

2009

UNIFORM SWIMMING POOL, SPA & HOT TUB CODE™



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TABLE OF CONTENTS
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An American National Standard

IAPMO/ANSI USPSHTC 1-2009

2009 Uniform Swimming Pool, Spa and Hot Tub Code™



REVISION MARKINGS

Code changes from the 2006 edition are marked in the margins as follows:

→ An arrow denotes a deletion.

| A vertical denotes a change.

Information on referenced publications can be found in Chapter 6.

All pressures used in this code are gauge pressures unless otherwise indicated.

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FOREWORD

The advantages of a Uniform Swimming Pool, Spa and Hot Tub Code, acceptable in the various jurisdictions, have long been recognized. The increasing needs for such a code induced the International Association of Plumbing and Mechanical Officials to pass a resolution at its 46th Annual Business Conference, which directed the president to form a committee to develop a basic swimming pool, spa and hot tub document.

After months of concerted endeavor, this committee, composed of representatives from industry and public utility companies, inspectors, plumbers, and engineers, successfully completed the first edition of the Uniform Swimming Pool, Spa and Hot Tub Code, which was officially adopted by the International Association of Plumbing and Mechanical Officials in September 1976.

In presenting the 2009 edition, IAPMO recognizes that the ultimate code has not yet been attained. Users of this code are respectfully urged to present whatever amendments their experience may dictate to IAPMO World Headquarters in accordance with the Regulations Governing Consensus Development of the Uniform Solar Energy and Swimming Pool, Spa & Hot Tub Codes. Amendments adopted by the committee are published every three years. This process serves to keep this basic document abreast of technological development.

The use of this document is intended to provide a safe and functional swimming pool, spa and hot tub system with minimum regulations. Users of the Uniform Swimming Pool, Spa and Hot Tub Code are urged to strive for not just the minimum good swimming pool, spa and hot tub system, but to keep the consumer in mind. With the exception of "high use and wear portions" of the system, the swimming pool, spa and hot tub system should have the same life as other components of the building.

The Uniform Plumbing Code™ (UPC™) sections in this code are taken from the 2009 edition of the UPC.

The Uniform Mechanical Code™(UMC™) sections in this code are taken from the 2009 edition of the UMC.

The Uniform Swimming Pool, Spa and Hot Tub Code is dedicated to all those who have unselfishly devoted their time and effort to create and maintain it.

COMMITTEE ON UNIFORM SWIMMING POOL, SPA AND HOT TUB CODE

These lists represent the membership at the time the Committee was balloted on the final text of this edition. Since that time, changes in the membership may have occurred.

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- U** *User* – Representatives of owners, owners' organizations, designers and consultants retained by owners, testing laboratories retained by owners, and insurance companies serving owners.
- GI** *General Interest* – General Interest members are neither Producers nor Users. This category includes but is not limited to educators, researchers, representatives of regulatory agencies (including the enforcing authority), and technical societies.

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- (b) identification of the document, edition of the document, and paragraph of the document to which the proposal is directed;
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- (e) the signature of the submitter; and
- (f) two copies of any document(s) (other than an IAPMO document) being proposed as a reference standard or publication (see 10.1).

