



## Approved Products List Section 800 Wastewater Pumping Systems & Force Mains

Product Category	Approved Manufacturer	Model/Series	Pressure/Load Rating	Website	Reference/Standard	Requirements
Ductile Iron Pipe 4-inch & Larger Diameter Epoxy Lined	US Pipe	Tyton Joint	250-350 psi Per Specification	<a href="http://www.uspipe.com/">http://www.uspipe.com/</a>	AWWA C150 & C151 and DIPRA Stds	40-mils of Protecto 401 Lining (401 lining must be < 1yr old) McWane Pipe stamped: McWane by Atlantic States or Clow only
	American	Fastite Joint / Flex Ring		<a href="https://www.american-usa.com/products">https://www.american-usa.com/products</a>		
	McWane	Tyton Joint		<a href="https://www.mcwaneductile.com">https://www.mcwaneductile.com</a>		
Ductile Iron Fittings 4-inch & Larger Diameter Epoxy Lined	Sigma	Mechanical Joint	250-350 psi Per Specification	<a href="http://www.sigmaco.com/Products/Fittings.htm">http://www.sigmaco.com/Products/Fittings.htm</a>	AWWA C110 & C153 and DIPRA Stds	Shall always receive interior Protecto 401 Lining to meet or exceed main line pipe standards. (401 lining must be < 1yr old)
	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="https://www.american-usa.com/products">https://www.american-usa.com/products</a>		
Ductile Iron Restrained Joint Pipe 4-inch & Larger Diameter Epoxy Lined	Griffin	Snap Lok	250-350 psi Per Specification	<a href="http://www.griffinpipe.com/">http://www.griffinpipe.com/</a>	AWWA C150 & C151 and DIPRA Stds	Boltless restraint unless otherwise specified
	American	Flex Ring		<a href="https://www.american-usa.com/products">https://www.american-usa.com/products</a>		
	McWane	TR Flex		<a href="https://www.mcwaneductile.com">https://www.mcwaneductile.com</a>		
	US Pipe	HDSS (pipes ≤36")		<a href="http://www.uspipe.com/">http://www.uspipe.com/</a>		
PVC Pipe, C900 DR 18 4-inch to 12-inch Diameter	JM Eagle	ASTM D3034 and F679	N/A	<a href="http://www.jmeagle.com/">http://www.jmeagle.com/</a>	ASTM & AWWA stds	Outside Diameter shall conform to DIP Plain End and Elastomeric Gasket Bell Ends Green Color
	National Pipe & Plastics	ASTM D3139 and F477		<a href="http://www.nationalpipe.com/">http://www.nationalpipe.com/</a>		
	Sanderson Pipe	ASTM D3034 and F679		<a href="http://www.sandersonpipe.com">sandersonpipe.com</a>		
	NAPCO	ASTM D3139 and F477		<a href="https://www.napcopipe.com">https://www.napcopipe.com</a>		
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
	Ford	Uni-Flange Series 1400		<a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>		
	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.sipindustries.com">http://www.sipindustries.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>		
Plug Valve (bi-directional)	Pratt	Ballcentric Plug Valve	4-12-inch, 175psi >12-inch, 150psi	<a href="http://www.henrypratt.com">www.henrypratt.com</a>	AWWA C517	4"-12" Round Port & 14"-48" Rectangular, Full Port carrying 100% of pipe flow
	Milliken	600 N1BG		<a href="http://www.millikenvalve.com">www.millikenvalve.com</a>		
	DeZurik	PEF (14"-36" ONLY)		<a href="http://www.dezurik.com">www.dezurik.com</a>		
Ball Valve	Pratt	Rubber Seated Stainless Steel Ball Valve	150 psi	<a href="http://www.henrypratt.com">www.henrypratt.com</a>	AWWA C507	
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 with 4" skirt labeled "Sewer"
	Bingham & Taylor	Screw Type 4905		<a href="https://bandt-us.com/">https://bandt-us.com/</a>		
Combination Air Valve	Vent-Tech	Series C - SWG, SWS	276 psi	<a href="http://www.internationalvalve.com/">http://www.internationalvalve.com/</a>	AWWA C512	Stainless steel valve bodies
	ARI	Site Specific (D-020, D-025, or D-026)	250 psi	<a href="http://www.arivalves.com/">http://www.arivalves.com/</a>		
Marking Tape & Marker Balls	3M Marker Ball	1404-XR	N/A	<a href="http://solutions.3m.com/en_US/">http://solutions.3m.com/en_US/</a>	APWA	Green for Wastewater
	3M Marking Tape	7904 EMS				
Manhole Epoxy Coating	RLS	Raven 405	120-mils wetwell shall be coated prior to installation of	<a href="http://www.ravenlining.com">www.ravenlining.com</a>		Installed by: Certified Applicator
	Sherwin Williams	Duraplate-5900		<a href="http://www.sherwin-williams.com">www.sherwin-williams.com</a>		
DIP Epoxy Coating	Induron	Protecto 401	N/A	<a href="http://www.protecto401.com">www.protecto401.com</a>		40-mil thickness required. Pipe must be installed within 1 year of date of lining. High pressure cleaning shall not exceed 1800psi. Lined carrier pipe shall be pulled through casing.
