



McMinnville Water & Light Approved Water Materials List

This is a list of materials approved for use in McMinnville Water & Light water facilities. All material must be Domestic and AWWA approved; NSF 61 certified (including Annex G / NSF 372 certification for low lead if applicable) and meet [McMinnville Water & Light's Water Specifications & Design Criteria](#). All material must be new. Materials not on this list will require a **Variance Application for Deviation**. This request will be reviewed by McMinnville Water & Light's Water Standards Committee for determination of allowance. Contact the Engineering Department at 503-472-6919 to obtain this form.

ITEMS	DESCRIPTION	MANUFACTURER
ADAPTER, FLANGE COUPLING	Ductile Iron fitting <i>Domestic Materials Only</i>	<ul style="list-style-type: none"> • Sigma • Tyler Union Or MW&L approved equivalent.
AIR/VACUUM VALVE	Combination Air Relief Valve <i>Domestic Materials Only</i>	Determined by MW&L
AIR/VACUUM VALVE ENCLOSURE	P6002010 Slide bar – Granite Color.	<ul style="list-style-type: none"> • Armorcast Or MW&L approved equivalent.
BACKFILL, ROCK	Class B aggregate base, ¾" minus crushed rock. Compactable to 95% AASHTO T-99 standards.	Any meeting description
BACKFILL, NATIVE	Clean native soil	



McMinnville Water & Light Approved Water Materials List

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BACKFLOW PREVENTER	Shall meet Oregon Health Authority (OHA) and MW&L requirements .	Any meeting description.
BACKFLOW PREVENTER, REDUCED PRESSURE - INSULATED ENCLOSURE	Shall be insulated and if needed, a heat source to keep enclosure above 40 degrees Fahrenheit.	Any meeting description.
BACKFLOW PREVENTER, DETECTOR METER	Shall meet OHA and MW&L requirements . Shall read in “cubic feet”. Shall be supplied as part of the assembly from the factory.	Any meeting description.
BACKFLOW PREVENTER SUPPORT	Model S89	<ul style="list-style-type: none"> • Standon Or MW&L approved equivalent.
BACTERIOLOGICAL TEST STATION	Eclipse Model #88, freeze proof sampling station	<ul style="list-style-type: none"> • Kupferle Foundry Company Or MW&L approved equivalent.
CASING END SEAL	Pipe Linx molded end pieces at each end.	<ul style="list-style-type: none"> • Calpico Inc. Or MW&L approved equivalent.
CASING SKIDS	Model PX Insulators.	<ul style="list-style-type: none"> • Calpico Inc. Or MW&L approved equivalent.



McMinnville Water & Light Approved Water Materials List

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CHLORINATION TAP	DESCRIPTION	<ul style="list-style-type: none"> Ford Mueller <p>Or MW&L approved equivalent.</p>
	METER STOP, 1" COMPRESSION ANGLE with brass shut-off handle (B-20298-99000)	
	TUBING, 1" COPPER	
	CORP STOP, 1" CC (MUELLER) X COMPRESSION	
	PLUG, BRASS	
	<p><i><u>Domestic Materials Only</u></i> All material shall meet <i>NSF 61, Annex G, NSF 372 certification.</i></p>	
CORPORATION STOP	DESCRIPTION	<ul style="list-style-type: none"> Ford Mueller <p>Or MW&L approved equivalent.</p>
	CORP STOP, 1" CC (MUELLER) X COMPRESSION	
	CORP STOP, 2" IP X COMPRESSION	
	<p><i><u>Domestic Materials Only</u></i> All material shall meet <i>NSF 61, Annex G, NSF 372 certification.</i></p>	
COUPLING, COMPRESSION	All material shall meet the current <i>ANSI/AWWA Standard C800 Underground Service Line Valves and Fittings.</i>	Any meeting description
<p><i><u>Domestic Materials Only</u></i></p>		



