

MONROE COUNTY WATER AUTHORITY - APPROVED MATERIALS LIST

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ITEM:	STANDARDS/REQUIREMENTS:	MANUFACTURER/MAKE/NAME/MODEL:	ENG SPEC	WH #
Pipe: DI, Push-on Joint, Asphaltic-coated, 4" - 54" (for main repairs)			02610	5924
	Pipe: ANSI/AWWA C151 Wall thickness: Class 52, min, unless otherwise specified Lining: ANSI/AWWA C104, cement Exterior Coating: ANSI/AWWA C151 (asphaltic) Joints: ANSI/AWWA C111, rubber gasket	American Pipe: Fastite Joint U.S. Pipe and Griffin Pipe: Tyton Joint McWane Group (Tyler, Union and Clow): Fastite or Tyton Joint		
Pipe: DI, Push-on Joint, Zinc-coated, 4" - 54"			02610	
	Pipe: ANSI/AWWA C151 Wall thickness: Class 52, min, unless otherwise specified Lining: ANSI/AWWA C104, cement Exterior Coating: Arc-sprayed zinc at a mass of 200 g/m ² of pipe area, ISO-8179-1 base coat, Shop-applied bituminous finish top coat Joints: ANSI/AWWA C111, rubber gasket Markings: Factory applied exterior marking indicating zinc-coated	American Pipe: Fastite Joint U.S. Pipe and Griffin Pipe: Tyton Joint McWane Group (Tyler, Union and Clow): Fastite or Tyton Joint		
Pipe: DI, Restrained Joint, Zinc-coated, 4" - 36"			02610	5924
	Pipe: Applicable requirements of ANSI/AWWA C151 Wall thickness: Class 52, min, unless otherwise specified Lining: ANSI/AWWA C104, cement Exterior Coating: Arc-sprayed zinc at a mass of 200 g/m ² of pipe area, ISO-8179-1 base coat, Shop-applied bituminous finish top coat Joints: Applicable requirements of ANSI/AWWA C111, rubber gasket Restraint Mechanism: Boltless, ductile iron wedges or segments Retainer Bead/Ring: Factory-applied	American Pipe: Flex-Ring U.S. Pipe and Griffin Pipe: TR-Flex, up to 36" or HP-Lok, 30" - 36" McWane Group (Tyler, Union and Clow): TR-Flex		
Pipe: DI, Restrained Joint, Zinc-coated, 42" - 54"			02610	
	Pipe: Applicable requirements of ANSI/AWWA C151 Wall thickness: Class 52, min, unless otherwise specified Lining: ANSI/AWWA C104, cement Exterior Coating: Arc-sprayed zinc at a mass of 200 g/m ² of pipe area, ISO-8179-1 base coat, Shop-applied bituminous finish top coat Joints: Applicable requirements of ANSI/AWWA C111, rubber gasket Restraint Mechanism: Boltless, ductile iron wedges or segments Retainer Bead/Ring: Factory-applied	American Pipe: Flex-Ring U.S. Pipe and Griffin Pipe: HP-Lok		
Zinc-Rich Primer for Zinc Coating Repair			02610	
	Color: Gray Zinc Content: 85% - 88% by weight in dried film Volume Solids: 63% - 69%	Sherwin Williams Company: Corothane® Galvapac 1k Zinc Primer Tnemec Company: Tneme-Zinc Series 90-98		
Push-on Joint Restraints for 4" - 12" ductile iron pipe			02610	
	Working Pressure: 250 psi Restraint Mechanism: Stainless steel locking segments, vulcanized into gasket, capable of being disassembled Gasket: ANSI/AWWA C111	U.S. Pipe: Field-Lok 350 Gasket American Pipe: Fast Grip Gasket		
Pipe: DI, Anchor, Cast Ring, 4"x13", 6"x12", 6"x13", 6"x18", 6"x24", 8"x12" and 12"x13"			02610	5918
	Fitting: ANSI/AWWA C110 or C153 Wall thickness: 4" - 0.52", 6" - 0.37", 8" - 0.39" and 12" - 0.75", minimum, unless otherwise specified Lining: ANSI/AWWA C104, cement Exterior Coating: ANSI/AWWA C110 or C153, asphaltic Joints: ANSI/AWWA C110 or C153 (ANSI/AWWA C111), rubber gasket, mechanical joint Glands: Solid gland cast integrally with pipe by swivel gland Ring: ANSI/AWWA C110 or C153 (ANSI/AWWA C111), ductile iron Bolts: Solid ring cast integrally with pipe Bolts: High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated	McWane Group (Tyler, Union and Clow): Swivel by Solid Adapter, Swivel by Swivel Adapter		