	Permite Corp.	Permox-CTF		<a href="http://www.protecto401.com">www.protecto401.com</a>		
Grinder	JWC Environmental	CMD-1800	N/A	<a href="http://www.jwce.com/">http://www.jwce.com/</a>		Must have integral rotating screen
	Vogelsang	Xripper		<a href="https://www.vogelsang.info/en-us/">https://www.vogelsang.info/en-us/</a>		
Grinder Control Panel	JWC Environmental	B100R	N/A	<a href="http://www.jwce.com/">http://www.jwce.com/</a>		
Grinder Motor	Baldor	Site Specific	N/A	<a href="http://www.baldor.com">http://www.baldor.com</a>	NEMA Design 'B' and TEFC	Minimum Motor Size: 5hp, 60Hz, 240V or 480V AC; electric, immersible IP67 rated
	Reliance			<a href="http://www.reliance.com/">http://www.reliance.com/</a>		
	US Motor			<a href="http://www.usmotors.com/">http://www.usmotors.com/</a>		
Pump	Fairbanks Nijhuis	Site Specific	N/A	<a href="http://www.fairbanksnijhuis.com/">http://www.fairbanksnijhuis.com/</a>		Motor horsepower shall be 10 hp minimum/ pump station specific
	Sulzer			<a href="http://www.sulzer.com">http://www.sulzer.com</a>		
	Pentair Hydromatic			<a href="http://www.hydraulic.com">www.hydraulic.com</a>		



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Pump	Wilo	Site Specific		<a href="https://wilo.com/us/en_us/">https://wilo.com/us/en_us/</a>		Motor horsepower shall be 10 hp minimum/ pump station specific
	Homa			<a href="http://www.homapump.com">www.homapump.com</a>		
	Cornell			<a href="https://www.cornellpump.com/pump-products/">https://www.cornellpump.com/pump-products/</a>		
Flow Meter	Endress Hauser	Site Specific	N/A	<a href="https://www.us.endress.com/en/field-instruments-overview">https://www.us.endress.com/en/field-instruments-overview</a>		316 SS Flanges on meters less than 24-inches. Must have two, three, or four 316 SS or Hastelloy C electrodes
	Siemens			<a href="https://new.siemens.com/global/en/products/automation.html">https://new.siemens.com/global/en/products/automation.html</a>		
	Flexim			<a href="https://www.flexim.com/us">https://www.flexim.com/us</a>		
	Krohne			<a href="https://www.krohne.com/en">https://www.krohne.com/en</a>		
	Rosemount			<a href="https://www.rosemount.com">https://www.rosemount.com</a>		
Pressure Transmitter	Endress Hauser	Site Specific	N/A	<a href="https://www.us.endress.com/en/product-tools">https://www.us.endress.com/en/product-tools</a>		
	Vega			<a href="https://www.vega.com">https://www.vega.com</a>		
	Rosemount			<a href="https://www.rosemount.com">https://www.rosemount.com</a>		
Level Transmitter	Endress Hauser	Site Specific	N/A	<a href="https://www.us.endress.com/en/product-tools">https://www.us.endress.com/en/product-tools</a>		
	Siemens			<a href="https://new.siemens.com/global/en/products/automation.html">https://new.siemens.com/global/en/products/automation.html</a>		
	Vega			<a href="http://www.fielddevices.foxboro.com/products/pressure">www.fielddevices.foxboro.com/products/pressure</a>		
	Contegra			<a href="http://www.contegra.com">www.contegra.com</a>		
	MPE, Inc			<a href="http://products.mpelectronics.com/category/level-measurement">http://products.mpelectronics.com/category/level-measurement</a>		
Odor Control Unit	Carbtrol	Site Specific	N/A	<a href="http://www.carbtrol.com">www.carbtrol.com</a>		Pump stations shall have powered unites/pump station specific
	Evoqua Water Technologies	Site Specific		<a href="http://www.evoqua.com">www.evoqua.com</a>		
	Wager	Typically 2050-1 or larger		<a href="http://www.wagerusa.com">www.wagerusa.com</a>		
Alarm Dialer	Sensaphone	Site Specific	N/A	<a href="https://www.sensaphone.com">https://www.sensaphone.com</a>		Shall be in a lockable NEMA 4 enclosure and have a thermostatically controlled heater.
