

**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	<a href="http://www.uspipe.com/Main/">http://www.uspipe.com/Main/</a>	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		<a href="http://www.acipco.com">http://www.acipco.com</a>		
	McWane	Tyton Joint		<a href="http://mcwaneductile.com/">http://mcwaneductile.com/</a>		
Ductile Iron Fittings	Sigma	Mechanical Joint	250-350 psi see specification	<a href="http://www.sigmaco.com/Products/Fittings.htm">http://www.sigmaco.com/Products/Fittings.htm</a>	AWWA C110/C111 and AWWA C153	Shall always meet or exceed pipe pressure rating
	Tyler Union	Mechanical Joint		<a href="http://www.tylerunion.com/">http://www.tylerunion.com/</a>		
	SIP Industries	Mechanical Joint		<a href="http://www.sipindustries.com/main/default.asp">http://www.sipindustries.com/main/default.asp</a>		
	Star	Mechanical Joint		<a href="http://www.starpipeproducts.com/">http://www.starpipeproducts.com/</a>		
	American	Mechanical Joint		<a href="http://www.acipco.com">http://www.acipco.com</a>		
Ductile Iron Restrained Joint Pipe	American	Flex Ring	250-350 psi see specification	<a href="http://www.acipco.com">http://www.acipco.com</a>	AWWA C150 and AWWA C151	Boltless restraint unless otherwise specified
	McWane	TR Flex (pipes ≤24")		<a href="http://mcwaneductile.com/">http://mcwaneductile.com/</a>		
	US Pipe	TR Flex		<a href="http://www.uspipe.com/Main/">http://www.uspipe.com/Main/</a>		
Fire Hydrants	Mueller	Super Centurion	250-psi	<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>	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		<a href="http://www.acipco.com">http://www.acipco.com</a>		
	Clow	Medallion, F2545		<a href="http://www.clowvalve.com/">http://www.clowvalve.com/</a>		
	M&H	Model 129		<a href="http://www.mh-valve.com/">http://www.mh-valve.com/</a>		
Vertical Hydrant Shoe	Mueller	A-421 Vertical Shoe	250-psi	<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>		For new installations with a maximum bury depth of 5.5-ft
	Clow	Vertical Shoe		<a href="http://www.clowvalve.com/">http://www.clowvalve.com/</a>		
	AFC (American Flow Control)	Vertical Shoe		<a href="http://www.acipco.com">http://www.acipco.com</a>		
Post Indicator Valve	Clow		250-psi	<a href="http://www.clowvalve.com/">http://www.clowvalve.com/</a>		Must include electronic tamper switch
	Mueller	Series 2300,A-20806		<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>		
	AFC (American Flow Control)	Model 2500		<a href="http://www.acipco.com">http://www.acipco.com</a>		
	M&H	C515		<a href="http://www.mh-valve.com/">http://www.mh-valve.com/</a>		
Gate Valves, Less than 4-inches, threaded end connections	Mueller	Series 2360	250-psi	<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>	AWWA C509	Left opening & Valves less than 2-inches shall meet 'no lead' requirements
	Clow	2639 - F6103		<a href="http://www.clowvalve.com/">http://www.clowvalve.com/</a>		
	AFC (American Flow Control)	Series 2500		<a href="http://www.acipco.com">http://www.acipco.com</a>		
	M&H	C509		<a href="http://www.mh-valve.com/">http://www.mh-valve.com/</a>		
Gate Valves, 4-inch through 6- inch w/ handwheel & flange connections	Mueller	Series 2360-6	250-psi	<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>	AWWA C509	Handwheel operators with non- rising stem
	AFC (American Flow Control)	Series 2500		<a href="http://www.acipco.com">http://www.acipco.com</a>		
	Clow	2639 - F6102		<a href="http://www.clowvalve.com/">http://www.clowvalve.com/</a>		
	M&H	C515		<a href="http://www.mh-valve.com/">http://www.mh-valve.com/</a>		

Gate Valves, 4-inch and greater w/ MJ or RJ end connections	Mueller	Series 2360 or 2361	250-psi	<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>	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 with flanged or ALPHA ends		<a href="http://www.acipco.com">http://www.acipco.com</a>		
	Clow	2638 or 2639 - F6100		<a href="http://www.clowvalve.com/">http://www.clowvalve.com/</a>		
	M&H	C515		<a href="http://www.mh-valve.com/">http://www.mh-valve.com/</a>		
Combination Air Valve	Vent-O-Mat	RBX	230-psi	<a href="http://www.ventomat.com/">http://www.ventomat.com/</a>	AWWA C512	ARV's with spheres are not approved
	Vent-Tech	Series C - WTR		<a href="http://www.internationalvalve.com/">http://www.internationalvalve.com/</a>		
	ARI	2" only -- D-040 STST		<a href="http://www.arivalves.com">http://www.arivalves.com</a>		
Check Valve	AFC (American Flow Control)	Series 2100	250-psi	<a href="http://www.acipco.com">http://www.acipco.com</a>	AWWA C508 NSF 61	EPDM or Viton encapsulated disc. FBE coated DI body. SS bolts.