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Pipe: DI, Anchor, Welded Ring, 4" greater than 13" LL, 6" greater than 36" LL, 8" greater than 18" LL and 12" greater than 13" LL			02610	5918
Pipe:	ANSI/AWWA C151	C&B Piping Inc.: Anchor Coupling, Swivel by Swivel		
Wall thickness:	Class 54, min, unless otherwise specified			
Lining:	ANSI/AWWA C104, cement			
Exterior Coating:	ANSI/AWWA C110 or C153, asphaltic			
Joints:	ANSI/AWWA C110 or C153 (ANSI/AWWA C111), rubber gasket, mechanical joint			
Glands:	Swivel gland by swivel gland			
Ring:	ANSI/AWWA C110 or C153 (ANSI/AWWA C111), ductile iron			
Bolts:	1/2" x 1/2" solid ring of A36 steel on joint side of gland			
	Fusion welded with AWS 5.15 ENiFeMN-CI (NI ROD 44)			
	High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated			
Fittings: DI, Mechanical Joint, Asphaltic-coated, 4" - 48" (Bends, Reducers, Tees, Tapped Tees, Solid Sleeves, End Caps and Plugs)			02610	5901
Dimensions:	ANSI/AWWA C110 or C153	US Pipe		
Lining:	ANSI/AWWA C110 or C153 (ANSI/AWWA C104), cement	American Pipe		
Exterior Coating:	ANSI/AWWA C110 or C153, asphaltic	McWane Group (Tyler, Union and Clow)		
Joints:	ANSI/AWWA C110 or C153 (ANSI/AWWA C111), rubber gasket, mechanical joint	Star Pipe Products		
Body and Glands:	ANSI/AWWA C110 or C153 (ANSI/AWWA C111), ductile iron			
Bolts:	High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated			
Fittings: DI, Restrained Joint, Asphaltic-coated, 4" - 48" (Bends)			02610	
Dimensions:	Applicable requirements of ANSI/AWWA C110 or C153	American Pipe: Flex-Ring		
Lining:	ANSI/AWWA C110 or C153 (ANSI/AWWA C104), cement	U.S. Pipe and Griffin Pipe: TR-Flex, up to 36" or HP-Lok, 30" - 48"		
Exterior Coating:	ANSI/AWWA C110 or C153, asphaltic	McWane Group (Tyler, Union and Clow): TR-Flex, up to 36"		
Joints:	Applicable requirement of ANSI/AWWA C110 or C153, rubber gasket			
Body and Glands:	ANSI/AWWA C110 or C153 (ANSI/AWWA C111), ductile iron			
Restraint Mechanism:	Boltless, ductile iron wedges or segments			
Retainer Bead/Ring:	Factory-applied to restrained joint pipe			
Fittings: DI, Anchor Tee and Anchor Elbow			02655	5901
Dimensions:	ANSI/AWWA C110 or C153	McWane Group (Tyler, Union and Clow): MJ x MJ x Swivel Tee,		
Lining:	ANSI/AWWA C110 or C153 (ANSI/AWWA C104), cement	MJ x Swivel Tee, Swivel x Swivel Hydrant Ell,		
Exterior Coating:	ANSI/AWWA C110 or C153, asphaltic	90° Swivel x Swivel Bends		
Joints:	ANSI/AWWA C110 or C153 (ANSI/AWWA C111), rubber gasket, mechanical joint			
Body and Glands:	MJxMJxSwivel Tee, MJ x Swivel Elbow			
Bolts:	ANSI/AWWA C110 or C153 (ANSI/AWWA C111), ductile iron			
	High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated			
MJ Restraint Gland, 4"-12" for temporary restraint only for DI and CI pipe - permanent restraint must be provided by thrust blocks or other means			02610	5913
Dimensions:	ANSI/AWWA C111	EBBA Iron, Inc: Mega-Lug, Series 1100		
Working Pressure:	350 psi	Ford: Uni-flange™, Series 1400		
Lining:	Epoxy or electrostatically-applied, heat-cured polyester	McWane Group (Tyler, Union and Clow): MJ TUFgrip® TLD, Series 1000		
Exterior Coating:	Epoxy or electrostatically-applied, heat-cured polyester	Star Pipe Products: Stargrip®, Series 3000		
Gland:	Ductile iron, ASTM 536			
Bolts:	High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated T-bolts			
Restraint Mechanism:	Multiple ductile iron gripping wedges incorporated into the gland; wedges must be heat-treated to a minimum hardness of 370 BHN with twist-off activation nuts, capable of being disassembled			
Gaskets:	ANSI/AWWA C111			
MJ Adapters, MJ Bell to MJ Bell Connector (with restraint), 3" - 36"			02610	
Dimensions:	ANSI/AWWA C110 or C153	Infact Corporation: Foster Adaptor®		
Working Pressure:	3"-24": 350psi rating, 30" - 36": 250psi rating			
Lining:	ANSI/AWWA C116, Epoxy			
Exterior Coating:	ANSI/AWWA C116, Epoxy			
Ends:	Male x male with bolt-through center ring on body			
Bolts and Nuts:	High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated			
Gaskets:	ANSI/AWWA C111, SBR			

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ITEM:	STANDARDS/REQUIREMENTS:	MANUFACTURER/MAKE/NAME/MODEL:	ENG SPEC	WH #
Flanged Coupling Adapters				
	Material (Body & End Ring): Ductile iron (ASTM A536) or Steel (ANSI/AWWA C219) Coating: Fusion-bonded epoxy Flange: ANSI/AWWA C207, Class B, ASME B16.1 Class 125 or ASME B16.5 Class 150 Flange O-ring: Nitrile (Buna-N / NBR) Restraint Design: No anchor studs or pins Bolts: High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated Gasket: SBR or Nitrile (Buna-N / NBR)	Ford: FCA Smith-Blair: 912 or 913 JCM: 301 (4" - 12" only) Romac: FC400 (14" and larger)	02655	5935
Polyethylene Encasement				
	Film: Virgin material, ANSI/AWWA C105 Tube: Extruded linear low density polyethylene (LLDPE) film Thickness: 8 mils Color: Weather-resistant black containing not less than 2% carbon black Markings: ANSI/AWWA C105	Trumbull Industries, Inc.: Polyethylene Encasement Tubing for DIP Repor, Inc.	02610	
Polyethylene Encasement - V-Bio® Enhanced				
	Film: Virgin material, ANSI/AWWA C105 Tube: 3 layers of co-extruded linear low density polyethylene (LLDPE) film Thickness: 8 mils Color: White Markings: ANSI/AWWA C105 V-Bio® Enhancement: Inside surface infused with an anti-microbial additive and a volatile galvanic corrosion inhibitor	American Pipe: V-Bio® Enhanced Polywrap US Pipe: V-Bio® Enhanced Polywrap McWane: V-Bio® Enhanced polyethylene encasement and corrosion control AA Thread Seal Tape, Inc.: VB3® Enhanced Polywrap Pipe Sleeves	02610	
Polyethylene Encasement Tape				
	Type: Adhesive tape Width: 2" Backing: Plastic	Polyken: Polyken #900 3M™: Scotchwrap™ # 50	02610	
Copper Service Tubing: 3/4", 1", 1-1/2" and 2"				
	Material: ASTM B88, Type K (seamless, virgin copper) Dimensions: ANSI/AWWA C800, Appendix A.2	Cambridge-Lee Industries LLC Wieland Copper Products, LLC	02630	5902
Polyethylene Service Tubing: 1", 1-1/2" and 2"				
	Material: Virgin PE meeting AWWA C901, PE4710, SDR-9, Oxidative Resistance Categorization CC2 or CC3, and color and UV stabilizer code C or code E in accordance with ASTM D3350 and AWWA C901 Dimensions: ANSI/AWWA C901, Table 5 outside diameter (CTS PE tubing OD - controlled diameter) Working Pressure: 250 psi Color: Blue or Black with Blue Stripe Markings: ANSI/AWWA C901	Endot Industries: Endopure JM Eagle Charter Plastics WL Plastics	02630	5903
Brass (bronze) Tubing: 1" - 2" for manual air releases and blow-offs				
	Material: Brass pipe per ASTM B43, 125 pounds, IPS threads Fittings: ASTM B62		02655	5931 5932
Tracing Wire for plastic services, PVC or HDPE water main				
	Material: 12 AWG, copper-clad steel wire Core Material: AISI 1055 steel Conductivity: 21% minimum Break Load: 1,150 pounds minimum Exterior Coating: 45 mil high-density HMWPE Color: Blue	Kris-Tech Wire: Copper-clad steel tracer wire, EHS (extra high strength) for 600V - must request high-density, high molecular weight polyethylene coating Pro-Line Safety Products: PROTRACE HDD-CCS PE45 Copperhead Industries: Soloshot Part #1245 EHS	02630	

