

City of Los Angeles  
Department of Building and Safety



# MECHANICAL TESTING LABORATORY

## LIST OF APPROVED LISTING AND TESTING AGENCIES

June 6, 2024

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](http://www.ladbs.org)

# Part I: Approved Listing Agencies

## 1. ALS Group USA, Corp.

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

**Expiration: March 1, 2024**

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

**ASME A112.18.1/CSA B125.1**

Plumbing Supply Fittings

**ASME A112.18.2/CSA B125.2**

Plumbing Waste Fittings

**ASME A112.18.3**

Backflow Protection Devices and Systems in Plumbing Fixture Fittings

**ASME A112.18.6 /CSA B125.6**

Flexible Water Connectors

**ASME A112.19.1/CSA B45.2**

Enameled Cast Iron and 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 A112.19.10**

Retrofit Dual Flush Devices for Water Closets

**ASME A112.19.14**

Six-Liter Water Closets Equipped with a Dual Flushing Device

**ASME A112.19.19**

Vitreous China Nonwater Urinals

**ASME B16.23**

Cast Copper Alloy Solder Joint Drainage Fittings: DWV

**ASME B16.24**

Cast Copper Alloy Pipe Flanges and Flanged Fittings, and Valves: Classes 150, 300, 600, 900, 1500 and 2500

**ASSE 1001**

Atmospheric Type Vacuum Breakers

**ASSE 1002/ASME A112.1002/CSA B125.12**

Anti-Siphon Fill Valves for Water Closet Tanks

**ASSE 1003**

Water Pressure Reducing Valves for Domestic Water Distribution Systems

**ASSE 1004**

Commercial Dishwashing Machines

**ASSE 1008**

Plumbing Aspects of Residential Food Waste Disposer Units

**ASSE 1010**

Water Hammer Arresters

**ASSE 1011**

Hose Connection Vacuum Breakers

**ASSE 1012**

Backflow Preventer with Intermediate Atmospheric Vent

**ASSE 1013**

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

**ASSE 1014**

Backflow Prevention Devices for Hand-Held Showers

**ASSE 1015**

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

**ASSE 1016 / ASME A112.1016 / CSA B124.16**

Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

**ASSE 1017**

Temperature Actuated Mixing Valves for Hot Water Distribution Systems

**ASSE 1018**

Trap Seal Primer Valves-Potable Water Supplied

**ASSE 1019**

Wall Hydrant with Backflow Protection and Freeze Resistance

**ASSE 1020**

Pressure Vacuum Breaker Assembly

**ASSE 1022**

Backflow Preventer for Beverage Dispensing Equipment

**ASSE 1023**  
Hot Water Dispensers Household Storage  
Type – Electrical

**ASSE 1024**  
Dual Check Valve Backflow Preventers

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

**ASSE 1035**  
Laboratory Faucet Backflow Preventers

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

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

**ASSE 1047**  
Reduced Pressure Detector Fire  
Protection Backflow Prevention  
Assemblies

**ASSE 1048**  
Double Check Detector Fire Protection  
Backflow Prevention Assemblies

**ASSE 1052**  
Hose Connection Backflow Preventers

**ASSE 1055**  
Chemical Dispensing Systems with  
Integrated Backflow Protection

**ASSE 1056**  
Spill Resistant Vacuum Breaker  
Assemblies

**ASSE 1057**  
Freeze Resistant Sanitary Yard Hydrants  
with Backflow Protection

**ASSE 1060**  
Outdoor Enclosures for Fluid Conveying  
Components

**ASSE 1061**  
Push-Fit Fittings

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

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

**ASSE 1069**  
Automatic Temperature Control Mixing  
Valves

**ASSE 1070/ASME A117.1070/CSA  
B125.70**  
Water Temperature Limiting Devices

**ASSE 1071**  
Temperature Actuated Mixing Valves for  
Plumbed Emergency Equipment

**ASSE 1079**  
Dielectric Pipe Unions

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

**CSA B125.3**  
Plumbing Fittings

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

**EPA Watersense – 2007**  
High-Efficiency Lavatory Faucet  
Specification

**EPA Watersense – 2009**  
Specification for Flushing Urinals

**EPA Watersense – 2014**  
Specification for Tank-Type Toilets

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

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

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

## Certification Mark:

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

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## 2. ASSE International

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

***Expiration: April 1, 2024***

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

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

**ASME A112.1.2**

Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)

**ASME A112.1.3**

Air Gap Fittings for Use with Plumbing Fixtures, Appliances, and Appurtenances

**ASME A112.3.1**

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

**ASME A112.6.1M**

Floor-Affixed Supports for Off-the-Floor Plumbing Fixtures for Public Use

**ASME A112.14.1**

Backwater Valves

**ASME A112.18.1/CSA B125.1**

Plumbing Supply Fittings

**ASME A112.18.2/CSA B125.2**

Plumbing Waste Fittings

**ASME A112.18.3**

Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings

**ASME A112.19.1/CSA B45.2**

Enameled Cast Iron and Enameled Steel Plumbing Fixtures

**ASME A112.19.2/CSA B45.1**

Ceramic Plumbing Fixtures

**ASME A112.19.3/CSA B45.15**

Stainless Steel Plumbing Fixtures

**ASME A112.19.5/CSA B45.15**

Flush Valves and Spuds for Water Closets, Urinals, and Tanks

**ASME A112.19.10**

Dual Flush Devices for Water Closets

**ASME A112.21.3M**

Hydrants for Utility and Maintenance Use

**ASME A112.36.2M**

Cleanouts

**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:**

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

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### 3. CSA Group Testing & Certification Inc.

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

(Branch Lab)  
8501 E. Pleasant Valley Road  
Cleveland, OH 44131  
Phone: (216) 524-4990

(Branch Lab)  
34 Bunsen  
Irvine, CA 92618  
Phone: 949-733-4300

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

***Expiration: July 1, 2024***

This agency is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2023 Edition:

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

#### Mechanical

**ASME B16.33**

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

**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

**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 D2466**

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

**ASTM D2564**

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

**ASTM D2683**

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

**ASTM D2737**

Polyethylene (PE) Plastic Tubing

**ASTM D2846/D2846M**

Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot-and Cold-Water Distribution Systems

**ASTM D3035**

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

**ASTM D3139**

Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

**ASTM D3261**

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

**ASTM F1282**

Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe

**ASTM F493**

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

**CSA B137.1**

Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services

**CSA B137.11**

Polypropylene (PP-R) Pipe and Fittings for Pressure Applications

**CSA B137.18**

Polyethylene of Raised Temperature Resistance (PE-RT) Tubing Systems for Pressure Applications

**CSA B137.6**

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

**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 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 Cooking Gas Appliances

**CSA Z21.5.1**

Gas Clothes Dryers, Volume I, Type 1 Clothes Dryers (same as CSA 7.1)

**CSA Z21.5.2**

Gas Clothes Dryers, Volume II, Type 2 Clothes Dryers (same as CSA 7.2)

**CSA Z21.11.2**

Gas-Fired Room Heaters, Volume II, Unvented Room Heaters

**CSA Z21.12b**

Draft Hoods

**CSA Z21.13**

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

**CSA Z21.19**

Refrigerators Using Gas Fuel (same as CSA 1.4)

**CSA Z21.20a**

Automatic Gas Ignition Systems and Components

**CSA Z21.22**

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 Decorative Gas Appliances (same as CSA 2.22)

**CSA Z 21.54**

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

**CSA Z 21.56**

Gas-Fired Pool Heaters (same as CSA 4.7)

**CSA Z21.58**

Outdoor Cooking Gas Appliances (same as CSA 1.6)

**CSA Z21.60**

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

**CSA Z21.61**

Gas-Fired Toilets

**CSA Z21.66**

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

**CSA Z 21.69**

Connectors for Moveable Gas Appliances (same as CSA 6.16)

**CSA Z21.71a**

Automatic Intermittent Pilot Ignition Systems for Field Installation

**CSA Z 21.75**

Connectors for Outdoor Gas Appliances and Manufactured Homes (same as CSA 6.27)

**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 Z 21.88**

Vented Gas Fireplace Heaters (same as CSA 2.33)

**CSA Z21.90**

Gas Convenience Outlets and Optional Enclosures (same as 6.24)

**CSA Z 21.93**

Excess Flow Valves for Natural and Propane Gas with Pressures up to 5 psig (same as CSA 6.30)

**CSA Z83.11**

Gas Food Service Equipment (Same as CSA 1.8)

**CSA Z83.18**

Recirculating Direct Gas-Fired Heating and Forced Ventilation Appliances for Commercial and Industrial Applications

**CSA Z83.19a**

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

**CSA Z83.20**

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

**IAPMO PA 117**

Press and Nail Connections

**UL 21**

LP-Gas Hose

**UL 125**

Flow Control Valves for Anhydrous Ammonia and LP-Gas

**UL 127**

Factory-Built Fireplaces

**UL 144**

LP-Gas Regulators

**UL174**

Household Electric Storage Tank Water Heaters

**UL 252**

Compressed Gas Regulators

**UL 295**

Commercial-Industrial Gas Burners

**UL 296**

Oil Burners

**UL 343**

Pumps for Oil-Burning Appliances

**UL 378**

Draft Equipment

**UL 391**

Solid-Fuel and Combination-Fuel Central and Supplementary Furnaces



**UL 441**  
Gas Vents

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

**UL641**  
Type L Low-Temperature Venting  
Systems

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

**UL 726**  
Oil-Fired Boiler Assemblies

**UL 727**  
Oil-Fired Central Furnaces

**UL 729**  
Oil-Fired Floor Furnaces

**UL 730**  
Oil-Fired Wall Furnaces

**UL 731**  
Oil-Fired Unit Heaters

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

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

**UL 737**  
Fireplace Stoves

**UL778**  
Motor Operater Water Pumps

**UL 795**  
Commercial-Industrial Gas Heating  
Equipment

**UL 896**  
Oil-Burning Stoves

**UL 921**  
Commercial Dishwashers

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

**UL 1995**  
Heating and Cooling Equipment

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

## Plumbing

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

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

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

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

**ASME A112.4.14/CSA B125.14**  
Manually Operated Valves for Use in  
Plumbing Systems

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

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

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

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

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

**ASME A112.6.7**  
Sanitary Floor Sinks

**ASME A112.14.3**  
Hydromecahnical Grease Interceptors

**ASME A112.14.4**  
Grease Removal Devices

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

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

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

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

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

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

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

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

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

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

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

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

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

**ASME A112.19.19**  
Vitreous China Nonwater Urinals

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

**ASME A112.36.2M**  
Cleanouts

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

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

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

**ASSE 1001**  
Atmospheric Type Vacuum Breakers

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

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

**ASSE 1004**  
Commercial Dishwashing Machines

**ASSE 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 Prevention Backflow Prevention Assemblies

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

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

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

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

**ASSE 1020**  
Pressure Vacuum Breaker Assembly

ASSE 1022  
Backflow Preventer for Beverage Dispensing Equipment

ASSE 1023  
Hot Water Dispensers Household Storage Type - Electrical

**ASSE 1024**  
Dual Check Backflow Preventers

**ASSE 1035**  
Laboratory Faucet Backflow Preventers

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

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

**ASSE 1047**  
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

**ASSE 1048**  
Double Check Detector Fire Protection Backflow Prevention Assemblies

**ASSE 1052**  
Hose Connection Backflow Preventers

**ASSE 1056**  
Spill Resistant Vacuum Breaker Assemblies

**ASSE 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 1064**  
Performance Requirements for Backflow Prevention Assembly Field Test Kits

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

**ASSE 1069**  
Automatic Temperature Control Mixing Valves

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

**ASSE 1071**  
Temperature Actuated Mixing Valves for Plumbed Emergency Equipment

**ASSE 1079**  
Dielectric Pipe Unions

**ASSE 1081**  
Backflow Preventers with Integral Pressure Reducing Boiler Feed Valve and Intermediate Atmospheric Vent Style for Domestic and Light Commercial Water Distribution Systems

**ASTM C1173**  
Flexible Transition Couplings for Underground Piping Systems

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

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

**ASTM 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 D2466**

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

**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 D2683**

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

**ASTM D2737**

Polyethylene (PE) Plastic Tubing

**ASTM D2846/D2846M**

Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems

**ASTM D3034**

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

**ASTM D3035**

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

**ASTM D3138**

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

**ASTM D3139**

Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

**ASTM D3212**

Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals

**ASTM D3261**

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

**ASTM 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 F891**

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

**ASTM F894**

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

**ASTM F949**

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

**ASTM F1216**

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

**ASTM F1282**

Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe

**ASTM 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

**AWWA C510**

Double Check-Valve Backflow Prevention Assembly

**AWWA C511**

Reduced-Pressure Principle Backflow Prevention Assembly

**AWWA C900**

Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 in. through 12 in. (100 mm through 300 mm)

**CISPI 310**

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

**CSA A257**

Concrete Pipe and Manhole Sections

**CSA B45.5/IAPMO Z124**

Plastic Plumbing Fixtures

**CSA B45.11/IAPMO Z401**

Glass Plumbing Fixtures

**CSA B45.12/IAPMO Z402**

Aluminum and Copper Plumbing Fixtures

**CSA B458/IAPMO Z403**

Terrazzo, Concrete, Composite Stone, and Natural Stone Plumbing Fixtures

**CSA B64.1.1**

Atmospheric Vacuum Breakers (AVB)

