ASTM E84
Surface Burning Characteristics of
Building Materials

ASTM F409
Thermoplastic Accessible and
Replaceable Plastic Tube and Tubular
Fittings

ASTM F446
Grab Bars and Accessories Installed in
the Bathing Area

ASTM F1412
Polyolefin Pipe and Fittings for
Corrosive Waste Drainage Systems

CSA B45.5/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
IAPMO PS 67
Early-Closure Replacement Flappers or Early-Closure Replacement Flapper with Mechanical Assemblies

IAPMO PS 69
Bathwaste and Overflow Assemblies with Tub Filler Spout

IAPMO PS 72
Valves with Atmospheric Vacuum Breakers

IAPMO PS 79
Multiport Electronic Trap Primer

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

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

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

IAPMO PS 98
Prefabricated Fiberglass Church Baptisteries

MSS SP-67
Butterfly Valves

NSF 61
Drinking Water System Components - Health Effects

Certification Mark:

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

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

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

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

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

Expiration: June 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 Code, 2020 Edition:

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

IAPMO PS 92
Heat Exchangers and Indirect Water Heaters

NSF 50
Equipment 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.
11. 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 92821-66729
Phone: (714) 223-3600

Expiration: November 1, 2022

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.

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

**ASHRAE 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 E814
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, 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 CSA 2.7a)

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 CSA 2.3)

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

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

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

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

CSA Z21.61
Gas-Fired Toilets

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

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

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

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

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

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

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

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

NFPA 82
Incinerators and Waste and Linen Handling Systems and Equipment

NFPA 259
Potential Heat of Building Materials

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

NFPA 274
Test Method to Evaluate Fire Performance Characteristics of Pipe Insulation
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ASME A112.19.7 / CSA B45.10  
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ASSE 1016 / AMSE A112.1016 / CSA B125.16
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ASTM A733
Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples

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

ASTM B280
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CSAZ21.56
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Program Requirements for Commercial Dishwashers

Energy Star- 2015
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

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IAPMO IGC 226
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IAPMO PS 37
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NSF 3
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NSF 4
Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transport Equipment

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

NSF 12
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NSF 29
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NSF 40
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NSF 44
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NSF 46
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NSF 53
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NSF 55
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NSF 58
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UL 959
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UL 1081
Swimming Pool Pumps, Filters, and Chlorinators

UL 1206
Electric Commercial Clothes-Washing Equipment

UL 1261
Electric Water Heaters for Pools and Tubs

UL 1331
Station Inlets and Outlets

UL 1453
Electric Booster and Commercial Storage Tank Water Heaters

UL 1479
Fire Tests of Penetration Firestops

UL 1795
Hydromassage Bathtubs

UL 1951
Electric Plumbing Accessories

UL 2157
Electric Clothes Washing Machines and Extractors

UL 2523
Solid Fuel-Fired Hydronic Heating Appliances, Water Heaters, and Boilers
## Certification Marks:

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<td><strong>UL Listing Mark</strong></td>
<td>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.</td>
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<tr>
<td><strong>UL Gas-Fired Mark</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Combined UL Mark for Europe, Canada and United States</strong></td>
<td>This mark indicates that the product has been evaluated to European, Canadian and U.S. requirements, and is listed to the applicable standard specified.</td>
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<td><strong>UL Plumbing Mark</strong></td>
<td>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.</td>
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<tr>
<td><strong>UL Field Evaluated Product Mark</strong></td>
<td>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.</td>
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12. Water Quality Association

4151 Naperville Road
Lisle, IL 60532-1088
Phone: (630) 505-0160

Expiration: November 1, 2021

This agency is approved for listing of plumbing products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing 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.

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 60
Drinking Water Treatment Chemicals -
Health Effects

NSF 61
Drinking Water System Components -
Health Effects

NSF 62
Drinking Water Distillation Systems

NSF 169
Special Purpose Food Equipment and
Devices

WQA S-300
Point-of-Use Low Pressure Reverse
Osmosis Drinking Water Systems
Certification Mark:

This marking indicates that the product is certified with the WQA Gold Seal Program and is listed to the applicable standard specified.

C USA
Part II: Approved Testing Agencies

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

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

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

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

- **ASSE 1001**
  Atmospheric Type Vacuum Breakers

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

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

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

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

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

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

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

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

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

- **IAPMO Z124.8**
  Plastic Liners for Bathtubs and Shower Receptor
2. TI RADCO LLP

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

Expiration: January 1, 2022

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

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

**CSA Z21.60**
Decorative Gas Appliances for Installation in Solid-Fuel Burning Fireplaces (same as CSA 1.6)

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

**ASTM C518**