

City of Los Angeles
Department of Building and Safety



MECHANICAL TESTING LABORATORY

LIST OF APPROVED LISTING AND TESTING AGENCIES

June 20, 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

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:



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

2. ASSE International

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

Expiration: April 1, 2024

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

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

ASME A112.1.2

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

ASME A112.1.3

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

ASME A112.3.1

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

ASME A112.6.1M

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

ASME A112.14.1

Backwater Valves

ASME A112.18.1/CSA B125.1

Plumbing Supply Fittings

ASME A112.18.2/CSA B125.2

Plumbing Waste Fittings

ASME A112.18.3

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

ASME A112.19.1/CSA B45.2

Enameled Cast Iron and Enameled Steel Plumbing Fixtures

ASME A112.19.2/CSA B45.1

Ceramic Plumbing Fixtures

ASME A112.19.3/CSA B45.15

Stainless Steel Plumbing Fixtures

ASME A112.19.5/CSA B45.15

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

ASME A112.19.10

Dual Flush Devices for Water Closets

ASME A112.21.3M

Hydrants for Utility and Maintenance Use

ASME A112.36.2M

Cleanouts

ASSE 1001

Atmospheric-Type Vacuum Breakers

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

Anti-Siphon Fill Valves for Water Closet Tanks

ASSE 1003

Water Pressure Reducing Valves for Domestic Water Distribution Systems

ASSE 1004

Backflow Prevention Requirements for Commercial Dishwashing Machines

ASSE 1008

Plumbing Aspects of Residential Food Waste Disposer Units

ASSE 1010

Water Hammer Arrestors

ASSE 1011

Hose Connection Vacuum Breakers

ASSE 1012

Backflow Preventers with an Intermediate Atmospheric Vent

ASSE 1013

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

ASSE 1014

Backflow Prevention Devices for Hand-Held Showers

ASSE 1015

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

ASSE 1016/ASME A112.1016/CSA B125.16

Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations

ASSE 1017
Temperature Actuated Mixing Valves
for Hot Water Distribution Systems

ASSE 1018
Trap Seal Primer Valves - Potable
Water Supplied

ASSE 1019
Wall Hydrant with Backflow
Protection and Freeze Resistance

ASSE 1020
Pressure Vacuum Breaker Assembly

ASSE 1022
Backflow Preventer for Beverage
Dispensing Equipment

ASSE 1023
Hot Water Dispensers Household
Storage Type – Electrical

ASSE 1024
Dual Check Backflow Preventers

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

ASSE 1035
Laboratory Faucet Backflow
Preventers

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

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

ASSE 1047
Reduced Pressure Detector Fire
Protection Backflow Prevention
Assemblies

ASSE 1048
Double Check Detector Fire
Protection Backflow Prevention
Assemblies

ASSE 1052
Hose Connection Backflow
Preventers

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

ASSE 1055
Chemical Dispensing Systems

ASSE 1056
Spill Resistant Vacuum Breakers

ASSE 1057
Freeze Resistant Sanitary Yard
Hydrant with Backflow Protection

ASSE 1060
Outdoor Enclosures for Fluid
Conveying Components

ASSE 1061
Push-Fit Fittings

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

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

ASSE 1069
Automatic Temperature Control
Mixing Valves

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

ASSE 1071
Temperature Activated Mixing Valves
for Plumbed Emergency Equipment

ASSE 1079
Dielectric Pipe Unions

AWWA C510
Double Check Valve Backflow
Prevention Assembly

AWWA C511
Reduced-Pressure Principle Backflow
Prevention Assembly

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

IAPMO PS 72
Valves with Atmospheric Vacuum
Breakers

IAPMO PS 76
Trap Primers for Fill Valves and
Flushometer Valves

IAPMO PS 79
Multiport Electronic Trap Primer

IAPMO PS 113
Hydraulically Powered Household
Food Waste Disposer

NSF 3
Commercial Warewashing Equipment

NSF 61
Drinking Water System Components-
Health Effects

Certification Mark:



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

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:



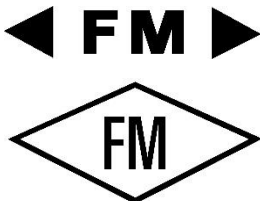
FM Approved Mark

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.

