

**WATER AGENCIES' STANDARDS
APPROVED MATERIALS LIST
FOR USE ON NEW CONSTRUCTION OF POTABLE WATER AND RECYCLED WATER FACILITIES**

This form is part of the Approved Materials Checklist that follows, and is intended for use by developers or contractors constructing potable water or recycled water facilities within the service areas of the members of the Water Agencies' Standards Committee. An authorized representative of the developer shall check a single box per item for materials to be used in conjunction with the project, shall fill out this form in its entirety, and shall sign the certification statement below. Please contact the District if part numbers or models indicated within the Approved Materials Checklist are no longer available. District personnel will review this form and the Approved Materials Checklist and will separately attach review comments.

	Project Name	District's Project ID #	Submittal #
DEVELOPER INFORMATION	CONTRACTOR INFORMATION	SUPPLIER INFORMATION	
_____ Name of Developer (Company)	_____ Name of Contractor (Company)	_____ Name of Supplier (Company)	
_____ Contact Person	_____ Contact Person	_____ Contact Person	
_____ Mailing Address	_____ Mailing Address	_____ Mailing Address	
_____ City, State, Zip	_____ City, State, Zip	_____ City, State, Zip	
_____ Telephone	_____ Telephone	_____ Telephone	
_____ FAX	_____ FAX	_____ FAX	
_____ E-Mail Address	_____ E-Mail Address	_____ E-Mail Address	

I hereby certify that the specific products indicated within the attached Approved Materials Checklist represent a true list of materials to be used within the project indicated above, and I acknowledge understanding of the requirements that follow. Any and all specific requirements detailed within the Standard Specifications shall apply to all materials proposed for use on this project. When the notation "Full Submittal Required" or similar language appears within this Approved Materials List, or when required materials do not appear within this Approved Materials List, complete shop drawing submittals are required in accordance with the procedures detailed in the Standard Specifications. All materials supplied to the job site shall conform in all ways to the requirements of the Standard Specifications.

Signed By Developer or Contractor Representative	Printed Name of Developer or Contractor Representative	Date	Telephone
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POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
ACTUATOR	Electric Valve Actuators used for Valve Control on Motor Operated Valves. Full Submittal Required.	Auma SG Series EIM Rotork Flo-Loc FloPak	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
ADAPTER, CAM AND GROOVE FITTING	316 Stainless Steel Adapter, MIP x Male Cam and Groove Fitting, 50mm (2"), 100mm (4") or 150mm (6") with 6mm (1/4") 304 Stainless Steel Street Ell and Pet Cock Tapped into the Side of the Fitting.	OPW Kamlock 600-F-SS Dixon "Andrews"/"Boss-Lock" Type F-SS	<input type="checkbox"/> <input type="checkbox"/>	
ADAPTER, FLANGE COUPLING	150mm (6") and Larger, MJ x Flg. Steel or Ductile-Iron Construction without Anchor Pins, Epoxy Coated, 304 Stainless Steel Bolts and Nuts.	Dresser 127 Dresser 227 Ford FFCA Style JCM 301 Powerseal 3521 Powerseal 3528 Romac FCA501 Romac FC400 Smith-Blair 912 Smith-Blair 913	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
AIR/VACUUM VALVE ENCLOSURE, STEEL	12 Gauge Steel, Clam Shell Hinged Construction, Polyester Powder Coated. Use Enclosure Size As Indicated Below. 25mm (1") & 50mm (2") Air Valve Sizes Use: 400mm (16") x 600mm (24") 100mm (4") & 150mm (6") Air Valve Sizes Use: 600mm (24") x 900mm (36") 200mm (8") Air Valve Size Use: 750mm (30") x 1,050mm (42") Potable Water Color: Chocolate Brown Recycled Water Color: OSHA Safety Purple	Pipeline Products VCDD-1624 Pipeline Products VCDD-2436 Pipeline Products VCCD-3042 Christys C-WASC-1624 Christys C-WASC-2436 Christys C-WASC-3042	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
AIR/VACUUM VALVE ENCLOSURE, PLASTIC	3/16" Wall Polyethylene with UV Stabilizer. (color selection subject to District Engineer approval)	Pipeline Products, Advantage Series VCAS 1830	<input type="checkbox"/>	
AIR/VACUUM VALVE SUCTION SCREEN	For use on 25mm (1") and 50mm (2") Air/Vacuum Installations. FIP Nylon Nut Style with 20 Mesh Stainless Steel Screen.	Christy VC Series McMaster-Carr 9877K52 McMaster-Carr 9877K65 Northtown Hytech	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
ANODE, MAGNESIUM	High or Standard Potential Anode with a Galvanized Steel Core Encased in a Square Magnesium Alloy Ingot Pre-packaged in a Permeable Cotton Cloth Bag Filled with a 75% Gypsum, 20% Bentonite, 5% Sodium Sulfate Mixture. Provide Ingot Weight as Specified on the Approved Plans. See Standard Drawing WC-12. Full Submittal Required.			
