



INTERNATIONAL
ACCREDITATION
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CERTIFICATE OF ACCREDITATION

This is to attest that

CSA GROUP: CLEVELAND (CSA AMERICA TESTING & CERTIFICATION LLC)

8501/8801 EAST PLEASANT VALLEY ROAD
CLEVELAND, OHIO 44131, U.S.A.

Testing Laboratory TL-266

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date April 1, 2025



International Accreditation Service

Issued under the authority of IAS management

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www.csagroup.org

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Accredited to ISO/IEC 17025:2017

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Energy Star	
Appliances	
Consumer Refrigeration	Residential Refrigerators ENERGY STAR Program requirements product specification for Consumer Refrigeration Products: Version 5.1 10 CFR 430, Subpart B, Appendix A and Appendix B
Water Coolers, Energy Star Test Method for Water Coolers	EPA (Energy Star) Other - Water Coolers ENERGY STAR Program Requirements Product Specification for Water Coolers, ver 3.0
Residential Electric Cooking Products , ENERGY STAR Program requirements product specification for residential electric cooking products, version 1.0	
10 CFR 430, Subpart B, Appendix I1	Uniform test method for measuring the energy consumption of conventional cooking products
Heating and Cooling	
Residential Boilers , ENERGY STAR Program requirements product specification for boilers version 3.0	
10 CFR Part 430, Subpart B, Appendix N	Uniform test method for measuring the energy consumption of furnaces and boilers
10 CFR Part 430, Subpart B, Appendix EE	Appendix EE to 10 CFR Subpart B of Part 430—Uniform Test Method For Measuring the Energy Consumption of Consumer Boilers
Commercial Boilers , ENERGY STAR Program requirements product specification for commercial packaged boilers version 1.0	
10 CFR Part 431, Subpart E	431.86 Uniform Test method for the measurement of energy efficiency of commercial packaged boilers
10 CFR Part 431, Subpart E Appendix A	Uniform Test method for the measurement of thermal efficiency and combustion efficiency of commercial packaged boilers
Commercial Water Heaters , ENERGY STAR Program requirements product specification for commercial water heaters version 2.0	
10 CFR Part 431, Subpart G	431.106 Uniform Test Method for the Measurement of Energy Efficiency of Commercial Heat Pump Water Heaters

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Dehumidifiers , ENERGY STAR Program requirements product specification for dehumidifiers eligibility criteria version 6.0	
10 CFR Part 430, Subpart B, Appendix X1	
Furnaces , ENERGY STAR Program requirements for furnaces eligibility criteria version 4.1	
10 CFR Part 430, Subpart B, Appendix N	Uniform test method for measuring the energy consumption of furnaces and boilers.
10 CFR Part 430, Subpart B, Appendix AA - Uniform test method for measuring the Energy Consumption of Furnace Fans	
ASHRAE 193-2010	Uniform test method for measuring the energy consumption of furnaces and boilers.
Residential Water Heaters , ENERGY STAR Program requirements product specification for residential water heaters version 5.0.	
10 CFR 430, Subpart B, Appendix E	Uniform test method for measuring the energy consumption of water heaters
Commercial Food Service Equipment	
Commercial Ice Makers , ENERGY STAR Program requirements product specification for automatic commercial ice makers version 3.0	
10 CFR Part 431.134	AHRI Standard 810-2007 with Addendum 1, (AHRI 810) Performance rating of Automatic Commercial Ice-Makers
10 CFR, Title 10, Subpart O, Part 431.264	Uniform test method to measure flow rate and spray force of commercial prerinse spray valves
ASTM F2324	Standard Test Method for Pre-rinse Spray Valves
Commercial Refrigerators and Freezers , ENERGY STAR Program requirements product specification for commercial refrigerators and freezers version 5.0	
10 CFR Part 431, Subpart C/ 10 CFR Part 431.64/ 10 CFR Part 431.66(e)(2)	
Other	
Laboratory Grade Refrigerators & Freezers , ENERGY STAR Program requirements product specification for laboratory grade refrigerators & Freezers version 2.0	
Vending Machines , ENERGY STAR Program requirements product specification for refrigerated beverage vending machines version 4.0	
Appendix A to 10 CFR 431, Subpart Q/ 10 CFR 431.294	
EVSE - Electric Vehicle Supply Equipment	
ENERGY STAR program requirements for Electric Vehicle Supply Equipment, version 1.2	



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DOE 10 CFR Part 430, Subpart B, Appendix Y	Uniform test method for measuring the energy consumption of battery chargers
Appendix A to Subpart G of Part 431 Uniform Test Method for the Measurement of Thermal Efficiency and Standby Loss of Gas-Fired and Oil-Fired Storage Water Heaters and Storage-Type Instantaneous Water Heaters	
Appendix B to Subpart G of Part 431 Uniform Test Method for the Measurement of Standby Loss of Electric Storage Water Heaters and Storage-Type Instantaneous Water Heaters	
Appendix C to Subpart G of Part 431 Uniform Test Method for the Measurement of Thermal Efficiency and Standby Loss of Gas-Fired and Oil-Fired Instantaneous Water Heaters and Hot Water Supply Boilers (Other Than Storage-Type Instantaneous Water Heaters)	
Appendix D to Subpart G of Part 431 Uniform Test Method for the Measurement of Standby Loss of Electric Instantaneous Water Heaters (Other Than Storage-Type Instantaneous Water Heaters)	
Appendix E to Subpart G of Part 431 Uniform Test Method for the Measurement of Energy Efficiency of Commercial Heat Pump Water Heaters	
AHRI-BTS-2000: Method to Determine Efficiency of Commercial Space Heating Boilers	
AHRI IWH-TS1: Indirect fired water heaters testing standard	
ANSI/AHAM HRF-1: energy and internal volume of refrigerating appliances	
ANSI/AHAM Standard DH-1, Clauses 4, 5, and 7: dehumidifiers	
ANSI/ASHRAE Standard 72: method of testing commercial refrigerators and freezers	
ANSI/ASHRAE 124: methods of testing for rating combination space-heating and water-heating appliances	
ASHRAE Standard 32.1: methods of testing for rating vending machines for bottled, canned, and other sealed beverages	
ASHRAE 118.2, method of testing for rating residential water heaters	
CAN/CSA C300 Energy Performance and Capacity of Household Refrigerators, Refrigerator-Freezers, Freezers and Miscellaneous Refrigeration Products	
CAN/CSA C381.2 Test method for determining the energy performance of battery charging systems	
CAN/CSA-C749: performance of dehumidifiers	
CAN/CSA C813.1 Performance test method for uninterruptable power supplies	
CAN/CSA-P.2 Testing method for measuring the annual fuel utilization efficiency of residential gas-fired or oil-fired furnaces and boilers	
CAN/CSA-P.3 Testing method for measuring energy consumption and determining efficiencies of gas-fired and fuel oil-fired water heaters	
CSA C191 Performance of electric storage tank water heaters for domestic hot water service	