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Corporation Stops, 3/4" and 1" non-insulated, for plastic services, air releases and blow-offs (& disinfection/BO/sampling taps if not used for a service) - 3/4" corporations are not acceptable for new services			02630	5919
	<p>Body Material: No-lead brass, copper alloy CDA/UNS C89833, C89836 or C89520, in accordance with ANSI/AWWA C800 and chemical and mechanical requirements of ASTM B584</p> <p>Other Material/Dimensions: ANSI/AWWA C800</p> <p>Valve: Ball with full-port opening, 1/4 turn (90°) to full close or open</p> <p>Working Pressure: 300 psi</p> <p>Inlet: AWWA CC threads</p> <p>Outlet: "Quick-style" grip compression with one-piece combined gasket/metal gripper ring, FIP, or MIP as required by use</p>	<p>COMPRESSION OUTLET: AY McDonald: 74701BQ Ford: FB1000-3-Q-NL, FB1000-4-Q-NL Mueller: B-25008N</p> <p>FIP or MIP OUTLET: AY McDonald: 73128B, 73148B Ford: FB400-3-NL, FB400-4-NL, FB1600-3-NL, FB1600-4-NL Mueller: B-2996N, B-20045N</p>		
Corporation Stops, 1-1/2", 1-1/2" x 2" and 2" non-insulated, for plastic services, air releases and blow-offs (& disinfection/BO/sampling taps if not used for a service)			02630	5919
	<p>Body Material: No-lead brass, copper alloy CDA/UNS C89833, C89836 or C89520, in accordance with ANSI/AWWA C800 and chemical and mechanical requirements of ASTM B584</p> <p>Other Material/Dimensions: ANSI/AWWA C800</p> <p>Valve: Ball with full-port opening, 1/4 turn (90°) to full close or open</p> <p>Working Pressure: 300 psi</p> <p>Inlet: AWWA CC threads</p> <p>Outlet: "Quick-style" grip compression with one-piece combined gasket/metal gripper ring, FIP, or MIP as required by use</p>	<p>COMPRESSION OUTLET: AY McDonald: 74701BQ Ford: FB1000-6-Q-NL, FB-1000-7-Q-NL Mueller: B-25008N</p> <p>FIP or MIP OUTLET: AY McDonald: 73128B, 73148B, 73121B Ford: FB400-6-NL, FB400-7-NL, FB400-67-NL, FB1600-6-NL, FB1600-67-NL & FB1600-7-NL Mueller: B-2996N, B-20045N</p>		
Corporation Stops, 3/4", 1", 1-1/2", 1-1/2" x 2" and 2" insulated for copper services on DI, CI or steel pipe (disinfection/BO/Sampling taps if used for a service)			02630	
	<p>Body Material: No-lead brass, copper alloy CDA/UNS C89833, C89836 or C89520, in accordance with ANSI/AWWA C800 with chemical and mechanical requirements of ASTM B584</p> <p>Other Material/Dimensions: ANSI/AWWA C800</p> <p>Valve: Ball with full-port opening, 1/4 turn (90°) to full close or open</p> <p>Working Pressure: 300 psi</p> <p>Inlet: AWWA CC threads</p> <p>Outlet: "Quick-style" grip compression with one-piece combined gasket/metal gripper ring, FIP, or MIP as required by use</p>	<p>COMPRESSION OUTLET (3/4" and 1"): AY McDonald: 74701BDBQ Mueller: N-35008N</p> <p>FIP or MIP OUTLET (1-1/2", 1-1/2" x 2" and 2") Mueller: N-30045N</p>		
Curb Stops, 3/4", 1", 1-1/2" and 2", and self-draining curb stops for blow-offs and manual air releases			02630	5928
	<p>Body Material: No-lead brass, copper alloy CDA/UNS C89833, C89836 or C89520, in accordance with ANSI/AWWA C800 with chemical and mechanical requirements of ASTM B584</p> <p>Other Material/Dimensions: ANSI/AWWA C800</p> <p>Valve: Ball with full-port opening, 1/4 turn (90°) to full close or open</p> <p>Working Pressure: 300 psi</p> <p>Inlet: "Quick-style" grip compression with one-piece combined gasket/metal gripper ring, FIP, or MIP as required by use</p> <p>Outlet: "Quick-style" grip compression with one-piece combined gasket/metal gripper ring, pack compression (for use with galvanized pipe only), FIP or MIP, as required by use</p>	<p>COMPRESSION INLET /OUTLET: AY McDonald: 76100Q Ford: B44-333-Q-NL, B44-444-Q-NL, B44-666-Q-NL, B44-777-Q-NL Mueller: B-25209N</p> <p>COMPRESSION INLET/OUTLET (Self draining for blow-offs & air releases): AY McDonald: 76000Q Ford: BC44-444SW-Q-NL, B44-666SW-Q-NL, B44-777SW-Q-NL</p> <p>COMPRESSION INLET by FIP or MIP OUTLET and FIP or MIP INLET by COMPRESSION OUTLET: AY McDonald: 76102Q Ford: B41-333-Q-NL, B41-444-Q-NL, B84-333-Q-NL, B84-444-Q-NL, B41-666-Q-NL, B41-777-Q-NL, B84-666-Q-NL, B84-777-Q-NL Mueller: B-25172N, B25122N</p> <p>FIP or MIP INLET/OUTLET: AY McDonald: 76101, 76107, 76107P Ford: B11-333-NL, B11-444-NL, B11-666-NL, B11-777-NL B81-333-NL, B81-444-NL, B81-666-NL, B81-777-NL B88-333-NL, B88-444-NL, B88-666-NL, B88-777-NL Mueller: B-20283N, B-20285N, B-20276N</p> <p>COMPRESSION INLET by PACK OUTLET: AY McDonald: 76100Q-55</p>		

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Curb Boxes and Curb Rods, 1-1/4"				
	<p>Curb box: Arch pattern extension type with a 5-1/2 foot bury, 66" max extended length and compressed minimum length of 54"</p> <p>Curb box rod: Stainless steel, minimum 1/2" outside diameter by 42" length, "S" type, bottom clamp / yoke of stainless steel, welded on rod and drilled for cotter pin. Brass or stainless steel cotter pin.</p> <p>Curb box lid: Cast iron tapped with 1-1/4" with brass pentagon nut plug. "WATER" cast in lid.</p> <p>Curb box bottom: Arch must fit 3/4" and 1" ball valve curb stop with 1-1/4" upper section</p>	<p>Curb Box: Ford: EA2-55-50 with PL lid and stationary rod AY McDonald: 5604, with 5614L lid and 5660SS rod Mueller: H-10306-66 with 89369 Lid</p> <p>Curb Rod : AY McDonald Ford Mueller</p>	02630	5909
Curb Box - enlarged base				
	<p>Base: Adaptable with lower section of 1-1/4" arch pattern curb boxes and sized to fit over 1-1/2" and 2" ball curb stops</p>	<p>Bibby-Ste. Croix: V313 (non-USA produced) Ford: CB-7 AY McDonald: 5700E Mueller: H-10310 Bingham & Taylor: 4980 No. 14-E</p>	02630	5910
Curb Rod, 1-1/4" for replacement or repair				
	<p>Curb box repair rod: Stainless steel, minimum 1/2" outside diameter by 24" length, "S" type, bottom clamp / yoke of stainless steel, welded on rod and drilled for cotter pin. Brass or stainless steel cotter pin.</p>	<p>Curb Rod : AY McDonald Ford Mueller</p>		5909
Curb Box Lid for replacement or repair				
	<p>Curb box lid: Cast iron tapped with 1-1/4" with brass pentagon nut plug. "WATER" cast in lid.</p>	<p>AY McDonald 1" Upper Section: 5607L 1-1/4" Upper Section: 5614L 2" Upper Section: 5624L Ford 1" Upper Section: PS-LID 1-1/4" Upper Section: PL-LID Mueller 1" Upper Section: 89376 1-1/4" Upper Section: 89369 2" Upper Section: 89981</p>		5923
Curb Box - Buffalo style top section for replacement or repair				
	<p>Curb box top section: 2-1/2" x 24" lengths Curb box cover: Attached to top section with standard AWWA Pentagon bolt</p>	<p>Bibby-Ste. Croix: S171 (non-USA produced) Bingham & Taylor: 4901-94E Tyler: 6500</p>		5911
Curb Box - Buffalo style lid for replacement or repair				
	<p>Curb box lid: "Water" cast in lid</p>	<p>Bibby-Ste. Croix: S-282 (non-USA produced) Bibby-Ste. Croix: S-285 (old style) (non-USA produced) Bingham & Taylor: 4901 NRS Bingham & Taylor: 4901 OSR (old style) Mueller: H-10373 Mueller: H-10374 (old style) Tyler: 6500 (new style) Tyler: 6500 (old style) AY McDonald: 5700RL (new) AY McDonald: 5700RL (old)</p>		5911

