

PUBLIC UTILITIES DEPARTMENT
CITY OF SAN DIEGO

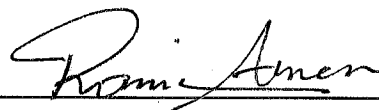
APPROVED MATERIALS LIST
FOR WATER



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**CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
APPROVED MATERIALS LIST**

TABLE OF CONTENTS

<u>WATER DISTRIBUTION SYSTEM</u>		<u>Page</u>
A.	Bronze Water Service Fittings Corporation Stop, Curb Stop, Property Valve, Coupling, Compression Fittings, Adaptors, Bends, Service Saddle, Bronze Saddle	3
B.	Water Services PVC, Copper Tube	4
C.	Valves and Fire Hydrants Gate Valves, Resilient-Wedge Gate Valves, Resilient Seated Butterfly Valves, Combination Air & Vacuum Valves, Automatic Control Valves, Standard Plug Valves, Fire Hydrants, Polyethylene Air and Vacuum Valve Enclosure, Blow-off Ball Valve	5 through 7
D.	Meter Boxes Polymer-Concrete Meter Boxes, Concrete Meter Boxes, Composite Meter Boxes	8
E.	Water Distribution Pressure Pipe PVC, Fusible PVC, DI	9
F.	Water Distribution Miscellaneous	10 & 11
G.	Bronze Water Service Fittings Table	12 & 13

*References are to the current edition of the Standard Specifications for Public Works Construction, the "GREENBOOK", and/or the "WHITEBOOK" or the latest version of the AWWA Standards and ASTM Specifications.

Revised February 2017

Forward for 2017 Revisions

- **Suggested changes in the approved materials are still requested and will be reviewed. In order to keep the listing updated, it is necessary that anyone with pertinent information keep the committee updated.**
- **Materials other than shown on this list may be used when approval has been obtained for their use.**
- **Materials called out on subdivision plans may require specifications to be included with the subdivision plans. This will be the case of any material not covered by the referenced specifications* for the subdivision.**
- **Effective January 1, 2010, the State of California, Department of Toxic Substance Control, enacted a new law, *Requirements for Low Lead Plumbing Products in California*. The intent of this legislation is to reduce the lead content in plumbing components intended to convey or dispense water for human consumption.**

“Lead free” means that the maximum allowed lead content is:

- **0.20 percent lead in solder and flux;**
- **0.25 percent lead in wetted surfaces of pipes, pipe fittings, plumbing fittings and fixtures, as determined by a weighted average.**

For more information on *Requirement for Low Lead Plumbing Products in California*, please visit the following web site:

<http://www.dtsc.ca.gov/PollutionPrevention/LeadInPlumbing.cfm>.

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**CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT
APPROVED MATERIALS LIST
WATER DISTRIBUTION**

SUBJECT	SPEC. REF.	MANUFACTURER (Series/Model No.)	SELECTION	ADDITIONAL REQUIREMENTS
<p>A. <u>Bronze Water Services Fittings for Iron Pipe, Plastic, and Copper Tubing</u></p> <p>(1) Corporation Stop, Curb Stop, Property Valve, Coupling, Compression Fittings, or Flared Copper Type only.</p> <p>(2) Adaptors, Bends, Compression Fittings, or Flared Copper Type only.</p> <p>(3) Service Saddle (double-bronze straps and nuts for pipe other than PVC).</p> <p>(4) Service Saddle (full support for PVC C-900 pipe, 4" through 12", unless otherwise noted). All Stainless Steel Saddles</p> <p>(5) Service Saddle. Bronze Saddle with Stainless Steel Strap</p> <p>(6) Service Saddle. All Brass Saddles</p>	<p>*212 & 306-8</p>	<p>(Refer to section G, page 12 and 13 for model numbers).</p> <p>The James Jones Company Ford McDonald Mueller</p> <p>The James Jones Company (J-979) Ford (202B)</p> <p>Mueller (BR2B) Romac Industries (202B) A.Y McDonald (3825, 3826)</p> <p>Smith-Blair (372) Romac Industries (306)</p> <p>Smith-Blair(325) Romac Industries(202BS) The James Jones Company (J-969) APAC (113) Ford (202BS) PowerSeal (3401, 3403, 3407) McDonald 3846</p> <p>Ford Tapping Saddles (s70 & s90) McDonald 3806</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>Minimum 150 psi working pressure.</p> <p>Effective January 1, 2010, all pipe or plumbing fittings must be in compliance with a new law, <i>Requirements for Low Lead Plumbing Products in California.</i> Refer to page 2 for more details.</p>