**CSA B64.1.2**

Pressure Vacuum Breakers (PVB)

**CSA B64.2**

Hose Connection Vacuum Breakers (HCVB)

**CSA B64.2.1.1**

Hose Connection Dual Check Vacuum Breakers (HCDVB)

**CSA B64.4**

Reduced Pressure Principle (RP) Backflow Preventers

**CSA B64.4.1**

Reduced Pressure Principle Backflow Preventers for Fire Protection Systems (RPF)

**CSA B64.5**

Double Check Valve (DCVA) Backflow Preventers

**CSA B64.5.1**

Double Check Valve Backflow Preventers for Fire Protection Systems (DCVAF)

**CSA B64.7**

Laboratory Faucet Vacuum Breakers (LFVB)

**CSA B66**

Design, Material, and Manufacturing Requirements for Prefabricated Septic Tanks and Sewage Holding Tanks

**CSA B79**

Commercial and Residential Drains and Cleanouts

**CSA B125.3**

Plumbing Fittings

**CSA B137.1**

Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services

**CSA B137.6**

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

**CSA B137.9**

Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure-Pipe Systems

**CSA B137.11**

Polypropylene (PP-R) Pipe and Fittings for Pressure Applications

**CSA B137.18**

Polyethylene of Raised Temperature Resistance (PE-RT) Tubing Systems 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

**CSA G401**

Corrugated Steel Pipe Products

**CSA LC 1**

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

**CSA LC 4a**

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

**CSA Z21.10.1**

Gas Water Heaters, Volume I, Storage Water Heaters With Input Ratings of 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 Z21.12b**

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 Z21.47**

Gas-Fired Central Furnaces (same as CSA 2.3)

**CSA Z21.56**

Gas-Fired Pool Heaters (same as CSA 4.7)

**CSA Z21.69**

Connectors for Moveable Gas Appliances (same as CSA 6.16)

**CSA Z21.69**

Connectors for Outdoor Gas Appliances and Manufactured Homes (same as CSA 6.27)

**CSA Z21.80a**

Line Pressure Regulators (same as CSA 6.22a)

**CSA Z21.81a**

Cylinder Connection Devices (same as CSA 6.25a)

**CSA Z21.86**

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

**CSA Z21.90**

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

**CSA Z21.93**

Excess Flow Valves for Natural Gas and Propane Gas with Pressures up to 5 psig (same as CSA 6.30)

**CSA Z83.11**

Gas Food Service Equipment (same as CSA 1.8)

**Energy Star 2012 (Version 2.0)**

Program Requirements Product Specification for Commercial Dishwashers

**Energy Star 2016 (Version 6.0)**

Program Requirements for Residential Dishwashers

**Energy Star 2018 (Version 8.0)**

Program Requirements Product specification for Clothes Washers (effective February 5, 2018)

**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 115**

Automatic Water Leak Detection Devices

**IAPMOC IGC 154**

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

**IAPMO PS 23**

Dishwasher Drain Airgaps

**IAPMO PS 50**

Flush Valves with Dual Flush Device For Water Closets or Water Closet Tank with an Integral Flush Valves with a Dual Flush Device

**IAPMO PS 72**

Valves with Atmospheric Vacuum Breakers

**IAPMO PS76**

Trap Primers for Fill Valves and Flushometer Valves

**IAPMO PS 79**

Multiport Electronic Trap Primer

**IAPMO PS 90**

Elastomeric Test Caps, Cleanout Caps, and Combination Test Caps / Shielded Couplings

**IAPMO PS117**

Press and Nail Connections

**IAPMO Z124.5**

Plastic Toilet Seats

**ISEA Z358.1**

Emergency Eyewash and Shower Equipment

**NSF 2**

Food Equipment

**NSF 3**

Commercial Warewashing Equipment

**NSF 4**

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

**NSF 5**

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

**NSF 14**

Plastics Piping System Components and Related Materials

**NSF 18**

Manual Food and Beverage Dispensing Equipment

**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 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

**UL 144**

LP-Gas Regulators

**UL-174**

Household Electric Storage Tank Water Heaters (with revisions through December 15, 2016)

**UL 252**

Compressed Gas Regulators

**UL 296**

Oil Burners

**UL430**

Waste Disposers (with revisions through February 23, 2018)

**UL 441**

Gas Vents

**UL 536**

Flexible Metallic Hose

**UL 569**

Pigtails and Flexible Hose Connectors for LP-Gas

**UL 726**

Oil-Fired Boiler Assemblies

**UL749**

Household Dishwashers

**UL 778**

Motor-Operated Water Pumps

**UL 921**

Commercial Dishwashers (with revisions through September 20, 2017)







**UL 1081**





Swimming Pool Pumps, Filters, and Chlorinators

**UL 2523**

Solid Fuel-Fired Hydronic Heating Appliances, Water Heaters, and Boilers (with revisions through March 16, 2018)

**Certification Marks:**

CSA Mark	Type of Mark/Label	CSA Mark/Label Definition
	Certification mark	Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.
	Certification mark	Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.
	Certification mark	Indicates that the product was tested and has met the certification requirements for gas-fired products.
	Certification mark	Indicates the product was tested and has met low lead content requirements.
	Certification mark	Indicates the product was tested and has met low lead content requirements.
	Certification mark	Indicates that the product was tested and has met the Drinking Water requirements.  Applicable NSF/ANSI and/or CSA Group standard is listed under DRINKING WATER.

	<p>Field certification label</p>	<p>Indicates that the product was tested and has met the certification and regional installation requirements for products.</p>
	<p>Field certification label</p>	<p>Indicates that the product was tested and has met the certification and regional installation requirements for products.</p>
	<p>Field certification label</p>	<p>Indicates that the gas-fired product was tested and met the certification and regional installation requirements for products.</p>
	<p>Field evaluation label</p>	<p>Indicates that the product was tested and has met the all requirements, including the National Fire Protection Association and the National Electric Code for installation and use.</p>

## 4. FM Approvals LLC

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

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

**Expiration: October 1, 2024**

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

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

### Certification Marks:



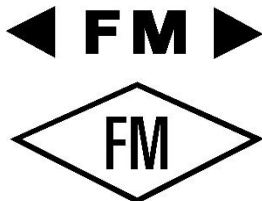
#### **FM Approved Mark**

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



#### **FM Approved Mark with "C" and "US"**

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



#### **FM Approved Cast-On Marks**

Where reproduction of the FM Approved mark described above is impossible because of production restrictions, use of these modified versions of the FM Approved mark is allowed.

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## 5. Home Innovation Research Labs

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

***Expiration: September 1, 2024***

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

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

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

**CSA B45.5/ IAPMO Z124**  
Plastic Plumbing Systems

**IAPMO Z124.8**  
Plastic Liners for Bathtubs and Shower Receptors

**ICC A117.1**  
Accessible and Usable Buildings and Facilities (Chapter 6 Only)

### Certification Marks:

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**Home Innovation**  
LAB CERTIFIED™

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

## 6. International Association of Plumbing and Mechanical Officials Research and Testing (IAPMO R&T)

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

***Expiration: June 1, 2025***

This agency is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2023 Edition:

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

### Plumbing:

#### **AHAM FWD-1**

Food waste disposers

#### **APSP 1**

Public Swimming Pools

#### **ASCE 25**

Earthquake-Actuated Automatic Gas Shutoff Devices

#### **ASME A13.1**

Scheme for the Identification of Piping Systems

#### **ASME A112.1.2**

Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)

#### **ASME A112.1.3**

Air Gap for use with Plumbing Fixtures, Appliances, and Appurtenances

#### **ASME A112.3.1**

Stainless Steel Drainage Systems for Sanitary DWV, Storm and Vacuum Applications, Above and Below Ground

#### **ASME A112.3.4 / CSA B45.9**

Plumbing Fixtures with Pumped Waste and Macerating Toilet System

#### **ASME A112.4.1**

Water Heater Relief Valve Drain Tubes

#### **ASME A112.4.2/ CSA B45.16**

Personal Hygiene Devices for Water Closets

#### **ASME A112.4.3**

Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System

#### **ASME A112.4.14**

Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems

#### **ASME A112.6.1M**

Floor-Affixed Supports for Off-the-Floor Plumbing Fixtures for Public Use

#### **ASME A112.6.2**

Framing-Affixed Supports for Off-the-Floor Water Closets with Concealed Tanks

#### **ASME A112.6.3**

Floor and Trench Drains

#### **ASME A112.6.4**

Roof, Deck, and Balcony Drains

#### **ASME A112.6.7**

Sanitary Floor Sinks

#### **ASME A112.6.9**

Siphonic Roof Drains

#### **ASME A112.14.1**

Backwater Valves

#### **ASME A112.14.3**

Grease Interceptors

#### **ASME A112.14.4**

Grease Removal Devices

#### **ASME A112.14.6**

FOG (Fats, Oils, and Greases) Disposal Systems

#### **ASME A112.18.1/CSA B125.1**

Plumbing Supply Fittings

#### **ASME A112.18.2 / CSA B125.2**

Plumbing Waste Fittings

#### **ASME A112.18.3**

Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings

#### **ASME A112.18.6**

Flexible Water Connectors

#### **ASME A112.18.9**

Protectors/Insulators for Exposed Waste and Supplies on Accessible Fixtures

#### **ASME A112.19.1/CSA B45.2**

Enamelled Cast Iron and Enamelled Steel Plumbing Fixtures

#### **ASME A112.19.2/CSA B45.1**

Ceramic Plumbing Fixtures

#### **ASME A112.19.3/CSA B45.4**

Stainless Steel Plumbing Fixtures

#### **ASME A112.19.5/CSA B45.15**

Flush Valves and Spuds for Water Closets, Urinals and Tanks

#### **ASME A112.19.7 / CSA B45.10**

Hydromassage Bathtub Appliances

**ASME A112.19.10**

Dual Flush Devices for Water Closets

**ASME A112.19.12**

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

**ASME A112.19.14**

Six-Liter Water Closets Equipment with a Dual Flushing Device

**ASME A112.19.15**

Bathtub/ whirlpool bathtubs with pressure sealed doors

**ASME A112.19.19**

Vitreous China Nonwater Urinals

**ASME A112.21.3M**

Hydrants for Utility and Maintenance Use

**ASME A112.36.2M**

Cleanouts

**ASME B1.20.1**

Pipe Threads, General Purpose, Inch

**ASME B1.20.3**

Dryseal Pipe Threads, Inch

**ASME B16.1**

Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250

**ASME B16.3**

Malleable Iron Threaded Fittings: Classes 150 and 300

**ASME B16.4**

Gray Iron Threaded Fittings: Classes 125 and 250

**ASME B16.5**

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

**ASME B16.12**

Cast Iron Threaded Drainage Fittings

**ASME B16.15**

Cast Copper Alloy Threaded Fittings: Classes 125 and 250

**ASME B16.18**

Cast Copper Alloy Solder Joint Pressure Fittings

**ASME B16.20**

Metallic Gaskets For Pipe Flanges: Ring-Joint, Spiral-Wound, and Jacketed

**ASME B16.22**

Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings

**ASME B16.23**

Cast Copper Alloy Solder Joint Drainage Fittings: DWV

**ASME B16.24**

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

**ASME B16.26**

Cast Copper Alloy Fittings for Flared Copper Tubes

**ASME B16.29**

Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings - DWV

**ASME B16.33**

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

**ASME B16.34**

Valves - Flanged, threaded and welding end

**ASME B16.39**

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

**ASME B16.40**

Manually Operated Thermoplastic Gas Shutoffs and Valves in Gas Distribution Systems

**ASME B16.47**

Large Diameter Steel Flanges: NPS 26 through NPS 60 metric/Inch

**ASME B16.50**

Wrought Copper and Copper Alloy Braze-Joint Pressure Fittings

**ASME B31.1**

Power Piping

**ASME B31.3**

Process Piping

**ASME B36.10M**

Welded and Seamless Wrought Steel Pipe

**ASME B36.19**

Stainless Steel Pipe

**ASME BPVC Section IV**

Rules for Construction of Heating Boilers

**ASME BPVC Section VIII**

Rules for Construction of Pressure Vessels Division 1

**ASME BPVC Section IX**

Welding, Brazing and Fusing Qualifications

**ASSE 1001**

Atmospheric Type Vacuum Breakers

**ASSE 1002/ ASME A112.112/ 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 Preventing Requirements for Commercial Dishwashing Machines

