

Commercial - PLUMBING
Essential Referenced Standards
Based on 2012 Michigan Plumbing Code, Chapter 14
Prepared 4/22/14

Standard	Year	Title	Estimated Price of Standard	Comments
ANSI				
Z21.22	1999(R2003)	Relief Valves for Hot Water Supply Systems with Addenda Z21.22a-2000(R2003) and Z21.22b-2001 (R2003)	\$769.00	
ASME				
A112.1.3	2000, Reaffirmed 2005	Air Gap Fittings for Use with Plumbing Fixtures, Appliances and Appurtenances	\$35.00	
A112.4.1	1993 (R2002)	Water Heater Relief Valve Drain Tubes	\$35.00	
A112.4.3	1999, Reaffirmed 2004	Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System	\$35.00	
A112.14.1	2003	Backwater Valves	\$35.00	
A112.14.3	2000	Grease Interceptors	\$35.00	
A112.14.4	2001 (Reaffirmed 2007)	Grease Removal Devices	\$35.00	
A112.18.1/CSA B125.1	2005/2005	Plumbing Supply Fittings	\$130.00	
A112.18.2/CSA B125.	2005/2010	Plumbing Waste Fittings with 2007 and 2008 Supplements	\$70.00	
A112.18.3	2002 (Reaffirmed 2008)	Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings	\$35.00	
A112.18.6/CSA B125.6	2009	Flexible Water Connectors	\$90.00	
A112.18.7	1999 (Reaffirmed 2004)	Deck mounted Bath/Shower Transfer Valves with Integral Backflow Protection	\$0.00	withdrawn
A112.19.1M/CSA B45.2	2008	Enameled Cast Iron and Enameled Plumbing Fixtures with 1998 and 2000 supplements	\$80.00	
A112.19.2/CSA B45.1	2008	Ceramic Plumbing Fixtures and Hydraulic Requirements for Water Closets and Urinals	\$110.00	
A112.19.4M	1994 (R2004)	Porcelain Enameled Formed Steel Plumbing Fixtures—with 1998 and 2000 Supplements	\$62.00	
A112.19.5/CSA B45.15	2009	Trim for Water-closet Bowls, Tanks and Urinals	\$95.00	
A112.19.7M/CSA B45.10	2009	Hydromassage Bathtub Appliances	\$79.00	

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A112.19.19	2006	Vitreous China Nonwater Urinals	\$28.00	
A112.21.2M	1983	Roof Drains	\$35.00	
A112.36.2M	1991 (R2008)	Cleanouts	\$35.00	
B16.12	1998 (Reaffirmed 2006)	Cast-iron Threaded Drainage Fittings	\$47.00	
B16.18	2001 (Reaffirmed 2005)	Cast Copper Alloy Solder Joint Pressure Fittings	\$62.00	
B16.22	2001 (Reaffirmed 2005)	Wrought Copper and Copper Alloy Solder Joint Pressure Fittings	\$42.00	
B16.26	2006	Cast Copper Alloy Fittings for Flared Copper Tubes	\$32.00	
ASSE				
1001	2008	Performance Requirements for Atmospheric Type Vacuum Breakers	\$45.00	
1003	2009	Performance Requirements for Water Pressure Reducing Valves	\$45.00	
1004	2008	Performance Requirements for Backflow Prevention Requirements for Commercial Dishwashing Machines	\$45.00	
1005	1999	Performance Requirements for Water Heater Drain Valves	\$45.00	
1010	2004	Performance Requirements for Water Hammer Arresters	\$45.00	
1011	2004	Performance Requirements for Hose Connection Vacuum Breakers	\$45.00	
1012	2009	Performance Requirements for Backflow Preventers with Intermediate Atmospheric Vent	\$45.00	
1013	2009	Performance Requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers	\$45.00	
1015	2009	Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies	\$45.00	
1016	2010	Performance Requirements for Individual Thermostatic, Pressure Balancing and Combination Control Valves for Individual Fixtures Fittings	\$120.00	
1017	2010	Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems	\$45.00	