TABLE OF CONTENTS

Chapter 1 – Administration	1	309.0	Pool, Spa and Hot Tub Fittings	22	
101.0	Title, Purpose and Scope	1	309.2	Surface Skimmers	22
101.1	Title	1	309.3	Perimeter Overflow Systems	22
101.2	Purpose	1	309.4	Pool, Spa and Hot Tub Outlets	23
101.3	Plans Required	1	309.5	Hydrostatic Relief	23
101.4	Scope	1	310.0	Materials	23
101.5	Application to Existing Swimming Pool, Spa or Hot Tub System	1	310.11	PEX	23
102.0	Organization and Enforcement	2	Table 3-1	Materials for Building Supply and Water Distribution Piping and Fittings	24
102.1	Authority Having Jurisdiction	2	310.12	Flexible Corrugated Connectors	24
102.2	Duties and Powers of the Authority Having Jurisdiction	2	310.13	PEX-AL-PEX and PE-AL-PE	24
102.3	Violations and Penalties	3	310.14	Mechanical Joints	25
103.0	Permits and Inspections	3	310.15	Materials	25
103.1	Permits	3	310.17	Drain Piping	25
103.2	Application for Permit	3	311.0	Workmanship and Installation Practices	25
103.3	Permit Issuance	4	311.7	Screwed Fittings	25
103.4	Fees	5	312.0	Joints and Connections	25
103.5	Inspections	6	312.1	Types of Joints	25
103.6	Connection Approval	8	Table 3-2	Materials for Drain, Waste, Vent Pipe and Fittings	27
103.7	Unconstitutionality	8	312.2	Use of Joints	27
103.8	Validity	8	312.3	Special Joints	28
Table 1-1	Swimming Pool, Spa and Hot Tub Permit Fees	9	313.0	Wastewater Disposal	28
Chapter 2 – Definitions	11	313.7	Separation Tank	29	
201.0	General	11	314.0	Deck Drain Piping Materials	29
202.0	Definition of Terms	11	315.0	Equipment Foundations and Enclosures	29
Chapter 3 – General Requirements	19	316.0	Accessibility and Clearances	29	
301.0	General	19	317.0	Electrical Systems	29
301.1	Swimming Pool, Spa and Hot Tub ..	19	318.0	Prohibited Fittings and Practices ..	29
301.3	Sizing for Velocity	19	319.0	Increases and Reducers	29
302.0	Materials – Standards and Alternates	19	320.0	Protection of Piping, Materials and Structures	29
302.1	Minimum Standards	19	320.4	Protectively Coated Pipe	29
302.2	Alternate Materials and Methods Equivalency	20	320.7	Waterproofing of Openings	30
303.0	Turnover Time	20	320.9	Sleeves	30
304.0	Pumps	20	320.11	Ratproofing	30
305.0	Valves	20	321.0	Trenching, Excavation and Backfill	30
306.0	Water Supply Inlets and Connections	21	321.3	Open Trenches	30
307.0	Filters	21	322.0	Tests and Test Gauges	30
307.1	Rapid Sand Filters	21	323.0	Final Inspection	31
307.2	High-Rate Sand Filters	21	Chapter 4 – Water Heaters and Vents	33	
307.3	Diatomite Type Filters	21	Part I	33	
307.4	Cartridge Filters	21	401.0	General	33
308.0	Gas Chlorinators	21	402.0	Definitions	33

UNIFORM SWIMMING POOL, SPA AND HOT TUB CODE

402.1	Chimney	33	410.5	Relief Valve Discharge	38
402.2	Chimney, Factory-Built	33	410.6	Added or Converted Appliances	38
402.3	Chimney, Masonry	33	410.7	Types of Gases	38
402.4	Chimney, Metal	33	410.8	Flammable Vapors	38
402.5	Chimney Connector	33	410.9	Installation in Residential Garages ..	38
402.6	Combustible Material	33	410.10	Installation in Parking Structures ..	38
402.7	Direct Vent Appliances	33	410.11	Gas Appliance Physical Protection ..	38
402.8	Flue Collar	33	410.12	Venting of Flue Gases	38
402.9	Gas Vent, Type B	33	410.13	Extra Device or Attachment	38
402.10	Gas Vent, Type L	33	410.14	Adequate Capacity of Piping	38
402.11	Stackless Vents	33	410.15	Avoiding Strain on Gas Piping	38
402.12	Vent	33	410.16	Gas Appliance Pressure Regulators ..	39
402.13	Vent Collar	33	410.17	Venting of Gas Appliance Pressure Regulators	39
402.14	Vent Connector	33	410.18	Bleed Lines for Diaphragm-Type Valves	39
402.15	Venting System	33	410.19	Combination of Appliances	39
402.16	Water Heater	33	410.20	Installation Instructions	39
403.0	Permits	33	410.21	Protection of Outdoor Appliances ..	39
404.0	Inspections	33	410.22	Accessibility and Clearance	40
404.1	Inspection of Chimneys or Vents	33	411.0	Appliances on Roofs	40
404.2	Final Water Heater Inspection	33	411.1	General	40
405.0	Water Heater Requirements	34	411.2	Installation of Appliances on Roofs ..	40
405.1	Clearance	34	411.3	Access to Appliances on Roofs	40
405.2	Pressure-Limiting Devices	34	411.4	Appliances in Attics	40
405.3	Temperature-Limiting Devices	34	412.0	Venting of Appliances	41
405.4	Temperature, Pressure and Vacuum Relief Devices	34	412.1	General	41
406.0	Gas-Fired Swimming Pool Heater Approval Requirements	34	412.2	Specification for Venting	41
407.0	Oil-Burning and Other Swimming Pool, Spa and Hot Tub Heaters	34	412.3	Design and Construction	41
408.0	Installation Requirements for Water Heaters	34	412.4	Type of Venting System to Be Used ..	42
408.5	Unions	35	412.5	Masonry, Metal and Factory-Built Chimneys	42
409.0	Air for Combustion and Ventilation ..	35	Table 4-1	Type of Venting System to Be Used ..	42
409.1	General	35	412.6	Gas Vents	44
409.2	Indoor Combustion Air	35	412.7	Single-Wall Metal Pipe	45
409.3	Indoor Opening Size and Location ..	36	412.8	Through-the-Wall Vent Termination ..	47
409.4	Outdoor Combustion Air	36	412.9	Condensation Drain	48
409.5	Combination Indoor and Outdoor Combustion Air	36	412.10	Vent Connectors for Category I Gas Utilization Appliances	48
409.6	Engineered Installations	36	Table 4-2	Clearance for Connectors	50
409.7	Mechanical Combustion Air Supply ..	36	Table 4-3	Reduction of Clearances with Specified Forms of Protection	51
409.8	Louvers, Grilles and Screens	37	Table 4-4	Minimum Thickness for Galvanized Steel Vent Connector for Low-Heat Appliances	52
409.9	Combustion Air Ducts	37			
410.0	Other Water Heater Installation Requirements	37			