McMinnville Water & Light Approved Water Materials List

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	<p>All fittings shall be compression type brass material. All material shall meet <i>NSF 61, Annex G, NSF 372 certification.</i></p>	
ELBOW, COMPRESSION TYPE	<p>All material shall meet the current <i>ANSI/AWWA Standard C800 Underground Service Line Valves and Fittings.</i></p> <p>All fittings shall be compression type brass material.</p> <p>All material shall meet <i>NSF 61, Annex G, NSF 372 certification. Domestic Materials Only</i></p>	Any meeting description
<u>FIRE HYDRANT, 150 PSI</u>	<p>All fire hydrants shall meet the current <i>ANSI/AWWA Standard C502 Dry-Barrel Fire Hydrant</i> for compression type main valve, traffic model, dry barrel hydrants. In addition to the standards, fire hydrants shall meet the following MW&L specifications:</p> <p><u><i>Domestic Materials Only</i></u></p> <ol style="list-style-type: none"> 1) National Standard Specification threads. 2) Operation nut 1-1/2 inch point to flat. 3) Opens counterclockwise. 4) 2 each 2-1/2 inch NST hose ports with cast iron caps. 	<ul style="list-style-type: none"> • Clow Medallion • East Jordon Iron Works Kennedy K81A • M&H Style 929 Reliant • Mueller Super Centurion 250 • Water Master 5CD250 • Waterous WB67 250 with epoxy coated shoe <p>Or MW&L approved equivalent.</p>



McMinnville Water & Light Approved Water Materials List

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	5) 1 each 4-1/2 inch NST steamer port fitted with a ¼ turn 5" Storz adapter per McMinnville Fire Department requirements. 6) All ports shall be mechanically attached. 7) All public hydrants shall be painted factory safety yellow.	
FITTING, DUCTILE IRON	All fittings shall be ductile iron and meet the current <i>ANSI/AWWA Standard C153 Ductile Iron Compact Fittings</i> . Fittings shall be mechanical joint with rubber gaskets that meet current <i>ANSI/AWWA Standard C111 Rubber Gasket Joints for Ductile Iron Pressure Pipe and Fittings</i> . In addition, all fittings shall meet the following MW&L specifications: <u><i>Domestic Materials Only</i></u> <ol style="list-style-type: none"> 1) The exterior of all fittings shall have a petroleum-asphaltic coating. 2) The interior of all fittings shall be cement/mortar petroleum-asphaltic lined in accordance with current <i>ANSI/AWWA Standard C104 Cement</i> 	<ul style="list-style-type: none"> • McWane • Sigma • Tyler Union • United States Pipe Company Or MW&L approved equivalent.



McMinnville Water & Light Approved Water Materials List

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	3) <i>Mortar Lining for Ductile Iron Pipe and Fittings.</i>	
GASKET	Pipe Gasket Meeting Manufacturers Specifications <u><i>Domestic Materials Only</i></u>	<ul style="list-style-type: none"> • American • McWane • United States Pipe Company Or MW&L approved equivalent.
GASKET LUBRICANT	Shall meet <i>NSF/ANSI Standard 61- certification</i> for use in potable water systems.	<ul style="list-style-type: none"> • American • McWane • United States Pipe Company Or MW&L approved equivalent.
<u>JOINT RESTRAINT, ASSEMBLY</u>	Megalug Series 1100 - MJ Field Lok Gasket Amarillo FastGrip Gasket <u><i>Domestic Materials Only</i></u>	<ul style="list-style-type: none"> • American • EBAA Iron • Romac • United States Pipe Company Or MW&L approved equivalent.
<u>JOINT RESTRAINT, THRUST BLOCK</u>	Concrete, 14 day strength of 3000 psi.	Any meeting description
<u>METER BOX, 1" SERVICE</u>	Lid: Brooks 37S Cast Iron Cover: Brooks 37S Box: Brooks 37MB	<ul style="list-style-type: none"> • Utility Vault – Style (Oldcastle Precast) Brooks Or MW&L approved equivalent.



McMinnville Water & Light Approved Water Materials List

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METER BOX, 2" SERVICE	Lid: Brooks 66ST 3-T Cover: Brooks 66S Box: Brooks 66MB	<ul style="list-style-type: none"> Utility Vault – Style (Oldcastle Precast) Brooks <p>Or MW&L approved equivalent.</p>
METER BOX, TRAFFIC LID	<p>Meter boxes should not be in sidewalks or drivable areas.</p> <p>1" service: 12" x 20" box</p> <ul style="list-style-type: none"> DFW486WBC4-12-BODY DFW486C-4CA-LID <p>2" service: 17" x 30" box</p> <ul style="list-style-type: none"> DFW1730C4-12-BODY DFW1730C-4CA-LID 	<p>By MW&L approval only</p> <ul style="list-style-type: none"> DFW Plastics <p>Or MW&L approved equivalent.</p>
METER BOX VAULT, 3" - 10" METER	See Specs, V676, V687, to determine vault size for meter; See VAULTS, VAULT DOORS, VAULT LADDERS, VAULT MASTIC for their description and requirements.	<ul style="list-style-type: none"> Oldcastle Precast <p>Or MW&L approved equivalent</p>
METER STOP, ANGLE 1" COMPRESSION X METER	<p>Mueller 300 Ball Angle Meter Stop with brass shut-off handle (B-20298-99000)</p> <p><i>Domestic Materials Only</i> All material shall meet <i>NSF 61, Annex G, NSF 372 certification.</i></p>	<ul style="list-style-type: none"> Ford Mueller <p>Or MW&L approved equivalent.</p>
METER STOP, ANGLE 2" COMPRESSION X METER	Mueller 300 Ball Angle Meter Stop	<ul style="list-style-type: none"> Ford Mueller