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1018	2010	Performance Requirements for Trap Seal Primer Valves; Potable Water Supplied	\$45.00	
1020	2004	Performance Requirements for Pressure Vacuum Breaker Assembly	\$45.00	
1022	2003	Performance Requirements for Backflow Preventer for Beverage Dispensing Equipment	\$45.00	
1024	2004	Performance Requirements for Dual Check Valve Type Backflow Preventers (for Residential Supply Service or Individual Outlets)	\$45.00	
1035	2008	Performance Requirements for Laboratory Faucet Backflow Preventers	\$45.00	
1037	1990	Performance Requirements for Pressurized Flushing Devices for Plumbing Fixtures	\$45.00	
1044	2010	Performance Requirements for Trap Seal Primer Devices Drainage Types and Electronic Design Types	\$45.00	
1047	2009	Performance Requirements for Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies	\$45.00	
1048	2009	Performance Requirements for Double Check Detector Fire Protection Backflow Prevention Assemblies	\$45.00	
1050	2009	Performance Requirements for Stack Air Admittance Valves for Sanitary Drainage Systems	\$45.00	
1051	2009	Performance Requirements for Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems-Fixture and Branch Devices	\$45.00	
1056	2010	Performance Requirements for Spill Resistant Vacuum Breaker	\$45.00	
1060	2006	Performance Requirements for Outdoor Enclosures for Fluid Conveying Components	\$45.00	
1061	2010	Performance Requirements for Removable and Nonremovable Push Fit Fittings	\$45.00	
1062	2006	Performance Requirements for Temperature Actuated, Flow Reduction Valves to Individual Supply Fittings	\$45.00	
1066	1997	Performance Requirements for Individual Pressure Balancing In-line Valves for Individual Fixture Fittings	\$45.00	

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1069	2005	Performance Requirements for Automatic Temperature Control Mixing Valves	\$45.00	
1070	2004	Performance Requirements for Water-temperature Limiting Devices	\$45.00	
ASTM				
A 74	2009	Specification for Cast-iron Soil Pipe and Fittings	\$66.00	
A 888	2009	Specification for Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Application	\$66.00	
B 32	2008	Specification for Solder Metal	\$41.00	
B 42	2002 e 01	Specification for Seamless Copper Pipe, Standard Sizes	\$41.00	
B 75	2002	Specification for Seamless Copper Tube	\$41.00	
B 88	2003	Specification for Seamless Copper Water Tube	\$41.00	
B 251	2002 e 01	Specification for General Requirements for Wrought Seamless Copper and Copper-alloy Tube	\$41.00	
B 687	1999(2005)e01	Specification for Brass, Copper and Chromium-plated Pipe Nipples	\$35.00	
B 813	2000(2009)	Specification for Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube	\$42.00	
C 14	2007	Specification for Nonreinforced Concrete Sewer, Storm Drain and Culvert Pipe	\$36.00	
C 296	2000(2004)	Specification for Asbestos-cement Pressure Pipe	\$30.00	
C 564	2008	Specification for Rubber Gaskets for Cast-iron Soil Pipe and Fittings	\$30.00	
C 1277	2008	Specification for Shielded Coupling Jointing Hubless Cast-iron Soil Pipe and Fittings	\$49.20	
C 1461	2008	Specification for 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	\$36.00	
C 1540	2008	Specification for Heavy Duty Shielded Couplings Joining Hubless Cast-iron Soil Pipe and Fittings	\$41.00	