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CSA C657 Energy Performance Standard for Commercial Refrigeration Equipment	
CSA Standard C814: energy performance of ceiling fans	
IEC 62040-3	Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements (clause 6.4.1.6 efficiency only)
Solar Rating and Certification Corporation (SRCC) OG-300 certification	
Electrical	
ANSI C12.1	Electric Meters – Code for Electricity Metering
ANSI C12.20	Electric Meters 0.1, 0.2, and 0.5 Accuracy Classes
ANSI/ISA 61010-1 (82.02.01)	Safety requirements for electrical equipment for measurement, control, and laboratory use - part 1: general requirements
CAN/CSA C22.2 No. 0	General Requirements - Canadian Electrical Code, Part II
CAN/CSA C22.2 No. 0.5	Threaded Conduit Entries
CAN/CSA C22.2 No.14	Industrial Control Equipment
CAN/CSA C22.2 No. 94.1	Special purpose enclosures
CAN/CSA C22.2 No. 94.2	Enclosures for electrical equipment, environmental considerations
CSA C17	Alternate-Current Electricity Metering
CSA C22.2 NO. 61	Household cooking ranges
CSA C22.2 No. 107.1	Power conversion equipment
CSA C22.2 NO. 187	Electrostatic air cleaners (only Clause 7.4)
CSA C22.2 No. 280	Electric Vehicle Supply Equipment
CSA C22.2 No. 281.1	Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits; Part 1: General Requirements
CSA C22.2 No. 281.2	Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits; Particular Requirements for Protection Devices for Use in Charging Systems
CSA C22.2 No. 282	Plugs, Receptacles, and Couplers for Electric Vehicles
CSA C22.2 No. 346	DC charging equipment for electric vehicles
CSA C22.2 No. 348	Electric Vehicle Power Export Equipment (EVPE)
CSA C22.3 No. 9	Interconnection of distributed energy resources and electricity supply systems

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CSA E60335-2-65	Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances (only Clause 32)
CSA/UL 60950-1	Information technology equipment - safety - part 1: general requirement
CSA/UL 61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use - part 1: general requirements
CSA/EN/IEC/UL 62368-1	Audio/video, information, and communication technology equipment – Part 1: safety requirements Appendix M (only)
CSA/EN/IEC/UL 62841-1	Electric motor-operated hand-held tools, transportable tools, and lawn and garden machinery. Safety. general requirements Appendix K (only)
IEC 60335-2-65	Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances (only Clause 32.101)
IEC 60920	Ballasts for tubular fluorescent lamps - general and
IEC 61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use - part 1: general requirements
IEEE 1547	Interconnection and Interoperability of distributed energy resources with associated electric power system interfaces
IEEE 1547.1	Standard conformance test procedures for equipment interconnecting distributed energy resources with associated electric power system and associated interfaces
UL 50	Special purpose enclosures
UL 50E	Enclosures for electrical equipment, environmental considerations
UL 508	Industrial control equipment (only Clauses 45, 47, 48, 51, 52, 59, 61, 66, 132, 133, 156, 157, 159, 160, 198, 199, 202, 211, 212, 214, 215, 216)
UL 642	Compounds and tapes for threaded pipe joints
UL 810a	Electrochemical capacitors
UL 834	Heating, water supply, and power boilers -- electric
UL 858	Household electric ranges
UL 867	Safety for Electrostatic Air Cleaners (only Section 40)
UL 991	Tests for safety-related controls employing solid-state devices
UL 1699B	Photovoltaic (PV) Arc-Fault Circuit Protection

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UL 1741	Inverters, Converters, Controllers and Interconnection System Equipment for use with Distributed Energy Resources
UL 2202	DC charging equipment for electric vehicles
UL 2231-1	Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits; Part 1: General Requirements
UL 2231-2	Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits; Particular Requirements for Protection Devices for Use in Charging Systems
UL 2251	Plugs, Receptacles, and Couplers for Electric Vehicles
UL 2594	Electric Vehicle Supply Equipment
UL 2750	Outline of Investigation for Wireless Power Transfer Equipment for Electric Vehicles
UL 9741	Electric Vehicle Power Export Equipment (EVPE)
Energy Storage	
16 CFR 1263	Safety Standard for Button Cell or Coin Batteries and Consumer Products Containing such Batteries
ANSI/CAN/UL 1973	Standard for Batteries for Use in Stationary, Vehicle Auxiliary Power and Light Electric Rail (LER) Applications
ANSI/CAN/ULC/UL 2271	Batteries for use in light electric vehicles (LEV) applications
ANSI/CAN/UL/ULC 2580	Batteries for use in Electric Vehicles
ANSI/CAN/UL 2743	Standard for portable power packs
ANSI/CAN/UL 5840	UL Standard for safety electrical systems of battery powered aviation ground support equipment - First Edition
ANSI/CAN/UL 9540	Safety of energy storage systems and equipment
ANSI/CAN/UL 9540A	Testing the fire safety hazards associated with propagating thermal runaway within battery systems
ANSI C18.1M, Part 1	Portable primary cells and batteries with aqueous electrolyte—general and specifications
ANSI C18.1M, Part 2	Portable primary cells and batteries with aqueous electrolyte – safety standard
ANSI C18.2M, Part 1	Standard for portable rechargeable cells and batteries – general specifications
ANSI C18.2M, Part 2	Standard for portable rechargeable cells and batteries – safety standard

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ANSI C18.3M, Part 1	Standard for portable lithium primary cells and batteries – general and specifications
ANSI C18.3M, Part 2	Standard for portable lithium primary cells and batteries – safety standard
CSA C22.2 No 0.23	General requirements for battery powered appliances
CSA C22.2 No. 340	Battery Management Systems
CSA C22.2 60086-4	Primary batteries - part 4: safety of lithium batteries
CSA 60086-1	Primary batteries - part 1: general
CSA 60896-22	Stationary lead-acid batteries - Part 22: Valve regulated types - Requirements
CAN/CSA E61951-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells - Part 1: Nickel-cadmium
CAN/CSA E61951-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells - Part 2: Nickel-metal hydride
CAN/CSA E61959	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Mechanical tests for sealed portable secondary cells and batteries
CAN/CSA 62133	Secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications
CSA C22.2 NO. 62133-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes — Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications — Part 1: Nickel systems (Binational standard with UL 62133-1)
CSA C22.2 NO. 62133-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes — Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications — Part 2: Lithium systems (Binational standard with UL 62133-2)
EN/IEC 60086-1	Primary batteries - part 1: general
EN/IEC 60086-2	Primary batteries - part 2: physical and electrical specifications
EN/IEC 60086-3	Primary batteries - part 3: watch batteries
EN/IEC 60086-4	Primary batteries - part 4: safety of lithium batteries
EN/IEC 60086-5	Primary batteries - part 5: safety of batteries with aqueous electrolyte