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:



Home Innovation
LAB CERTIFIED™

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

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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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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

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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

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

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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

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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

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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

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Performance of Gasketed Mechanical Couplings for Use in Piping Applications

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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)

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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

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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

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

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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

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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

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IAPMO PS 54

Metallic and Plastic Utility Boxes

IAPMO PS 57

PVC Hydraulically Actuated Diaphragm Type Water Control Valves

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IAPMO PS 63

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IAPMO PS 64

Roof Pipe Flashings

IAPMO PS 65

Airgap Units for Water Conditioning Equipment Installation

IAPMO PS 67

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

IAPMO PS 69

Bathwaste and Overflow Assemblies with Tub Filler Spout

IAPMO PS 72

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IAPMO PS 73

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IAPMO PS 76

Trap Primers for Fill Valves and Flushometer Valves

IAPMO PS 79

Multiport Electronic Trap Primer

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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

Pressure Relief Connection for Dispensing Equipment

IAPMO PS 105

Polyethylene Distribution Boxes

IAPMO PS 106

Tileable Shower Receptors and Shower Kits

IAPMO PS 110

PVC Cold Water Compression Fittings

IAPMO PS 111

PVC Cold Water Gripper Fittings

IAPMO PS 112

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

IAPMO PS 113

Hydraulically Powered Household Food Waste Disposers

IAPMO PS 115

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

IAPMO Z124.5

Plastic Toilet Seats

IAPMO Z124.7

Prefabricated Plastic Spa Shells

IAPMO Z124.8

Plastic Liners for Bathubs and Shower Receptors

IAPMO Z601

Scale Reduction Devices

IAPMO Z1000

Prefabricated Septic Tanks

IAPMO Z1001

Prefabricated Gravity Grease Interceptors

IAPMO Z1033

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

ICC A117.1

Accessible and Usable Buildings and Facilities

ISEA Z358.1

Emergency Eyewash and Shower Equipment

MSS SP-6

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

MSS SP-25

Marking Systems for Valves, Fittings, Flanges, and Unions

MSS SP-42

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

MSS SP-44

Steel Pipeline Flanges

MSS SP-58

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

MSS SP-67

Butterfly Valves

MSS SP-70

Gray Iron Gate Valves, Flanged and Threaded Ends

MSS SP-71

Gray Iron Swing Check Valves, Flanged and Threaded Ends

MSS SP-72

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

MSS SP-78

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
Residential Wastewater Treatment Systems

NSF 41
Non-Liquid Saturated Treatment Systems

NSF 42
Drinking Water Treatment Units- Aesthetic Effects

NSF 44
Residential Cation Exchange Water Softeners

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

NSF 53
Drinking Water Treatment Unit-Health Effects

NSF 55
Ultraviolet Microbiological Water Treatment Systems

NSF 58
Reverse Osmosis Drinking Water Treatment Systems

NSF 61
Drinking Water System Components - Health Effects

NSF 62
Drinking Water Distillation Systems

NSF 169
Special Purpose Food Equipment and Devices

NSF 350
Onsite Residential and Commercial Water Reuse Treatment Systems.

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

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

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

UL 378
Draft Equipment

UL 399
Drinking Water Coolers

UL 404
Gauges, Indicating Pressure, for Compressed Gas Services

UL 429
Electrically Operated Valves

UL 430
Waste Disposers

UL 441
Gas Vents

UL 536
Flexible Metallic Hose

UL 563
Ice Makers

UL 569
Pigtails and Flexible Hose Connectors for LP-Gas

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

UL 723
Test for Surface Burning Characteristics of Building Materials

UL 726
Oil-Fired Boiler Assemblies

UL 732
Oil-Fired Storage Tank Water Heaters

UL 749
Household Dishwashers

UL 778
Motor-Operated Water Pumps

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

UL 921
Commercial Dishwasher

UL 959
Medium Heat Appliances Factory-Built Chimneys

UL 1081
Swimming Pool Pumps, Filters, and Chlorinators

UL 1206
Electric Commercial Clothes-Washing Equipment

UL 1261
Electric Water Heaters for Pools and Tubs

UL 1331
Station Inlets and Outlets

UL 1453
Electric Booster and Commercial
Storage Tank Water Heaters

UL 1479
Fire Test of Through-Penetration
Firestops

UL 1795
Hydromassage Bathtubs

UL 1951
Electric Plumbing Accessories

Mechanical Standards:

AMCA 500-D
Laboratory Methods of Testing
Dampers for Ratings

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 52.2
General Ventilation Air Cleaning
Devices for Removal Efficiency by
Particle Size

ASME A13.1
Scheme for the Identification of Piping
Systems

ASME A112.18.6 / 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:



UPC®

Uniform Plumbing Code Certification Marks

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



UMC®

Uniform Mechanical Code Certification Marks

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



USPC®

Uniform Pool, Spa & Hot Tub Code Certification Marks

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



USEC®

Uniform Solar Energy Code Certification Marks

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



IAPMO R&T Mark

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

LOW-LEAD



IAPMO R&T Low Lead Mark

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

7. ICC Evaluation Service, LLC

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

Expiration: July 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.

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**
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 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 443**
Steel Auxiliary Tanks for Oil-Burner Fuel
- UL 471**
Commercial Refrigerators and Freezers
- UL 525**
Flame Arresters
- UL 555**
Fire Dampers
- UL 555C**
Ceiling Dampers
- UL 555S**
Smoke Dampers
- UL 565**
Liquid-Level Gauges and Indicators for Anhydrous Ammonia and LP-Gas
- UL 569**
Pigtails and Flexible Hose Connectors for LP-Gas
- UL 641**
Type L Low-Temperature Venting Systems
- UL 710**
Exhaust Hoods for Commercial Cooking Equipment
- UL 723**
Test for Surface Burning Characteristics of Building Materials
- UL 726**
Oil-Fired Boiler Assemblies
- UL 727**
Oil-Fired Central Furnaces
- UL 729**
Oil-Fired Floor Furnaces
- UL 730**
Oil-Fired Wall Furnaces
- UL 731**
Oil-Fired Unit Heaters
- UL 732**
Oil-Fired Storage Tank Water Heaters

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

UL 737
Fireplace Stoves

UL 791
Residential Incinerators

UL 795
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UL 858
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UL 867
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UL 896
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UL 900
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UL 921
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UL 959
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ASME A112.6.2
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ASME A112.6.3
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ASME A112.6.4
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ASME A112.6.7
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ASME A112.6.9
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ASME A112.14.1
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ASME A112.19.2/CSA B45.1
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ASME A112.19.5/CSA B45.15
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ASME A112.19.7/CSA B45.10
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ASME A112.19.10
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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

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ASME A112.36.2M

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ASME B1.20.3

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Malleable Iron Threaded Fittings: Classes 150 and 300

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Gray Iron Threaded Fittings: Classes 125 and 250

ASME B16.5

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

ASME B16.12

Cast Iron Threaded Drainage Fittings

ASME B16.15

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ASME B16.18

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ASME B16.20

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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

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 through NPS 2)

ASME B16.34

Valves – Flanged, Threaded, and Welding End

ASME B16.39

Malleable Iron Threaded Pipe Unions: Classes 150, 250 and 300

ASME B16.40

Manually Operated Thermoplastic Gas Shutoff and Valves in Gas Distribution Systems

ASME B16.47

Large Diameter Steel Flanges: NPS 26 through NPS 60 Metric/Inch Standard

ASME B16.50

Wrought Copper and Copper Alloy Braze-Joint Pressure Fittings

ASME B31.1

Power Piping

ASME B36.10M

Welded and Seamless Wrought Steel Pipe

ASME B36.19M

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- Qualification Standard for Welding, Brazing, and Fusing Procedures; Welder, Brazers; and Welding, Brazing, and Fusing Operators

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Atmospheric-Type Vacuum Breakers

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

Anti-Siphon Fill Valves for Water Closet Tanks

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Water Pressure Reducing Valves for Domestic Water Distribution Systems

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Plumbing Aspects of Residential Food Waste Disposer Units

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Water Hammer Arresters

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 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

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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