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Brass Service Coupling, for copper and plastic tubing - quick style compression			02630	5931
	Body material: No-lead brass, copper alloy CDA/UNS C89833, C89836 or C89520, in accordance with ANSI/AWWA C800 and chemical and mechanical requirements of ASTM B584	AY McDonald: 74758Q		5932
	Other Material/Dimensions: ANSI/AWWA C800	Ford: C44-33-Q-NL, C44-34-Q-NL, C44-44-Q-NL, C44-46-Q-NL C44-66-Q-NL, C44-77-Q-NL		
	Inlet: "Quick-style" grip compression with one-piece combined gasket/metal gripper ring,	Mueller: H-15403N		
	Outlet: "Quick-style" grip compression with one-piece combined gasket/metal gripper ring,			
Brass Service Coupling, for copper and plastic tubing - quick style compression connecting to existing galvanized and iron pipe - pack style compression			02630	5931
	Body material: No-lead brass, copper alloy CDA/UNS C89833, C89836 or C89520, in accordance with ANSI/AWWA C800 and chemical and mechanical requirements of ASTM B584	AY McDonald: 74758Q-55		5932
	Other Material/Dimensions: ANSI/AWWA C800	Ford: C45-33-Q-NL, C45-43-Q-NL, C45-44-Q-NL, C45-66-Q-NL, C45-77-Q-NL		
	Inlet: "Quick-style" grip compression with one-piece combined gasket/metal gripper ring,			
	Outlet: "Pack-style" compression			
Brass Service Coupling, for repair of iron pipe connecting to iron pipe - pack style compression			02630	5931
	Body material: No-lead brass, copper alloy CDA/UNS C89833, C89836 or C89520, in accordance with ANSI/AWWA C800 and chemical and mechanical requirements of ASTM B584	AY McDonald: 74758-55		5932
	Other Material/Dimensions: ANSI/AWWA C800	Ford: C55-33-NL, C55-44-NL, C55-66-NL, or C55-77-NL		
	Inlet: "Pack-style" compression			
	Outlet: "Pack-style" compression			
Brass Service Coupling, for repair of iron pipe - pack style compression connecting to threaded iron pipe - male threaded iron pipe				
	Body material: No-lead brass, copper alloy CDA/UNS C89833, C89836 or C89520, in accordance with ANSI/AWWA C800 and the chemical and mechanical requirements of ASTM B584	AY McDonald: 74753-55		
	Other Material/Dimensions: ANSI/AWWA C800	Ford: C85-33-NL, C85-44-NL, C85-66-NL, or C85-77-NL		
	Inlet: "Pack-style" compression			
	Outlet: Male Iron Pipe Threads			
Brass Service Coupling, for male or female iron pipe - threaded connecting to copper or plastic tubing - quick style compression, or with brass plug for permanent manual air release & blow-off			02630	5931
	Body material: No-lead brass, copper alloy CDA/UNS C89833, C89836 or C89520, in accordance with ANSI/AWWA C800 and chemical and mechanical requirements of ASTM B584	AY McDonald: 74754Q, 74753Q	02655	5932
	Other material/Dimensions: ANSI/AWWA C800	Ford: C14-33-Q-NL, C14-43-Q-NL, C14-44-Q-NL, C14-66-Q-NL, C14-77-Q-NL, C84-33-Q-NL, C84-43-Q-NL, C84-44-Q-NL, C84-66-Q-NL, C84-77-Q-NL		
	Inlet: Iron Pipe Thread or "Quick-style" grip compression with one-piece combined gasket/metal gripper ring,	Mueller: H-15451N		
	Outlet: Iron Pipe Thread or "Quick-style" grip compression with one-piece combined gasket/metal gripper ring,	Lee Brass: Lee Free®		
		Air releases and Blow-offs: AY McDonald: 74754Q with MIP plug Ford: C14-44-Q-NL with CSP-4-I-NL, or C14-77-Q-NL with CSP-7-I-NL Mueller: H-15451N with H-10035N brass plug		
Steel Service Couplings, for 3/4" - 2" galvanized or brass pipe, and permanent manual air releases & blow-offs			02630	5926
	Body material: Iron or cast steel,	GE Dresser Style 90		
	Other material/Dimensions: 5" Middle ring			
	Coating: Epoxy			
Brass Bushings for 3/4" - 2" services			02630	5931
	Body material: No-lead brass, copper alloy CDA/UNS C89833, C89836 or C89520, in accordance with ANSI/AWWA C800 and chemical and mechanical requirements of ASTM B584	Ford: C18-34-NL, C18-36-NL, C18-37-NL, C18-43-NL, C18-46-NL, C18-47-NL, C18-67-NL, or C18-76-NL		
	Other material/ Dimensions: ANSI/AWWA C800	Mueller: 47162N, 47163N, 47164N, 47165N, 47168N, 47169N and 47172N		
	Inlet/Outlet: Iron Pipe Thread	Lee Brass: Lee Free®		
Brass Plug for Corporation Taps			02680	
	Body material: No-lead brass, copper alloy CDA/UNS C89833, C89836 or C89520, in accordance with ANSI/AWWA C800 and chemical and mechanical requirements of ASTM B584	Ford: CSP-3-A-NL, CSP-4-A-NL, CSP-6-A-NL, CSP-7-A-NL		
	Other material/Dimensions: ANSI/AWWA C800	Mueller: H-10033N		
	Thread: CC threads	AY McDonald: 73206-NL		