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EN/IEC 60896-22	Stationary lead-acid batteries - Part 22: Valve regulated types - Requirements
EN/IEC 61851-1	Electric vehicle conductive charging system – Part 1: General requirements - Edition 3.0
EN/IEC 61851-23	Electric vehicle conductive charging system Part 23: D.C. electric vehicle charging station
EN/IEC 61851-24	Electric vehicle conductive charging system Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging
EN/IEC 61951-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells - Part 1: Nickel-cadmium
EN/IEC 61951-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells - Part 2: Nickel-metal hydride
EN/IEC 61959	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Mechanical tests for sealed portable secondary cells and batteries
EN/IEC 62133	Secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications
EN/IEC 62281	Safety of primary and secondary lithium cells and batteries during transport
EN/IEC 62477-1	Safety requirements for power electronic converter systems and equipment – Part 1: General - Edition 2.0
EN/IEC 62619	Secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for <i>secondary</i> lithium cells and batteries, for use in industrial applications
EN/IEC 62660-1	Secondary lithium-ion cells for the propulsion of electric road vehicles - part 1: performance testing
EN/IEC 62660-2	Secondary lithium-ion cells for the propulsion of electric road vehicles - part 2: reliability and abuse testing safety requirements
IEC 61951-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells - Part 1: Nickel-cadmium
IEC 61951-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells - Part 2: Nickel-metal hydride

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IEC 61959	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Mechanical tests for sealed portable secondary cells and batteries
IEC 62133-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes — Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications — Part 1: Nickel systems (Binational standard with UL 62133-1)
IEC 62133-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes — Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications — Part 2: Lithium systems (Binational standard with UL 62133-2)
IEC 62281	Safety of primary and secondary lithium cells and batteries during transport
IEC 62485-5	Safety requirements for secondary batteries and battery installations – Part 5: Safe operation of stationary lithium ion batteries - Edition 1.0
IEC 62619	Secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for <i>secondary</i> lithium cells and batteries, for use in industrial applications
IEC 62620	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for use in industrial applications
IEC 62660-1	Secondary lithium-ion cells for the propulsion of electric road vehicles - part 1: performance testing
IEC 62660-1	Secondary lithium-ion cells for the propulsion of electric road vehicles - part 2: reliability and abuse testing safety requirements
IEC 63056	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries for use in electrical energy storage systems
IEC TS 62933-5-1	Electrical energy storage (EES) systems – Part 5-1: Safety considerations for grid-integrated EES systems – General specification - Edition 1.0
IEC TS 62933-5-2	Electrical energy storage (EES) systems – Part 5-2: Safety requirements for grid-integrated EES systems – Electrochemical-based systems - Edition 1.0
UL 1642	Standard for safety lithium batteries
UL 1989	Standard for safety valve regulated or vented batteries with aqueous electrolytes
UL 2054	Standard for household and commercial batteries

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UL 2272	Electrical Systems for Personal E-Mobility Devices
UL 2575	Standard for safety lithium ion battery systems for use in electric power tool and motor operated, heating and lighting appliances
UL 2595	General requirements for battery powered appliances
UL 2849	Electrical Systems for E-Bikes
UL 4200A	Products Incorporating Button or Coin Cell Batteries of Lithium Technologies
UL 60086-4	Primary batteries - part 4: safety of lithium batteries
UL 62133	Secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications
UL 62133-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes — Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications — Part 1: Nickel systems (Binational standard with UL 62133-1)
UL 62133-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes — Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications — Part 2: Lithium systems (Binational standard with UL 62133-2)
UN 38.3	UN transportation testing for lithium cells and batteries [UN/DOT 38.3]
EPA WaterSense	
EPA WaterSense – commercial pre rinse spray valves ASSE 1018, 1061 and 1071	
EPA Watersense specification for flush-o-meter valve for water closets	
EPA WaterSense specification for flushing urinals	
EPA WaterSense specification for high efficiency lavatory faucet specification	
EPA WaterSense specifications for showerheads	
EPA WaterSense specification for tank type high efficiency toilet specification	
Hazardous Locations	
ANSI/ASME B1.20.1	Pipe Threads, General Purpose (INCH)
ANSI/IEC 60529	Degrees of protection provided by enclosures (IP code)
ANSI/ISA 12.12.01	Nonincendive electrical equipment for use in class I and II, division 2 and class III, divisions 1 and 2 hazardous (classified) locations

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ANSI/ISA 12.27.01	Requirements for process sealing between electrical systems and flammable or combustible process fluids
ANSI/ISA 60079-0 (12.00.01)	Explosive atmospheres - part 0: equipment - general requirements
ANSI/ISA 60079-1 (12.22.01)	Explosive atmospheres - part 1: equipment protection by flameproof enclosures "d"
ANSI/ISA 60079-2 (12.04.01)	Explosive atmospheres - part 2: equipment protection by pressurized enclosures "p"
ANSI/ISA 60079-5 (12.00.04)	Explosive atmospheres – part 5: equipment protection by powder filling "q"
ANSI/ISA 60079-6 (12.00.05)	Explosive atmospheres - part 6: equipment protection by oil immersion "o"
ANSI/ISA 60079-7 (12.16.01)	Explosive atmospheres - part 7: equipment protection by increased safety "e"
ANSI/ISA 60079-11 (12.02.01)	Explosive atmospheres - part 11: equipment protection by intrinsic safety "i"
ANSI/ISA 60079-15 (12.12.02)	Explosive atmospheres - part 15: equipment protection by type of protection "n"
ANSI/ISA 60079-18 (12.23.01)	Explosive atmospheres – part 18: equipment protection by encapsulation "m"
ANSI/ISA 60079-25 (12.02.05)	Explosive atmospheres - part 25: intrinsically safe electrical systems
ANSI/ISA 60079-26 (12.00.03)	Explosive atmospheres - part 26: equipment for use in class I, zone 0 hazardous (classified) locations
ANSI/ISA 60079-31 (12.10.03)	Explosive atmospheres - part 31: equipment dust ignition protection by enclosure "t"
ANSI/ISA 61241-2 (12.10.06)	Electrical apparatus for use in zone 21 and zone 22 hazardous (classified) locations - protection by pressurization "pD"
ANSI/UL 674	Electric motors and generators for use in hazardous (classified) locations
ANSI/UL 823	Standard for electric heaters for use in hazardous (classified) locations
ANSI/UL 844	Standard for luminaires for use in hazardous (classified) locations
ANSI/UL 913	Standard for intrinsically safe apparatus and associated apparatus for use in class I, II, III, division 1, hazardous (classified) locations
ANSI/UL 1203	Standard for explosion-proof and dust-ignition-proof electrical equipment for use in hazardous (classified) locations
ANSI/UL 60079-0	Explosive atmospheres - part 0: equipment - general requirements