ANODE, ZINC	Pre-Packaged 6.8 Kg (15 lbs) Min. Sacrificial Anode, #12 THHN Lead Wire, for the Protection of Copper Tubing. See Standard Drawings WC-17 and WC-18.	Hytech Pipeline Products CP-Z15 Christy's	<input type="checkbox"/> <input type="checkbox"/>	
ANTI-SEIZE COMPOUND	For use on Stainless Steel Bolts and Nuts.	Loctite Nevr Seize	<input type="checkbox"/> <input type="checkbox"/>	
BACKFLOW PREVENTER	Reduced Pressure Principal Type Assemblies as Approved by the State of California, Department of Health Services.	As Shown on List of Approved Backflow Prevention Assemblies		
BOLTS AND NUTS, 304 SS	Hex-Head Machine, ASTM A193, Grade B8 Bolts and ASTM A194, Grade 8 Nuts. Full Submittal Required.			
BOLTS AND NUTS, 316 SS	Hex-Head Machine, ASTM A193, Grade B8M Bolts and ASTM A194, Grade 8M Nuts. Full Submittal Required.			
BOLTS AND NUTS, A307	Hex-Head Machine, Cadmium/Zinc Plated, ASTM A307, Grade A Bolts and A307 2H Heavy Hex Nuts. Full Submittal Required.			
BOLTS AND NUTS, A307	Hex-Head Machine, Fluoropolymer Coated, ASTM A307, Grade A Bolts and A307 2H Heavy Hex Nuts.	Tripac 2000 Blue	<input type="checkbox"/>	
BOLTS AND NUTS, A307, BREAK AWAY, 15mm (5/8") FOR 100mm (4") AIR VAC	Wet Barrel Fire Hydrant Flange Bolts, Hex Head Machine, Break Away Bolts, 15mm x 75mm (5/8" x 3") and Nuts. Bolts Shall Incorporate a 12.3mm x 47.6mm (23/64" x 1-7/8") Hole Drilled in the Bolt Shaft and Filled with Silicone Sealant. Bolts and Nuts Shall be Zinc Plated ASTM A307 Carbon Steel. Full Submittal Required.			
BOLTS AND NUTS, A307, BREAK AWAY, 19mm (3/4") FOR FIRE HYDRANTS AND 150mm (6") AIR VALVES	Wet Barrel Fire Hydrant Flange Bolts, Hex Head Machine, Break Away Bolts, 19 mm x 81mm (3/4" x 3-1/4") and Nuts. Bolts Shall Incorporate a 12.3mm x 47.6mm (31/64" x 1-7/8") Hole Drilled in the Bolt Shaft and Filled with Silicone Sealant. Bolts and Nuts Shall be Zinc Plated ASTM A307 Carbon Steel. Full Submittal Required.			