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ITEM:	STANDARDS/REQUIREMENTS:	MANUFACTURER/MAKE/NAME/MODEL:	ENG SPEC	WH #
Service Saddles for DI, CI and AC pipe		Saddles required for 1-1/2" and 2" taps to DI and CI pipe and for all taps to AC pipe	02630	5916
Body material:	Copper alloy CDA/UNS C83600 (85-5-5-5) in accordance with ANSI/AWWA C800 and chemical and mechanical requirements of ASTM B584	Ford: 202B		
Other Material/Dimensions:	ANSI/AWWA C800	Mueller: BR2B Series		
Straps:	Double straps of flattened silicon bronze	AY McDonald: 3825 for 2" - 12"		
Nuts:	85-5-5-5 brass alloy as per ASTM B62 and B584 and ANSI/AWWA C800, with integral washers	AY McDonald: 3825A or B for 14" - 24"		
Outlet:	AWWA CC threads (female)			
Gasket:	ASTM-D2000, Nitrile (Buna-N / NBR) rubber or EPDM o-ring			
Service Saddles for 6" -12" PVC pipe		Saddles required for all taps to PVC pipe	02630	5939
Body material:	Copper alloy CDA/UNS C83600 (85-5-5-5) in accordance with ANSI/AWWA C800 and chemical and mechanical requirements of ASTM B584	Ford: S90 Design A (bolted or hinged)		
Other Material/Dimensions:	ANSI/AWWA C800	Cambridge Brass Inc: Series 800 (non-USA produced)		
Strap:	Single, cast bronze (CDA/UNS C83600) or cast brass (CDA/UNS C84400)	Mueller: S-13000 or H-13000 (bolted or hinged)		
Studs, Nuts & Washers:	Silicon bronze, bronze (CDA/UNS C65100) or brass (CDA/UNS C84400)	AY McDonald: 3805 (bolted) or 3895 (hinged)		
Outlet:	AWWA CC threads (1" and smaller), FIPT 1.5"			
Gasket:	ASTM-D2000, Nitrile (Buna-N / NBR) rubber or EPDM o-ring			
Service Saddles for 14" -24" PVC pipe		Saddles required for all taps to PVC pipe	02630	
Body material:	Copper alloy CDA/UNS C83600 (85-5-5-5) in accordance with ANSI/AWWA C800 and chemical and mechanical requirements of ASTM B584	Ford: 202BSD		
Other Material/Dimensions:	ANSI/AWWA C800	Cambridge Brass Inc: Series 812 (non-USA produced)		
Strap:	Double, Type 304 Stainless Steel	Mueller: BR 2 S		
Studs, Nuts & Washers:	Type 304 Stainless Steel	AY McDonald: 3855 (AWWA CC) or 3856 (FIPT)		
Outlet:	AWWA CC threads (1" and smaller), FIPT 1.5"			
Gasket:	ASTM-D2000, Nitrile (Buna-N / NBR) rubber or EPDM o-ring			
Service Saddles for Concrete pipe			02630	5917
Body material:	Ductile Iron per ASTM A536	Smith Blair: 362		
Strap:	Steel per ASTM A36	JCM: 425		
Bolts:	High-strength, low alloy steel per ANSI/AWWA C111	Forterra Pipe		
Outlet:	AWWA CC thread			
Gasket:	Nitrile (Buna-N / NBR)			
Service Saddles for Steel pipe				
Body material:	ASTM A105	Weldolet		
Other Material/Dimensions:	ASME B16.9	Threadolet		
Valves, Resilient-seated Gate		Valves 16" and larger must be horizontal with bevel gearing unless otherwise specified	02660	5937
Valve:	ANSI/AWWA C509 for 4" - 12"; ANSI/AWWA C515 for 14" - 30"	Clow: 4"-12" MJ x MJ Model 2639		
Working Pressure:	250 psi	14"-30" MJ x MJ Model 2638		
Direction to open:	Counterclockwise (left), except in the Town of Henrietta & 12" and smaller in the Town of Webster	4"-12" MJ x tapping flange Model 2639		
Operator/stem:	Buried service, non-rising stem, 2" square operating nut, double o-ring stem seal	14"-30" MJ x tapping flange Model 2638		
Joints:	ANSI/AWWA C111: MJ x MJ; Tapping valves MJ x tapping flange	Mueller: 4"-12" MJ x MJ Model A-2362-20		
Body/bonnet bolts:	304 stainless steel	14"-30" MJ x MJ Model A-2361-20		
MJ Bolts:	High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated	4"-12" MJ x tapping flange Model T-2362-16		
Tapping flange bolts:	304 stainless steel	14"-30" MJ x tapping flange Model T-2361-16		
Interior/Exterior Coating:	Fusion-bonded epoxy	US Pipe: 4" - 12" MJ x MJ Model A-USP2-20		
		14"-30" MJ x MJ Model A-USP1-20		
		4"-12" MJ x tapping flange Model T-USP2-16		
		14"-30" MJ x tapping flange Model T-USP1-16		
		Kennedy: 4" - 12" MJ x MJ Model 8571SS		
		14"-20" MJ x MJ Model 7571SS		
		4"-12" MJ x tapping flange Model 8950SS		
		14"-20" MJ x tapping flange Model 7950SS		
		American: 14"-24" MJ x MJ Series 2500		

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Valves, Butterfly		Butterfly valves are only acceptable when explicitly specified	02660	5907
Valve:	ANSI/AWWA C504, Class 150A, 150B, 250A or 250B as specified	Henry Pratt Co: HP250™		5908
Working Pressure:	150 psi or 250 psi as specified	Val-Matic: VM-2000		
Direction to open:	Counterclockwise (left)	Mueller: Lineseal XP, Lineseal XP II		
Operator:	Buried service, non-rising stem, 2" square operating nut			
Shaft:	ASTM A276 Type 304 or ASTM A564 Type 630 stainless steel			
Joints:	ANSI/AWWA C111 for MJ x MJ			
	ANSI/AWWA C207, ANSI B16.1 Class 125 or Class 250 for flanged x flanged, as specified			
MJ Bolts:	High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated			
Flange bolts:	304 Stainless Steel			
Interior/Exterior Coating:	Fusion-bonded epoxy			
Valves, Double - Disc Gate with bypass (for 20" and larger when explicitly specified)			02660	5906
Valve:	ANSI/AWWA C500	Mueller: A-2380		
Working Pressure:	250 psi	Clow		
Direction to open:	Counterclockwise (left)	Kennedy		
Orientation:	Horizontal with solid-copper alloy or 300-series stainless steel rollers, scrapers and tracks			
Operator/stem:	Buried service, non-rising stem, 2" square operating nut, double o-ring stem seal			
Bypass:	ANSI/AWWA C500, C509 or C515			
Joints:	ANSI/AWWA C111: MJ x MJ; Tapping valves MJ x tapping flange			
Body/bonnet bolts:	304 stainless steel			
MJ Bolts:	High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated			
Tapping flange bolts:	304 Stainless Steel			
Interior/Exterior Coating:	Fusion-bonded epoxy			
Automatic Air Release Valve, small orifice			02655	
Valve:	ANSI/AWWA C512	Val-Matic		
Working Pressure:	150 psi, unless noted	GA Industries: DUOJET®		
Body/Cover material:	GI / CI (ASTM A126, class B) or DI (ASTM A536, Grade 65-45-12)			
Float, Trim & Lever:	Stainless steel			
Valve seats:	Elastomeric materials			
Body inlet/Cover outlet:	Threaded			
Valve/inlet & Orifice Size:	As specified by MCWA			
Test Pressure:	Shell - 1.5 times working pressure, Float - 1,000 psi minimum, Seat - zero leakage at 1.5 times working pressure			
Interior/Exterior Coating:	Epoxy			