TABLE OF CONTENTS

412.11	Vent Connectors for Category II, Category III and Category IV Gas Utilization Appliances	52	Chapter 5 – Fuel Gas Piping	91	
412.12	Draft Hoods and Draft Controls	52	501.0	General	91
Table 4-5	Minimum Thickness for Steel Vent Connectors for Medium-Heat Appliances and Commercial and Industrial Incinerators	53	502.0	Definitions	91
412.13	Manually Operated Dampers	53	502.1	Appliance Fuel Connector	91
412.14	Automatically Operated Vent Dampers	53	502.2	Approved	91
412.15	Obstructions	53	502.3	Bonding Jumper	91
413.0	Sizing of Category I Venting Systems	54	502.4	Fuel Gas	91
413.1	Obstructions and Vent Dampers	54	502.5	Gas Piping	91
413.2	Additional Requirements to Multiple Appliance Vent Table 4-13 Through Table 4-21	55	502.6	Gas-Piping System	91
414.0	Direct Vent Appliances	58	502.7	Gas Utility	91
Table 4-6	Vent Connector Maximum Length	58	502.8	Grounding Electrode	91
Table 4-7	Type B Double-Wall Gas Vent	61	502.9	Liquified Petroleum Gas (LPG) Facilities	91
Table 4-8	Type B Double-Wall Gas Vent	64	502.10	Provision for Location of Point of Delivery	91
Table 4-9	Masonry Chimney	66	502.11	Quick-Disconnect Device	91
Table 4-10	Masonry Chimney	68	502.12	Service Piping	91
Table 4-11	Single-Wall Metal Pipe or Type B Asbestos Cement Vent	70	502.13	Transition Gas Riser	91
Table 4-12	Exterior Masonry Chimney	71	503.0	Plans Required	91
Table 4-13	Type B Double-Wall Vent	72	504.0	Workmanship and Defects	91
Table 4-14	Type B Double-Wall Vent	76	504.3	Protective Coating	92
Table 4-15	Masonry Chimney	78	505.0	Inspections	92
Table 4-16	Masonry Chimney	80	506.0	Certificate of Inspection	92
Table 4-17	Single-Wall Metal Pipe or Type B Asbestos Cement Vent	82	507.0	Authority to Render Gas Service	92
Table 4-18	Exterior Masonry Chimney	82	508.0	Authority to Disconnect	92
Table 4-19	Exterior Masonry Chimney	83	509.0	Temporary Use of Gas	92
Table 4-20	Exterior Masonry Chimney	84	510.0	Gas-Piping System Design, Materials and Components	93
Table 4-21	Exterior Masonry Chimney	85	510.1	Piping Plan	93
Part II	Sizing of Venting Systems Serving Appliances Equipped with Draft Hoods, Category I Appliances, and Appliances Listed for Use with Type B Vents.	86	510.2	Provision for Location of Point of Delivery	93
G.1	Examples Using Single Appliance Venting Tables	86	510.3	Interconnections Between Gas-Piping Systems	93
Table G.1.0	Masonry Chimney Liner Dimensions with Circular Equivalents	89	510.4	Sizing of Gas-Piping Systems	93
Table G.2.0	Standard Method Volume, All Appliances	89	510.5	Acceptable Piping Materials and Joining Methods	94
			Table 5-1	Specifications for Threading Metallic Pipe	95
			510.6	Gas Meters	97
			510.7	Gas Pressure Regulators	97
			510.8	Shutoff Valves	97
			510.9	Excess Flow Valve	97
			510.10	Expansion and Flexibility	97
			511.0	Gas Piping Installation	98
			511.1	Piping Underground	98
			511.2	Installation of Piping	99