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
BOLTS, EXPANSION, DROP-IN ANCHOR	13mm (1/2") x 75mm (3") Stainless Steel Heavy Duty Anchor System with Anchor Assembly with Hex Head Threaded Rod and Washer, Drop-in Sleeve and Epoxy Resin Adhesive Capsule. For use on Air Valve and Water Test Station Enclosures.	Hilti HSLG-R Series U.S. Anchor W Series	<input type="checkbox"/> <input type="checkbox"/>	
BONDING AGENT, EPOXY	Epoxy Resin Based Bonding Agent for Bonding New Mortar or Concrete to Existing Concrete.	Sika Sikadur 32 Hi-Mod	<input type="checkbox"/>	No Known Equal
BUSHING, INSULATING	Nylon, 31mm x 25mm (1-1/4" x 1"), 38mm x 25mm (1-1/2" x 1"), 63mm x 50mm (2-1/2" x 2").	Calpico Corrosion Control Products F.H. Mahoney	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
CASING END SEAL	6.25mm (1/4") Thick Styrene Butadiene Rubber Sheet End Seal. Use 25mm (1") Wide Stainless Steel Bands. Zippered End Seals with Stainless Steel Bands May Also be Used.	Advance Products & Systems Cascade Calpico Pipeline Seal & Insulator Powerseal Raychem	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
CASING SPACER	Stainless Steel Casing Spacer, Center Restrained, Position Type with PVC Liner and Non-metallic Anti-friction Runners. Full Submittal Required.	Advance Products & Systems BWM Co. SS-8 & SS-12 Cascade Calpico Pipeline Seal & Insulator Powerseal Raychem	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
CATHODIC TEST STATION BOX	25.4 Kg (54 lbs) Concrete Body with 5.4 Kg (12 lbs) Ductile Iron Lid and Lid Ring. "CP TEST" Shall Be Cast into the Lid in 25mm (1") Letters. For Cathodic Protection Test Stations, Anode Ground Beds and Insulated Flange Test Stations.	Brooks 1-RT series Christy Farwest Type 1-RT J & R Model V6-R	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
CATHODIC WELDING	For Welding Cathodic Bond Wires to Steel Pipelines.	Cadweld	<input type="checkbox"/>	
CHLORINE	Liquid (Gas) or Sodium Hypochlorite Solution. Chlorination Plan Submittal Required per Section 15041.			

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
CLAMP, REPAIR	Stainless Steel, Full circle, Double Lug. For ACP, PVC, DI or CI Pipe, Sizes 100mm (4") Through 55mm (2").	Adams 220 APAC 402 APAC 422 APAC 432 Cascade CR-2 Cascade CRT-2 Ford F2 Ford FS2 JCM 102 Mueller 510 Powerseal 3111 Powerseal 3122 Romac SS2 Romac CL2 Smith-Blair 227 Total Piping Solutions EZ-MAX Plus	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
COATING, INTERNAL PIPE	For Coating the Internal Pipe Lining for an Insulated Flange.	Aquatapoxy CCI Hydro-Pox Devoe 223H Carboline Phenoline 341 Sherwin-Williams MacroPoxy 646	<input type="checkbox"/> <input type="checkbox"/>	Wet Application NSF 61 Wet Application Dry Application NSF 61 Dry Application Dry Application
COATING, MASTIC	Cold-Applied Coal Tar- or Epoxy-Based Single Component, Self-Priming, Heavy Duty Protective Exterior Coating for Buried Concrete.	Carboline Bitumastic 50WB Devoe Devtar 5AHS Sherwin Williams Tar Guard Coal Tar Epoxy	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