McMinnville Water & Light Approved Water Materials List

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	<u>Domestic Materials Only</u> All material shall meet <i>NSF 61, Annex G, NSF 372 certification.</i>	Or MW&L approved equivalent.
METER SUPPORT	Model S89	<ul style="list-style-type: none"> • Standon Or MW&L approved equivalent.
METER, WATER	MW&L to Supply	MW&L to Supply
PIPE, 1" COPPER TUBING	Type K soft copper <u>Domestic Materials Only</u>	Any meeting description
PIPE, 2" COPPER TUBING	Type K hard copper <u>Domestic Materials Only</u>	Any meeting description
PIPE, DUCTILE IRON	<p>All Ductile Iron Pipe shall meet the current <i>ANSI/AWWA Standard C151 Ductile-Iron Pipe, Centrifugally Cast</i> and be cement mortar lined, and be "push on" joint. Listed below are the specific pipe specifications for water distribution system pipe:</p> <p><u>Domestic Materials Only</u></p> <ol style="list-style-type: none"> 1) All Ductile Iron pipe shall be a minimum of Class 52. 2) Cement mortar lining shall meet current <i>ANSI/AWWA Standard C104 Cement Mortar Lining for Ductile-Iron Pipe and Fittings.</i> 3) Rubber Gasket Joints must meet current 	<ul style="list-style-type: none"> • American • McWane • United States Pipe Company Or MW&L approved equivalent.



McMinnville Water & Light Approved Water Materials List

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	<p><i>ANSI/AWWA Standard C111 Rubber Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.</i></p> <p>4) All pipe shall be Domestic</p> <p>5) Shall be Tyton or Fastite Joint.</p>	
PIPE, PEX	<p>1" & 2" Crosslinked Polyethylene pipe. Shall meet the current AWWA C904-16 Standards. Only with MW&L approval on a case by case basis.</p> <p><u>Domestic Materials Only</u></p>	Any meeting description
SERVICE SADDLE FOR ACP (ASBESTOS CEMENT PIPE)	Ductile iron with stainless steel straps. <u>Domestic Materials Only</u>	<ul style="list-style-type: none"> • Romac: Style 101S, 101NS, 202S, 202NS <p>Or MW&L approved equivalent.</p>
SERVICE SADDLE FOR DUCTILE IRON PIPE	Ductile iron with stainless steel straps. <u>Domestic Materials Only</u>	<ul style="list-style-type: none"> • Romac: Style 101S, 101NS, 202S, 202NS • Ford: <p>Or MW&L approved equivalent.</p>
TAPE, WARNING/IDENTIFICATION	Barrier Post warning tape. Type 3 high intensity reflective tape. Color: Yellow	Any meeting description



McMinnville Water & Light Approved Water Materials List

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TAPPING SLEEVE FOR ACP, CI, DI AND STEEL PIPE	Full Circle Stainless Steel restrained via a thrust block. <i>Domestic Materials Only</i>	<ul style="list-style-type: none"> • Romac Or MW&L approved equivalent.
VALVE, BALL	1" – Mueller 300 Ball Angle Meter with brass shut-off handle (B-20298-99000) 2" – Mueller 300 Ball Angle Meter <i>Domestic Materials Only</i> All material shall meet <i>NSF 61, Annex G, NSF 372 certification.</i>	<ul style="list-style-type: none"> • Mueller Or MW&L approved equivalent.
VALVE, BOX	OF - 18" valve box No. 910 (13-505LT), H-20 rated cover (13-5050LT). EJ - 18" valve box (363912) & solid valve box cover "W" (366326)	<ul style="list-style-type: none"> • Olympic Foundry • East Jordan Or MW&L approved equivalent.
VALVE BOX, RISER	6" schedule 40 PVC	Any meeting description
VALVE, BUTTERFLY	All distribution valves 12 inch diameter and larger, with the exception of tapping valves, shall be Butterfly Valves, and shall be rubber seated and shall meet current <i>ANSI/AWWA Standard C504 Rubber-Seated Butterfly Valves</i> . In addition to these standards, Butterfly Valves shall meet the following MW&L specifications.	<ul style="list-style-type: none"> • Clow • Dezurik • M&H • Mueller • Pratt • EJ Or MW&L approved equivalent.