**ASSE 1008**

Plumbing Aspects of Residential Food Waste Disposer Units

**ASSE 1010**

Water Hammer Arresters

**ASSE 1011**

Hose-Connection Vacuum Breakers

**ASSE 1012**

Backflow Preventer with Intermediate Atmosphere Vent

**ASSE 1013**

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

**ASSE 1014**

Backflow Prevention Devices for Hand-Held Showers

**ASSE 1015**

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

**ASSE 1016/ASME 112.1016/CSA B125.16**

Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

**ASSE 1017**

Temperature Actuated Mixing Valves for Hot Water Distribution Systems

**ASSE 1018**

Trap Seal Primer Valves- Potable Water Supplied

**ASSE 1019**

Wall Hydrant with Backflow Protection and Freeze Resistance

**ASSE 1020**

Pressure Vacuum Breaker Assembly

**ASSE 1022**

Backflow Preventer for Beverage Dispensing Equipment

**ASSE 1023**

Hot Water Dispensers Household Storage Type-Electrical

**ASSE 1024**

Dual Check Backflow Preventers

**ASSE 1032**

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

**ASSE 1035**

Laboratory Faucet Backflow Preventer

**ASSE 1037/ ASME A112.1037/ CSA B125.37**

Pressurized Flushing Devices (Flushometers) for Plumbing Fixtures

**ASSE 1044**

Trap Seal Primer- Drainage Types and Electric Design Types

**ASSE 1047**

Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies

**ASSE 1048**

Double Check Detector Fire Protection Backflow Prevention Assemblies

**ASSE 1052**

Hose Connection Backflow Preventer

**ASSE 1055**

Chemical Dispensing Systems

**ASSE 1056**

Spill Resistant Vacuum Breakers Assemblies

**ASSE 1057**

Freeze Resistant Sanitary Yard Hydrant with Backflow Protection

**ASSE 1060**

Outdoor Enclosures for Fluid Conveying Components

**ASSE 1061**

Push-Fit Fittings

**ASSE 1062**

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

**ASSE 1066**

Individual Pressure Balancing In-Line Valves for Individual Fixture Fittings

**ASSE 1069**

Automatic Temperature Control Mixing Valves

**ASSE 1070/ ASME A112.1070/ CSA B125.70**

Water Temperature Limiting Devices

**ASSE 1071**

Temperature Actuated Mixing Valves for Plumbed Emergency Equipment

**ASSE 1079**

Dielectric Pipe Unions

**ASSE 1087**

Commercial and Food Service Water Treatment Equipment Utilizing Drinking Water

**ASSE Series 5000**

Cross-Connection Control Professional Qualifications Standard

**ASSE Series 6000**

Professional Qualifications Standard for Medical Gas Systems Personnel

**ASTM A48**

Gray Iron Casting

**ASTM A53/A53M**

Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded, and Seamless

**ASTM A74**

Cast Iron Soil Pipe and Fittings

**ASTM A106/A106M**

Seamless Carbon Steel Pipe for High-Temperature Service

**ASTM A126**

Gray Iron Casting for Valves, Flanges, and Pipe Fittings

**ASTM A254/A254M**

Copper-Brazed Steel Tubing

**ASTM A269/A269M**

Seamless and Welded Austenitic Stainless Steel Tubing for General Service

**ASTM A312/A312M**

Seamless Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes

**ASTM A377**

Ductile-Iron Pressure Pipe

**ASTM A479/A479M**

Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels

**ASTM A536**

Ductile Iron Castings

**ASTM A733**

Welded and Seamless Carbon Steel and Austenitic Stainless Steel Nipples

**ASTM A861**

High-Silicon Iron Pipe and Fittings

**ASTM A888**

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

**ASTM A1045**

Flexible Poly (Vinyl Chloride) (PVC) Gaskets used in Connection of Vitreous China Plumbing Fixtures to Sanitary Drainage Systems

**ASTM A1056**

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

**ASTM B29**

Refined Lead

**ASTM B32**

Solder Metal

**ASTM B42**

Seamless Copper Pipe, Standard Sizes

**ASTM B43**

Seamless Red Brass Pipe, Standards Sizes

**ASTM B75/B75M**

Seamless Copper Tube

**ASTM B88**

Seamless Copper Water Tube

**ASTM B135**

Seamless Brass Tube

**ASTM B152/B152M**

Copper Sheet, Strip, Plate, and Rolled Bar

**ASTM B210**

Aluminum and Aluminum-Alloy Drawn Seamless Tubes

**ASTM B241/B241M**

Aluminum and Aluminum-Alloy Drawn Seamless Pipe and Seamless Extruded Tube

**ASTM B251**

General Requirements for Wrought Seamless Copper and Copper-Alloy Tube

**ASTM B280**

Seamless Copper Tube for Air Conditioning and Refrigeration Field Service

**ASTM B302**

Threadless Copper Pipe, Standard Sizes

**ASTM B306**

Copper Drainage Tube (DWV)

**ASTM B370**

Standard Specification for Copper Sheet and Strip for Building Construction

**ASTM B447**

Welded Copper Tube

**ASTM B587**

Welded Brass Tube

**ASTM B687**

Brass, Copper, and Chromium-Plated Pipe Nipples

**ASTM B813**

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

**ASTM B819**

Seamless Copper Tube for Medical Gas Systems

**ASTM B828**

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

**ASTM C4**

Clay Drain Tile and Perforated Clay Drain Tile

**ASTM C14**

Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe

**ASTM C412**

Concrete Drain Tile

**ASTM C425**

Compression Joints for Vitrified Clay Pipe and Fittings

**ASTM C443**

Joints for Concrete Pipe and Manholes, Using Rubber Gaskets

**ASTM C444**

Perforated Concrete Pipe

**ASTM C478**

Precast Reinforced Concrete Manhole Sections

**ASTM C564**

Rubber Gaskets for Cast Iron Soil Pipe and Fittings

**ASTM C700**

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

**ASTM C1053**

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

**ASTM C1173**

Flexible Transition Couplings for Underground Piping Systems

**ASTM C1227**

Precast Concrete Septic Tanks

**ASTM C1277**

Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings

**ASTM C1440**

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

**ASTM C1460**

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

**ASTM C1461**

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

**ASTM C1540**

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

**ASTM D1784**

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

**ASTM D1785**

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

**ASTM D2235**

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

**ASTM D2239**

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

**ASTM D2241**

Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe

**ASTM D2321**

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

**ASTM D2464**

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

**ASTM D2466**

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

**ASTM D2467**

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

**ASTM D2513**

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

**ASTM D2517**

Reinforced Epoxy Resin Gas Pressure Pipe and Fittings

**ASTM D2564**

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

**ASTM D2609**

Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe

**ASTM D2657**

Heat Fusion Joining of Polyolefin Pipe and Fittings

**ASTM D2661**

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

**ASTM D2665**

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

**ASTM D2672**

Joints for IPS PVC Pipe Using Solvent Cement

**ASTM D2680**

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

**ASTM D2683**

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

**ASTM D2729**

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

**ASTM D2737**

Polyethylene (PE) Plastic Tubing

**ASTM D2774**

Underground Installation of Thermoplastic Pressure Piping

**ASTM D2855**

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

**ASTM D3034**

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

**ASTM D3035**

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

**ASTM D3122**

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

**ASTM D3138**

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

**ASTM D3139**

Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

**ASTM D3212**

Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals

**ASTM D3261**

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

**ASTM D3311**

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

**ASTM D4068**

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

**ASTM D4551**

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

**ASTM E84**

Surface Burning Characteristics of Building Materials

**ASTM E119**

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**ASTM E814**

Fire Tests of Penetration Firestop Systems

**ASTM F402**

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

**ASTM F409**

Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings

**ASTM F437**

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

**ASTM F438**

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

**ASTM F439**

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

**ASTM F446**

Grab Bars and Accessories Installed in the Bathing Area

**ASTM F480**

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

**ASTM F493**

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

**ASTM F628**

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

**ASTM F656**

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

**ASTM F667**

3 through 24in. Corrugated Polyethylene Tubing and Fittings

**ASTM F714**

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

**ASTM F794**

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

**ASTM F810**

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

**ASTM F891**

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

**ASTM F894**

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

**ASTM F949**

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

**ASTM F1055**

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

**ASTM F1216**

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

**ASTM F1336**

Poly (Vinyl Chloride) (PVC) Gasketed Sewer Fittings

**ASTM F1412**

Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

**ASTM F1476**

Performance of Gasketed Mechanical Couplings for Use in Piping Applications

**ASTM F1488**

Coextruded Composite Pipe

**ASTM F1499**

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

**ASTM F1673**

Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems

**ASTM F1743**

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

**ASTM F1866**

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

**ASTM F1924**

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

**ASTM F1948**

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

**ASTM F1970**

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

**ASTM F1973**

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

**ASTM F1974**

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

**ASTM F1986**

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

**ASTM F2165**

Flexible Pre-Insulated Piping

**ASTM F2206**

Fabricated Fittings of Butt-Fused Polyethylene (PE)

**ASTM F2306/F2306M**

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

**ASTM F2509**

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

**ASTM F2831**

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

**AWS A5.8**

Filler Metals for Brazing and Braze Welding

**AWS B2.2**

Brazing Procedure and Performance Qualification

**AWS B2.4**

Welding Procedure and Performance Qualification for Thermoplastic

**AWWA C110**

Ductile-Iron and Gray-Iron Fittings

**AWWA C111**

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

**AWWA C151**

Ductile-Iron Pipe, Centrifugally Cast

**AWWA C153**

Ductile-Iron Compact Fittings

**AWWA C203**

Coal-Tar Protective Coatings and Linings for Steel Water Pipe

**AWWA C210**

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

**AWWA C213**

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

**AWWA C215**

Extruded Polyolefin Coatings for Steel Water Pipe

**AWWA C500**

Metal Seated Service Gate Valves for Water Supply Service

**AWWA C504**

Rubber Seated Butterfly Valves

**AWWA C507**

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

**AWWA C510**

Double Check Valve Backflow Prevention Assembly

**AWWA C511**

Reduced Pressure Principle Backflow Prevention Assembly

**AWWA C606**

Grooved and Shouldered Joints

**AWWA C900**

Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 in. through 12 in. (100 mm through 300 mm)

**AWWA C901**

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

**AWWA C907**

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

**CGA C-9**

Standard Color Marking of Compressed Gas Containers for Medical use

**CGA G-4.1**

Cleaning Equipment for Oxygen Service

**CGA S-1.3**

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

**CGA V-1**

Compressed Gas Cylinder Valve Outlet and Inlet Connections

**CISPI 301**

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

**CISPI 310**

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

**CSA A257**

Concrete Pipe and Manhole Sections

**CSA B45.5/IAPMO Z124**

Plastic Plumbing Fixtures

**CSA B45.11/IAPMO Z401**

Glass Plumbing Fixtures

**CSA B64.1.1**

Atmospheric Vacuum Breakers (AVB)

**CSA B64.1.2**

Pressure Vacuum Breakers (PVB)

**CSA B64.2**

Hose Connection Vacuum Breakers (HCVB)

**CSA B64.2.1.1**

Hose Connection Dual Vacuum Breakers (HCDVB)

**CSA B64.4**

Reduced Pressure Principle (RP) Backflow Preventers

**CSA B64.4.1**

Reduced Pressure Principle Backflow Preventers for Fire Protection Systems (RPF)

**CSA B64.5**

Double Check Valve (DCVA) Backflow Preventers

**CSA B64.5.1**

Double Check Valve Backflow Preventers for Fire Protection Systems (DVCAF)

**CSA B64.7**

Laboratory Faucet Vacuum Breakers (LFVB)

**CSA B79**

Commercial and Residential Drains and Cleanouts

**CSA B125.3**

Plumbing Fittings

**CSA B137.1**

Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services

**CSA B181.3**

Polyolefin and Polyvinylidene Fluoride (PVDF) Laboratory Drainage Systems

**CSA B242**

Grooved-and Shouldered-Type Mechanical Pipe Couplings

**CSA B356**

Water Pressure Reducing Valves for Domestic Water Supply Systems

**CSA B481**

Grease Interceptors

**CSA G401**

Corrugated Steel Pipe Products

**CSA LC 1**

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

**CSA LC 4a**

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

**CSA Z21.10.1**

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

**CSA Z21.10.3**

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

**CSA Z21.12b**

Draft Hoods

**CSA Z21.13**

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

**CSA Z21.15b**

Manually Operated Gas Valves for Appliances, Appliance Connector Valves, and Hose End Valves

**CSA Z21.22**

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

**CSA Z21.24**

Connectors for Gas Appliances (same as CSA 6.10)



**CSA Z21.41**

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

**CSA Z21.54**

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

**CSA Z21.56**

Gas-Fired Pool Heaters (same as CSA 4.7)

**CSA Z21.69**

Connectors for Movable Gas Appliances (same as CSA 6.16)

**CSA Z21.80a**

Line Pressure Regulators (same as CSA 6.22a)

**CSA Z21.86**

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

**CSA Z83.11**

Gas Food Service Equipment (same as 1.8)

**CSA Z317.1**

Special Requirements for Plumbing Installations in Health Care Facilities

**Energy Star – 2007**

Program Requirement for Commercial Dishwashers

**EPA Watersense – 2007**

High-Efficiency Lavatory Faucet Specification

**EPA Watersense – 2009**

Specification for Flushing Urinals

**EPA Watersense – 2014**

Specification for Tank-Type Toilets

**IAPMO IGC 154**

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

**IAPMO IGC 193**

Safety Plates, Plate Straps, Notched Plates and Safety Collars

**IAPMO IGC 226**

Drinking Water Fountains With or Without Chiller or Heater

**IAPMO IGC 322**

Alkaline Water – Drinking Water Treatment Units

**IAPMO PS 23**

Dishwasher Drain Airgaps

**IAPMO PS 25**

Metallic Fittings for Joining Polyethylene Pipe for Water Service and Yard Piping