	Mission	Site Specific		<a href="https://www.123mc.com/en/homepage">https://www.123mc.com/en/homepage</a>		
	Cattron	Site Specific		<a href="https://www.cattron.com">https://www.cattron.com</a>		
	Omnisite	Site Specific		<a href="https://www.omnisite.com">https://www.omnisite.com</a>		
Generator	CAT	Site Specific	N/A	<a href="http://www.cat.com">www.cat.com</a>		Must Meet All Regulatory and Town Requirements
	Blue Star			<a href="https://bluestarps.com">https://bluestarps.com</a>		
	Kohler			<a href="https://powersystems.kohlerenergy.com/en">https://powersystems.kohlerenergy.com/en</a>		
	Cummins (ONAN)			<a href="https://www.cummins.com/generators-power-systems">https://www.cummins.com/generators-power-systems</a>		
	MTU			<a href="http://www.mtuonsiteenergy.com">www.mtuonsiteenergy.com</a>		
Generator Engine	CAT	Site Specific		<a href="http://www.cat.com">www.cat.com</a>		
	John Deere			<a href="http://www.deere.com">www.deere.com</a>		
	Merc-Benz			<a href="http://www.mtuonsiteenergy.com">MTUonsiteenergy.com</a>		
	Detroit Deisel			<a href="https://www.powergenenterprises.com/detroit-diesel">https://www.powergenenterprises.com/detroit-diesel</a>		
	Cummins			<a href="http://www.power.cummins.com">www.power.cummins.com</a>		
Swing Check Valves	Dezurik	Site Specific	250 psi Per Specification	<a href="http://www.dezurik.com/products">http://www.dezurik.com/products</a>	ASTM A536, AWWA C508	Stainless Steel components, approved for Wastewater. Weighted enclosure.
	CLOW			<a href="https://www.clowvalve.com">https://www.clowvalve.com</a>		
	ABCO			<a href="https://www.abcovalves.com/">https://www.abcovalves.com/</a>		
Meter Vault Doors	Halliday	Varies	N/A	<a href="https://www.hallidayproducts.com/">https://www.hallidayproducts.com/</a>	H2O Loading, no exceptions	All hatch doors shall include slam lock and lockable assembly for owner's padlock. Safety Grates Required.
	Bilco			<a href="http://www.bilco.com/">http://www.bilco.com/</a>		
	US Foundry			<a href="http://www.usfoundry.com/">http://www.usfoundry.com/</a>		
Prefabricated Chemical Building	Smith - Carolina	Varies	N/A	<a href="https://www.smithmidland.com">https://www.smithmidland.com</a>		
	Easi-Set			<a href="https://www.easiset.com">https://www.easiset.com</a>		
Chemical Feed Pump	Milton Roy	Pump Station Specific	N/A	<a href="https://www.miltonroy.com/">https://www.miltonroy.com/</a>		unit shall be 50-250 gpd minimum size/ pump station specific. Chemical Tank Shall be Crosslink
	Xylem			<a href="http://www.xylem.com">www.xylem.com</a>		
	Gorman-Rupp			<a href="https://www.grpumps.com">https://www.grpumps.com</a>		
	Pulsafeeder			<a href="http://www.pulsafeeder.com/">http://www.pulsafeeder.com/</a>		
Gate Valves	Mueller	Series 2360	250-psi	<a href="http://www.muellercompany.com/">http://www.muellercompany.com/</a>		Left opening, no wheel operators allowed. Sealing gaskets shall be EPDM. Gear operators as follows:18"-2:1, 20" & 24"-3:1, ≥30"-4:1
	Clow	2639 - F6103		<a href="http://www.clowvalve.com/">http://www.clowvalve.com/</a>		
	American Flow Control	Series 2500		<a href="https://www.american-usa.com/products">https://www.american-usa.com/products</a>		
	Kennedy	C509		<a href="http://www.mh-valve.com/">http://www.mh-valve.com/</a>		
Electrical Distribution/ Breaker Panels	Siemens	Varies	N/A	<a href="https://www.siemens.com/">https://www.siemens.com/</a>		
	General Electric			<a href="https://www.ge.com">https://www.ge.com</a>		
	Square D			<a href="https://www.schneider-electric.us/en/work/products/">https://www.schneider-electric.us/en/work/products/</a>		
	Hammer			<a href="https://www.eaton.com/us/">https://www.eaton.com/us/</a>		



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<b>Chemical Tank</b>					Tank Shall be crosslink polyethylene
<b>Dismantling Joint</b>	Romac	DJ400/DJ405	175-psi	<a href="http://www.romac.com/">http://www.romac.com/</a>	AWWA C219, NSF 61, NSF 372, ASTM D2000 Install next to meter in meter vault installations. Dismantling Joints must be coated. Hymax DJ400 with Tierods, DJ405 with Romagrip. 304 SS hardware and tierods when applicable.
	Ford	FDJ-DxxR-R	150-psi	<a href="http://www.fordmeterbox.com/">http://www.fordmeterbox.com/</a>	
	Krausz USA	Hymax	175 psi	<a href="https://www.hymaxusa.com">https://www.hymaxusa.com</a>	
<b>Transition Coupling</b>	Krausz	Hymax 2	250-psi	<a href="http://www.krauszusa.com">http://www.krauszusa.com</a>	AWWA C219 NSF 61, NSF 372 For SS to DIP. Pipes must be properly restrained against axial movement. 304 SS hardware required.
	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>	
<b>Programmable Logic Controller (PLC)</b>	Rockwell Automation	Allen Bradley	N/A	<a href="https://www.rockwellautomation.com">https://www.rockwellautomation.com</a>	Any brand other than Allen Bradley PLC will need explicit approval from Water Resources.