McMinnville Water & Light Approved Water Materials List

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	<p><u>Domestic Materials Only</u></p> <ol style="list-style-type: none"> 1) All operating nuts shall be 2 inch square nuts. 2) All valves shall open in a counter clockwise direction 	
VALVE, GATE	<p>All distribution valves 2 inch through 10 inch diameter shall be resilient-seated gate valves and shall meet current <i>ANSI/AWWA Standard C509 or C515 Resilient-Seated Gate Valves for Water Supply Service</i> .</p> <p><u>Domestic Materials Only</u></p> <p>All tapping valves regardless of size must be resilient-seated gate valves.</p> <p>In addition, all gate valves shall meet the following MW&L specifications:</p> <ol style="list-style-type: none"> 1) The valve body interior shall have epoxy coating. 2) All operating nuts shall be 2 inch square nuts as specified in current <i>ANSI/AWWA Standard C509 or C515</i>. 3) All valves shall open in a counter clockwise direction. 4) The stem seals shall be O rings as specified in 	<ul style="list-style-type: none"> • American Darling • American Flow Control • Clow • Kennedy • M&H • Mueller • United Water • EJ <p>Or MW&L approved equivalent.</p>



McMinnville Water & Light Approved Water Materials List

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	current <i>ANSI/AWWA Standard C509 or C515</i>	
VAULTS	577-LA W/ 57-T-2-332P lid 676-LA W/676-T-2-332P lid 687-2-LA W/ 687-T-2-332P lid 5106-1-LA W/ 5106-3-T-2-332P lid 1) Vault shall have galvanized, wallmount, OSHA approved ladder. 2) Vault shall have two galvanized, spring assisted, H-20 traffic rated doors. Doors shall open toward the short side (end) of the vault. 3) Specify knockouts be offset. 4) If available, "WA" models eliminate "C-channels" found in "LA" vaults.	<ul style="list-style-type: none"> • Oldcastle Precast Or MW&L approved equivalent.
VAULT, DOORS	Two galvanized, spring assisted, H-20 traffic rated doors opening toward short side of vault. See Spec: V577, V676, V687, V5106	<ul style="list-style-type: none"> • Oldcastle Precast Or MW&L approved equivalent.
VAULT, GROUT	Water tight, non-shrinking, long life	Any meeting description



McMinnville Water & Light Approved Water Materials List

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VAULT, LADDERS	Galvanized, wall mounted, OSHA approved, with locking extension out of vault.	Any meeting description
VAULT, MASTIC	Bituminous Mastic	<ul style="list-style-type: none"> • Oldcastle Precast Or MW&L approved equivalent.
VAULT, SUMP PUMP	Required in backflow preventer vaults.	See City of McMinnville Building Department requirements.
WATER SERVICES 1" & 2"	<p>All material shall meet <i>NSF 61, Annex G, NSF 372 certification</i> as of January 4, 2014.</p> <p><u><i>Domestic Materials Only</i></u></p> <ol style="list-style-type: none"> 1) All material shall meet the current <i>ANSI/AWWA Standard C800 Underground Service Line Valves and Fittings</i>. 2) All fittings shall be compression type brass material. 3) All direct tap fittings shall have CC threads for 1 inch only. 4) Approved Teflon joint compound or triple wrap Teflon tape shall be used on all threaded pipe fittings. 5) NPT threads shall be used on corporation stops when a tapping saddle is used. (This applies to two inch 	Any meeting description



McMinnville Water & Light Approved Water Materials List

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	<p>services only or one inch services on Cast Iron mains.)</p> <p>6) All 1 inch service lines shall be Type K soft copper.</p> <p>7) All 2 inch diameter pipe shall be Type K hard copper.</p> <p>8) All angle meter stop valves (See Specs: WMS-1 & WMS-2) shall be installed a minimum of 10 inches below the top of the meter box.</p> <p>9) All water meter boxes shall be installed to finish grade.</p> <p>10) Meter setters shall be approved on a case by case basis by MW&L.</p>	
WIRE, TRACER	Blue #10 AWG Solid Copper UF Cross Linked type wire.	Any meeting description