**IAPMO PS 34**

Encasement Sleeve for Portable Water Pipe and Tube

**IAPMO PS 36**

Lead-Free Sealing Compounds for Threaded Joints

**IAPMO PS 37**

Black Plastic PVC or PE Pressure-Sensitive Corrosion Preventive Tape

**IAPMO PS 42**

Pipe Alignment and Secondary Support Systems

**IAPMO PS 50**

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

**IAPMO PS 51**

Expansion Joints and Flexible Expansion Joints for DWV Piping Systems

**IAPMO PS 52**

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

**IAPMO PS 53**

Grooved Mechanical Pipe Couplings and Grooved Fittings

**IAPMO PS 54**

Metallic and Plastic Utility Boxes

**IAPMO PS 57**

PVC Hydraulically Actuated Diaphragm Type Water Control Valves

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Plastic Leaching Chambers

**IAPMO PS 64**

Roof Pipe Flashings

**IAPMO PS 65**

Airgap Units for Water Conditioning Equipment Installation

**IAPMO PS 67**

Early-Closure Replacement Flappers or Early-Closure Replacement Flapper with Mechanical Assemblies

**IAPMO PS 69**

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**IAPMO PS 73**

Dental Liquid-Ring Vacuum Pumps

**IAPMO PS 76**

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**IAPMO PS 79**

Multiport Electronic Trap Primer

**IAPMO PS 80**

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**IAPMO PS 81**

Precast Concrete Seepage Pit Liners and Covers

**IAPMO PS 82**

Fiberglass (Glass Fiber Reinforced Thermosetting Resin) Fittings

**IAPMO PS 85**

Tools for Mechanically Formed Tee Connections in Copper Tubing

**IAPMO PS 86**

Rainwater Diverter Valve for Non-Roofed Area Slabs

**IAPMO PS 87**

Diverter and Shut-Off Valves for Pool/Spas

**IAPMO PS 89**

Soaking and Hydrotherapy (Whirlpool) Bathtubs with Hydraulic Seatlift

**IAPMO PS 90**

Elastomeric Test Caps/Cleanout Caps and Combination Test Caps/Shielded Couplings

**IAPMO PS 91**

Plastic Stabilizer for Use with Plastic Closet Bends

**IAPMO PS 92**

Heat Exchangers and Indirect Water Heaters

**IAPMO PS 94**

Insulated Protectors for P-Traps, Supply Stops and Risers

**IAPMO PS 95**

Drain, Waste, and Vent Hangers and Plastic Pipe Support Hooks

**IAPMO PS 98**

Prefabricated Fiberglass Church Baptisteries

**IAPMO PS 100**

Porous Filter Protector for Sub-Drain Weep Holes

**IAPMO PS 101**

Suction Relief Valves

**IAPMO PS 104**

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**IAPMO PS 105**

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**IAPMO PS 106**

Tileable Shower Receptors and Shower Kits

**IAPMO PS 110**

PVC Cold Water Compression Fittings

**IAPMO PS 111**

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**IAPMO PS 112**

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

**IAPMO PS 113**

Hydraulically Powered Household Food Waste Disposers

**IAPMO PS 115**

Hot Water On-Demand or Automatic Activated Hot Water Pumping Systems

**IAPMO Z124.5**

Plastic Toilet Seats

**IAPMO Z124.7**

Prefabricated Plastic Spa Shells

**IAPMO Z124.8**

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**IAPMO Z601**

Scale Reduction Devices

**IAPMO Z1000**

Prefabricated Septic Tanks

**IAPMO Z1001**

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**IAPMO Z1033**

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

**ICC A117.1**

Accessible and Usable Buildings and Facilities

**ISEA Z358.1**

Emergency Eyewash and Shower Equipment

**MSS SP-6**

Standard Finishes for Contact Faces of Pipe Flanges and Connecting-End Flanges of Valves and Fittings

**MSS SP-25**

Marking Systems for Valves, Fittings, Flanges, and Unions

**MSS SP-42**

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

**MSS SP-44**

Steel Pipeline Flanges

**MSS SP-58**

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

**MSS SP-67**

Butterfly Valves

**MSS SP-70**

Gray Iron Gate Valves, Flanged and Threaded Ends

**MSS SP-71**

Gray Iron Swing Check Valves, Flanged and Threaded Ends

**MSS SP-72**

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

**MSS SP-78**

Cast Iron Plug Valves, Flanged and Threaded Ends

**MSS SP-80**

Bronze gate, Globe, Angle, and Check Valves

**MSS SP-83**

Class 3000 and 6000 Pipe Unions, Socket-Welding and Threaded (Carbon Steel, Alloy Steel, Stainless Steel, 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**

Plastics Piping System Components and Related Materials

**NSF 18**

Manual Food and Beverage Dispensing Equipment

**NSF 29**

Detergent and Chemical Feeders for Commercial Spray-Type Dishwashing Machines

**NSF 40**

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**NSF 42**

Drinking Water Treatment Units-Aesthetic Effects

**NSF 44**

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**NSF 46**

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**NSF 53**

Drinking Water Treatment Unit-Health Effects

**NSF 55**

Ultraviolet Microbiological Water Treatment Systems

**NSF 58**

Reverse Osmosis Drinking Water Treatment Systems

**NSF 61**

Drinking Water System Components - Health Effects

**NSF 62**

Drinking Water Distillation Systems

**NSF 169**

Special Purpose Food Equipment and Devices

**NSF 350**

Onsite Residential and Commercial Water Reuse Treatment Systems.

**PDI G-101**

Testing and Rating Procedure for Hydro Mechanical Grease Interceptors with Appendix of Installation and Maintenance

**PDI G-102**

Testing and Certification for Grease Interceptors with FOG Sensing and Alarm Devices

**PDI WH 201**

Water Hammer Arresters

**PSAI Z4.1**

For Sanitation - In Places of Employment - Minimum Requirements

**SAE J512**

Automotive Tube Fittings

**SAE J1670**

Type "F" Clamps for Plumbing Applications

**TCNA A118.10**

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

**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 Test of Building Construction and Materials

**UL 296**

Oil Burners

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**UL 399**

Drinking Water Coolers

**UL 404**

Gauges, Indicating Pressure, for Compressed Gas Services

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Flexible Metallic Hose

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Pigtails and Flexible Hose Connectors for LP-Gas

**UL 651**

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

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Test for Surface Burning Characteristics of Building Materials

**UL 726**

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Oil-Fired Storage Tank Water Heaters

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Household Dishwashers

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Medium Heat Appliances Factory-Built Chimneys

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Swimming Pool Pumps, Filters, and Chlorinators

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Electric Plumbing Accessories

### Mechanical Standards:

**AMCA 500-D**  
Laboratory Methods of Testing  
Dampers for Ratings

**AMCA 540**  
Louvers Impacted by Wind Borne  
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**AMCA 550**  
Test Method for High Velocity Wind  
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**ASCE 25**  
Earthquake-Actuated Automatic Gas  
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**ASHRAE 52.2**  
General Ventilation Air Cleaning  
Devices for Removal Efficiency by  
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**ASME A13.1**  
Scheme for the Identification of Piping  
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**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

**UL 2157**  
Electric Clothes Washing Machines  
and Extractors

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

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

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

**ASME B16.9**  
Factory-Made Wrought Buttwelding  
Fittings

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

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

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

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

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

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

**ASME B16.24**  
Cast Copper Alloy Pipe Flanges and  
Flanged Fittings: Classes 150, 300,  
600, 900, 1500, and 2500

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

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

**ASME B16.33**  
Manually Operated Metallic Gas  
Valves for use in Gas Piping Systems  
up to 175 psi (Sizes NPS ½- NPS 2)

**ASME B16.50**  
Wrought Copper and Copper Alloy  
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 I**  
Rules for Construction of Power  
Boilers

**ASME BPVC Section IV**  
Rules for Construction of Heating  
Boilers

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

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

**ASTM A53/A53 M**

Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded, And Seamless

**ASTM A106 / A106M**

Seamless Carbon Steel Pipe for High-Temperature Service

**ASTM A126**

Gray Iron Castings for Valves, Flanges, and Pipe Fittings

**ASTM A254/ A254M**

Copper-Brazed Steel Tubing

**ASTM A312/ A312M**

Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes

**ASTM A420 / A420M**

Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low-Temperature Service

**ASTM A568/ A568M**

Steel, Sheet, Carbon, Structural, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled

**ASTM A653 / A653M**

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

**ASTM A733**

Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples

**ASTM B32**

Solder Metal

**ASTM B42**

Seamless Copper Pipe, Standard Sizes

**ASTM B43**

Seamless Red Brass Pipe, Standard Sizes

**ASTM B75**

Seamless Copper Tube

**ASTM B88**

Seamless Copper Water Tube

**ASTM B135**

Seamless Brass Tube

**ASTM B210**

Aluminum and Aluminum-Alloy Drawn Seamless Tubes

**ASTM B241/A241M**

Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube

**ASTM B251**

General Requirements for Wrought Seamless Copper and Copper-Alloy Tube

**ASTM B280**

Seamless Copper Tube for Air Conditioning and Refrigeration Field Service

**ASTM B302**

Threadless Copper Pipe, Standard Sizes

**ASTM 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 of Copper and Copper Alloy Tube

**ASTM B828**

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

**ASTM C315**

Clay Flue Liners and Chimney Pots

**ASTM C411**

Hot Surface Performance of High-Temperature Thermal Insulation

**ASTM D396**

Fuel Oils

**ASTM D1693**

Environmental Stress-Cracking of Ethylene Plastics

**ASTM D1785**

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

**ASTM D2241**

Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe

**ASTM D2464**

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

**ASTM D2466**

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

**ASTM D2467**

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

**ASTM D2513**

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

**ASTM D2517**

Reinforced Epoxy Resin Gas Pressure Pipe and Fittings

**ASTM D2609**

Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe

**ASTM D2683**

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

**ASTM D3035**

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

**ASTM D3261**

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

**ASTM D3350**

Polyethylene Plastics Pipe and Fittings Materials

**ASTM E84**

Surface Burning Characteristics of Building Materials

**ASTM E96**

Water Vapor Transmission of Materials

**ASTM 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 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 SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Tubing

**ASTM F2509**

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

**AWS A5.8/ A5.8M**

Filler Metals for Brazing and Braze Welding

**AWS B2.4**

Welding Procedures and Performance Qualifications for Thermoplastics

**AWWA C110**

Ductile-Iron and Gray-Iron Fittings

**AWWA C115**

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

**AWWA C151**

Ductile-Iron Pipe, Centrifugally Cast

**AWWA C153**

Ductile-Iron Compact Fittings

**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 Z21.69**

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 Z83.4**

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

**CSA Z83.8**

Gas Unit Heaters, Gas Package 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 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 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 429**

Electrically Operated Valves

**UL 441**

Gas Vents

**UL 443**

Steel Auxiliary Tanks for Oil-Burner  
Fuel

**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 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 1453**

Electric Booster and Commercial Storage Tank Water Heaters

**UL 1479**

Fire Tests of Through-Penetration FireStops

**UL 1482**

Solid-Fuel Type Room Heaters

**UL 1746**

External Corrosion Protection Systems for Steel Underground Storage Tanks

**UL 1777**

Chimney Liners

**UL 1812**

Ducted Heat Recovery Ventilators

**UL 1815**

Nonducted Heat Recovery Ventilators

**UL 1820**

Fire Test of Pneumatic Tubing for Flame and Smoke Characteristics

**UL 1887**

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

**UL 1963**

Refrigerant Recovery/Recycling Equipment

**UL 1978**

Grease Ducts

**UL 1995**

Heating and Cooling Equipment

**UL 2021**

Fixed and Location-Dedicated Electric Room Heaters

**UL 2043**

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

**UL 2200**

Stationary Engine Generator Assemblies

**UL 2221**

Tests of Fire Resistive Grease Duct Enclosure Assemblies

## Certification Marks:

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### **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.

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### **UMC®**

Uniform Mechanical Code Certification Marks

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

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### **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*).

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### **USEC®**

Uniform Solar Energy Code Certification Marks

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

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### **IAPMO R&T Mark**

This marking indicates that the product has been tested and complies with the product's specifications or legislative standard.