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ANSI/UL 60079-1	Standard for explosive atmospheres - part 1: equipment protection by flameproof enclosures "d"
ANSI/UL 60079-2	Explosive atmospheres - part 2: equipment protection by pressurized enclosures "p"
ANSI/UL 60079-5	Standard for explosive atmospheres - part 5: equipment protection by powder filling "q"
ANSI/UL 60079-6	Standard for explosive atmospheres - part 6: equipment protection by liquid immersion 'o'
ANSI/UL 60079-7	Explosive atmospheres - part 7: equipment protection by increased safety 'e'
ANSI/UL 60079-11	Explosive atmospheres - part 11: equipment protection by intrinsic safety 'i'
ANSI/UL 60079-13	Explosive Atmospheres - Part 13: Equipment Protection By Pressurized Room
ANSI/UL 60079-15	Explosive atmospheres - part 15: equipment protection by type of protection 'n'
ANSI/UL 60079-18	Standard for explosive atmospheres - part 18: equipment protection by encapsulation 'm'
ANSI/UL 60079-25	Explosive atmospheres - part 25: intrinsically safe electrical systems
ANSI/UL 60079-26	Explosive atmospheres - part 26: equipment for use in class I, zone 0 hazardous (classified) locations
ANSI/UL 60079-31	Explosive atmospheres - part 31: equipment dust ignition protection by enclosure "t"
CAN/CSA C22.2 No. 25	Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations
CAN/CSA C22.2 No. 30	Explosion-proof equipment
CAN/CSA C22.2 NO. 130	Requirements for electrical resistance trace heating and heating device sets
CAN/CSA C22.2 NO. 137	Electric luminaires for use in hazardous locations
CAN/CSA C22.2 NO. 145	Electric motors and generators for use in hazardous (classified) locations
CAN/CSA C22.2 NO. 157	Intrinsically safe and non-incendive equipment for use in hazardous locations
CAN/CSA C22.2 NO. 159	Attachment plugs, receptacles and similar wiring devices for use in hazardous locations: class I, groups A, B, C and D; class II, group G, in coal or coke dust, and in gaseous mines

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CAN/CSA C22.2 NO. 174	Cables and cable glands for use in hazardous locations
CAN/CSA C22.2 NO. 213	Nonincendive electrical equipment for use in class I and ii, division 2 and class III, divisions 1 and 2 hazardous (classified) locations
CAN/CSA C22.2 NO. 60079-0	Explosive atmospheres - part 0: equipment - general requirements
CAN/CSA C22.2 NO. 60079-1	Standard for explosive atmospheres - part 1: equipment protection by flameproof enclosures "d"
CAN/CSA C22.2 NO. 60079-2	Explosive atmospheres - part 2: equipment protection by pressurized enclosures "p"
CAN/CSA C22.2 NO. 60079-5	Standard for explosive atmospheres - part 5: equipment protection by powder filling "q"
CAN/CSA C22.2 NO. 60079-6	Standard for explosive atmospheres - part 6: equipment protection by liquid immersion "o"
CAN/CSA C22.2 NO. 60079-7	Explosive atmospheres - part 7: equipment protection by increased safety "e"
CAN/CSA C22.2 NO. 60079-11	Explosive atmospheres - part 11: equipment protection by intrinsic safety "i"
CAN/CSA C22.2 NO. 60079-15	Explosive atmospheres - part 15: equipment protection by type of protection "n"
CAN/CSA C22.2 NO. 60079-18	Standard for explosive atmospheres - part 18: equipment protection by encapsulation "m"
CAN/CSA C22.2 NO. 60079-25	Explosive atmospheres - part 25: intrinsically safe electrical systems
CAN/CSA C22.2 NO. 60079-26	Explosive atmospheres - part 26: equipment for use in class I, zone 0 hazardous (classified) locations
CAN/CSA C22.2 NO. 60079-30-1	Explosive atmospheres - part 30-1: electrical resistance trace heating - general and testing requirements
CAN/CSA C22.2 NO. 60079-31	Explosive atmospheres - part 31: equipment dust ignition protection by enclosure "t"
CAN/CSA C22.2 No. 60079-40	Explosive atmospheres – Part 40: Requirements for process sealing between flammable process fluids and electrical systems
CAN/CSA C22.2 NO. 60529	Degrees of protection provided by enclosures (IP code)
CAN/CSA C60079-13	Explosive atmospheres — Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v"
EN 24003	Permeable sintered metal materials - Determination of bubble test pore size

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EN 60034-5	Rotating electrical machines Part 5; Degree of protection provided by integral design of rotating electrical machines (IP code)
EN 60079-0	Explosive atmospheres - part 0: equipment - general requirements
EN 60079-1	Standard for explosive atmospheres - part 1: equipment protection by flameproof enclosures "d"
EN 60079-2	Explosive atmospheres - part 2: equipment protection by pressurized enclosures "p"
EN 60079-5	Standard for explosive atmospheres - part 5: equipment protection by powder filling "q"
EN 60079-6	Standard for explosive atmospheres - part 6: equipment protection by liquid immersion 'o'
EN 60079-7	Explosive atmospheres - part 7: equipment protection by increased safety 'e'
EN 60079-11	Explosive atmospheres - part 11: equipment protection by intrinsic safety 'i'
EN 60079-13	Explosive atmospheres — Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v"
EN 60079-15	Explosive atmospheres - part 15: equipment protection by type of protection 'n'
EN 60079-18	Standard for explosive atmospheres - part 18: equipment protection by encapsulation 'm'
EN 60079-25	Explosive atmospheres - part 25: intrinsically safe electrical systems
EN 60079-26	Explosive atmospheres - part 26: equipment for use in class I, zone 0 hazardous (classified) locations
EN 60079-30-1	Explosive atmospheres - part 30-1: electrical resistance trace heating - general and testing requirements
EN 60079-31	Explosive atmospheres - part 31: equipment dust ignition protection by enclosure "t"
FM 3600	Electrical equipment for use in hazardous (classified) locations general requirements
FM 3610	Intrinsically safe apparatus and associated apparatus for use in class I, II, & III, division 1 hazardous locations
FM 3611	Nonincendive Electrical equipment for use in class I, division 2; class II, division 2; and class III, division 1 and 2 hazardous locations
FM 3615	Explosion proof electrical equipment, general requirements

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FM 3616	Approval standard for dust-ignition proof electrical equipment general requirements
FM 3620	Purged and pressurized electrical equipment for hazardous (classified) locations
IEC 60034-5	Rotating electrical machines Part 5; Degree of protection provided by integral design of rotating electrical machines (IP code)
IEC 60079-0	Explosive atmospheres - part 0: equipment - general requirements
IEC 60079-1	Standard for explosive atmospheres - part 1: equipment protection by flameproof enclosures "d"
IEC 60079-2	Explosive atmospheres - part 2: equipment protection by pressurized enclosures "p"
IEC 60079-5	Standard for explosive atmospheres - part 5: equipment protection by powder filling "q"
IEC 60079-6	Standard for explosive atmospheres - part 6: equipment protection by liquid immersion 'o'
IEC 60079-7	Explosive atmospheres - part 7: equipment protection by increased safety 'e'
IEC 60079-11	Explosive atmospheres - part 11: equipment protection by intrinsic safety 'i'
IEC 60079-13	Explosive atmospheres — Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v"
IEC 60079-15	Explosive atmospheres - part 15: equipment protection by type of protection 'n'
IEC 60079-18	Standard for explosive atmospheres - part 18: equipment protection by encapsulation 'm'
IEC 60079-25	Explosive atmospheres - part 25: intrinsically safe electrical systems
IEC 60079-26	Explosive atmospheres - part 26: equipment for use in class I, zone 0 hazardous (classified) locations
IEC 60079-30-1	Explosive atmospheres - part 30-1: electrical resistance trace heating - general and testing requirements
IEC 60079-31	Explosive atmospheres - part 31: equipment dust ignition protection by enclosure "t"
IEC 60529	Degrees of protection provided by enclosures (IP code)
IEC TS 60079-40	Explosive atmospheres – Part 40: Requirements for process sealing between flammable process fluids and electrical systems