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Valve Box for Gate, Tapping and Butterfly Valves				
	Boxes: 5-1/4" diameter, screw type, lock into base sections Box Coating: Petroleum asphaltic material Top: "WATER" cast into them Base: No base used on butterfly valves All sections shall be interchangeable with old Buffalo Foundry boxes, style: #5001	Bibby-Ste-Croix Complete (5' Bury) (non-USA produced): Valve Box Complete: V616#A, V617#B, V618#C, V619#CC Bibby-Ste-Croix Parts (non-USA produced): Base: #6 7341 Mid Section: 7345 #59 or V817 #61 Top Section: V733, V734 or V735 Risers: V829, V831, V832 or V833 Covers: V878 Bingham & Taylor Complete: Valve Box Complete: Series Fig 4906 (AA-E) Bingham & Taylor Parts: Base: #6 round base Mid Section: Figure 4905-X (18, 20, 21 or 22) Top Section: Series Figure 4906 Risers: Series Figure 6016-B Covers: Figure 4905-L1.5 Bingham & Taylor Replacement Parts: Top Section: #54, #55, #56 Screw Type Middle: #62 Screw Type, #64 - #61 Screw Ex EJ, USA Complete: Valve Box Complete: 85605061, 85603343, 85603950, 85604555 EJ, USA Parts: Base: #6 base, 85605006 Mid Section: 36B, 85606036 Top Section: 16T, 85507016 Cover: 06800001 (Water) Tyler Union Complete: Valve Box Complete: Cast Iron 3 Piece, 6860 Screw Type (AA-G) (Note: Base ordered separately) Tyler Union Parts: Base: #6 base, 145660 Mid Section: #58 screw-type, 145141 or #59 screw-type, 145158 Top Section: 6860 AA-G Risers: 5-1/4 Slip-In: 533641, 533689, 533696, 533702 Cover: 145325, WATER	02660	5912
Valve Operating Nut Extension Stem				
		As provided by MCWA	02660	
Tapping Sleeves, DI or CI, for 4" - 24" DI or CI pipe				
	Tapping Sleeve: ANSI/AWWA C110, DI or CI Working Pressure: 200 psi minimum Tapping Flange: ASME B16.1, Class 125/Class B Joints: ANSI/AWWA C111, MJ x tapping flange Bolts: High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated Gaskets: SBR, EPDM, or Nitrile (Buna-N / NBR) Exterior Coating: ANSI/AWWA C153, Asphaltic	US Pipe / Mueller: H-615, H-619 American: 2800-C Series McWane Group (Tyler, Union and Clow): 25U-Compact	02650	5915
Tapping Sleeves, Stainless Steel, for 4" - 24" DI, CI or AC pipe				
	Tapping Sleeve: ANSI/AWWA C223, 18-8 Type 304 or 316 stainless steel Working Pressure: 200 psi minimum Tapping Flange: CF8 cast stainless steel, or, 304 or 316 stainless steel; ANSI B16.1 Class 125/Class B Bolts: Type 304 stainless steel Gaskets: SBR or Nitrile (Buna-N / NBR)	Powerseal: 3490AS Ford: FTSS Cascade: CST-EX (Not approved on mains to be pressure tested over 150 psi) US Pipe / Mueller: H-304SS Total Piping Solutions: Triple-Tap® JCM: 432SS (Not approved on AC mains and mains to be pressure tested over 150 psi)	02650	5915

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ITEM:	STANDARDS/REQUIREMENTS:	MANUFACTURER/MAKE/NAME/MODEL:	ENG SPEC	WH #
Tapping Sleeves, Steel , for 6" - 48" Steel pipe, weld-on			02650	5941
	Tapping Sleeve: ANSI/AWWA C200, Steel per ASTM A36 or ASTM A283 Grade C Working Pressure: 150 psi Tapping Flange: ANSI/AWWA C207, Class D or ANSI B16.5 Class 125/Class B Exterior Coating: Shop coat primer or epoxy coated	Romac: FTS445 Smith Blair: 626 JCM: 417		
Hydrants			02655	5905
	Dimensions /design: ANSI/AWWA C502, Dry barrel, 5-1/2 foot bury standard, 6-1/2 foot bury blow-off, 4 foot, 5 foot and 6 foot bury standard depth as specified Opens: Counterclockwise (left) Valve Opening: 5-1/4 inch Operating Nuts: Pentagon shaped, 1-1/2 inch point to flat with weather cap or shield Packing: "O" ring Seat Rings: Bronze to bronze Inlet: 6" MJ with gasket and connecting gland Nozzles: (1) 4-1/2" inside diameter, male, 4 threads per inch (2) 2-1/2" inside diameter, male, 7-1/2 threads per inch Mechanically attached with National Standard Threads Nozzle caps: Threaded female without chains Orientation: 2 smaller nozzles 180° apart with large nozzle located equidistant between Bolts: High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated Paint: OSHA safety yellow, polyurethane modified alkyd (conforming to Federal Lead Standards) Paint coats: 1 primer coat, 2 finish coats	Mueller: Super Centurion 250™ Clow Eddy: F-2640 Kennedy Guardian: #K-81-D US Pipe: M-94		5950
Hydrant Paint for touch up and repair				5950
	Paint: Alkyd Enamel (conforming to Federal Lead Standards) Paint Color: Safety yellow Paint gallon: 7.6 - 8.9 lbs per gallon Paint coverage: 265 to 440 square feet per gallon Paint Flash Point: 104° F Paint solids: by weight 56.1 - 62.8%, by volume 48.3 - 48.5%	Rust-oleum® - C740 System DTM Alkyd Enamel 400 VOC		
Couplings, Straight for DI and CI pipe			02655	5904
	Materials / design: ANSI / AWWA C219 Working pressure: 150 psi Sleeves: DI per ASTM A536, Steel per ASTM A36 or Carbon steel per ASTM A283C Sleeve length: Center sleeves for 16" - 30" shall have a 10" min. length and 36" - 48" shall have a 16" min. length Follower Flanges: DI per ASTM A536, Steel per ASTM A36 or Carbon steel C1020 per ASTM A576 Bolts / nuts: ANSI / AWWA C111, High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated Gaskets: ANSI / AWWA C111, SBR or Nitrile (Buna-N / NBR) Coating: Fusion-bonded epoxy	Smith Blair: #441, 4" - 12", Limited range only Smith Blair: #411, 14" - 60" JCM: #210, 2" - 12" JCM: #201, 14" and greater Ford: #FC1, 2" - 12"		
Couplings, Transition for DI and CI pipe			02655	5929
	Materials / design: ANSI / AWWA C219 Working pressure: 150 psi Sleeves: DI per ASTM A536 or Steel per ASTM A36, ASTM A53 or ASTM A513 Sleeve length: Center sleeves for 16" - 30" shall have a 10" min. length and 36" - 48" shall have a 16" min. length Follower Flanges: DI per ASTM A536 or Steel per ASTM A36 or AISI 1020 Bolts / nuts: ANSI / AWWA C111, High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated Gaskets: ANSI / AWWA C111, SBR or Nitrile (Buna-N / NBR) Coating: Fusion-bonded epoxy	Smith Blair: #441, Omni, 4"- 12" Smith Blair: #415, 16" - 30" Smith Blair: #413, 14" and above JCM: #212, 4" - 12" JCM: #203, 14" and above Ford: #FC2A, 4" through 12" Ford: #FC5, 14" and above PowerSeal: #3562R, 14" and above		