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**LOW-LEAD**



### **IAPMO R&T Low Lead Mark**

This marking indicates that the product has been tested and found to comply with the low-lead requirements for drinking water system components

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## 7. ICC Evaluation Service, LLC

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

***Expiration: July 1, 2024***

This agency is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2023 Edition:

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

### Mechanical Standards

**AHRI 700**

Specification for 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

**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 through NPS 2)

**ASME B16.50**

Wrought Copper and Copper Alloy Braze-Joint Pressure Fittings

**ASME B31.5**

Refrigeration Piping and Heat Transfer Components

**ASME B36.10M**

Welded and Seamless Wrought Steel Pipe

**ASME BPVC Section 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 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**

Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus

**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 SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

**ASTM F1960**

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

**ASTM F1970**

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

**ASTM F1973**

Factory Assembled Anodeless Risers and Transition 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 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 Braze Welding

**AWS B2.4**

Welding Procedure and Performance Qualification for Thermoplastics

**AWWA C110**

Ductile-Iron and Gray-Iron Fittings

**AWWA C151**

Ductile-Iron Pipe, Centrifugally Cast

**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 Z21.19**

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**

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 Decorative 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 Z21.61**

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 Pilot 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 Heating and Forced Ventilation Appliances for Commercial and Industrial Applications (same as CSA 3.7)

**CSA Z83.8**

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

**CSA Z83.11**

Gas Food Service Equipment (same as CSA 1.8)

**CSA Z83.18**

Recirculating Direct Gas-Fired Heating and Forced Ventilation Appliances for Commercial and Industrial Applications

**CSA Z83.19**

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

**CSA Z83.20b**

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

**IAPMO PS 120**

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

**IIAR 2**

Standard for Safe Design of Closed-Circuit Ammonia Refrigerating 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

**SAE J512**

Automotive Tube Fittings

**SMACNA-2003**

Fibrous Glass Duct Construction Standard, 7th Edition

**SMACNA-2017**

HVAC Duct Construction Standards Metal and Flexible, 4th Edition

**UL 17**

Vent or Chimney Connector Dampers for Oil-Fired Appliances

**UL 21**

LP-Gas Hose

**UL 33**

Heat Responsive Links for Fire-Protection Service

**UL 51**

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

**UL 80**

Steel Tanks for Oil-Burner 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**

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

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Closure Systems for Use with Rigid Air Ducts

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**UL 555**

Fire Dampers

**UL 555C**

Ceiling Dampers

**UL 555S**

Smoke Dampers

**UL 565**

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

**UL 569**

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Type L Low-Temperature Venting Systems

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Oil-Fired Wall Furnaces

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Oil-Fired Storage Tank Water Heaters

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Commercial-Industrial Gas Heating Equipment

**UL 834**  
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**UL 842**  
Valves for Flammable Fluids

**UL 858**  
Household Electric Ranges

**UL 867**  
Electrostatic Air Cleaners

**UL 896**  
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## Plumbing Standards

**AHAM FWD-1**  
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**APSP 1/ ICC 1**  
Public Swimming Pools

**ASCE 25**  
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Scheme for the Identification of Piping Systems

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

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

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

**ASME A112.4.1**  
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**ASME A112.6.1M**  
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Cast Iron Threaded Drainage Fittings

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**ASME B16.21**

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**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, and Valves: Classes 150, 300, 600, 900, 1500 and 2500

**ASME B16.26**

Cast Copper Alloy Fittings for Flared Copper Tubes

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Wrought Copper and Wrought Copper Alloy Solder-Joint Drainage Fittings - DWV

**ASME B16.33**

Manually Operated Metallic Gas Valves for Use in Gas Piping Systems up to 175 psi (Sizes NPS ½ through NPS 2)

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Atmospheric-Type Vacuum Breakers

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Anti-Siphon Fill Valves for Water Closet Tanks

**ASSE 1003**

Water Pressure Reducing Valves for Domestic Water Distribution Systems

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Cast Iron Soil Pipe and Fittings

**ASTM A126**

Gray Iron Castings for Valves, Flanges, and Pipe Fittings

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Seamless and Welded Austenitic Stainless Steel Tubing for General Service

**ASTM A312 / A312M**

Seamless, Welded and Heavily Cold Worked Austenitic Stainless Steel Pipes

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**ASTM A479 / A479M**

Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels

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**ASTM A733**

Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples

**ASTM A861**

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

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Seamless Copper Pipe, Standard Sizes

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**ASTM B251**

General Requirements for Wrought Seamless Copper and Copper-Alloy Tube

**ASTM B280**

Seamless Copper Tube for Air Conditioning and Refrigeration Field Service

**ASTM B302**

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**ASTM B306**

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**ASTM B370**

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**ASTM B447**

Welded Copper Tube

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Brass, Copper, and Chromium-Plated Pipe Nipples

**ASTM B813**

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

**ASTM B819**

Seamless Copper Tube for Medical Gas Systems

**ASTM B828**

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

**ASTM C14**

Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe

**ASTM C412**

Concrete Drain Tile

**ASTM C425**

Compression Joints for Vitrified Clay Pipe and Fittings

**ASTM C443**

Joints for Concrete Pipe and Manholes, Using Rubber Gaskets

**ASTM C478**

Circular Precast Reinforced Concrete Manhole Sections

**ASTM C564**

Rubber Gaskets for Cast Iron Soil Pipe and Fittings

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

**ASTM C1053**

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

**ASTM C1173**

Flexible Transition Couplings for Underground Piping Systems

**ASTM C1227**

Precast Concrete Septic Tanks

**ASTM C1277**

Shielded Couplings Joining Hubless Cast Iron Soil Pipe & Fittings

**ASTM C1440**

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

**ASTM C1460**

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

**ASTM C1461**

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

**ASTM C1540**

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

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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**

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

**ASTM D2466**

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**ASTM D2513**

Polyethylene (PE) Gas Pressure Pipe Tubing and Fittings

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**ASTM D2564**

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

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**ASTM D2657**

Heat Fusion Joining of Polyolefin Pipe Fittings

**ASTM D 2661**

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

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

**ASTM D2672**

Joints for IPS PVC Pipe Using Solvent Cement

**ASTM D2680**

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

**ASTM D2683**

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

**ASTM D2729**

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

**ASTM D2737**

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**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

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**ASTM D3261**

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

**ASTM D3311**

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**ASTM D4068**

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

**ASTM D4551**

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**ASTM E119**

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

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

**ASTM F480**

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

**ASTM F493**

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

**ASTM F628**

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

**ASTM F656**

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

**ASTM F667**

3 through 24 in. Corrugated Polyethylene Pipe and Fittings

**ASTM F714**

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

**ASTM F794**

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

**ASTM F810**

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

**ASTM F891**

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

**ASTM F894**

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

**ASTM F949**

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

**ASTM F1055**

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

**ASTM F1216**

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

**ASTM F1336**

Poly (Vinyl Chloride) (PVC) Gasketed Sewer Fittings

**ASTM F1412**

Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

**ASTM F1476**

Performance of Gasketed Mechanical Couplings for Use in Piping Applications

**ASTM F1488**

Coextruded Composite Pipe

**ASTM F1499**

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

**ASTM F1673**

Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems

**ASTM F1743**

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

**ASTM F1807**

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

**ASTM F1866**

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

**ASTM F1924**

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

**ASTM F1948**

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

**ASTM F1960**

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

**ASTM F1970**

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

**ASTM 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

**ASTM F2509**

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

**ASTM F2831**

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

**AWS A5.8 / A5.8**

Filler Metals for Brazing and Braze Welding

**AWS B2.2**

Brazing Procedure and Performance Qualification

**AWS B2.4**

Welding Procedure and Performance Qualification for Thermoplastics

**AWWA C110**

Ductile-Iron and Gray-Iron Fittings

**AWWA C111**

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

**AWWA C151**

Ductile-Iron Pipe, Centrifugally Cast

**AWWA C153**

Ductile-Iron Compact Fittings

**AWWA C203**

Coal-Tar Protective Coatings and Linings for Steel Water Pipe

**AWWA C213**

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

**AWWA C215**

Extruded Polyolefin Coatings for Steel Water Pipe

**AWWA C500**

Metal-Seated 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)

**AWWA C901**

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

**AWWA C907**

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

**CGA S-1.3**

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

**CGA V-1**

Compressed Gas Cylinder Valve Outlet and Inlet Connections

**CISPI 301**

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

**CISPI 310**

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

**CSA A257**

Concrete Pipe and Manhole Sections

**CSA B45.5 / IAPMO Z124**

Plastic Plumbing Fixtures

**CSA B45.8/IAPMO Z403**

Terrazzo, Concrete, Composite Stone and Natural Stone 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 (DVCA) Backflow Preventers

**CSA B64.5.1**

Double Check Valve Backflow Preventers for Fire Protection Systems (DVCAF)

**CSA B64.7**

Laboratory Faucet Vacuum Breakers (LFVB)

**CSA B79**

Commercial and Residential Drains and Cleanouts

**CSA B125.3**

Plumbing Fittings

**CSA B128.1/ CSA B128.2**

Design and Installation of Non-Potable Water Systems/Maintenance and Field Testing of Non-Potable Water Systems

**CSA B137.1**

Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services

**CSA B181.3**

Polyolefin and Polyvinylidene Fluoride (PVDF) Laboratory Drainage Systems

**CSA B242**

Groove- and Shoulder- Type Mechanical Pipe Couplings

**CSA B356**

Water Pressure Reducing Valves for Domestic Water Supply Systems

**CSA G401**

Corrugated Steel Pipe Products

**CSA LC 1**

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

**CSA LC 4a**

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

**CSA Z21.10.1**

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

**CSA Z21.10.3**

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

**CSA Z21.12b**

Draft Hoods

**CSA Z21.13**

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

**CSA Z21.15b**

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

**CSA Z21.22**

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 Z21.69**

Connectors for Movable 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)

**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 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**

Pipe Support Hangers and 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

**ICC A117.1**

Accessible and Usable Buildings and Facilities

**ISEA Z358.1**

Emergency Eyewash and Shower Equipment

**MSS SP-25**

Standard 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:



This mark indicates that the product is listed under the Evaluation Service (ES) Program, and a technical evaluation for code compliance has been performed on the product, and the product has been found to comply with applicable codes and standards indicated in the report.



This mark indicates that the product is listed under the PMG Listing Program, which certifies products in the areas of plumbing, mechanical and fuel gas. While most listing programs only verify that products adhere to standards, the ICC-ES program provides comprehensive coverage of both codes and standards.



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This mark indicates that the product is listed under the PMG Listing Program, which certifies products in the areas of plumbing, mechanical and fuel gas, and meets the requirements of the Uniform Plumbing Code (UPC).

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This mark indicates that the product is listed under the PMG Listing Program, which certifies products in the areas of plumbing, mechanical and fuel gas, and meets the low-lead requirements for drinking water system components.

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This mark indicates that the product is listed under the PMG Listing Program, which certifies products in the areas of plumbing, mechanical and fuel gas, and meets the low-lead requirements for drinking water system components.

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This mark indicates that the product is listed under the PMG Listing Program, which certifies products in the areas of plumbing, mechanical and fuel gas, and meets the Uniform Solar Energy Code (USEC).

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## 8. 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  
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(Branch Lab)  
1500 Brigantine Drive  
Coquitlam, BC V3K 7C1, Canada  
Phone: (604) 520-3321

(Branch Lab)  
8431 Murphy Drive  
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(Branch Lab)  
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(Branch Lab)  
3933 US Route 11  
Cortland, NY 13045  
Phone: (607) 753-6711

### ***Expiration: June 1, 2025***

This agency branch is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2023 Edition:

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

#### Plumbing Standards:

**AHAM FDW-1**  
Food Waste Disposers

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

**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**  
Retrofit Dual Flush Devices for Water Closets

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

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

**ASSE 1001**  
Atmospheric Type Vacuum Breakers

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

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

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

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

**ASTM A74**  
Cast Iron Soil Pipe and Fittings

**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 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 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 B45.11/ 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 Z21.69**

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 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

**ASTM E2336**

Fire Resistive Grease Duct Enclosure 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 Z21.5.2**

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

**CSA Z21.10.1**

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

**CSA Z21.10.3**

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

**CSA Z21.11.2**

Gas-Fired Room Heaters, Volume II, Unvented Room Heaters

**CSA Z21.12b**

Draft Hoods

**CSA Z21.13**

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

**CSA Z21.15b**

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

**CSA Z21.17a**

Domestic Gas Conversion Burners (same as CSA 2.7a)

**CSA Z21.18b**

Gas Appliance Pressure Regulators (same as CSA 6.3b)

**CSA Z21.21**

Automatic Valves for Gas Appliances (same as CSA 6.5)

**CSA Z21.22**

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

**CSA Z21.24**

Connectors for Gas Appliances (same as CSA 6.10)

**CSA Z21.40.1a/CGA 2.91a**

Gas-Fired, Heat Activated Air-Conditioning and Heat Pump Appliances

**CSA Z21.41**

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

**CSA Z21.42**

Gas-Fired Illuminating Appliances

**CSA Z21.47**

Gas-Fired Central Furnaces (same as CSA 2.3)

**CSA Z21.50**

Vented Decorative 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 Heating and Forced Ventilation Appliances for Commercial and Industrial Application (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 Heating and Forced Ventilation Appliances for Commercial and Industrial Applications

**CSA Z83.19**

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

**CSA Z83.20**

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

**UL 103**

Factory-Built Chimneys for Residential Type and Building Heating Appliances

**UL 125**

Flow Control Valves for Anhydrous Ammonia and LP-Gas

**UL 127**

Factory-Built Fireplaces

**UL 132**

Safety Relief Valves for Anhydrous Ammonia and LP-Gas

**UL 144**

LP-Gas Regulators

**UL 181**

Factory-Made Air Ducts and Air Connectors

**UL 197**

Commercial Electric Cooking Appliances

**UL 252**

Compressed Gas Regulators

**UL 268A**  
Smoke Detectors for Duct Applications

**UL 296**  
Oil Burners

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

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

**UL 378**  
Draft Equipment

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

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

**UL 412**  
Refrigeration Unit Coolers

**UL 429**  
Electrically Operated Valves

**UL 441**  
Gas Vents

**UL 471**  
Commercial Refrigerators and Freezers

**UL 555**  
Fire Dampers

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

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

**UL 710**  
Exhaust Hoods for Commercial Cooking Equipment

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

**UL 726**  
Oil-Fired Boiler Assemblies

**UL 727**  
Oil-Fired Central Furnaces

**UL 729**  
Oil-Fired Floor Furnaces

**UL 730**  
Oil-Fired Wall Furnaces

**UL 731**  
Oil-Fired Unit Heaters

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

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

**UL 737**  
Fireplace Stoves

**UL 795**  
Commercial-Industrial Gas Heating Equipment

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

**UL 858**  
Household Electric Ranges

**UL 867**  
Electrostatic Air Cleaners

**UL 896**  
Oil-Burning Stoves

**UL 900**  
Air Filter Units

**UL 907**  
Fireplace Accessories

**UL921**  
Commercial Dishwashers

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

**UL 984**  
Hermetic Refrigeration Motor-Compressors

**UL 1046**  
Grease Filters for Exhaust Ducts

**UL 1240**  
Electric Commercial Clothes-Drying Equipment

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

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

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

**UL 1777**  
Chimney Liners

**UL 1812**  
Ducted Heat Recovery Ventilators

**UL 1815**  
Nonducted Heat Recovery Ventilators

**UL 1963**  
Refrigerant Recovery/Recycling Equipment

**UL 1978**  
Grease Ducts

**UL 1995**  
Heating and Cooling Equipment

**UL 2021**  
Fixed and Location-Dedicated Electric Room Heaters

**UL 2158**  
Electric Clothes Dryers

**UL 2162**  
Commercial Wood-Fired Baking Ovens-Refractory Type

**UL 2200**  
Stationary Engine Generator Assemblies

**UL 2221**  
Tests of Fire Resistive Grease Duct Enclosure Assemblies

**Certification Mark:**

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

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

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

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COMPLIES TO UPC



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

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

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## 9. LabTest Certification, Inc.