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NFPA 496	Standard for purged and pressurized enclosures for electrical equipment
Heating/Cooling	
ANSI/ASME B16.33	Manually operated metallic gas valves for use in gas piping systems up to 125 psi (sizes NPS 1/2 - NPS 2)
ANSI/ASME B16.38	Large metallic valves for gas distribution manually operated, Nps 2[1/2] (dn 65) To Nps 12 (dn 300), 125 Psig (8.6 Bar) maximum
ANSI/ASME B16.40	Manually operated thermoplastic gas shutoffs and valves in gas distribution systems
ANSI/ASME B16.44	Manually operated metallic gas valves for use in above ground piping systems up to 5 psi
ANSI/CAN/UL 536	Standard for safety – flexible metallic hose
ANSI/CSA America FC 3	Portable fuel cell power systems
ANSI/CSA America PRD 1	Pressure relief devices for natural gas vehicle (NGV) fuel containers
ANSI/CSA LC3	Manually operated electric gas ignition systems and components
ANSI/CSA NGV 1	Compressed natural gas vehicle (NGV) fueling connection devices
ANSI/CSA NGV 2	Compressed natural gas vehicle fuel containers
ANSI/CSA NGV 5.1	Residential fueling appliances
ANSI/CSA/AGA NGV 3.1	Fuel system components for natural gas powered vehicles
ANSI/IAS LC2	Agricultural heaters
ANSI/IAS NGV 4.1	NGV dispensing systems
ANSI/IAS NGV 4.2	Hoses for natural gas dispensing systems
ANSI/IAS NGV 4.4	Breakaway devices for natural gas dispensing hoses and system
ANSI/IAS NGV 4.6	Manually operated valves for natural gas dispensing systems
ANSI LC 1/CSA 6.26	Fuel gas piping systems using corrugated stainless steel tubing
ANSI LC 4/CSA 6.32	Press-connect metallic fittings for use in fuel gas distribution systems
ANSI LC 6	Natural gas operated diaphragm pumps
ANSI NGV 4.8	Natural gas vehicle fueling station reciprocating compressor guidelines
ANSI/UL 44	Thermoset-insulated wires and cables
ANSI/UL 252	Standard for compressed gas regulators

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ANSI/UL 429	Standard for electrically operated valves
ANSI/UL 1002	Standard for safety electrically operated valves for use in hazardous (classified) locations
ANSI Z21.1	Household cooking gas appliances
ANSI Z21.5.1	Gas clothes dryers, volume I, type I clothes dryers
ANSI Z21.5.2	Gas clothes dryers, volume II, type 2 clothes dryers
ANSI Z21.10.1	Gas water heaters, volume I, storage water heaters with input ratings of 75,000 Btu per hour or less
ANSI Z21.10.3	Gas-fired water heaters, volume III, storage water heaters with input ratings above 75,000 Btu per hour, circulating and instantaneous
ANSI Z21.11.2	Gas-fired room heaters, volume II, unvented room heaters
ANSI Z21.12	Draft hoods
ANSI Z21.13	Gas-fired low pressure steam and hot water boilers
ANSI Z21.15	Manually operated gas valves for appliances, appliance connector valves and hose end valves
ANSI Z21.17	Domestic gas conversion burners
ANSI Z21.18	Gas appliance pressure regulators
ANSI Z21.19	Refrigerators using gas fuel
ANSI Z21.20/CSA 60730-2-5	Automatic electrical controls for household and similar use - Part 2-5: Particular requirements for automatic electrical burner control systems
ANSI Z21.21	Automatic valves for gas appliances
ANSI Z21.22	Relief valves for hot water supply systems
ANSI Z21.23	Gas appliance thermostats
ANSI Z21.24	Connectors for gas appliances
ANSI Z21.35	Pilot gas filters
ANSI Z21.40.1	Gas-fired, heat activated air conditioning and heat pump appliances
ANSI Z21.40.2	Gas-fired, work activated air-conditioning and heat pump appliances (internal combustion)
ANSI Z21.41	Quick disconnect devices for use with gas fuel appliances
ANSI Z21.42	Gas-fired illuminating appliances
ANSI Z21.47	Gas-fired central furnaces

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ANSI Z21.50	Vented decorative gas appliances
ANSI Z21.54	Gas hose connectors for portable outdoor gas-fired appliances
ANSI Z21.56	Gas-fired pool heaters
ANSI Z21.57	Recreational vehicle cooking gas appliances
ANSI Z21.58	Outdoor cooking gas appliances
ANSI Z21.60	Decorative gas appliances for installation in solid-fuel burning fireplaces
ANSI Z21.61	Gas-fired toilets
ANSI Z21.63	Portable type gas camp heaters
ANSI Z21.66	Automatic vent damper devices for use with gas-fired appliances
ANSI Z21.69	Connectors for moveable gas appliances
ANSI Z21.71	Automatic intermittent pilot ignition systems for field installation
ANSI Z21.72	Gas-fired room heaters, volume II, unvented room heaters
ANSI Z21.73	Portable type gas camp lights
ANSI Z21.74	Portable refrigerators for use with HD-5 propane gas
ANSI Z21.75	Connectors for outdoor gas appliances and manufactured homes
ANSI Z21.76	Gas-fired unvented catalytic room heaters for use with propane gas
ANSI Z21.77	Manually operated piezo-electric spark gas ignition systems and components
ANSI Z21.78	Combination gas controls for gas appliances
ANSI Z21.79	Gas appliance sediment traps
ANSI Z21.80	Line pressure regulators
ANSI Z21.81	Cylinder connection devices
ANSI Z21.83	Gas appliance thermostats
ANSI Z21.84	Standard for manually lighted, natural gas, decorative gas appliances for installation in solid-fuel burning fireplaces
ANSI Z21.86	Vented gas-fired space heating appliances
ANSI Z21.87	Automatic gas shutoff devices for hot water supply systems
ANSI Z21.88	Vented gas fireplace heaters
ANSI Z21.89	Outdoor cooking specialty gas appliances

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ANSI Z21.90	Gas convenience outlets and optional enclosures
ANSI Z21.91	Ventless firebox enclosures for gas-fired unvented decorative room heaters
ANSI Z21.92	Manually operated electric gas ignition systems and components
ANSI Z21.97	Outdoor decorative gas appliances
ANSI Z21.101	Gas hose connectors for portable and moveable gas appliances
ANSI Z21.103	Unvented Portable Type Gas Camp Heaters For Indoor And Outdoor Use
ANSI Z83.4	Non-recirculating direct gas-fired industrial air heaters
ANSI Z83.7	Gas-fired construction heaters
ANSI Z83.8	Gas unit heaters, gas packaged heaters, gas utility heaters, and gas-fired duct furnaces
ANSI Z83.11	Gas food service equipment
ANSI Z83.18	Recirculating direct gas-fired industrial air heaters
ANSI Z83.19	Gas-fired high-intensity infrared heaters
ANSI Z83.20	Gas-fired tubular and low-intensity infrared heaters
ANSI Z83.21	Commercial dishwashers
ANSI Z83.26	Gas-fired outdoor infrared patio heaters
AS 4551	Domestic gas cooking appliances (amendments 1 and 2)
AS 4554	Gas laundry dryers
AS 4557	Domestic outdoor gas barbecues (amendments 1 and 2)
AS 4563	Commercial catering gas equipment
ASCE 25	Earthquake-actuated automatic gas shutoff devices
CAN 6.19	Residential carbon monoxide alarming devices
CAN1-1.1	Domestic gas ranges
CAN1-2.20	Gas-fired brooders
CAN1-2.23	Gas-fired portable infra-red heaters
CAN1-3.1	Industrial and commercial gas-fired package boilers
CAN1-8.1	Elastomeric hose and hose couplings for conducting propane and natural gas