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Couplings, End or Line Cap for DI and CI pipe			02680	5915
	Materials / design: ANSI / AWWA C219	Smith Blair: #481, blind end with plug		5927
	Working pressure: 150 psi	Smith Blair: #482 with plug		5999
	Sleeves: ASTM A536 DI or ASTM A36 or ASTM A53 Steel	JCM: #214 with plug		
	Sleeve length: Sleeves for 16" - 30" shall have a 10" min. length and 36" - 48" shall have a 16" min. length	Ford: FEC, 4" - 12"		
	Follower Flanges: DI per ASTM A536 or Steel per ASTM A36 or AISI 1020	Ford: FEC with blind end or with plug		
	Bolts / nuts: ANSI / AWWA C111, High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated	Ford: FC4 Steel end cap coupling with plug, 14" - 24"		
	Gaskets: ANSI / AWWA C111, SBR or Nitrile (Buna-N / NBR)	Romac: #EC-501 with blind end		
	Coating: Fusion-bonded epoxy	Romac: #EC-501		
		PowerSeal: #3551		
		PowerSeal: #3551 with blind plug		
		Hymax®: Hymax Grip® End Cap, 4" - 12" (non-USA produced)		
Couplings, Two-bolt, Multi-Range for DI and CI pipe, 4" - 12"			02655	5904
	Materials / design: ANSI / AWWA C219	Hymax®: Hymax® 2 Coupling (non-USA produced)		
	Working pressure: 260 psi	Smith Blair: #421 Top Bolt® Wide Range Coupling		
	Sleeves: DI per ASTM A536 or Carbon steel per ASTM A36, ASTM A285A or ASTM A283C			
	Follower Flanges: DI per ASTM A536 or Carbon steel per ASTM A36, ASTM A285A or ASTM A283C			
	Bolts / nuts: Type 304 Stainless Steel			
	Gaskets: EPDM or Nitrile (Buna-N / NBR)			
	Coating: Fusion-bonded epoxy			
Steel Casing Pipe for boring			02670	
	Wall thickness: 3/8"	Welded steel pipe		
	Coating: Carboline Bitumastic 300M or Tnemec Series 46-465 H.H. Themecol			
Casing Pipe Spacers			02670	
	Material: 14 gauge carbon steel, stainless steel or HDPE	Cascade: CCS		
	Coating / Liner: Thermoplastic powder coating (for carbon steel), PVC or EPDM Liner (for stainless steel)	PSI: A86-2		
	No liners are required for HDPE casing spacers	Advance Products and Systems, LLC: SIM		
	Runners: UHMW polymer, glass reinforced plastic or HDPE equal length, equally spaced around circumference			
Protective Wax Tape coating system for steel pipe			02655	5953
	Material: ANSI/AWWA C217	Chase Construction Products: Tapecoat Enviroprime, Tapecoat Envirotape		
		Denso: Denso paste, Densyl mastic or Denso profiling mastic, Densyl tape		
		The Trenton Corporation: Wax tape primer, Fill-Pro PM-GP, #1 wax tape		
Meter Tile, 18" HDPE or PVC			02630	5998
	Material: PVC SDR-35 or Smooth interior, corrugated N-12 HDPE	JM Eagle		
		IPEX		
		Vinyltech		
		North American Pipe Corporation		
		ADS		
Meter Tile Box Cover			02630	5934
	Cover Dimensions: 18" for new installation, 15" to replace old 15" covers	Ford: W32-t Wabash double lid (new install), C32-T Type C single lid (new install), C31-T Type C single lid (replacement), C3L-T Type C cover (repair)		
	Cover: Drilled hole in lid for electronic meter reading, Pentagon bolt; locking	Mueller: H-10817-09 single lid (new install), H-10814-09 double lid (new install)		
		AY McDonald: 74M32WT (new install), 74M31WT (replacement)		
Angle Meter Valve, ball style meter stop			02630	
	Inlet/Outlet: Meter swivel nut by copper compression	Mueller: H-14269N (Angle meter dual check valve), B-24258N (300™ Ball angle meter valve)		
		Ford: BA43-342W-Q, BA43-444W-Q		
		AY McDonald: 74602BG (1 x 3/4 x 5/8), 74602BG (1)		

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Repair Clamps - Full Circle for ductile iron, cast iron and steel pipe				
	Band Material: Type 304 (18-8) Stainless Steel Lug Material: Type 304 (18-8) Stainless Steel Spanner/Bridge Plate: Type 304 (18-8) Stainless Steel Bolts: Type 304 (18-8) Stainless Steel Gasket: SBR, Nitrile (Buna-N / NBR)	TPS: Quick Cam JCM: #131, #132 Extended Range PowerSeal: 3121AS, 3122AS Ford: FS1, FS2 (Two Sections) Smith Blair: 261, 262 (Two Sections) Cascade: CR-1, CR-2 (Two Sections) Romac: SS1, SS2		5921
Repair Clamps with CC Outlet (For defective tap)				
	Band Material: Type 304 (18-8) Stainless Steel Lug Material: Type 304 (18-8) Stainless Steel Spanner/Bridge Plate: Type 304 (18-8) Stainless Steel Bolts: Type 304 (18-8) Stainless Steel Gasket: SBR, Nitrile (Buna-N / NBR)	JCM: #133, #134 Extended Range Ford: FS1, FS2 (Two Sections) Smith Blair: 265 Cascade: CR-1, CR-2 (Two Sections) PowerSeal: 3132AS Romac: SS1, SS2	02630	5921
Repair Clamps - Bell Joint				
	Bell-Spigot Ring Material: Ductile Iron per ASTM A536 or Steel per ASTM A36 Bolts: High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated Gasket: SBR, Nitrile (Buna-N / NBR) Coating: Epoxy	Smith Blair: 274 JCM: 143 (4" - 12" & 14" - 36") PowerSeal: 3232 Romac: 516		5930
Repair Clamps for 1" - 2" galvanized pipe				
	Band Material: Type 304 (18-8) Stainless Steel Lug Material: Ductile Iron per ASTM A536 or Type 304 Stainless steel Bolts: High-strength, low-alloy steel or stainless steel Gasket: Nitrile (Buna-N / NBR)	Smith Blair: 245 Ford: FSC Style PowerSeal: 3151, 3151AS-W Romac: SC clamp		5933
Cathodic Protection Anode, High Potential Magnesium				
	Chemistry: ASTM B843 Ingot Testing: ASTM G97 Ingot Weight: 48 pounds (fittings) / 17 pounds (main repairs) Ingot Dimensions: 5" diameter by 31" long Ingots: Cast or extruded with galvanized steel strap or spiral spring core weighing not more than .10 pounds / LF Wire: 12 AWG, stranded copper with black HMWPE insulation Wire Length: 10' or 25' (As Specified) Prepackaged: Permeable cloth bag containing backfill mixture: 75% Ground Hydrated Gypsum, 20% Powdered Bentonite, 5% Anhydrous (Sodium Sulfate) Combined Ingot & Backfill Mixture Weight 100 pounds (fittings) / 45 pounds (main repairs) Composition: Aluminum - 0.010% maximum Manganese - 0.50 +/- up to 1.30% Silicon - 0.05% maximum Copper - 0.02% maximum Nickel - 0.001% maximum Iron - 0.03% maximum Other - 0.05% each or 0.30% maximum total Magnesium - Remainder		02690	
Cathodic Protection Test Stations, Buried				
	Material: SDR-35 PVC or Schedule 40 Steel Pipe Diameter: 16"		02690	