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

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

***Expiration: May 1, 2024***

This agency branch is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2023 Edition:

### Mechanical Standards:

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

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

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

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

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

**UL 197**  
Commercial Electric Cooking Equipment

**UL 1995**  
Heating and Cooling Equipment

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

### Plumbing Standards:

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

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

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

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

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

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

**CSA B45.5**  
Plastic Plumbing Fixtures

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

**UL 1795**  
Hydromassage Bathtubs



**Certification Mark:**

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

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

Field Evaluated to: \_\_\_\_\_

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Indicates that the product was certified for the United States and Canada

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## 10. NSF International

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

**Expiration: February 1, 2025**

This agency branch is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2023 Edition:

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

### Mechanical Standards:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**ASTM F493**

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

**ASTM F656**

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

**ASTM F714**

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

**ASTM F1055**

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

**ASTM F1476**

Performance of Gasketed Mechanical Couplings for Use in Piping Applications

**ASTM F1548**

Performance of Fittings for Use with Gasketed Mechanical Couplings Used 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 and Polyethylene of Raised Temperature (PE-RT) Tubing

**ASTM F1970**

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

**ASTM F1974**

Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked Polyethylene/Aluminum/

Crosslinked Polyethylene Composite Pressure Pipe

**ASTM F2080**

Cold-Expansion Fittings with Metal Compression-Sleeves for Crosslinked Polyethylene (PEX) Pipe and SDR 9 Polyethylene of Raised Temperature (PE-RT) Pipe

**ASTM F2098**

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

**ASTM F2159**

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

**ASTM F2434**

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

**ASTM F3253**

Crosslinked Polyethylene (PEX) Tubing with Oxygen Barrier for Hot- and Cold-Water Hydronic Distribution Systems

**AWWA C901**

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

**CSA B137.1**

Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services

**CSA B137.2**

Polyvinylchloride (PVC) Injection-Moulded Gasketed Fittings for Pressure Applications

**CSA B137.3**

Rigid Polyvinylchloride (PVC) Pipe and Fittings for Pressure Applications

**CSA B137.6**

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

**CSA B137.9**

Polyethylene/Aluminum/ Polyethylene (PE-AL-PE) Composite Pressure-Pipe Systems

**CSA B137.10**

Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Composite Pressure-Pipe Systems

**CSA B137.11**

Polypropylene (PP-R) Pipe and Fittings for Pressure Applications

**CSA B137.18**

Polyethylene of Raised Temperature Resistance (PE-RT) Tubing Systems for Pressure Applications

**CSA C448.1**

Design and Installation of Ground Source Heat Pump Systems for Commercial and Institutional Buildings

**CSA C448.2**

Design and Installation of Ground Source Heat Pump Systems for Residential and Other Small Buildings

**IAPMO PS 117**

Press and Nail Connections

**NSF 358-1**

Polyethylene Pipe and Fittings for Water-Based Ground-Source "Geothermal" Heat Pump Systems

**NSF 358-2**

Polypropylene Pipe and Fittings for Water-Based Ground-Source "Geothermal" Heat Pump Systems

**NSF 358-3**

Cross-linked polyethylene (PEX) 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**  
Macerating Toilet Systems and Waste-Pumping Systems for Plumbing Fixtures
- ASME A112.4.14**  
Manually Operated Valves for Use in Plumbing Systems
- ASME A112.6.2**  
Framing-Affixed Supports (Carriers) for Off-the-Floor Plumbing Fixtures
- ASME A112.6.3**  
Floor and Trench Drains
- ASME A112.6.4**  
Roof, Deck, and Balcony Drains
- ASME A112.6.7**  
Sanitary Floor Sinks
- ASME A112.6.9**  
Siphonic Roof Drains
- ASME A112.14.1**  
Backwater Valves
- ASME A112.14.3**  
Hydromechanical Grease Interceptors
- ASME A112.14.4**  
Grease Removal Devices
- ASME A112.18.1/CSA B125.1**  
Plumbing Supply Fittings
- ASME A112.18.2/CSA B125.2**  
Plumbing Waste Fittings
- ASME A112.18.3**  
Backflow Protection Devices and Systems in Plumbing Fixture Fittings
- ASME A112.18.6/CSA B125.6**  
Flexible Water Connectors
- ASME A112.19.1/CSA B45.2**  
Enameled Cast Iron and Enameled Steel Plumbing Fixtures
- ASME A112.19.2/CSA B45.1**  
Ceramic Plumbing Fixtures
- ASME A112.19.3/CSA B45.4**  
Stainless Steel Plumbing Fixtures
- ASME A112.19.5/CSA B45.15**  
Flush Valves and Spuds for Water Closets, Urinals, and Tanks
- ASME A112.19.7/CSA B45.10**  
Hydromassage Bathtub Systems
- ASME A112.19.10**  
Retrofit Dual Flush Devices for Water Closets
- ASME A112.21.3M**  
Hydrants for Utility and Maintenance Use
- ASME A112.36.2M**  
Cleanouts
- ASME B16.22**  
Wrought Copper and Copper Alloy Solder Joint Pressure Fittings
- ASME B16.51**  
Copper and Copper Alloy Press-Connect Pressure Fittings
- ASSE 1001**  
Atmospheric-Type Vacuum Breakers
- ASSE 1002/ASME A112.1002/CSA B125.12**  
Anti-Siphon Fill Valves for Water Closet Tanks
- ASSE 1003**  
Water Pressure Reducing Valves for Domestic Water Distribution Systems
- ASSE 1004**  
Commercial Dishwashing Machines
- ASSE 1010**  
Water Hammer Arresters
- ASSE 1011**  
Hose Connection Vacuum Breakers
- ASSE 1013**  
Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers
- ASSE 1015**  
Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies
- ASSE 1016/ASME A112.1016/CSA B125.6**  
Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations
- ASSE 1017**  
Temperature Actuated Mixing Valves for Hot Water Distribution Systems
- ASSE 1018**  
Trap Seal Primer Valves-Potable Water Supplied
- ASSE 1019**  
Wall Hydrant with Backflow Protection and Freeze Resistance
- ASSE 1020**  
Pressure Vacuum Breaker Assembly
- ASSE 1022**  
Backflow Preventer for Beverage Dispensing Equipment
- ASSE 1023**  
Hot Water Dispensers Household Storage Type-Electrical
- ASSE 1024**  
Dual Check Backflow Preventers
- ASSE 1032**  
Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type
- ASSE 1035**  
Laboratory Faucet Backflow Preventers
- ASSE 1037/ASME A112.1037/CSA B125.37**  
Pressurized Flushing Devices for Plumbing Fixtures
- ASSE 1047**  
Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies
- ASSE 1048**  
Double Check Detector Fire Protection Backflow Prevention Assemblies
- ASSE 1052**  
Hose Connection Backflow Preventers
- ASSE 1056**  
Spill Resistant Vacuum Breaker Assemblies
- ASSE 1061**  
Push-Fit Fittings

**ASSE 1062**

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

**ASSE 1069**

Automatic Temperature Control Mixing Valves

**ASSE 1070/ASME A112.1070/CSA B125.70**

Water Temperature Limiting Devices

**ASTM A74**

Cast Iron Soil Pipe and Fittings

**ASTM A536**

Ductile Iron Castings

**ASTM A888**

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

**ASTM B88**

Seamless Copper Water Tube

**ASTM B280**

Seamless Copper Tube for Air Conditioning and Refrigeration Field Service

**ASTM B306**

Copper Drainage Tube (DWV)

**ASTM B819**

Seamless Copper Tube for Medical Gas Systems

**ASTM C1277**

Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings

**ASTM D1784**

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

**ASTM D1785**

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

**ASTM D2235**

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

**ASTM D2239**

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

**ASTM D2241**

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

**ASTM D2464**

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

**ASTM D2466**

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

**ASTM D2467**

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

**ASTM D2513**

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

**ASTM D2564**

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

**ASTM D2609**

Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe

**ASTM D2661**

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

**ASTM D2665**

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

**ASTM D2683**

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

**ASTM D2729**

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

**ASTM D2737**

Polyethylene (PE) Plastic Tubing

**ASTM D2846/D2846M**

Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems

**ASTM D3034**

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

**ASTM D3035**

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

**ASTM D3138**

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

**ASTM D3139**

Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

**ASTM D3212**

Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals

**ASTM D3261**

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

**ASTM D3311**

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

**ASTM D4551**

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

**ASTM E84**

Surface Burning Characteristics of Building Materials.

**ASTM F409**

Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings

**ASTM F437**

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

**ASTM F438**

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

**ASTM F439**

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

**ASTM F441/F441M**

Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40 and 80

**ASTM F442/F442M**

Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDRPR)

**ASTM F480**

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

**ASTM F493**

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

**ASTM F628**

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

**ASTM F656**

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

**ASTM F667**

3 through 24 in. Corrugated Polyethylene Pipe and Fittings

**ASTM F714**

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

**ASTM F891**

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

**ASTM F894**

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

**ASTM F949**

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

**ASTM F1055**

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

**ASTM F1216**

Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-impregnated Tube

**ASTM F1282**

Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe

**ASTM F1336**

Poly (Vinyl Chloride) (PVC) Gasketed Sewer Fittings

**ASTM F1412**

Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems

**ASTM F1476**

Performance of Gasketed Mechanical Couplings for Use in Piping Applications

**ASTM F1488**

Coextruded Composite Pipe

**ASTM F1673**

Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems

**ASTM F1807**

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

**ASTM F1866**

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

**ASTM F1924**

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

**ASTM F1960**

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

**ASTM F1970**

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

**ASTM F1974**

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

**ASTM F2080**

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

**ASTM F2098**

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

**ASTM F2159**

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

**ASTM F2389**

Pressure-Rated Polypropylene (PP) Piping Systems

**ASTM F2434**

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

**ASMT F2618**

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

**ASTM F2769**

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

**ASTM F2855**

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

**AWWA C510**

Double-Check Valve Backflow Prevention Assembly

**AWWA C511**

Reduced-Pressure Principle Backflow Prevention Assembly

**AWWA C606**

Grooved and Shouldered Joints

**AWWA C900**

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

**AWWA C901**

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

**CISPI 301**

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

**CISPI 310**

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

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

**CSA B64.1.1**  
Atmospheric Vacuum Breakers (AVB)

**CSA B79**  
Commercial and Residential Drains and Cleanouts

**CSA B125.3**  
Plumbing Fittings

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

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

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

**CSA B137.10**  
Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Composite Pressure-Pipe Systems

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

**CSA B137.18**  
Polyethylene of Raised Temperature Resistance (PE-RT) Tubing Systems for Pressure Applications

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

**CSA B356**  
Water Pressure Reducing Valves for Domestic Water Supply Systems

**CSA B481**  
Grease Interceptors

**EPA Water Sense- 2007**  
High Efficiency Lavatory Faucet Specification

**IAPMO PS 36**  
Lead-Free Sealing Compounds for Threaded Joints

**IAPMO PS 51**  
Expansion Joints and Flexible Expansion Joints for DWV Piping Systems

**IAPMO PS 65**  
Airgap Units for Water Conditioning Equipment Installation

**IAPMO PS 117**  
Press and Nail Connections

**IAPMO Z1000**  
Prefabricated Septic Tanks

**IAPMO Z1001**  
Prefabricated Gravity Grease Interceptors

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

**IAPMO Z1157**  
Ball Valves

**NSF 2**  
Food Equipment

**NSF 3**  
Commercial Warewashing Equipment

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

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

**NSF 12**  
Automatic Ice Making Equipment

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

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

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

**NSF 40**  
Residential Wastewater Treatment Systems

**NSF 41**  
Non-Liquid Saturated Treatment Systems

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

**NSF 44**  
Residential Cation Exchange Water Softeners

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

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

**NSF 55**  
Ultraviolet Microbiological Water Treatment Systems

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

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

**NSF 62**  
Drinking Water Distillation Systems

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

**NSF 350**  
Onsite Residential and Commercial Water Reuse Treatment Systems

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

**Certification Marks:**

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

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

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

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This Mark indicates that the product is certified to NSF/ANSI 14 for drain, waste and vent

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## 11. OMNI-Test Laboratories, Inc.