UNIFORM SWIMMING POOL, SPA AND HOT TUB CODE

Table 5-2	Support of Piping	100	Table 5-12	Semi-Rigid Copper Tubing	115
511.3	Concealed Piping in Buildings	100	Table 5-13	Semi-Rigid Copper Tubing	116
511.4	Piping in Vertical Chases	100	Table 5-14	Semi-Rigid Copper Tubing	117
511.5	Appliance Over Pressure Protection .101		Table 5-15	Semi-Rigid Copper Tubing	118
511.6	Gas Pipe Turns	101	Table 5-16	Corrugated Stainless Steel Tubing (CSST)	119
511.7	Drips and Sediment Traps	101	Table 5-17	Corrugated Stainless Steel Tubing (CSST)	119
511.8	Outlets	101	Table 5-18	Corrugated Stainless Steel Tubing (CSST)	120
511.9	Branch Pipe Connection	102	Table 5-19	Corrugated Stainless Steel Tubing (CSST)	120
511.10	Manual Gas Shutoff Valves	102	Table 5-20	Corrugated Stainless Steel Tubing (CSST)	121
511.11	Prohibited Devices	102	Table 5-21	Polyethylene Plastic Pipe	121
511.12	Electrical Bonding and Grounding .102		Table 5-22	Polyethylene Plastic Pipe	122
511.13	Electrical Circuits	102	Table 5-23	Polyethylene Plastic Pipe	123
511.14	Electrical Connections	102	Table 5-24	Polyethylene Plastic Tubing	124
512.0	Appliance Connections to Building Piping	102	Table 5-25	Polyethylene Plastic Tubing	124
512.1	Connecting Gas Appliances	102	Table 5-26	Schedule 40 Metallic Pipe	125
512.2	Appliance Shutoff Valves and Connections	103	Table 5-27	Schedule 40 Metallic Pipe	126
512.3	Quick-Disconnect Devices	103	Table 5-28	Schedule 40 Metallic Pipe	127
512.4	Sediment Trap	103	Table 5-29	Schedule 40 Metallic Pipe	128
512.5	Installation of Piping	103	Table 5-30	Semi-Rigid Copper Tubing	129
513.0	Liquefied Petroleum Gas Facilities and Piping	103	Table 5-31	Semi-Rigid Copper Tubing	130
514.0	Pressure Testing and Inspection	103	Table 5-32	Semi-Rigid Copper Tubing	131
514.1	General	103	Table 5-33	Corrugated Stainless Steel Tubing (CSST)	132
514.2	Test Preparation	104	Table 5-34	Corrugated Stainless Steel Tubing (CSST)	132
514.3	Test Pressure	104	Table 5-35	Corrugated Stainless Steel Tubing (CSST)	133
514.4	Detection of Leaks and Defects	104	Table 5-36	Polyethylene Plastic Pipe	133
514.5	Piping System and Leak Check	104	Table 5-37	Polyethylene Plastic Pipe	134
514.6	Purging	105	Table 5-38	Polyethylene Plastic Tubing	135
Table 5-3	Length of Piping Requiring Purging with Inert Gas for Servicing Modification	105	Chapter 6 – Referenced Standards	137	
Table 5-4	Length of Piping Requiring Purging with Inert Gas Before Placing in Operation	105	Table 6-1	137	
515.0	Required Gas Supply	105	Appendix A Conversion Table	147	
516.0	Required Gas Piping Size	105	Appendix B Metric System	149	
516.1	Pipe Sizing Methods	105	Index	151	
Table 5-5	Schedule 40 Metallic Pipe	108			
Table 5-6	Schedule 40 Metallic Pipe	109			
Table 5-7	Schedule 40 Metallic Pipe	110			
Table 5-8	Schedule 40 Metallic Pipe	111			
Table 5-9	Semi-Rigid Copper Tubing	112			
Table 5-10	Semi-Rigid Copper Tubing	113			
Table 5-11	Semi-Rigid Copper Tubing	114			