MONROE COUNTY WATER AUTHORITY - APPROVED MATERIALS LIST

While the materials listed in this chart are generally acceptable, they are not acceptable for every application within MCWA's system. Users of this chart must confirm acceptability with any project-specific specifications or requirements. Project specific requirements will govern.

This list is current as of the last revision date and is subject to change at MCWA's discretion.

All materials in contact with potable water must be NSF-61 certified.

All materials must be produced in the United States, its territories or possessions unless otherwise noted.

Last Revision: 3/2/2022

ITEM:	STANDARDS/REQUIREMENTS:	MANUFACTURER/MAKE/NAME/MODEL:	ENG SPEC	WH #
Cathodic Protection Test Station Covers, Buried			02690	
	Material: Class 35B Gray Iron or ASTM A536 Grade 80-55-06 Ductile Iron Rating: H-20 Loading Dimensions: 1-1/2" Deep, 13-1/4" Diameter (outside flange) Cover Letters: "MCWA Cathodic" in 3/4" letters on two lines	Neenah Foundry Company: R-5900-B		
Cathodic Protection Test Station Frame, Buried			02690	
	Material: Class 35B Gray Iron or ASTM A536 Grade 80-55-06 Ductile Iron Rating: H-20 Loading Dimensions: 4" Deep, 17-1/2" Diameter (outside flange)	Neenah Foundry Company: R-5900-B		
Cathodic Protection Test Station Terminal Board, Buried			02690	
	Terminal Board: 6" x 8" phenolic board Coated surface with laser inscribed labels in contrasting colors Hardware: 1/4" diameter brass hex-head machine screws, nuts and washers Connectors: Screw-type copper alloy, lug	Burndy: KA4C 14-4		
Cathodic Protection Test Station Terminal Board, Post-Mounted			02690	
	Terminal Board: Polycarbonate 7 or 5 Threaded Posts with 2 Binding nuts per post Bonding Strap installed between Anode Terminals Hardware: Stainless Steel Post: 3" Diameter, 6' Long, White Polyethylene Conduit post with Anchor, Blue Cover	Cott Promark Tinker & Rasor		
Cathodic Protection Terminal Board Shunt, Buried and Post-Mounted			02690	
	Resistance: 0.01 Ohm Current: 6 Ampere capacity Accuracy: + / - 1% Type: Manganin Wire, Tinned Ends			
Cathodic Protection Test Lead Cable			02690	
	Material: 12 AWG, stranded copper Rating: UL 83 Insulation: White HMWPE - for connecting to "protected" MCWA structures Red HMWPE - for connecting to "un-protected" others piping			
Cathodic Protection Anode Header Cable			02690	
	Material: 8 AWG, stranded copper Insulation: Black HMWPE			
Cathodic Protection Drain Cable, Buried and Post-Mounted			02690	
	Material: 6 AWG, stranded copper Insulation: White HMWPE - for connecting to "protected" MCWA structures Red HMWPE - for connecting to "un-protected" others piping Polyethylene Material: ASTM D1248			
Cathodic Protection Reference Electrode			02690	
	Material: Copper - copper Sulfate Design Life: 30-year Cell: 99.9% purity copper element surrounded by stabilized gel backfill Weight: 5.5 pounds Lead Cable: 14 AWG, stranded copper, silver-soldered to copper rod Lead Cable Length: 50LF or As Specified Lead Cable Insulation: Blue HMWPE	Staperm Borin		

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ITEM:	STANDARDS/REQUIREMENTS:	MANUFACTURER/MAKE/NAME/MODEL:	ENG SPEC	WH #
Cathodic Protection Counter Electrode			02690	
	Material: 3" Reinforcing Steel Wire: 12 AWG, stranded copper Wire Length: 50LF or As Specified Insulation: Purple HMWPE			
Cathodic Protection Thermite Weld			02690	
		Cadweld Erico Products, Inc.: 4" & Larger Steel Pipe, #6 conductor Mold: CAHAA-1H Sleeve: None Charge: CA-15 Cadweld Erico Products, Inc.: 4" & Larger Steel Pipe, #12 conductor Mold: CAHAA-1G Sleeve: CAB-133-1H Charge: CA-15 Cadweld Erico Products, Inc.: 4" to 24" Cast Iron or Ductile Iron Pipe, #12 conductor Mold: CAHBA-1G-P.S. Sleeve: CAB-133-1H Charge: CA-25XF-19 Cadweld Erico Products, Inc.: 4" to 24" Cast Iron or Ductile Iron Pipe, #6 conductor Mold: CAHBA-1H-P.S. Sleeve: None Charge: CA-25XF-19		
Cathodic Protection Thermite Weld Shield			02690	
	Material: 1 piece of molded plastic Recessed to cover cable and thermite weld	Phillips Petroleum Company: Thermite Weld Cap		
Cathodic Protection Thermite Weld Coating			02690	
	Material: Bitumastic No. 50	Koppers Company, Inc.: MIL-C-184880		
Cathodic Protection Splice			02690	
	Connection: Anode Lead Wire to Anode Header cable	Burndy, Thomas & Betts: "C" Tap Connectors 3M Company: Wye Resin Splicing Kit: Scotchcast 82-B1kit 3M Company: Rubber splicing tape, PE tape, coating compound		
Cathodic Protection Warning Tape			02690	
	Width: 3" Thickness: 4 mil Color: Blue Wording: In Black letters "Caution: Buried Water Line Below"	Pro-Line Safety Products Company: Non-detectable underground warning tape		
Cathodic Protection Bonding Straps			02690	
	Material: AWG #2 Insulated Copper Cable			
Insulating Couplings			02655	
	Materials / design: ANSI / AWWA C219 Working pressure: 150 psi minimum Sleeves: DI per ASTM A536 or Carbon Steel meeting ASTM A53, A513 or A283C Follower Flanges: DI per ASTM A536 or Steel per ASTM A576 Bolts / nuts: ANSI / AWWA C111, High-strength, low-alloy steel; blue fluoropolymer-coated or polytetrafluoroethylene-coated Gaskets: ANSI / AWWA C111, SBR or Nitrile (Buna-N / NBR) Coating: Fusion-bonded epoxy	Romac: IC501 with insulating boot on both ends Smith Blair: 416 with insulating boot at both ends		