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<p>B. <u>Water Services</u></p> <p>(1) Polyvinyl Chloride Pipe (PVC) Use of PVC solvent welded fittings & bends are not allowed on water services</p> <p>(2) Copper Tube, Type "K" (soft) 1" & 2" diameters</p>	<p>*209-4, 212, 306-8</p> <p>*212-10, 306-8</p>	<p>Any Manufacturer Meeting Specifications</p> <p>Mueller Brass Cerro Copper Products Cambridge-Lee Industries, Inc.</p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	<p>For services 4 inch and larger</p>

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SUBJECT	SPEC. REF.	MANUFACTURER (Series/Model No.)	SELECTION	ADDITIONAL REQUIREMENTS
<p>C. <u>Valves and Fire Hydrants</u></p> <p>(1) Gate Valves 3" thru 48" diameter (a) All internal parts to be bronze (b) 3" thru 12" diameter - 200 psi working pressure 16" thru 48" diameter - 150 psi working pressure</p> <p>(2) Resilient-Wedge Gate Valves 2" thru 12" diameter (NRS)</p> <p>2" thru 66" diameter</p>	<p>*212, 306-8 AWWA C-500</p> <p>AWWA C-509</p> <p>AWWA C-515</p>	<p>Mueller (A2380-9206) Kennedy Valve Company/ Clow M & H (Dresser) K-Flow</p> <p>M & H / Kennedy Valve Company./ Clow American A VK (Series 25) Stockham U. S. Pipe Metroseal (250) Mueller J&S Valve (Series 6600, 6800 and 6900)</p> <p>American Flow Control (Series 2500) J&S Valve (Series 6600, 6800 and 6900)</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p>EPDM rubbers</p> <p>EPDM rubbers Non-Rising Stem (NRS) for buried service</p> <p>Connections Flg x Flg Flg x MJ MJ x MJ</p> <p>EPDM rubbers</p> <p>Connections Flg x Flg Flg x MJ MJ x MJ</p>

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SUBJECT	SPEC. REF.	MANUFACTURER (Series/Model No.)	SELECTION	ADDITIONAL REQUIREMENTS
C. <u>Valves and Fire Hydrants</u> (cont.)				
(3) Resilient-Seated Butterfly Valves 6" thru 48" diameter	*212, 306-8.8 AWWA C-504	Pratt K-Flow	<input type="checkbox"/> <input type="checkbox"/>	Class 150 EPDM rubber
6" thru 12" diameter		M & H (Dresser) Mueller Kennedy Valve Company	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	EPDM rubber
16" thru 48" diameter	*212, 306-8.8	Pratt K-Flow	<input type="checkbox"/> <input type="checkbox"/>	Class 250 EPDM rubber
3" thru 120" diameter	*212, 306-8.8 AWWA C-504, C111 & C-550	DeZURIK C/O CS-amsco	<input type="checkbox"/>	
(4) Combination Air & Vacuum Valves, 1", 2", 3", & 4" diameters All internal parts to be stainless steel	AWWA C-512	APCO (143C,145C,147C,149C) Val-Matic (201C, 202C) GA Industries, Inc.(#945) Crispin (10UL, 20UL, 30UL, 40UL) PowerSeal (5403)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
(5) Automatic Control Valves		CLA-VAL Co. GA Industries, Inc.	<input type="checkbox"/> <input type="checkbox"/>	Globe/Angle Pattern only
(6) Standard Plug Valves (PEC) 100% Ported Plug Valves (PEF) ½" thru 72" diameter	*212, 306-8.8 AWWA C-517, C-111, C-550	DeZURIK C/O CS-amsco (Models PEC & PEF)	<input type="checkbox"/>	

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C. <u>Valves and Fire Hydrants</u> (cont.)				
(7) Blow-off Ball Valve		Ford Series BLA18	<input type="checkbox"/>	
(8) Fire Hydrants Wet Barrel Fire Hydrants for Ordinary Water Works Service	*212-6, 306-8.8 AWWA C-503 SDW- 104	Clow (950, 960, 850, 860, 865)	<input type="checkbox"/>	Hydrants with one-piece barrel only, no welded ports allowed.
Sizes: 6" x 4" x 2.5" – 2 ports 6" x 4" x 2.5" x 2.5"- 3ports	*212-10, 306-8.8 AWWA C-503 & C-550 SDW- 104	James Jones Co. J4040CR J4060CR	<input type="checkbox"/> <input type="checkbox"/>	San Diego Drill Pattern 6-hole pattern with a 0.88 drilling on a 9.50 diameter bolt circle.
Sizes: 1-2.5" x 4" 2-2.5" x 4" 1-2.5" x 2-4"		American AVK Co. Model # 24-20 Model # 24-70 Model # 24-90	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	No 8 inch Fire Hydrants allowed without Public Utilities approval.
(9) Polyethylene Air and Vacuum Valve Enclosure Sizes: 18"x30" 14"x24"		Pipeline Products, Inc. VCAS 1830 VCAS 1424	<input type="checkbox"/> <input type="checkbox"/>	

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(1) Effective January 1, 2010, all pipe or plumbing fittings must be in compliance with a new law, *Requirements for Low Lead Plumbing Products in California*.

