

APPROVED PRODUCTS LIST - POTABLE WATER DISTRIBUTION SYSTEM

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Product Category	Approved Manufacturer	Model/Series	Pressure/Load Rating	Website	Reference/Standard	Requirements
Ductile Iron Pipe	US Pipe	Tyton Joint	250-350 psi see specification	http://www.uspipe.com/Main/	AWWA C150 and AWWA C151	Cement Mortar Lined with Exterior Bituminous Coating McWane Pipe stamped: McWane by Atlantic States or Clow only
	American (ACIPCO)	Fastite Joint		http://www.acipco.com		
	McWane	Tyton Joint		http://mcwaneductile.com/		
Ductile Iron Fittings	Sigma	Mechanical Joint	250-350 psi see specification	http://www.sigmaco.com/Products/Fittings.htm	AWWA C110/C111 and AWWA C153	Shall always meet or exceed pipe pressure rating
	Tyler Union	Mechanical Joint		http://www.tylerunion.com/		
	SIP Industries	Mechanical Joint		http://www.sipindustries.com/main/default.asp		
	Star	Mechanical Joint		http://www.starpipeproducts.com/		
	American	Mechanical Joint		http://www.acipco.com		
Ductile Iron Restrained Joint Pipe	American	Flex Ring	250-350 psi see specification	http://www.acipco.com	AWWA C150 and AWWA C151	Boltless restraint unless otherwise specified
	McWane	TR Flex (pipes ≤24")		http://mcwaneductile.com/		
	US Pipe	HDSS/TR Flex		http://www.uspipe.com/Main/		
Fire Hydrants	Mueller	Super Centurion	250-psi	http://www.muellercompany.com/water/default.aspx	AWWA C502	Must be Equipped with Non-Kinking Chain In Morrisville, Storz connection required near FDC
	AFC (American Flow Control)	Mark 73-5 with flanged or ALPHA ends		http://www.acipco.com		
	Clow	Medallion, F2545		http://www.clowvalve.com/		
	M&H	Model 129		http://www.mh-valve.com/		
Vertical Hydrant Shoe	Mueller	A-421 Vertical Shoe	250-psi	http://www.muellercompany.com/water/default.aspx		For new installations with a maximum bury depth of 5.5-ft
	Clow	Vertical Shoe		http://www.clowvalve.com/		
	AFC (American Flow Control)	Vertical Shoe with flanged or ALPHA ends		http://www.acipco.com		
	M&H	Vertical Shoe		http://www.mh-valve.com		
Post Indicator Valve	Clow		250-psi	http://www.clowvalve.com/		Must include electronic tamper switch
	Mueller	Series 2300, A-20806		http://www.muellercompany.com/water/default.aspx		
	AFC (American Flow Control)	Model 2500		http://www.acipco.com		
	M&H	C515		http://www.mh-valve.com/		
Gate Valves, Less than 4-inches, threaded end connections	Mueller	Series 2360	250-psi	http://www.muellercompany.com/water/default.aspx	AWWA C509	Left opening & Valves less than 2-inches shall meet 'no lead' requirements
	Clow	2639 - F6103		http://www.clowvalve.com/		
	AFC (American Flow Control)	Series 2500		http://www.acipco.com		
	M&H	C509		http://www.mh-valve.com/		
Gate Valves, 4-inch through 6- inch w/ handwheel & flange connections	Mueller	Series 2360-6	250-psi	http://www.muellercompany.com/water/default.aspx	AWWA C509	Handwheel operators with non- rising stem
	AFC (American Flow Control)	Series 2500		http://www.acipco.com		
	Clow	2639 - F6102		http://www.clowvalve.com/		
	M&H	C515		http://www.mh-valve.com/		
Gate Valves, 4-inch and greater w/ MJ or RJ end connections	Mueller	Series 2360 or 2361	250-psi	http://www.muellercompany.com/water/default.aspx	AWWA C509 or C515	Sealing gaskets shall be EPDM. Gear operators as follows: 18"-2:1, 20" & 24"-3:1, ≥30"-4:1
	AFC (American Flow Control)	Series 2500 (alpha ends also allowed for 12" and under)		http://www.acipco.com		
	Clow	2638 or 2639 - F6100		http://www.clowvalve.com/		
	M&H	C515		http://www.mh-valve.com/		

Combination Air Valve	Vent-O-Mat	RBX	230-psi	http://www.ventomat.com/	AWWA C512	ARV's with spheres are not approved
	Vent-Tech	Series C - WTR		http://www.internationalvalve.com/		
	ARI	2" only -- D-040 STST		http://www.arivalves.com		
Check Valve	AFC (American Flow Control)	Series 2100	250-psi	http://www.acipco.com	AWWA C508 NSF 61	EPDM or Viton encapsulated disc. FBE coated DI body. SS bolts.