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ASSE 1052

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ASSE 1055

Chemical Dispensing Systems with Integral Backflow Protection

ASSE 1056

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ASSE 1060

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ASSE 1061

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ASSE 1062

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ASSE 1066

Individual Pressure Balancing In-Line Valves for Individual Fixture Fittings

ASSE 1069

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

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ASSE 1079

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ASSE Series 5000

Cross-Connection Control Professional Qualifications Standard

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Gray Iron Castings

ASTM A53 / A53M

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

ASTM A74

Cast Iron Soil Pipe and Fittings

ASTM A126

Gray Iron Castings for Valves, Flanges, and Pipe Fittings

ASTM 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 Pipe Nipples

ASTM A861

High-Silicon Iron Pipe and Fittings

ASTM A888

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

ASTM B29

Refined Lead

ASTM B32

Solder Metal

ASTM B42

Seamless Copper Pipe, Standard Sizes

ASTM B43

Seamless Red Brass Pipe, Standard Sizes

ASTM B75/ B75M

Seamless Copper Tube

ASTM B88

Seamless Copper Water Tube

ASTM B135

Seamless Brass Tube

ASTM B152/ B152M

Copper Sheet, Strip, Plate, and Rolled Bar

ASTM B251

General Requirements for Wrought Seamless Copper and Copper-Alloy Tube

ASTM B280

Seamless Copper Tube for Air Conditioning and Refrigeration Field Service

ASTM B302

Threadless Copper Pipe, Standard Sizes

ASTM B306

Copper Drainage Tube (DWV)

ASTM B370

Copper Sheet and Strip for Building Construction

ASTM B447

Welded Copper Tube

ASTM B587

Welded Brass Tube

ASTM B687

Brass, Copper, and Chromium-Plated Pipe Nipples

ASTM B813

Liquid and Paste Fluxes for Soldering 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

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 & Fittings

ASTM C1440

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

ASTM C1460

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

ASTM C1461

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

ASTM C1540

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

ASTM D1784

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

ASTM D1785

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

ASTM D2235

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

ASTM D2239

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

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

ASTM D2467

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

ASTM D2513

Polyethylene (PE) Gas Pressure Pipe Tubing and Fittings

ASTM D2517

Reinforced Epoxy Resin Gas Pressure Pipe and Fittings

ASTM D2564

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

ASTM D2609

Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe

ASTM D2657

Heat Fusion Joining of Polyolefin Pipe Fittings

ASTM D 2661

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) or Chlorinated Poly (Vinyl Chloride) (CPVC) Pipe and Piping Components with Tapered Sockets

ASTM D3034

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

ASTM D3035

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

ASTM D3122

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

ASTM D3138

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

ASTM D3139

Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals

ASTM D3212

Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals

ASTM D3261

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

ASTM D3311

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

ASTM D4068

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

ASTM D4551

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

ASTM E84

Surface Burning Characteristics of Building Materials

ASTM E119

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Fire Tests of Penetration Fire Stops

ASTM F402

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

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Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings

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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 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

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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

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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-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

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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.



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.



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



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



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.



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

8. Intertek Testing Services NA, Inc.

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

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

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

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

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

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

Expiration: June 1, 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:



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



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



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

COMPLIES TO UPC



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



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

9. LabTest Certification, Inc.

(Main Lab)
205 – 8291 92nd 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:



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



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

Field Evaluated to: _____



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

10. NSF International

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

Expiration: February 1, 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:



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



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



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



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

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:



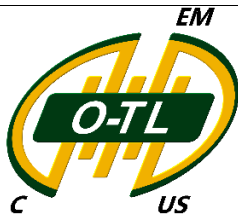
This mark is a legacy certification mark that indicates that the product is listed to the applicable standard specified.



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



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



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

12. PFS Corporation

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

Expiration: May 1, 2023

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

CSA Z21.11.2

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

CSA Z21.86

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.

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:



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



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



This mark indicates the product is listed under the SRCC Solar Heating and Cooling Listing Program, which certifies solar heating and cooling products to the Uniform Solar Energy Code (USEC), Uniform Plumbing Code (UPC), Uniform Mechanical Code (UMC), and Uniform Swimming Pool and Hot Tub Code (USPC). It is also used to specify products that meet the low-lead requirements for drinking water system components

15. UL LLC

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

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

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

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

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

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

Expiration: November 1, 2023

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

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

Mechanical Standards:

AHRI 700

Specifications for Refrigerants

ASHRI 1200

Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets

AHRI 1230

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

AMCA 500-D

Laboratory Methods of Testing Dampers for Rating

AMCA 540

Louvers Impacted by Wind Borne Debris

AMCA 550

Test Method for High Velocity Wind Driven Rain Resistance Louvers

ASCE 25

Earthquake-Actuated Automatic Gas Shutoff Devices

ASHRAE 127

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

ASME A112.18.6/CSA B125.6

Flexible Water Connectors

ASME B16.1

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

ASME B16.3

Malleable Iron Threaded Fittings: Classes 150 and 300

ASME B16.5

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

ASME B16.15

Cast Copper Alloy Threaded Fittings: Classes 125 and 250

ASME B16.22

Wrought Copper and Copper Alloy Solder Joint Pressure Fittings

ASME B31.5

Refrigeration Piping and Heat Transfer Components

ASME BPVC Section I

Rules for Construction of Power Boilers

ASME BPVC Section IV

Rules for Construction of Heating Boilers

ASME BPVC Section VIII

Rules for Construction of Pressure Vessels Division 1

ASME CSD-1

Controls and Safety Devices for Automatically Fired Boilers

ASSE 1013

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

ASSE 1061

Push-Fit Fittings

ASTM A53 /A53M

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

ASTM A733

Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples

ASTM B280

General Requirements for Wrought Seamless Copper and Copper-Alloy Tube

ASTM C411

Hot-Surface Performance of High-Temperature Thermal Insulation

ASTM C518

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 896 Oil-Burning Stoves	UL 1963 Refrigerant Recovery/Recycling Equipment
UL 723 Test for Surface Burning Characteristics of Building Materials	UL 900 Air Filter Units	UL 1978 Grease Ducts
UL 726 Oil-Fired Boiler Assemblies	UL 907 Fireplace Accessories	UL 1995 Heating and Cooling Equipment
UL 727 Oil-Fired Central Furnaces	UL 921 Commercial Dishwashers	UL 1996 Electric Duct Heaters
UL 729 Oil-Fired Floor Furnaces	UL 923 Microwave Cooking Appliances	UL 2021 Fixed and Location-Dedicated Electric Room Heaters
UL 730 Oil-Fired Wall Furnaces	UL 959 Medium Heat Appliance Factory-Built Chimneys	UL 2043 Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces
UL 731 Oil-Fired Unit Heaters	UL 984 Hermetic Refrigerant Motor-Compressors	UL 2158 Electric Clothes Dryers
UL 732 Oil-Fired Storage Tank Water Heaters	UL 1046 Grease Filters for Exhaust Ducts	UL 2158A Clothes Dryer Transition Duct
UL 733 Oil-Fired Air Heaters and Direct-Fired Heaters	UL 1240 Electric Commercial Clothes-Drying Equipment	UL 2162 Commercial Wood-Fired Baking Ovens - Refractory Type
UL 737 Fireplace Stoves	UL 1453 Electric Booster and Commercial Storage Tank Water Heaters	UL 2200 Stationary Engine Generator Assemblies
UL 762 Power Roof Ventilators for Restaurant Exhaust Appliances	UL 1479 Fire Tests of Penetration Firestops	UL 2221 Tests of Fire Resistive Grease Duct Enclosure Assemblies
UL 778 Motor Operated Water Pumps	UL 1482 Solid-Fuel Type Room Heaters	UL 2518 Air Dispersion Systems Materials
UL 791 Residential Incinerators	UL 1746 External Corrosion Protection Systems for Steel Underground Storage Tanks	UL 2523 Solid Fuel-Fired Hydronic Heating Appliances, Water Heaters, and Boilers
UL 795 Commercial-Industrial Gas Heating Equipment	UL 1777 Chimney Liners	UL 2790 Commercial Incinerators
UL 834 Heating, Water Supply, and Power Boilers - Electric	UL 1812 Ducted Heat Recovery Ventilators	UL 60335-2-40 Household and Similar Electrical Appliances- Safety- Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers
UL 842 Valves for Flammable Fluids	UL 1815 Nonducted Heat Recovery Ventilators	
UL 858 Household Electric Ranges	UL 1820 Fire Test of Pneumatic Tubing for Flame and Smoke Characteristics	
UL 867 Electrostatic Air Cleaners	UL 1887 Fire Test of Plastic Sprinkler Pipe for Visible Flame and Smoke Characteristics	

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:



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.

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.



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.

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.



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.

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.

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