	Val-Matic	Swing-Flex 500A		<a href="http://www.valmatic.com/">http://www.valmatic.com/</a>		
Ball Drip Valve	tyco	AD-2	175-psi	<a href="http://www.tyco-fire.com">http://www.tyco-fire.com</a>	UL/FM approved	Only install vertically with the arrow pointed down.
Insertion Valve	Team	InsertValve	250-psi	<a href="http://www.teamvalve.com">www.teamvalve.com</a>	AWWA C515	Resilient Wedge must Seat on Valve Body, not Pipe
Valve Box	E. Jordan Iron Works	Screw Type 8550 (or 8560)	N/A	<a href="http://www.ejco.com/">http://www.ejco.com/</a>		Telescoping Box Assembly & 6" lid height with 4" skirt
	Bingham & Taylor	Screw Type 4905		<a href="http://www.binghamandtaylor.com/">http://www.binghamandtaylor.com/</a>		
Curb Stop Box	Bingham & Taylor	I4B142RWHVTRI	N/A	<a href="http://www.binghamandtaylor.com/">http://www.binghamandtaylor.com/</a>		#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"	<a href="http://www.ebaa.com/">http://www.ebaa.com/</a>	UL/FM approved through 12"	All retainer glands shall be epoxy coated or polyester powder coated
	Romac	RomaGrip		<a href="http://www.romac.com/">http://www.romac.com/</a>		
	Sigma	One Lok Model SLDE		<a href="http://www.sigmaco.com">http://www.sigmaco.com</a>		
	SIP	EZ-Grip		<a href="http://www.sipindustires.com">http://www.sipindustires.com</a>		
	Star	Stargrip		<a href="http://www.starpipeproducts.com">http://www.starpipeproducts.com</a>		
	Tyler Union	TUFGrip TLD		<a href="http://www.tylerunion.com/">http://www.tylerunion.com/</a>		
Wide Range Restrained Fitting	Romac	ALPHA	350-psi through 12"	<a href="http://www.romac.com/">http://www.romac.com/</a>		Coupling/End Cap/Flanged Coupling
Sampling Stations	Kupferle	Eclipse #88-SS	200-psi	<a href="http://www.hydrants.com/">http://www.hydrants.com/</a>		All Piping to be Stainless Steel
Mechanical Joint, Full Body Tapping Sleeves	Mueller	H-615 (≤ 24")	200-psi	<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>	AWWA C110/C111	Full body Ductile Iron Tapping Sleeves approved for all applications
	AFC, American Flow Control	Series 2800 (≤24")		<a href="http://www.acipco.com">http://www.acipco.com</a>		
	Tyler Union	Full Body (≤12")		<a href="http://www.tylerunion.com/">http://www.tylerunion.com/</a>		
Stainless Steel Tapping Sleeves (w/ Stainless Steel Flange)	Mueller	H-304	200-psi	<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>	AWWA C223	See specs for approved sizes. Stainless Steel Flange req'd
	Romac	6"-12" only -- SST-III		<a href="http://www.romac.com">http://www.romac.com</a>		

Tapping Saddles	US Pipe	Ductile Iron Saddle Outlet	250-psi	<a href="http://www.uspipe.com/Main/">http://www.uspipe.com/Main/</a>		Available for 14" to 24" mains
Curb Stop w/ Lock Wing	AY McDonald	76102WQ	300-psi	<a href="http://www.aymcdonald.com/index.cfm">http://www.aymcdonald.com/index.cfm</a>		"No Lead" Brass meeting UNS/CDA C89833 per ASTM B584
	Mueller	B25209N		<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>		
	Ford	B44-444W[Q or G]-NL		<a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>		
	Cambridge	212NL-H4H4		<a href="http://www.cambridgebrass.com/">http://www.cambridgebrass.com/</a>		
Corporation Stops, 1-inch	Mueller	B-25008N	300-psi	<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>	AWWA C800	"No Lead" Brass meeting UNS/CDA C89833 per ASTM B584