	Val-Matic	Swing-Flex 500A		http://www.valmatic.com/		
Ball Drip Valve	tyco	AD-2	175-psi	http://www.tyco-fire.com	UL/FM approved	Only install vertically with the arrow pointed down.
Insertion Valve 12" and under	Team	InsertValve	250-psi	www.teamvalve.com	AWWA C515	Resilient Wedge must Seat on Valve Body, not Pipe
Insertion Valve 16" to 24"	AVT	EZ Valve	250-psi	https://www.cs-nri.com/brands/avt/	AWWA C515	Installed by AVT installers. Requires 2" coupon from pipe prior to valve installation.
Valve Box	E. Jordan Iron Works	Screw Type 8550 (or 8560)	N/A	http://www.ejco.com/		Telescoping Box Assembly & 6" lid height with 4" skirt
	Bingham & Taylor	Screw Type 4905		http://www.binghamandtaylor.com/		
Curb Stop Box	Bingham & Taylor	I4B142RWHVTRI	N/A	http://www.binghamandtaylor.com/		#142 Roadway Box w/ Arched Base and heavy duty tri-skirt lid
Wedge Action Retainer Glands	EBAA	Mega-Lug	350-psi through 12" 250-psi through 48"	http://www.ebaa.com/	UL/FM approved through 12"	All retainer glands shall be epoxy coated or polyester powder coated
	Ford	Uni-Flange Series 1400		http://www.fordmeterbox.com/		
	Romac	RomaGrip		http://www.romac.com/		
	Sigma	One Lok Model SLDE		http://www.sigmaco.com		
	SIP	EZ-Grip		http://www.sipindustries.com		
	Star	Stargrip		http://www.starpipeproducts.com		
	Tyler Union	TUFGrip TLD		http://www.tylerunion.com/		
Wide Range Restrained Fitting	Romac	ALPHA	350-psi through 12"	http://www.romac.com/		Coupling/End Cap/Flanged Coupling
	Krausz USA	Hymax Grip	350-psi through 16"	https://krauszusa.com/		
Sampling Stations	Kupferle	Eclipse #88-SS	200-psi	http://www.hydrants.com/		All Piping to be Stainless Steel
Mechanical Joint, Full Body Tapping Sleeves	Mueller	H-615 (≤ 24")	200-psi	http://www.muellercompany.com/water/default.aspx	AWWA C110/C111	Full body Ductile Iron Tapping Sleeves approved for all applications
	AFC, American Flow Control	Series 2800 (≤24")		http://www.acipco.com		
	Tyler Union	Full Body (≤12")		http://www.tylerunion.com/		
Stainless Steel Tapping Sleeves (w/ Stainless Steel Flange)	Ford	FTSS-xxx-x-Z	200-psi	http://www.fordmeterbox.com/	AWWA C223	See specs for approved sizes. Stainless Steel Flange req'd
	JCM	6"-12" only -- 432 Cary Spec		https://www.jcmindustries.com/		
	Mueller	H-304		http://www.muellercompany.com/water/default.aspx		
	Romac	6"-12" only -- SST-III		http://www.romac.com		
Tapping Saddles	US Pipe	Ductile Iron Saddle Outlet	250-psi	http://www.uspipe.com/Main/		Available for 14" to 24" mains
Curb Stop w/ Lock Wing	AY McDonald	76102WQ	300-psi	http://www.aymcdonald.com/index.cfm		"No Lead" Brass meeting UNS/CDA C89833 per ASTM B584
	Mueller	B25209N		http://www.muellercompany.com/water/default.aspx		
	Ford	B44-444W/Q or G1-NL		http://www.fordmeterbox.com/		
	Cambridge	212NL-H4H4		http://www.cambridgebrass.com/		

Corporation Stops, 1-inch	Mueller	B-25008N	300-psi	http://www.muellercompany.com/water/default.aspx	AWWA C800	"No Lead" Brass meeting UNS/CDA C89833 per ASTM B584
	Ford	FB1000-4-[Q or G]-NL		http://www.fordmeterbox.com/		
	AY McDonald	74701-BQ		http://www.aymcdonald.com/index.cfm		
	Cambridge	301NL-A4H4		http://www.cambridgebrass.com/		
Service Saddles	Smith Blair	Model 325	200-psi	http://www.smith-blair.com/water.php	AWWA C800	Requires 2 silicon bronze straps with brass body
	Mueller	BR2B		http://www.muellercompany.com/water/default.aspx		
	AY McDonald	3825		http://www.aymcdonald.com/index.cfm		
	Cambridge	810		http://www.cambridgebrass.com/		
	Ford	202B		http://www.fordmeterbox.com/		
	Romac	202B		http://www.romac.com/		
Meter Boxes, 1-inch Service Long Yokebox	Ford	LYLBB111-444-T-NL	AASHTO H-10 Rated	http://www.fordmeterbox.com/	ASSE 1024 Dual Check Valve	45 degree MIP x Compression fitting is required on box inlet
	AY McDonald	776-409BBGG 443		http://www.imeagle.com/		
1-1/2 inch Custom Setters	Ford	VBB76-18B-11-66-NL	200-psi	http://www.fordmeterbox.com/	UNS/CDA C89833 per ASTM B584	Use 300-psi rated full port ball valves. Ground key valves are not approved at inlet and outlet. Residential applications may use an angled check valve outlet or have a separate backflow preventer.