COATING, WATERPROOF	Epoxy Resin-Based Cementitious Trowel Grade Protective Waterproofing for Concrete.	Sika Top Seal 107 Sto CR 241	<input type="checkbox"/> <input type="checkbox"/>	
COPPER DISC, SOLID	For Plugging Corporation Stops When a Service is to be Abandoned.	Ford Copper Disc A.Y. McDonald 6125 Mueller H-15535	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
CORPORATION STOP, COMPRESSION x MIP	Bronze Compression x MIP Thread Ball Valve (T-Head only) 25mm (1") and 50mm (2") Full Opening.	Ford FB1100-Q Series Jones J-1935SG Jones J-1957SG A.Y. McDonald 4704BQ Mueller B-25028 Cambridge 1" 311-m4m4 Cambridge 2" 311-m7m7	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
CORPORATION STOP, INSULATED	Bronze Compression x MIP Thread Ball Valve (T-Head only) 25mm (1") Full Opening.	A.Y. McDonald 4755DBT Mueller N-35028	<input type="checkbox"/> <input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
CORPORATION STOP, MIP x MIP	Bronze MIP x MIP Thread Ball Valve (T-Head only), 25mm (1") and 50mm (2") Full Opening.	Ford FB500 Series Jones J-1943 Jones J-1956 A.Y. McDonald 3131B Mueller B-20013 Mueller B-2969 Cambridge 1" 311-M4M4 Cambridge 2" 311-M7M7	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
COUPLING, COMPRESSION x COMPRESSION	Three-Part Compression Coupling (Both Ends) for 25mm (1") and 50mm (2") Copper Pipe.	Ford C44-Q Series Jones J-2609SG A.Y. McDonald 4758Q Mueller H-15403 Cambridge 1" 119-H4H4 Cambridge 2" 119-H7H7	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
COUPLING, C900 PVC DEFLECTION	100mm (4") through 300mm (12") Solid PVC for Obtaining Deflection Only. Provides 5 Degree Maximum Deflection.	Certainteed Vinyl Iron HD	<input type="checkbox"/>	
COUPLING, C900 PVC CLOSURE OR REPAIR	100mm (4") through 300mm (12") Solid PVC for Closure or Repair.	Certainteed Vinyl Iron HD	<input type="checkbox"/>	
COUPLING, C905 PVC CLOSURE, DEFLECTION OR REPAIR	350mm (14") through 900mm (36") Solid PVC for Closure, 4 degree maximum Deflection or Repair.	IPEX Nyloplast America Scepter	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
COUPLING, FLEXIBLE	150mm (6") Long PVC Flexible Coupling with Stainless Steel Bands. Use For Securing Gate Valve Cap and Can Assembly to 200mm (8") Class 200 PVC C900 Gate Well.	Calder DFW/HPI Fernco	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
COUPLING, GROOVED	Use for Aboveground DI or Steel Pipe 100mm (4") or Larger.	Grinnell #7001 Tyler 500 Victaulic Style 44 Victaulic Style 77	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
COUPLING, HALF, STEEL	Forged Steel Half Coupling, ASTM A105, 3000#, NPT Threads.	Bonney Forge	<input type="checkbox"/>	
COUPLING, INSULATED, COMPRESSION x COMPRESSION	Three-Part Compression Insulated Coupling (Both Ends) for 25mm (1") Copper Pipe.	A.Y. McDonald 4755DBT Mueller N-35403	<input type="checkbox"/> <input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