Refer to page 2 for more details

G. BRONZE WATER SERVICE FITTINGS ⁽¹⁾		COMPRESSION/PACKING				FLARED COPPER				MISCELLANEOUS		
TYPE	SIZE	MANUFACTURER'S MODEL NUMBERS FORD JONES McDONALD MUELLER				MANUFACTURER'S MODEL NUMBERS FORD JONES McDONALD MUELLER				MANUFACTURER'S MODEL NUMBERS FORD JONES MUELLER		
CURB STOP, ANGLE, BALL IPS THREAD TO METER PVC SCH 40 TO METER (elongated holes for 12" & 2" meters)	2"	---	---	---	---	---	---	---	---	FV13-777W	J-1527F	H-14286
	2"	BFA73-777W	J-1979	4602B-44	---	---	---	---	---	---	---	---
TUBING TO METER TUBING TO METER (elongated holes for 12" & 2" meters)	1"	BA43-444W	J-1963W	4602B-22	B-24258	BA23-444W	J-1973W	4602B	B-24255	---	---	---
	2"	BF43-777W	J-1975W	4604-B	B-24276	BFA23-777W	J-1964W	---	---	---	---	---
CORP STOP, BALL MIP TO MIP MIP TO PVC SCH 40 MIP TO TUBING MIP TO TUBING	2"	---	J-1943	3131-B	---	---	---	---	FB-500	J-1943	H-9969
	2"	FB-1102	J-1977	4704B-44	B-25025	---	---	---	---	---	---
	12"	FB-1100	J-1935	4704B-22	B-25008	FB-700	J-1930	4701B	B-25000	---	---	---
	2"	FB-1100	J-1935	4704B-22	B-25028	FB-700	J-1930	4704B	B-25025	---	---	---
COUPLING, ADAPTOR FIP TO IPS FIP TO PVC, IPS FIP TO TUBING MIP TO PVC, IPS MIP TO TUBING MIP TO TUBING	1"	C16-44	J-2608	4754-33	H-15454	---	---	---	---	---	---	---
	2"	C17-44	J-2640	4754-44.....	---	---	---	---	---	---	---	---
	2"	C14-77	J-2607	4754-22	H-15451	C21-77	J-1535	4754	H-15450	---	---	---
	2"	C87-77	J-2640	4753-44.....	---	---	---	---	---	---	---	---
	1"	C84-44	J-2605	4753-22	H-15428	C28-44	J-1531	4753	H-15425	---	---	---
	2"	C84-77	J-2605	4753-22	H-15428	C28-77	J-1531	4753	H-15425	---	---	---
COUPLING, STRAIGHT METER TAIL METER TAIL PVC TO PVC SCH 40 TUBING TO TUBING TUBING TO TUBING	1"	---	---	---	---	---	---	---	---	C-38	J-130	H-10890
	1"	---	---	---	---	---	---	---	---	C-38	J-130	H-10890
	2"	C77-77	J-2642	4758-44---	---	---	---	---	---	---	---	---
	1"	C44-44	J-2609	4758-22	H-15403	C22-44	J-1528	4758	H-15400	---	---	---
	2"	C44-77	J-2609	4758-22	H-15403	C22-77	J-1528	4758	H-15400	---	---	---

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G. BRONZE WATER SERVICE FITTINGS ⁽¹⁾		COMPRESSION/PACKING	FLARED COPPER	MISCELLANEOUS
TYPE	SIZE	MANUFACTURER'S MODEL NUMBERS FORD JONES McDONALD MUELLER	MANUFACTURER'S MODEL NUMBERS FORD JONES McDONALD MUELLER	MANUFACTURER'S MODEL NUMBERS FORD JONES MUELLER
PACKING JOINT, 90° ELBOW TUBING TO TUBING	2"	L44-77 J-2611 4761.22 H-15526	C22-77 J-1552 4761 H-15525	--- --- ---
VALVE, METER FIP TO METER	1"	B13-444 J-1908 6101-MHB B-24351 w/6120 w/B20248 HANDLE HANDLE	--- --- ---	--- --- ---

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