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CAN/CGA 8.3	Safe practices for storage and handling of nitrous oxide
CGA 1.3	Domestic hot plates and laundry stoves
CGA 2.29	Hand-held torches for fuel gases
CGA 2.91	Gas-fired, heat activated air conditioning and heat pump appliances
CGA 2.92	Gas-fired, work activated air-conditioning and heat pump appliances (internal combustion)
CGA 2.94	Performance testing and rating of gas-fired, air conditioning and heat pump appliances
CGA 3.2	Industrial and commercial gas-fired package furnaces
CGA 3.3	Industrial and commercial gas-designed atmospherically-fired vertical flue boilers & hot water supply heaters
CGA 3.4	Industrial and commercial gas-fired conversion burners
CGA.6.14	Automatic vent damper devices for use with gas-fired appliances
CGA 6.21	Gas appliance sediment traps
CGA 12.3	Fuel system components for natural gas powered vehicles
CR 90-002	Earthquake actuated automatic shut off valves
CSA 1.4	Refrigerators using gas fuel
CSA 1.6	Outdoor cooking gas appliances
CSA 1.8	Gas food service equipment
CSA 1.18	Outdoor cooking specialty gas appliances
CSA 1.95	Gas-fired greenhouse heaters
CSA 1.99 US	Automatic water supply shutoff valves and components for use on hot water heaters
CSA 2.03 US	Automatic vent devices for use outdoors on fireplace chimneys
CSA 2.3	Gas-fired central furnaces
CSA 2.6	Gas unit heaters, gas packaged heaters, gas utility heaters, and gas-fired duct furnaces
CSA 2.7	Domestic gas conversion burners
CSA 2.14	Gas-fired construction heaters
CSA 2.22	Vented decorative gas appliances

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CSA 2.26	Decorative gas appliances for installation in solid-fuel burning fireplaces
CSA 2.32	Vented gas-fired space heating appliances
CSA 2.33	Vented gas fireplace heaters
CSA 2.34	Gas-fired tubular and low-intensity infrared heaters
CSA 2.35	Gas-fired high-intensity infrared heaters
CSA 2.37	Gas-fired outdoor infrared patio heaters
CSA 2.41	Outdoor decorative gas appliances
CSA 2.94 US	Hand-held LP torches for use with remote fuel supply
CSA 3.7	Non-recirculating direct gas-fired industrial air heaters
CSA 3.8	Gas-fired equipment for drying farm crops
CSA 4.01 US	Valve proving systems for automatic gas shut-off valves
CSA 4.1	Gas water heaters, volume I, storage water heaters with input ratings of 75,000 Btu per hour or less
CSA 4.3	Gas-fired water heaters, volume III, storage water heaters with input ratings above 75,000 Btu per hour, circulating and instantaneous
CSA 4.4	Relief valves for hot water supply systems
CSA 4.6	Automatic gas shutoff devices for hot water supply systems
CSA 4.7	Gas-fired pool heaters
CSA 4.9	Gas-fired low pressure steam and hot water boilers
CSA 4.98 US	Gas-fired portable heaters for recreational and commercial use
CSA 5.01 US	Gas/Air ratio controls for gas burning appliances
CSA 6.3	Gas appliance pressure regulators
CSA 6.5	Automatic valves for gas appliances
CSA 6.8	Pilot gas filters
CSA 6.9	Quick disconnect devices for use with gas fuel appliances
CSA 6.10	Connectors for gas appliances
CSA 6.16	Connectors for moveable gas appliances
CSA 6.20	Combination gas controls for gas appliances
CSA 6.22	Line pressure regulators

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CSA 6.23	Manually operated piezo-electric spark gas ignition systems and components
CSA 6.24	Gas convenience outlets and optional enclosures
CSA 6.25	Cylinder connection devices
CSA 6.27	Connectors for outdoor gas appliances and manufactured homes
CSA 6.29	Manually operated electric gas ignition systems and components
CSA 7.1	Gas clothes dryers, volume I, type I clothes dryers
CSA 7.2	Gas clothes dryers, volume II, type 2 clothes dryers
CSA 7.89 US	Residential radiant tube heaters
CSA 8.4	Gas hose connectors for portable outdoor gas-fired appliances
CSA 8.5	Gas hose connectors for portable and moveable gas appliances
CSA 8.94 US	Gas-fired brooders
CSA 8.96 US	Gas-fired decorative illuminating appliances outdoor installation
CSA 9.1	Manually operated gas valves for appliances, appliance connector valves and hose end valves
CSA 9.96 US	Portable outdoor illuminating appliances
CSA 10.96 US	Unit heaters for residential installation
CSA 11.1	Portable type gas camp lights
CSA 11.2	Gas-fired room heaters, volume II, unvented room heaters
CSA 11.3	Portable type gas camp heaters
CSA 12.5	NGV dispensing systems
CSA 12.8	Natural gas vehicle fueling station reciprocating compressor guidelines
CSA 12.52	Hoses for natural gas dispensing systems
CSA 12.54	Breakaway devices for natural gas dispensing hoses and system
CSA 12.56	Manually operated valves for natural gas dispensing systems
CSA B140.2.1	Atomizing-type oil burners
CSA B140.4	Oil-fired warm air furnaces
CSA B140.7	Oil-burning equipment: steam and hot-water boilers
CSA B140.8	Portable industrial oil-fired heaters

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CSA B140.9.3	Portable kerosene-fired heaters
CSA B140.12	Oil-burning equipment: service water heaters for domestic hot water, space heating, and swimming pools
CSA C22.2 No 168	Commercial dishwashers
CSA IR 5-21	Gas thermal shutoff devices
IAS 1-89	Nonmetallic dip tubes for use in gas-fired water heaters
IAS 1-91	Indirect water heaters for use with external heat sources
IAS 1-94	Gas-fired ceramic kilns – draft No. 5
IAS 2-87	Natural gas compressor systems
IAS 2-90	Natural gas vehicle (NGV) fueling appliances
IAS 2-93	Manually operated valves for high pressure natural gas
IAS 3-90	Outdoor portable camp stoves
IAS 3-91	Non-residential natural gas compressors
IAS 3-92	Excess flow valves
IAS 3-93	Automatic, pressure operated valves for high pressure natural gas service
IAS 4-90	Pipe joint sealing compounds and materials
IAS 5-94	Gas-fired vapor abatement sys.
IAS 6-90	Mechanical venting systems
IAS 6-96	Carbon monoxide alarms for residential use
IAS 12-94	Gas-fired humidifiers
NSF 456	Vaccine Storage
SAE 100R Series	Test and test procedures for hydraulic hose and hose assemblies
SAE J343	Test and test procedures for SAE 100R series hydraulic hose and hose assemblies
SAE J517	Hydraulic hose specification
UL 125	Standard for flow control valves for anhydrous ammonia and LP-gas
UL 132	Standard for safety relief valves for anhydrous ammonia and LP-gas
UL 197	Standard for commercial electric cooking appliances