	Ford	FB1000-4-[Q or G]-NL		<a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>		
	AY McDonald	74701-BQ		<a href="http://www.aymcdonald.com/index.cfm">http://www.aymcdonald.com/index.cfm</a>		
	Cambridge	301NL-A4H4		<a href="http://www.cambridgebrass.com/">http://www.cambridgebrass.com/</a>		
Service Saddles	Smith Blair	Model 325	200-psi	<a href="http://www.smith-blair.com/water.php">http://www.smith-blair.com/water.php</a>	AWWA C800	Requires 2 silicon bronze straps with brass body
	Mueller	BR2B		<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>		
	AY McDonald	3825		<a href="http://www.aymcdonald.com/index.cfm">http://www.aymcdonald.com/index.cfm</a>		
	Cambridge	810		<a href="http://www.cambridgebrass.com/">http://www.cambridgebrass.com/</a>		
	Ford	202B		<a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>		
	Romac	202B		<a href="http://www.romac.com/">http://www.romac.com/</a>		
Meter Boxes, 1-inch Service Long Yokebox	Ford	LYLBB111-444-T-NL	AASHTO H-10 Rated	<a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>	ASSE 1024 Dual Check Valve	45 degree MIP x Compression fitting is required on box inlet
	AY McDonald	776-409BBGG 443		<a href="http://www.jmeagle.com/">http://www.jmeagle.com/</a>		
1-1/2 inch Custom Setters	Ford	VBB76-18B-11-66-NL	200-psi	<a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>	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		<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>		
	Cambridge	6020NL-618-F6F6-UUB		<a href="http://www.cambridgebrass.com/">http://www.cambridgebrass.com/</a>		
	AY McDonald	720B618WWFF 665		<a href="http://www.aymcdonald.com/index.cfm">http://www.aymcdonald.com/index.cfm</a>		
2-inch Custom Setters	Ford	VBB77-18B-11-77-NL	200-psi	<a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>	UNS/CDA C89833 per ASTM B584	
	Mueller	B2423-1N		<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>		
	Cambridge	6020NL-718-F7F7-UUB		<a href="http://www.cambridgebrass.com/">http://www.cambridgebrass.com/</a>		
	AY McDonald	720B718WWFF 775		<a href="http://www.aymcdonald.com/index.cfm">http://www.aymcdonald.com/index.cfm</a>		
Meter Vaults, 1-1/2 & 2 inch services	CDR	A142436518	Assembly Tier 15 or greater	<a href="http://www.cdrsistemas.com">http://www.cdrsistemas.com</a>		Two bolt lid with 2" transmitter hole & 4"x4" Mouse Holes & Knockouts
	Quazite	PG2436Z960		<a href="http://www.hubbell.com">http://www.hubbell.com</a>		

Dismantling Joint	Romac	DJ405	175-psi	<a href="http://www.romac.com/">http://www.romac.com/</a>		Install next to meter in 3", 4", & 6" meter vault installations. Dismantling Joints must be coated. Ford & JCM with Tie Rods.
	Smith Blair	Model 975	150-psi	<a href="http://www.smith-blair.com/water.php">http://www.smith-blair.com/water.php</a>		
	Ford	FDJ-DxxR-R	150-psi	<a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>		
	JCM	Model 309	150-psi	<a href="http://www.jcmindustries.com/">http://www.jcmindustries.com/</a>		
Flange Coupling Adaptor (Restrained)	Star	3200	3"-16" 350-psi 18"-36" 250-psi	<a href="http://www.starpipeproducts.com/">http://www.starpipeproducts.com/</a>	UL/FM approved through 12"	Install next to bypass valve in 3", 4", & 6" meter vault installations. Flange coupling adaptors must be FBE coated. Sizes approved as noted.