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

**Expiration: September 1, 2024**

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 Z21.41**

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 Z21.86**

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 896**

Oil-Burning Stoves

**UL 907**

Fireplace Accessories

**UL 1482**

Solid-Fuel Type Room Heaters

**UL 1777**

Chimney Liners

**UL 2021**

Fixed and Location-Dedicated Electric  
Room Heaters

## Certification Marks:

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

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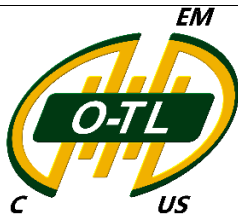
This mark is used on products listed to national recognized standards that fall within OMNI's scope of accreditation for US only.

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

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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.

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## 12. PFS Corporation

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

**Expiration: May 1, 2023**

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

**CSA Z21.11.2**

Gas-Fired Room Heaters, Volume II,  
Unvented Room Heaters

**CSA Z21.86**

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

**UL 127**

Factory-Built Fireplaces

**CSA Z21.50**

Vented Gas Fireplaces (same as CSA  
2.22)

**CSA Z21.88**

Vented Gas Fireplace Heaters (same as  
CSA 2.33)

**UL 391**

Solid-Fuel and Combination-Fuel Central  
and Supplementary Furnaces

**CSA Z21.58**

Outdoor Cooking Gas Appliances (same  
as CSA 1.6)

**CSA Z83.8**

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

**UL 737**

Fireplace Stoves

**CSA Z21.60**

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

**CSA Z83.20b**

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

**UL 907**

Fireplace Accessories

**UL 1482**

Solid-Fuel Type Room Heaters

### Certification Marks:



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



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



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

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## 13. QAI Laboratories, Inc.

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

**Expiration: December 1, 2022**

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

**ASME A112.1.2**

Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)

**ASME A112.1.3**

Air Gap Fittings for Use with Plumbing Fixtures, Appliances, and Appurtenances

**ASME A112.3.1**

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

**ASME A112.3.4/CSA B45.9**

Plumbing Fixtures with Pumped Waste and Macerating Toilet Systems

**ASME A112.6.1M**

Floor-Affixed Supports for Off-the-Floor Plumbing Fixtures for Public Use

**ASME A112.6.2**

Framing-Affixed Supports for Off-The Floor Water Closets with Concealed Tanks

**ASME A112.6.3**

Floor and Trench Drains

**ASME A112.6.4**

Roof, Deck, and Balcony Drains

**ASME A112.6.7**

Sanitary Floor Sinks

**ASME A112.14.1**

Backwater Valves

**ASME A112.18.1/CSA B125.1**

Plumbing Supply Fittings

**ASME A112.19.1/CSA B45.2**

Enameled Cast Iron and Enameled Steel Plumbing Fixtures

**ASME A112.19.2/CSA B45.1**

Ceramic Plumbing Fixtures

**ASME A112.19.3/CSA B45.4**

Stainless Steel Plumbing Fixtures

**ASME A112.19.5**

Flush Valves and Spuds for Water Closets, Urinals, and Tanks

**ASME A112.19.10**

Dual Flush Devices for Water Closets

**ASME A112.19.14**

Six-Liter Water Closets Equipped With Dual Flush Device

**ASME A112.19.15**

Bathtubs/Whirlpool Bathtubs with Pressure Sealed Doors

**ASME A112.19.19**

Vitreous China Nonwater Urinals

**ASSE 1001**

Atmospheric Type Vacuum Breakers

**ASSE 1002/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.

## 14. Solar Rating & Certification Corporation (ICC-SRCC)

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

***Expiration: June 1, 2024***

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

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

**IAPMO PS 92**

Heat Exchangers and Indirect Water Heaters

**ICC 900/ SRCC 300**

Solar Thermal System Standard

**NSF 50**

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

**ICC 901/ SRCC 100**

Solar Thermal Collector Standard

**Certification Mark:**

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

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

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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

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## 15. UL LLC

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

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### ***Expiration: November 1, 2023***

This agency is approved for listing of plumbing and mechanical products to meet the referenced standards listed below as found in the City of Los Angeles Plumbing and Mechanical Codes, 2023 Edition:

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

#### Mechanical Standards:

##### **AHRI 700**

Specifications for Refrigerants

##### **ASHRI 1200**

Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets

##### **AHRI 1230**

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

##### **AMCA 500-D**

Laboratory Methods of Testing Dampers for Rating

##### **AMCA 540**

Louvers Impacted by Wind Borne Debris

##### **AMCA 550**

Test Method for High Velocity Wind Driven Rain Resistance Louvers

##### **ASCE 25**

Earthquake-Actuated Automatic Gas Shutoff Devices

##### **ASHRAE 127**

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

##### **ASME A112.18.6/CSA B125.6**

Flexible Water Connectors

##### **ASME B16.1**

Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250

##### **ASME B16.3**

Malleable Iron Threaded Fittings: Classes 150 and 300

##### **ASME B16.5**

Pipe Flanges and Flanged Fittings: NPS ½ through NPS 24 Metric/Inch

##### **ASME B16.15**

Cast Copper Alloy Threaded Fittings: Classes 125 and 250

##### **ASME B16.22**

Wrought Copper and Copper Alloy Solder Joint Pressure Fittings

##### **ASME B31.5**

Refrigeration Piping and Heat Transfer Components

##### **ASME BPVC Section I**

Rules for Construction of Power Boilers

##### **ASME BPVC Section IV**

Rules for Construction of Heating Boilers

##### **ASME BPVC Section VIII**

Rules for Construction of Pressure Vessels Division 1

##### **ASME CSD-1**

Controls and Safety Devices for Automatically Fired Boilers

##### **ASSE 1013**

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

##### **ASSE 1061**

Push-Fit Fittings

##### **ASTM A53 /A53M**

Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded, and Seamless

##### **ASTM A733**

Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples

**ASTM B280**

General Requirements for Wrought Seamless Copper and Copper-Alloy Tube

**ASTM C411**

Hot-Surface Performance of High-Temperature Thermal Insulation

**ASTM C518**

Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus

**ASTM E84**

Surface Burning Characteristics of Building Materials

**ASTM E96 / E96M**

Water Vapor Transmission of Materials

**ASTM E136**

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

**ASTM E814**

Fire Tests of Penetration Firestop Systems

**ASTM E2231**

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

**ASTM E2336**

Fire Resistive Grease Duct Enclosure Systems

**AWWA C110**

Ductile-Iron and Gray-Iron Fittings

**AWWA C151**

Ductile-Iron Pipe, Centrifugally Cast

**AWWA C153**

Ductile-Iron Compact Fittings

**CSA FC 1**

Fuel Cell Technologies-Part-3-100: Stationary Fuel Cell Power Systems

**CSA Z21.1**

Household Cooking Gas Appliances

**CSA Z21.5.1**

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

**CSA Z21.10.1**

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

**CSA Z21.10.3**

Gas Water Heaters – Volume III, Storage Water Heaters with Input Ratings Above 75,000 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 Z21.13**

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 Damper Devices for Use with Gas-Fired Appliances (same as CSA 6.14)

**CSA Z21.86**

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

**CSA Z21.88**

Vented Gas Fireplace Heaters (same as CSA 2.33)

**CSA Z83.4**

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

**CSA Z83.8**

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

**CSA Z83.18**

Recirculating Direct Gas-Fired Heating and Forced Ventilation Appliances for Commercial and Industrial Applications

**CSA Z83.19**

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

**CSA Z83.20**

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

**NFPA 82**

Incinerators and Waste and Linen Handling Systems and Equipment

**NFPA 259**

Test Method for Potential Heat of Building Materials

**NFPA 262**

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

**NFPA 274**

Test Method to Evaluate Fire Performance Characteristics of Pipe Insulation

**SMACNA-2003**

Fibrous Glass Duct Construction Standard, 7th Edition

**SMACNA-2012**

HVAC Air Duct Leakage Test Manual, 2nd Edition

**SMACNA-2015**

Phonolic Duct Construction Standards

**SMACNA-2017**

HVAC Duct Construction Standards Metal and Flexible, 4th Edition

**UL 17**

Vent or Chimney Connector Dampers for Oil-Fired Appliances

**UL 21**

LP-Gas Hose

**UL 33**

Heat Responsive Links for Fire-Protection Service

**UL 51**

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

**UL 80**

Steel Tanks for Oil-Burner Fuel and Other Combustible Liquids

**UL 103**

Factory-Built Chimneys for Residential Type and Building Heating Appliances

**UL 125**

Valves for Anhydrous Ammonia and LP-Gas

**UL 127**

Factory-Built Fireplaces

**UL 132**

Safety Relief Valves for Anhydrous Ammonia and LP-Gas

**UL 144**

LP-Gas Regulators

**UL 174**

Household Electric Storage Tank Water Heaters

**UL 180**

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

**UL 181**

Factory-Made Air Ducts and Air Connectors

**UL 181A**

Closure Systems for Use with Rigid Air Ducts

**UL 181B**

Closure Systems for Use With Flexible Air Ducts and Air Connectors

**UL 197**

Commercial Electric Cooking Appliances

**UL 207**

Refrigerant-Containing Components and Accessories, Nonelectrical

**UL 252**

Compressed Gas Regulators

**UL 268A**

Smoke Detectors for Duct Application

**UL 295**

Commercial-Industrial Gas Burners

**UL 296**

Oil Burners

**UL 300**

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

**UL 343**

Pumps for Oil-Burning Appliances

**UL 353**

Limit Controls

**UL 378**

Draft Equipment

**UL 391**

Solid-Fuel and Combination-Fuel Central and Supplementary Furnaces

**UL 404**

Gauges, Indicating Pressure, for Compressed Gas Service

**UL 412**

Refrigeration Unit Coolers

**UL 427**

Refrigerating Units

**UL 429**

Electrically Operated Valves

**UL 441**

Gas Vents

**UL 443**

Steel Auxiliary Tanks for Oil-Burner Fuel

**UL 467**

Grounding and Bonding Equipment

**UL 471**

Commercial Refrigerators and Freezers

**UL 499**

Electric Heating Appliances

**UL525**

Flame Arresters

**UL 555**

Fire Dampers

**UL 555C**

Ceiling Dampers

**UL 555S**

Smoke Dampers

**UL 565**

Liquid-Level Gauges for Anhydrous Ammonia and LP-Gas

**UL 569**

Pigtails and Flexible Hose Connectors for LP-Gas

**UL 641**

Type L Low-Temperature Venting Systems

**UL 651**

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

**UL 705**

Power Ventilators

**UL710**

Exhaust Hoods for Commercial Cooking Equipment

**UL 710B**

Recirculating Systems

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

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

**UL 726**  
Oil-Fired Boiler Assemblies

**UL 727**  
Oil-Fired Central Furnaces

**UL 729**  
Oil-Fired Floor Furnaces

**UL 730**  
Oil-Fired Wall Furnaces

**UL 731**  
Oil-Fired Unit Heaters

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

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

**UL 737**  
Fireplace Stoves

**UL 762**  
Power Roof Ventilators for Restaurant Exhaust Appliances

**UL 778**  
Motor Operated Water Pumps

**UL 791**  
Residential Incinerators

**UL 795**  
Commercial-Industrial Gas Heating Equipment

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

**UL 842**  
Valves for Flammable Fluids

**UL 858**  
Household Electric Ranges

**UL 867**  
Electrostatic Air Cleaners

**UL 896**  
Oil-Burning Stoves

**UL 900**  
Air Filter Units

**UL 907**  
Fireplace Accessories

**UL 921**  
Commercial Dishwashers

**UL 923**  
Microwave Cooking Appliances

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

**UL 984**  
Hermetic Refrigerant Motor-Compressors

**UL 1046**  
Grease Filters for Exhaust Ducts

**UL 1240**  
Electric Commercial Clothes-Drying Equipment

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

**UL 1479**  
Fire Tests of Penetration Firestops

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

**UL 1746**  
External Corrosion Protection Systems for Steel Underground Storage Tanks

**UL 1777**  
Chimney Liners

**UL 1812**  
Ducted Heat Recovery Ventilators

**UL 1815**  
Nonducted Heat Recovery Ventilators

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

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

**UL 1963**  
Refrigerant Recovery/Recycling Equipment

**UL 1978**  
Grease Ducts

**UL 1995**  
Heating and Cooling Equipment

**UL 1996**  
Electric Duct Heaters

**UL 2021**  
Fixed and Location-Dedicated Electric Room Heaters

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

**UL 2158**  
Electric Clothes Dryers

**UL 2158A**  
Clothes Dryer Transition Duct

**UL 2162**  
Commercial Wood-Fired Baking Ovens - Refractory Type

**UL 2200**  
Stationary Engine Generator Assemblies

**UL 2221**  
Tests of Fire Resistive Grease Duct Enclosure Assemblies

**UL 2518**  
Air Dispersion Systems Materials

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

**UL 2790**  
Commercial Incinerators

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

## Plumbing Standards:

### **AHAM FWD-1**

Food Waste Disposers

### **ASCE 25**

Earthquake-Actuated Automatic Gas Shutoff Devices

### **ASME A112.1.2**

Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)