CHAPTER 1 ADMINISTRATION

101.0 Title, Purpose and Scope.

101.1 Title. This document shall be known as the "Uniform Swimming Pool, Spa and Hot Tub Code," may be cited as such, and will be referred to herein as "this code".

101.2 Purpose. This code is an ordinance providing minimum requirements and standards for the protection of the public health, safety, and welfare.

101.3 Plans Required. The Authority Having Jurisdiction shall be permitted to require the submission of plans, specifications, drawings, and such other information as required by the Authority Having Jurisdiction, prior to the commencement of, and at any time during the progress of, any work regulated by this code.

The issuance of a permit upon plans and specifications shall not prevent the Authority Having Jurisdiction from thereafter requiring the correction of errors in said plans and specifications or from preventing construction operations being carried on thereunder when in violation of this code or of any other pertinent ordinance or from revoking any certificate of approval when issued in error.

101.4 Scope.

101.4.1 The provisions of this code shall apply to the erection, installation, alteration, repair, relocation, replacement, addition to, use, and maintenance of swimming pools, spas, or hot tub systems within this jurisdiction.

101.4.1.1 Repairs and Alterations. In existing buildings or premises in which swimming pools, spas or hot tub installations are to be altered, repaired, or renovated, deviations from the provisions of this code are permitted, provided such deviations are found to be necessary and are first approved by the Authority Having Jurisdiction.

101.4.1.2 Maintenance. The plumbing and drainage system of any premises under the Authority Having Jurisdiction shall be maintained in a sanitary and safe operating condition by the owner or the owner's agent. All swimming pools, spas, or hot tub equipment, structures, appurtenances, signage, safety devices, fencing and other associated components shall be maintained in a safe and functioning condition.

101.4.1.3 Existing Construction. No provision of this code shall be deemed to require a change in any portion of a swimming

pool, spa, or hot tub system or any other work regulated by this code in or on an existing building or lot when such work was installed and is maintained in accordance with law in effect prior to the effective date of this code, except when any such swimming pool, spa, or hot tub system or other work regulated by this code is determined by the Authority Having Jurisdiction to be in fact dangerous, unsafe, insanitary, or a nuisance and a menace to life, health, or property.

101.4.1.4 Conflicts Between Codes. When the requirements within the jurisdiction of this code conflict with the requirements of the plumbing or mechanical code, this code shall prevail.

101.4.2 Additions, Alterations, Repairs, and Replacement. Additions, alterations, repairs, and replacement of swimming pool, spa, or hot tub systems shall comply with the provisions for new systems except as otherwise provided in Section 101.5.

101.5 Application to Existing Swimming Pool, Spa or Hot Tub System.

101.5.1 Additions, Alterations, or Repairs. Additions, alterations, or repairs shall be permitted to be made to any swimming pool, spa, or hot tub system without requiring the existing swimming pool, spa, or hot tub system to comply with all the requirements of this code, provided the addition, alteration, or repair conforms to that required for a new swimming pool, spa, or hot tub system. Additions, alterations, or repairs shall not cause an existing system to become unsafe, insanitary, or overloaded.

101.5.2 Health and Safety. Whenever compliance with the provisions of this code fails to eliminate or alleviate a nuisance, or any other dangerous or insanitary condition that may involve health or safety hazards, the owner or the owner's agent shall install such additional swimming pool, spa, or hot tub facilities or shall make such repairs or alterations as ordered by the Authority Having Jurisdiction.

101.5.3 Existing Installations. Swimming pools, spas, or hot tub systems lawfully in existence at the time of the adoption of this code shall have their use, maintenance, or repair continued if the use, maintenance, or repair is in accordance with