COUPLING, STRAIGHT FLEXIBLE	100mm (4") and Larger, Steel or Ductile-Iron Construction, Slip x Slip, Epoxy-Coated with 304 or 316 Stainless Steel Bolts and Nuts. For use on AC, PVC, DI, or Steel Pipe.	APAC 301 Ford FC1 Dresser 253 Powerseal 3501 Powerseal 3538 Romac 501 Smith-Blair 441 Viking Johnson MaxiFit	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
COUPLING, TRANSITION FLEXIBLE	100mm (4") and Larger, Steel or Ductile-Iron Construction, Slip x Slip, Epoxy Coated with 304 or 316 Stainless Steel Bolts and Nuts. For use on AC, PVC, DI, or Steel Pipe.	APAC 311 APAC 313 Baker Ford FC2A Dresser 253 Powerseal 3501 Powerseal 3538 Romac 501 Romac XR501 Smith-Blair 413 Viking Johnson MaxiFit	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
CUSTOMER SIDE SHUT- OFF VALVE	19mm (3/4") and 25mm (1") Bronze Customer Shut-off (Ball Valve), Inlet Swivel Meter Nut x Outlet FIP Thread, Lockable Tabs, with Lever Handle.	Cambridge 3/4 212-F3T3H Cambridge 1 212-F4T4H Ford B13-332W w/ HT34 Ford B13-444W w/ HT34 Jones J-1908W A.Y. McDonald 6101MWHB Mueller B-24351 w/B-20298-99000	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
CUSTOMER SIDE SHUT- OFF VALVE	38mm (1-1/2") and 50mm (2") Bronze Customer Shut-off (Ball Valve), Inlet Meter Flange x Outlet FIP Thread, Lockable Tabs, with Lever Handle.	Cambridge 1 1/2 212-F6MF6H Cambridge 2 212-F7MF7H Ford BF13-666W w/HB-67S Ford BF13-777W w/HB-67S Jones J-1913W A.Y. McDonald 6101MWHB Mueller B-24337	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
DECOMPOSED GRANITE	Imported Quarry Decomposed Granite. Full Submittal Required.			
DEFLECTION BEND, PVC C900 AND C905	5 Degree Deflection Bend Manufactured from C900 and C905 PVC Pipe.	Ipex	<input type="checkbox"/>	
DISMANTLING JOINT	Telescoping, Adjustable, Double-Flanged Fitting, with High Tensile Strength Zinc-Plated Tie Bars. NSF-61 Epoxy or Nylon Interior and Exterior Coating.	Viking Johnson Romac DJ400 Dresser 131	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
DUST CAP, CAM AND GROOVE FITTING, LOCKING	316 Stainless Steel Cam and Groove Fitting Dust Cap, 50mm (2"), 100mm (4") or 150mm (6").	OPW Kamlock 700 Type DC-SS Dixon "Andrews" Type DC-SS	<input type="checkbox"/> <input type="checkbox"/>	
ELL, BURY, DUCTILE IRON	150mm (6") x 400mm (16") Ductile Iron Bury Ells, Long Radius, Flg x MJ/PO (Use of Short Radius Bury Ells with District Engineer Approval Only).	Clow Sigma South Bay Foundry	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
ELL, FIP x COMP, 45 Deg 1/8 BEND	25mm (1") and 50mm (2") Bronze Ell, FIP x Compression for Copper Pipe.	A.Y. McDonald 4747Q Mueller H-15534	<input type="checkbox"/> <input type="checkbox"/>	
ELL, FIP x COMP, 90 Deg 1/4 BEND	25mm (1") and 50mm (2") Bronze Ell, FIP x Compression for Copper Pipe.	Cambridge 1" 105-H4F4 Ford L14-44Q Ford L14-77Q Jones J-2621SG A.Y. McDonald 4779Q Mueller H-15533	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
ELL, STREET, MIP x FIP STAINLESS STEEL	6mm (1/4") 304 SS Street Ell for Blowoff Dust Cap. Full Submittal Required.			