### **ASME A112.1.3**

Air Gap Fittings for Use with Plumbing Fixtures, Appliances, and Appurtenances

### **ASME A112.3.1**

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

### **ASME A112.4.2**

Personal Hygiene Devices for Water Closets

### **ASME A112.4.3**

Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System

### **ASME A112.4.14**

Manually Operated Valves for Use in Plumbing Systems

### **ASME A112.6.3**

Floor and Trench Drains

### **ASME A112.6.7**

Sanitary Floor Sinks

### **ASME A112.18.1 / CSA B125.1**

Plumbing Supply Fittings

### **ASME A112.18.2 / CSA B125.2**

Plumbing Waste Fittings

### **ASME A112.18.3**

Backflow Protection Devices and Systems in Plumbing Fixture Fittings

### **ASME A112.18.6 / CSA B125.6**

Flexible Water Connectors

### **ASME A112.18.9**

Protectors/Insulators for Exposed Waste and Supplies on Accessible Fixtures

### **ASME A112.19.1 / CSA B45.2**

Enameled Cast Iron and Enameled Steel Plumbing Fixtures

### **ASME A112.19.2 / CSA B45.1**

Ceramic Plumbing Fixtures

### **ASME A112.19.3 / CSA B45.4**

Stainless Steel Plumbing Fixtures

### **ASME A112.19.5 / CSA B45.15**

Flush Valves and Spuds for Water Closets, Urinals, and Tanks

### **ASME A112.19.7 / CSA B45.10**

Hydromassage Bathtub Systems

### **ASME A112.19.10**

Retrofit Dual Flush Devices for Water Closets

### **ASME A112.19.12**

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

### **ASME A112.19.14**

Six-Liter Water Closets Equipped with a Dual Flushing Device

### **ASME A112.19.15**

Bathtubs/Whirlpool Bathtubs with Pressure Sealed Doors

### **ASME A112.19.19**

Vitreous China Nonwater Urinals

### **ASME A112.21.3M**

Hydrants for Utility and Maintenance Use

### **ASME A112.36.2M**

Cleanouts

### **ASME B16.1**

Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250

### **ASME B16.3**

Malleable Iron Threaded Fittings: Classes 150 and 300

### **ASME B16.4**

Gray Iron Threaded Fittings: Classes 125 and 250

### **ASME B16.5**

Pipe Flanges and Flanged Fittings: NPS ½ through NPS 24 Metric/Inch

### **ASME B16.15**

Cast Copper Alloy Threaded Fittings: Classes 125 and 250

### **ASME B16.18**

Cast Copper Alloy Solder Joint Pressure Fittings

### **ASME B16.22**

Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings

### **ASME B16.39**

Malleable Iron Threaded Pipe Unions: Classes 150, 250 and 300

### **ASME BPVC Section IV**

Rules for Construction of Heating Boilers

### **ASME BPVC Section VIII**

Rules for Construction of Pressure Vessels- Division 1

### **ASSE 1001**

Atmospheric Type Vacuum Breakers

### **ASSE 1002 / AMSE A112.1002 / CSA B125.12**

Anti-Siphon Fill Valves for Water Closet Tanks

### **ASSE 1004**

Commercial Dishwashing Machines

### **ASSE 1008**

Plumbing Aspects of Residential Food Waste Disposer Units

### **ASSE 1011**

Hose Connection Vacuum Breakers

### **ASSE 1012**

Backflow Preventer with an Intermediate Atmospheric Vent

### **ASSE 1013**

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

### **ASSE 1014**

Backflow Prevention Devices for Hand-Held Shower

### **ASSE 1015**

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

**ASSE 1016 / AMSE A112.1016 / CSA B125.16**

Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

**ASSE 1017**

Temperature Actuated Mixing Valves for Hot Water Distribution Systems

**ASSE 1020**

Pressure Vacuum Breaker Assembly

**ASSE 1022**

Backflow Preventer for Beverage Dispensing Equipment

**ASSE 1023**

Hot Water Dispensers Household Storage Type-Electrical

**ASSE 1024**

Dual Check Backflow Preventers

**ASSE 1032**

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

**ASSE 1037 / AMSE A112.1037 / CSA B125.37**

Pressurized Flushing Devices for Plumbing Fixtures

**ASSE 1048**

Double Check Detector Fire Protection Backflow Prevention Assemblies

**ASSE 1056**

Spill Resistant Vacuum Breaker Assemblies

**ASSE 1061**

Push-Fit Fittings

**ASSE 1062**

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

**ASSE 1066**

Individual Pressure Balancing In-Line Valves for Individual Fixture Fittings

**ASSE 1069**

Automatic Temperature Control Mixing Valves

**ASSE 1070 / AMSE A112.1070 / CSA B125.70**

Water Temperature Limiting Devices

**ASTM A53/ A53M**

Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded, and Seamless

**ASTM A74**

Cast Iron Soil Pipe and Fittings

**ASTM A733**

Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples

**ASTM A888**

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

**ASTM B280**

Seamless Copper Tube for Air-Conditioning and Refrigeration Field Service

**ASTM C1277**

Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings

**ASTM E84**

Surface Burning Characteristics of Building Materials

**ASTM E119**

Fire Tests of Building Construction and Materials

**ASTM E814**

Fire Tests of Penetration Firestop Systems

**AWWA C110**

Ductile-Iron and Gray-Iron Fittings

**AWWA C151**

Ductile-Iron Pipe, Centrifugally Cast

**AWWA C153**

Ductile-Iron Compact Fittings

**AWWA C606**

Grooved and Shouldered Joints

**AWWA C900**

Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 in. through 12 in. (100 mm through 300 mm)

**AWWA C907**

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

**CISPI 301**

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

**CISPI 310**

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

**CSA B45.5 / IAPMO Z124**

Plastic Plumbing Fixtures

**CSA B45.8/ IAPMO Z403**

Terrazo, Concrete, Composite Stone, and Natural Stone Plumbing Fixtures

**CSA B45.11 / IAPMO Z401**

Glass Plumbing Fixtures

**CSA B45.12 / IAPMO Z402**

Aluminum and Copper Plumbing Fixtures

**CSA B64.1.1**

Atmospheric Vacuum Breakers (AVB)

**CSA B64.1.2**

Pressure Vacuum Breakers (PVB)

**CSA B64.2.1.1**

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)

**CSAZ21.10.1**

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 Z21.13**

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

**CSA Z21.56**

Gas-Fired Pool Heaters

**CSA Z21.86**

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

**CSA Z83.11**

Gas Food Service Equipment (same as CSA 1.8)

**Energy Star – 2012**

Program Requirements Product Specification for Commercial Dishwashers

**Energy Star- 2018**

Product Specifications Product Specifications for Clothes Washers

**Energy Star- 2016**

Program Requirements for Residential Dishwashers

**EPA WaterSense - 2007**

High-Efficiency Lavatory Faucet Specification

**EPA WaterSense - 2009**

Specification for Flushing Urinals

**EPA WaterSense- 2014**

Specification for Tank-Type Toilets

**IAPMO IGC 154**

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

**IAPMO IGC 193**

Safety Plates, Plate Straps, Notched Plates and Safety Collars

**IAPMO IGC 226**

Drinking Water Fountains With or Without Chiller or Heater

**IAPMO PS 23**

Dishwasher Drain Airgaps

**IAPMO PS 37**

Black Plastic PVC or PE Pressure-Sensitive Corrosion Preventive Tape

**IAPMO PS 42**

Pipe Alignment and Secondary Support Systems

**IAPMO PS 52**

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

**IAPMO PS 54**

Metallic and Plastic Utility Boxes

**IAPMO PS 64**

Roof Pipe Flushings

**IAPMO PS 86**

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 92**

Heat Exchangers and Indirect Water Heaters

**IAPMO PS 101**

Suction Relief Valves

**IAPMO PS 105**

Polyethylene Distribution Boxes

**IAPMO PS 106**

Tileable Shower Receptors and Shower Kits

**IAPMO PS 115**

Hot Water On-Demand or Automatic Activated Hot Water Pumping Systems

**IAPMO PS 117**

Press and Nail Connections

**IAPMO Z124.5**

Plastic Toilet Seats

**IAPMO Z124.7**

Prefabricated Plastic Spa Shells

**IAPMO Z124.8**

Plastic Liners for Bathtubs and Shower Receptors

**IAPMO Z1000**

Prefabricated Septic Tanks

**IAPMO Z1001**

Prefabricated Gravity Grease Interceptors

**ISEA Z358.1**

Emergency Eyewash and Shower Equipment

**MSS SP-67**

Butterfly Valves

**NSF 2**

Food Equipment

**NSF 3**

Commercial Warewashing Equipment

**NSF 4**

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

**NSF 5**

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

**NSF 12**

Automatic Ice Making Equipment

**NSF 14**

Plastics Piping System Components and Related Materials

**NSF 18**

Manual Food and Beverage Dispensing Equipment

**NSF 29**

Detergent and Chemical Feeders for Commercial Spray-Type Dishwashing Machines

**NSF 40**

Residential Wastewater Treatment Systems

**NSF 41**

Non-Liquid Saturated Treatment Systems

**NSF 42**

Drinking Water Treatment Units – Aesthetic Effects

**NSF 44**

Residential Cation Exchange Water Softeners

**NSF 46**

Evaluation of Components and Devices Used in Wastewater Treatment Systems

**NSF 53**

Drinking Water Treatment 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

**UL 17**

Vent or Chimney Connector Dampers for Oil-Fired Appliances

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

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

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

**UL 144**  
LP-Gas Regulators

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

**UL 252**  
Compressed Gas Regulators

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

**UL 296**  
Oil Burners

**UL 378**  
Draft Equipment

**UL 399**  
Drinking Water Coolers

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

**UL 429**  
Electrically Operated Valves

**UL 430**  
Waste Disposers

**UL 441**  
Gas Vents

**UL 536**  
Flexible Metallic Hose

**UL 563**  
Ice Makers

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

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

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

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

**UL 726**  
Oil-Fired Boiler Assemblies

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

**UL 749**  
Household Dishwashers

**UL 778**  
Motor-Operated Water Pumps

**UL 921**  
Commercial Dishwashers

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

**UL 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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### UL Listing Mark

This mark is one of the most common UL Marks. If a product bears this Mark, it means UL found that representative product samples met applicable safety requirements.

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GAS-FIRED



GAS-FIRED



### UL Gas-Fired Mark

This mark is used exclusively on gas-fired appliances and equipment, to indicate a product's compliance to nationally recognized gas standards, including UL, ANSI Z21/Z83 Series, and the CSA/CGA standards. The UL Gas-Fired Mark indicates that a product has been evaluated to reasonable and foreseeable hazards including both gas and electrical.

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### Combined UL Mark for Europe, Canada and United States

This mark indicates that the product has been evaluated to European, Canadian and U.S. requirements, and is listed to the applicable standard specified.

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PLUMBING



PLUMBING



### UL Plumbing Mark

This mark appears on plumbing-related products and clearly identifies those products that comply with applicable health-effect and plumbing performance standards and requirements of plumbing codes, including the Uniform Plumbing Code. The UL Plumbing Mark appears on plumbing fixture fittings such as kitchen sink and lavatory supply fittings, bath and shower supply fittings and various types of automatic compensating valves.

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### UL Field Evaluated Product Mark

A Field Evaluated Product Mark is applied to a product that is thoroughly evaluated in the field instead of UL's laboratories or a manufacturer's facility. If a product has been significantly modified since its manufacture or the product doesn't bear any third-party certification mark, a building owner, a regulatory authority or anyone else directly involved with the product can request that UL test a specific piece of equipment in the field. Products that meet appropriate safety requirements are labeled with a tamper resistant Field Evaluated Product Mark.

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## 16. Water Quality Association

2375 Cabot Drive  
Lisle, IL 60532-1088  
Phone: (630) 929-2541

**Expiration: April 1, 2024**

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

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

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

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

Drinking Water Treatment Chemicals-  
Health Effects

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

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

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

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

**NSF 55**  
Ultraviolet Microbiological Water  
Treatment Systems

**NSF 62**  
Drinking Water Distillation Systems

**NSF 44**  
Residential Cation Exchange Water  
Softeners

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

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

**NSF 50**

**NSF 60**

**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.

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## Part II: Approved Testing Agencies

### 1. Home Innovation Research Labs

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

***Expiration: September 1, 2024***

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

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

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

**CSA B45.5/IAPMO Z124**  
Plastic Plumbing Systems

**IAPMO Z124.8**  
Plastic Liners for Bathtubs and Shower Receptors

**ICC A117.1**  
Accessible and Usable Buildings and Facilities (Chapter 6 Only)

## **2. International Association of Plumbing and Mechanical Officials (IAPMO), R&T Lab**

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

***Expiration: March 1, 2025***

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

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

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

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

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

**ASSE 1001**  
Atmospheric Type Vacuum Breakers

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

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

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

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

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

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

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

**IAPMO Z124.5**  
Plastic Toilet Seats

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

**IAPMO Z124.8**  
Plastic Liners for Bathtubs and Shower Receptor