	Mueller	B2423-1N		http://www.muellercompany.com/water/default.aspx		
	Cambridge	6020NL-618-F6F6-UUB		http://www.cambridgebrass.com/		
	AY McDonald	720B618WWFF 665		http://www.aymcdonald.com/index.cfm		
2-inch Custom Setters	Ford	VBB77-18B-11-77-NL	200-psi	http://www.fordmeterbox.com/	UNS/CDA C89833 per ASTM B584	Use 300-psi rated full port ball valves. Ground key valves are not approved at inlet and outlet. Residential applications may use an angled check valve outlet or have a separate backflow preventer.
	Mueller	B2423-1N		http://www.muellercompany.com/water/default.aspx		
	Cambridge	6020NL-718-F7F7-UUB		http://www.cambridgebrass.com/		
	AY McDonald	720B718WWFF 775		http://www.aymcdonald.com/index.cfm		
Meter Vaults, 1-1/2 & 2 inch services	CDR	A142436518	Assembly Tier 15 or greater	http://www.cdrrsystems.com		Two bolt lid with 2" transmitter hole & 4"x4" Mouse Holes & Knockouts
	Quazite	PG2436Z960		http://www.hubbell.com		
Dismantling Joint	Romac	DJ405	175-psi	http://www.romac.com/	AWWA C219, NSF 61, NSF 372	Install next to meter in 3", 4", & 6" meter vault installations. Dismantling Joints must be coated. Hymax, Ford & JCM with Tie Rods.
	Smith Blair	Model 975	150-psi	http://www.smith-blair.com/water.php		
	Ford	FDJ-DxxR-R	150-psi	http://www.fordmeterbox.com/		
	Krausz USA	Hymax	175 psi	https://www.hymaxusa.com/products-main/dismantling-joint/dismantling-joint-3		
	JCM	Model 309	150-psi	http://www.jcmindustries.com/		
Flange Coupling Adaptor (Restrained)	Star	3200	3"-16" 350-psi 18"-36" 250-psi	http://www.starpipeproducts.com/	UL/FM approved NSF-61 & NSF-372	Install next to bypass valve in 3", 4", & 6" meter vault installations. Flange coupling adaptors must be FBE coated. Sizes approved as noted. Note EPDM gasket shall be specified when ordering.
	Ford	RFAD	4"-12" 350-psi	http://www.fordmeterbox.com/		
	SIP	EZ Grip	3"-12" 350-psi	http://www.sipindustries.com		
	Hymax Grip	130-56-xxxx-16	1.5"-12" DIP 350-psi	https://www.krauszusa.com/products-main/hymax-grip-wide-range-restraint-couplings/hymax-grip-flange-adaptor/		
	Romac	ALPHA	4"-12" 350-psi	http://www.romac.com/		

Precast Concrete Meter Vaults for 3, 4 & 6 inch services	Lindsay Precast	8X10 & 9 X12	N/A	http://www.stayright.com/	ASTM C913	8X10 will be standard for 3" and 4" meter vault installations, 9 X 12 will be standard for 6" meter vaults. Height will vary to meet specs.