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UL 244A	Standard for solid-state controls for appliances
UL 296	Standard for oil burners
UL 307B	Standard for gas-burning heating appliances for manufactured homes and recreational vehicles
UL 353	Standard for limit controls
UL 372	Automatic Electrical Controls for Household and Similar Use - Part 2: Particular Requirements for Burner Ignition Systems and Components
UL 378	Standard for draft equipment
UL 441	Standard for gas vents
UL 462	Standard for heat re-claimers for gas-, oil-, or solid fuel-fired appliances
UL 495	Standard for power-operated dispensing devices for LP-gas
UL 567	Standard for emergency breakaway fittings, swivel connectors and pipe-connection fittings for petroleum products and LP-gas
UL 569	Standard for pigtails and flexible hose connectors for LP-gas
UL 726	Standard for oil-fired boiler assemblies
UL 727	Standard for oil-fired central furnaces
UL 729	Standard for oil-fired floor furnaces
UL 730	Standard for oil-fired wall furnaces
UL 731	Standard for oil-fired unit heaters
UL 732	Standard for oil-fired storage tank water heaters
UL 733	Standard for oil-fired air heaters and direct-fired heaters
UL 795	Standard for commercial-industrial gas heating equipment
UL 969	Standard for marking and labeling systems
UL 1075	Standard for safety gas-fired cooking appliances for recreational vehicles
UL 1584	Standard for teflon wire
UL 2034	Standard for single and multiple station carbon monoxide alarms
UL 60730-2-5	Automatic electrical controls for household and similar use - Part 2-5: Particular requirements for automatic electrical burner control systems
Plumbing	



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ANSI/ISEA Z358.1	Emergency eyewash and shower equipment
ANSI/UL Standard 969	Standard for marking and labeling systems
ASME A112.3.1	Stainless steel drainage systems for sanitary DWV, storm, and vacuum applications, above and below ground
ASME A112.3.4	Macerating Toilet Systems and Waste Pumping systems for plumbing fixtures
ASME/CSA A112.4.2	Personnel hygiene devices for water closets
ASME A112.4.14	Manually operated 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 Tank
ASME A112.6.7	Sanitary Floor Sinks
ASME A112.6.8	Trench Drains
ASME A112.14.1	Backwater valves
ASME A112.14.3	Grease interceptors
ASME A112.14.4	Grease removal devices
ASME A112.18.1	Plumbing supply fittings
ASME A112.18.2	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 A112.19.12	Wall Mounted, Pedestal Mounted, Adjustable, Elevating, Tilting, and Pivoting Lavatory, Sink, and Shampoo Bowl Carrier Systems and Drain Waste Systems
ASME A112.19.14	6-litre water closet equipped with dual flushing device
ASME A112.19.15	Bathtubs/Whirlpool Bathtubs with Pressure Sealed Doors
ASME A112.19.19	Vitreous China Nonwater Urinals
ASME A112.19.4	Porcelain enameled formed steel plumbing fixtures
ASME A112.19.5	Flush valves and spuds for water closets, urinals, and tanks
ASME A112.36.2	Cleanouts

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ASME A112.1002	Anti-siphon fill valves for water closet tanks
ASME A112.1016	Automatic compensating valves for individual showers and tub/shower combinations
ASME A112.1037	Performance requirements for pressurized flushing devices for plumbing fixtures
ASME A112.1070	Performance requirements for water temperature limiting devices
ASME A119.1	Enameled cast iron and enameled steel plumbing fixtures
ASME A119.2	Ceramic plumbing fixtures
ASME A119.3	Stainless steel plumbing fixtures
ASME B16.51	Copper And Copper Alloy Press-Connect Pressure Fittings (Exclusions: Clauses 6.1, 6.2, 6.3, 14.9)
ASSE 1001	Performance requirements for atmospheric type vacuum breakers
ASSE 1002	Anti-siphon fill valves for water closet tanks
ASSE 1003	Performance requirements for water pressure reducing valves for domestic water distribution systems
ASSE 1005	Performance requirements for water heater drain valves 3/4 inch size
ASSE 1010	Performance requirements for water hammer arresters
ASSE 1011	Performance requirements for hose connection vacuum breakers
ASSE 1012	Performance requirements for backflow preventers with an intermediate atmospheric vent
ASSE 1013	Performance requirements for reduced pressure principle backflow preventers and reduced pressure principle fire protection backflow preventers
ASSE 1014	Performance requirements for backflow prevention devices for hand-held showers
ASSE 1015	Performance requirements for double check backflow prevention assemblies and double check fire protection backflow prevention assemblies
ASSE 1016	Automatic compensating valves for individual showers and tub/shower combinations
ASSE 1017	Performance requirements for temperature actuated mixing valves for hot water distribution systems
ASSE 1018	Performance requirements for trap seal primer valves - potable water supplied

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ASSE 1019	Performance requirements for vacuum breaker wall hydrants, freeze resistant, automatic draining type
ASSE 1020	Performance requirements for pressure vacuum breaker assembly
ASSE 1022	Backflow preventer
ASSE 1024	Performance requirements for dual check backflow preventers
ASSE 1025	Performance requirements for diverters for plumbing faucets with hose spray, anti-siphon type, residential applications
ASSE 1032	Performance Requirements for Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type
ASSE 1035	Performance requirements for laboratory faucet backflow preventers
ASSE 1037	Performance requirements for pressurized flushing devices for plumbing fixtures
ASSE 1044	Performance requirements for trap seal primer - drainage types and electric design types
ASSE 1047	Performance requirements for reduced pressure detector fire protection backflow prevention assemblies
ASSE 1048	Performance requirements for double check detector fire protection backflow prevention assemblies
ASSE 1051	Performance requirements for individual and branch type air admittance valves for sanitary drainage systems
ASSE 1052	Performance requirements for hose connection backflow preventers
ASSE 1053	Performance requirements for dual check backflow preventer wall hydrants - freeze resistant type
ASSE 1055	Performance requirements for chemical dispensers
ASSE 1056	Performance requirements for spill resistant vacuum breaker assemblies
ASSE 1057	Performance Requirements for Freeze Resistant Sanitary Yard Hydrants with Backflow Protection
ASSE 1061	Performance requirements for push-fit fittings
ASSE 1062	Performance requirements for temperature actuated, flow reduction (TAFR) valves for individual supply fittings
ASSE 1066	Performance requirements for individual pressure balancing in-line valves for individual fixture fittings
ASSE 1069	Automatic temperature control mixing valves