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Standard	Year	Title	Estimated Price of Standard	Comments
D 1785	2006	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80 and 120	\$47.00	
D 2239	2003	Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter	\$41.00	
D 2241	2005	Specification for Poly (Vinyl Chloride) (PVC) Pressure-rated Pipe (SDR-Series)	\$41.00	
D 2466	2006	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40	\$41.00	
D 2467	2006	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80	\$41.00	
D 2564	2004 e 01	Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems	\$41.00	
D 2665	2009	Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings	\$41.00	
D 2672	1996a(2003)	Specification for Joints for IPS PVC Pipe Using Solvent Cement	\$326.00	
D 2729	2003	Specification for Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings	\$41.00	
D 2846/D 2846M	2009	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot and Cold Water Distribution Systems	\$47.00	
D 2855	1996(2002)	Standard Practice for Making Solvent-cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings	\$41.00	
D 2949	2001a(2008)	Specification for 3.25-in Outside Diameter Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings	\$41.00	
D 3311	2008	Specification for Drain, Waste and Vent (DWV) Plastic Fittings Patterns	\$59.00	
F 405	2005	Specification for Corrugated Polyethylene (PE) Pipe and Fittings	\$41.00	
F 409	2002(2008)	Specification for Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings	\$47.00	
F 438	2004	Specification for Socket-type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40	\$41.00	
F 441/F 441M	2002(2008)	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80	\$41.00	

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F 493	2004	Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings	\$41.00	
F 656	2008	Specification for Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings	\$36.00	
F 876	2008b	Specification for Cross-linked Polyethylene (PEX) Tubing	\$47.00	
F 877	2007	Specification for Cross-linked Polyethylene (PEX) Plastic Hot and Cold Water Distribution Systems	\$41.00	
F 1281	2007	Specification for Cross-linked Polyethylene/Alumium/Cross-Linked Polyethylene (PEX-AL-PEX) Pressure Pipe	\$47.00	
F 1282	2006	Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe	\$41.00	
F 1807	2008	Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing	\$41.00	
F 1866	2007	Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings	\$41.00	
F 1960	2009	Specification for Cold Expansion Fittings with PEX Reinforcing Rings for use with Cross-linked Polyethylene (PEX) Tubing	\$41.00	
F 1974	2008	Specification for Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene Composite Pressure Pipe	\$41.00	
F 1986	01(2006)	Specification for Multilayer Pipe, Type 2, Compression Fittings and Compression Joints for Hot and Cold Drinking Water Systems	\$47.00	
F 2080	2008	Specifications for Cold-expansion Fittings with Metal Compression-sleeves for Cross-linked Polyethylene (PEX) Pipe	\$41.00	
F2098	2008	Standard specification for Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing to Metal Insert Fittings	\$36.00	

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F 2159	2005	Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing	\$41.00	
F 2262	2005	Specification for Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene Tubing OD Controlled SDR9	\$47.00	
F 2434	2008	Standard Specification for 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	\$41.00	
AWWA				
C510	2000	Double Check Valve Backflow Prevention Assembly	\$59.00	
C511	2000	Reduced-pressure Principle Backflow Prevention Assembly	\$59.00	
CISPI				
301	2004a	Specification for Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications	\$0.00	Free
310	2004	Specification for Coupling for Use in Connection with Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications	\$0.00	Free
ICC				
MBC	2009	Michigan Building Code	\$99.50	
MRCEB	2009	Michigan Rehabilitation Code for Existing Buildings	\$66.00	
MUEC	2009	Michigan Uniform Energy Code	\$38.00	
IFC	2012	International Fire Code	\$97.00	
IFGC	2012	International Fuel Gas Code	\$72.00	
MMC	2012	Michigan Mechanical Code	\$71.00	
MPC	2012	Michigan Plumbing Code	\$71.00	
IPSDC	2012	International Private Sewage Disposal Code	\$31.95	
MRC	2009	Michigan Residential Code	\$81.50	

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ISEA				
Z358.1	1998	Emergency Eyewash and Shower Equipment	\$56.00	
NFPA				
50	2001	Bulk Oxygen Systems at Consumer Sites	\$35.00	
51	2007	Design and Installation of Oxygen-fuel Gas Systems for Welding, Cutting and Allied Processes	\$40.00	
70	2011	National Electrical Code	\$67.13	
99C	2005	Gas and Vacuum Systems	\$64.00	
PDI				
G101	2003	Testing and Rating Procedure for Grease Interceptors with Appendix of Sizing and Installation Data	\$0.00	Free
TOTAL:			\$6,723.28	