	Mack Industries	8X10 & 9 X12		http://www.mackconcrete.com/		
	Precast Solutions	8X10 & 9 X12		http://www.precast-solutions.com/		
	CP&P (Hanson, Carolina Precast)	8X10 & 9 X12		http://www.concretePandP.com/		
	Tindall	8X10 & 9 X12		http://www.tindallcorp.com/		
	OldCastle (NC Products)	8X10 & 9 X12		http://www.oldcastleprecast.com/plants/ncproductsraleigh/Pages/default.aspx		
Foltz	8X10 & 9 X12	http://www.foltzconcretepipe.com				
Meter Vault Doors	Halliday	48" X 48"	N/A	http://www.hallidayproducts.com/	H20 Loading, no exceptions	All hatch doors shall include slam lock and lockable assembly for owner's padlock
	Bilco	48" X 48"		http://www.bilco.com/		
	US Foundry	48" X 48"		http://www.usfoundry.com/		
Repair Clamps	Smith Blair	Full Circle Repair Clamp - 261	150-psi	http://www.smith-blair.com/water.php	AWWA C230 for Clamps ≤12"	Type 304 Stainless Steel Body, SS Fasteners, and SS cast finger lug
	JCM	Full Circle Repair Clamp, #131		http://www.jcmindustries.com/		
	Mueller	Full Seal Clamp - 540 or 550		http://www.muellercompany.com/water/default.aspx		
	Krausz	Hymax or Hymax Versa		http://www.krauszusa.com		
	Romac	SS Repair Clamp - SS1		http://www.romac.com/		
Ford	All Stainless Repair Clamp FS1	http://www.fordmeterbox.com/				
Transition Coupling	Krausz	Hymax or Hymax Grip (rest.) 890	250-psi	http://www.krauszusa.com	AWWA C219 NSF 61	For Connections Between AC and PVC or DIP, Macro HP shall be used. Utilize stainless steel fasteners. ALPHA - For Connections Between Cast Iron, PVC or DIP only.
	Smith Blair	Quantum		http://www.smith-blair.com/water.php		
	JCM	Model 242, Optimum Range		http://www.jcmindustries.com/		
	Ford	FC2W		http://www.fordmeterbox.com/		
	Romac	XR-501 or Macro HP or ALPHA		http://www.romac.com/		
Marking Tape & Marker Balls	3M Marker Ball	1403-XR	N/A	http://solutions.3m.com/en_US/	APWA	Blue for Potable Water
	3M Marking Tape	7903 EMS				
Automatic Flushing Device Controller	Hunter Industries	Node 100 Controller	N/A	http://www.hydrants.com/	Brass components shall meet UNS/CDA C89833	Install with Hunter 1"-2" PGV Valve
Reduced Pressure Principle Backflow Assembly [RP]	Febco	LF825Y, LF860 or LF880V	175-psi	www.febcoonline.com	ASSE 1013 AWWA C511 UL/FM	All Brass components shall be lead free. See cross connection ordinance.
	Zurns/Wilkins	375 or 475		http://www.zurn.com		
	Watts/Ames	Colt, Deringer		www.watts.com/products/plumbing-flow-control-solutions/backflow-preventers		
	Apollo	4A Series		https://apollovalves.com/products/#/criteria		
Double Check Valve Assembly [DCVA]	Febco	LF850 or LF870V	175-psi	www.febcoonline.com	ASSE 1015 AWWA C510 UL/FM	All Brass components shall be lead free. See cross connection ordinance.
	Zurns/Wilkins	350 or 450		http://www.zurn.com		
	Watts/Ames	Colt, Deringer		www.watts.com/products/plumbing-flow-control-solutions/backflow-preventers		
	Apollo	4A Series		https://apollovalves.com/products/#/criteria		

Double Check Detector Assembly [DCDA]	Febco	LF856 or LF876V	175-psi	www.febcoonline.com	ASSE 1048 AWWA C510 UL/FM	All Brass components shall be lead free. See cross connection ordinance.
	Zurns/Wilkins	350DA or 450DA		http://www.zurn.com		
	Watts/Ames	Colt, Deringer		www.watts.com/products/plumbing-flow-control-solutions/backflow-preventers		
	Apollo	4A Series		https://apollovalves.com/products#/criteria		
Reduced Pressure Principle Detector Assembly [RPDA]	Febco	LF866 or LF886V	175-psi	www.febcoonline.com	ASSE 1047 AWWA C550 UL/FM	All Brass components shall be lead free. See cross connection ordinance.
	Zurns/Wilkins	375DA, 475DA, 475DAV, 475STDA, 475STDAV		http://www.zurn.com		
	Watts/Ames	Colt, Deringer, or M500 Series		www.watts.com/products/plumbing-flow-control-solutions/backflow-preventers		
	Apollo	4A Series		https://apollovalves.com/products#/criteria		
Polyethylene Pipe Encasement (Polywrap)	Vbio	N/A	N/A	https://dipra.org/technical-resources/design-steps/planning-and-design/pipe-features/coatings-and-linings	ANSI/AWWA C105/A21.5	Enhanced with anti-microbial layer
	VB3	N/A		https://aathread.com/vb3		