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ASSE 1070	Performance requirements for water temperature limiting devices
ASSE 1071	Performance requirements for temperature actuated mixing valves for plumbed emergency equipment
ASSE 1081	Backflow preventers with integrated pressure reducing boiler feed valves and intermediate vent style for domestic and light commercial water distribution systems
ASSE 1084	Performance Requirements for Water Heaters with Temperature Limiting Capacity
ASSE 1085	Performance Requirements for Water Heaters for Emergency Equipment
ASTM C1173	Standard specification for flexible transition couplings for underground piping systems
ASTM F1807	Standard specification for metal insert fittings utilizing a copper crimp ring for SDR9 cross-linked polyethylene (PEX) tubing and SDR9 polyethylene of raised temperature (PE-RT) tubing
CSA B45.0	General requirements for plumbing fixtures
CSA B45.1	Ceramic plumbing fixtures
CSA B45.2	Enameled cast iron and enameled steel plumbing fixtures
CSA B45.3	Porcelain-enameled formed steel plumbing fixtures
CSA B45.4	Stainless steel plumbing fixtures
CSA B45.5 / IAPMO Z124	Plastic plumbing fixtures
CSA B45.6	Non-recirculating toilets, vacuum toilets, and waste-holding tanks for use in recreational vehicles
CSA B45.7	Self-contained, recirculating, chemically controlled toilets for use in recreational vehicles
CSA B45.8	Terrazzo, concrete, and natural stone plumbing fixtures
CSA B45.9	Macerating Toilet Systems and Waste Pumping systems for plumbing fixtures
CSA B45.10	Hydromassage bathtub systems
CSA B45.11	Glass plumbing fixtures
CSA B45.12	Aluminum and Copper Plumbing
CS B45.15	Flush valves and spuds for water closets, urinals, and tanks
CSA B45.16	Personnel hygiene devices for water closets

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CSA B64.0	General requirements and test methods for vacuum breakers and backflow preventers
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	Hose connection vacuum breakers (HCVB) with manual drainage feature
CSA B64.2.1.1	Hose connection dual check vacuum breakers (HDCVB)
CSA B64.2.2	Hose connection vacuum breakers (HCVB) with automatic drainage feature
CSA B64.3	Dual check valve backflow preventers with atmospheric port (DCAP)
CSA B64.3.1	Dual check valve backflow preventers with atmospheric port for carbonators (DCAPC)
CSA B64.4	Reduced pressure principle (RP) backflow preventers
CSA B64.4.1	Reduced pressure principle backflow preventers for fire protection systems
CSA B64.5	Double check valve (DCVA) backflow preventers
CSA B64.5.1	Double check valve backflow preventers for fire protection systems (DCVAF)
CSA B64.6	Dual check valve (DuC) backflow preventers
CSA B64.6.1	Dual check valve backflow preventers for fire protection systems (DuCF)
CSA B64.7	Laboratory faucet vacuum breakers (LFVB)
CSA B64.8	Dual check valve backflow preventers with intermediate vent (DuCV)
CSA B64.9	Single check valve backflow preventers for fire protection systems (SCVAF)
CSA B70	Cast iron soil pipe, fittings, and means of joining
CSA B79.2	Cleanouts
CSA B79.7	Sanitary Floor Sinks
CSA B79.8	Trench Drains
CSA B125.1	Plumbing supply fittings
CSA B125.2	Plumbing waste fittings

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CSA B125.3	Plumbing fittings
CSA B125.6	Flexible water connectors
CSA B125.12	Anti-siphon fill valves for water closet tanks
CSA B125.14	Manually operated valves for use in plumbing systems
CSA B125.16	Automatic compensating valves for individual showers and tub/shower combinations
CSA B125.37	Performance requirements for pressurized flushing devices for plumbing fixtures
CSA B125.70	Performance requirements for water temperature limiting devices
CSA B137.0	Definitions, general requirements, and methods of testing for thermoplastic pressure piping
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 B137.4	Polyethylene (PE) piping systems for gas services
CSA B137.4.1	Electrofusion-type polyethylene (PE) fittings for gas services
CSA B137.5	Crosslinked polyethylene (PEX) tubing systems for pressure applications
CSA B137.6	Chlorinated polyvinylchloride (CPVC) pipe, tubing, and fittings for hot and cold-water distribution systems
CSA B137.8	Polybutylene (PB) piping systems for pressure applications
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 B137.12	Polyamide (PA) piping systems for gas services
CSA B356	Water pressure reducing valves for domestic water supply systems
CSA B481.1	Grease interceptors
CSA B481.5	Grease removal devices

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CSA B602	Mechanical couplings for drain, waste, and vent pipe and sewer pipe
CSA C22.2 NO. 0.15	Adhesive labels
CSA Z240.3.2	Plumbing requirements for recreational vehicles (except section 9)
IAPMO Z124	Plastic plumbing fixtures
IAPMO Z401	Glass plumbing fixtures
IAPMO Z402	Aluminum and Copper Plumbing
IAPMO Z403	Terrazzo, concrete, and natural stone plumbing fixtures
IAPMO/ANSI Z124.8	Plastic liners for bathtubs and shower receptors
IAPMO/ANSI Z1157	Ball valves
IAPMO/ANSI/CAN Z1117	Standard for Press Connections (Exclusions: Clause 5.2.2, 5.2.3, 5.9)
IAPMO IGC 132	Vacuum Toilet Systems for Recreational Vehicles
IAPMO IGC 235	Wood plumbing fixtures
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 TS 1	Mechanical seal toilets with or w/out integral wastewater tank for use in recreational vehicles
IAPMO TS 2	Wasteholding tanks
IAPMO TS 4	Pressure and non-pressure potable water tanks for use in recreational vehicles
IAPMO TS 8	Backflow preventer
IAPMO TS 11	Non-metallic fixtures
IAPMO TS 15	Hand actuated water pumps
IAPMO TS 20	Stainless steel plumbing fixtures for use in recreational vehicles
IAPMO TS 21	Backflow preventers with flexible shower and shampoo hoses
IAPMO TS 22	Porcelain enameled formed steel plumbing fixtures
IAPMO TS 23	Detachable liquid waste holding tanks
IAPMO TS 25	Reinforced Hoses for Recreational Vehicle Pressurized Water Systems
IAPMO TS 28	Water Pressure Reducing Regulators for Use in Recreational Vehicles

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IAPMO TS 30	Termination valves for use in recreational vehicles
IAPMO PS 69	Bathwaste and overflow assemblies with tub filler spout
NSF ORD 14259	Grease interceptors with related flow less than 26 L/min
NSF SE 1495	ABS, PVC, and SS residential floor drains
PDI G101	Testing and rating procedure for hydro mechanical grease interceptors with appendix of installation and maintenance – plumbing and drainage institute
PDI-WH 201	Water Hammer Arresters

AHAM: Association of Home Appliance Manufacturers

AHRI: The Air-condition, Heating, and Refrigeration Institute

ASCE: American Society of Civil Engineers

ASHRAE: American Society of Heating, Refrigerating and Air-conditioning Engineers

ASSE: American Society of Safety Engineers

CFR: Code of Federal Regulations

CGA: Compressed Gas Association

FMRC: Factory Mutual Research Corporation

IEC: International Electrotechnical Commission

ISA: International Society of Automation

NEMA: National Electrical Manufacturers Association

NFPA: National Fire Protection Association

PDI: Plumbing and Drainage Institute

SAE: Society of Automotive Engineers

UL: Underwriters Laboratories

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