	Ford	RFAD	4"-12" 350-psi	<a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>		
	SIP	EZ Grip	3"-12" 350 -psi	<a href="http://www.sipindustires.com">http://www.sipindustires.com</a>		
	Romac	ALPHA	4"-12" 350-psi	<a href="http://www.romac.com/">http://www.romac.com/</a>		
Precast Concrete Meter Vaults for 3, 4 & 6 inch services	Lindsay Precast	8X10 & 9 X12	N/A	<a href="http://www.stayright.com/">http://www.stayright.com/</a>	ASTM C478	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		<a href="http://www.mackconcrete.com/">http://www.mackconcrete.com/</a>		
	Precast Solutions	8X10 & 9 X12		<a href="http://www.precast-solutions.com/">http://www.precast-solutions.com/</a>		
	CP&P (Hanson, Carolina Precast)	8X10 & 9 X12		<a href="http://www.concretePandP.com/">http://www.concretePandP.com/</a>		
	Tindall	8X10 & 9 X12		<a href="http://www.tindallcorp.com/">http://www.tindallcorp.com/</a>		
	OldCastle (NC Products)	8X10 & 9 X12		<a href="http://oldcastleprecast.com/plants/ncproductsraleigh/Pages/c">oldcastleprecast.com/plants/ncproductsraleigh/Pages/c</a>		
	Foltz	8X10 & 9 X12		<a href="http://www.foltzconcretepipe.com">http://www.foltzconcretepipe.com</a>		
Meter Vault Doors	Halliday	48" X 48"	N/A	<a href="http://www.hallidayproducts.com/">http://www.hallidayproducts.com/</a>	H2O Loading, no exceptions	All hatch doors shall include slam lock and lockable assembly for owner's padlock
	Bilco	48" X 48"		<a href="http://www.bilco.com/home.asp?country=93">http://www.bilco.com/home.asp?country=93</a>		
	US Foundry	48" X 48"		<a href="http://www.usfoundry.com/usf/">http://www.usfoundry.com/usf/</a>		
Repair Clamps	Smith Blair	Full Circle Repair Clamp - 261	150-psi	<a href="http://www.smith-blair.com/water.php">http://www.smith-blair.com/water.php</a>	AWWA C230 for Clamps ≤12"	Type 304 Stainless Steel Body, SS Fasteners, and SS cast finger lug
	JCM	Full Circle Repair Clamp, #131		<a href="http://www.jcmindustries.com/">http://www.jcmindustries.com/</a>		
	Mueller	Full Seal Clamp - 540 or 550		<a href="http://www.muellercompany.com/water/default.aspx">http://www.muellercompany.com/water/default.aspx</a>		
	Krausz	EZ Max Plus or Versa Max		<a href="http://www.krauszusa.com">http://www.krauszusa.com</a>		
	Romac	SS Repair Clamp - SS1		<a href="http://www.romac.com/">http://www.romac.com/</a>		
	Ford	All Stainless Repair Clamp FS1		<a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>		
Transition Coupling	Krausz	Hymax	250-psi	<a href="http://www.krauszusa.com">http://www.krauszusa.com</a>	AWWA C219 NSF 61	For Connections Between AC and PVC or DIP, Hymax or Macro HP shall be used. Utilize stainless steel fasteners.  ALPHA - For Connections Between Cast Iron, PVC or DIP
	Smith Blair	Quantum		<a href="http://www.smith-blair.com/water.php">http://www.smith-blair.com/water.php</a>		
	JCM	Model 242, Optimum Range		<a href="http://www.jcmindustries.com/">http://www.jcmindustries.com/</a>		
	Ford	FC2W		<a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>		
	Romac	XR-501 or Macro HP or ALPHA		<a href="http://www.romac.com/">http://www.romac.com/</a>		

Marking Tape & Marker Balls	3M Marker Ball	1403-XR	N/A	<a href="http://solutions.3m.com/en_US/">http://solutions.3m.com/en_US/</a>	APWA	Blue for Potable Water
	3M Marking Tape	7613XR				

Automatic Flushing Device	Hydro Guard (by Mueller)	HG1-8021N with S120	200-psi	<a href="http://www.hydro-guard.com">www.hydro-guard.com</a>	Brass components shall meet UNS/CDA C89833	Install 2" Meter per detail near unit
	Kupferle	9400 Low Lead	200-psi	<a href="http://www.hydrants.com/">http://www.hydrants.com/</a>		
Reduced Pressure Principle Backflow Assembly [RP]	Febco	LF825Y, LF860 or LF880V	175-psi	<a href="http://www.febcoonline.com">www.febcoonline.com</a>	ASSE 1013 AWWA C511 UL/FM	All Brass components shall be lead free.
	Wilkins	375 or 475		<a href="http://www.zurn.com">http://www.zurn.com</a>		
Double Check Valve Assembly [DCVA]	Febco	LF850 or LF870V	175-psi	<a href="http://www.febcoonline.com">www.febcoonline.com</a>	ASSE 1015 AWWA C510 UL/FM	All Brass components shall be lead free.
	Wilkins	350 or 450		<a href="http://www.zurn.com">http://www.zurn.com</a>		
Double Check Detector Assembly [DCDA]	Febco	LF856 or LF876V	175-psi	<a href="http://www.febcoonline.com">www.febcoonline.com</a>	ASSE 1048 AWWA C510 UL/FM	All Brass components shall be lead free.
	Wilkins	350DA or 450DA		<a href="http://www.zurn.com">http://www.zurn.com</a>		
Reduced Pressure Principle Detector Assembly [RPDA]	Febco	LF866 or LF886V	175-psi	<a href="http://www.febcoonline.com">www.febcoonline.com</a>	ASSE 1047 AWWA C550 UL/FM	All Brass components shall be lead free.
	Wilkins	375DA or 475DA		<a href="http://www.zurn.com">http://www.zurn.com</a>		