ELL, SUPER GRIP TYPE	25mm (1") and 50mm (2") Bronze Ell Compression x Compression for Copper Pipe.	Cambridge 1" 105-H4H4 Cambridge 2" 105-H7H7 Ford L44-Q Series Jones J-2611SG A.Y. McDonald 4761Q Mueller H-15526	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
EPOXY ADHESIVE	High-Modulus, Low-Viscosity, Epoxy Resin-Based Adhesive Suitable for Grouting Bolts or Dowels.	Sika Sikadur 31 Sika Sikadur 35 Simpson StrongTie	<input type="checkbox"/> <input type="checkbox"/>	NSF Products
EXPANSION JOINT	For Water Pipeline Bridge Crossings.	APAC 703 Dresser 63 Onyx Valve 99 Powerseal 3563 Smith-Blair 611 Smith-Blair 612	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
EXPANSION JOINT, RUBBER	Expansion Joints at Reservoir and Pump Station Inlet/Outlet Piping to Allow Lateral Movement and Isolate Vibration.	General Rubber 1050 General Rubber 1075 Holz CSM Holz CR Holz C11R Mercer 500-700 Metraflex Metra Red Valve Redflex	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
FIRE HYDRANT BREAK-OFF CHECK VALVE	Break-off Valves for Fire Hydrants. Full Submittal Required.	Long Beach Iron LB400	<input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
FIRE HYDRANT CAP	Screwed Brass or Ductile-Iron Cap for Fire Hydrant Hose Ports, 63mm (2-1/2") and 100mm (4").	AVK Jones Long Beach Iron US Pipe	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
FIRE HYDRANT SPOOL, DUCTILE OR CAST IRON, FLANGED	Ductile- or Cast-Iron Spool with Integrally Cast Flanges and Machined or Cast Exterior Grooves. Spools 300mm (12") or Longer Shall Have Grooves 75mm (3") from Each Flange. Spools Shorter than 300mm (12") Shall Have One Groove Centered Between the Flanges. Grooves Shall be 5mm (3/16") Deep, ± 2mm (1/16") and 6mm (1/4") Wide, ± 2mm (1/16").			
FIRE HYDRANT, 1.03 MPa (150 PSI)	150mm (6") Standard 1.03 MPa (150 PSI) Wet Barrel Ductile-Iron (DI) or Bronze Fire Hydrants with Six-Hole Bolt Pattern. DI Hydrants shall be Fusion Epoxy Lined. Color shall be Safety Yellow.	AVK 2470 AVK 2490 Clow 850 (Ductile-Iron Only) Clow 860 (Ductile-Iron Only) Clow 2050 Clow 2060 Clow 2065 Jones J3700 Jones J3765 Jones J3775	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
FIRE HYDRANT, 1.38 MPa (200 PSI)	150mm (6") High Pressure 1.38 MPa (200 PSI) Wet Barrel, Ductile-Iron Fire Hydrant with Six-Hole Bolt Pattern, Fusion Epoxy Lined. Color shall be Safety Yellow.	AVK 2470 AVK 2490	<input type="checkbox"/> <input type="checkbox"/>	
FIRE HYDRANT, 1.72 MPa (250 PSI)	150mm (6") High Pressure 1.72 MPa (250 PSI) Dry Barrel, Ductile-Iron Fire Hydrant, Fusion Epoxy Lined. Color shall be Safety Yellow.	U.S. Metropolitan 250	<input type="checkbox"/>	
FITTING, DUCTILE IRON	Flanged, Mechanical Joint or Push-on Tees, Bends, Crosses, Reducers, Adapters, etc., for Water Lines 100mm (4") and Larger. Manufactured per AWWA C110, C111 and C153.	Bachman Griffin Nappco/Sigma Pipeline Components SIP Industries Star Tyler	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
FITTING, GROOVED	Grooved Ductile-Iron Fittings for Grooved End Pipes, 100mm (4") through 600mm (24").	Grinnell Tyler G-B Victaulic	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
GASKET	3.125mm (1/8") Thick Full Face Aramid Fiber Bound with Nitrile. No Asbestos Content.	Calpico Garlock/Tripac 3000 & 5000 Johns-Manville Klinger 4401 Tripac 5000	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
GASKET, RUBBER, GASOLINE-RESISTANT	Gasoline-Resistant Pipe Gaskets for Water Mains.	Newby	<input type="checkbox"/>	
GATE WELL 100mm (4")	For Buried 50mm (2") Ball Valve Installations, 100mm (4") SDR-35 PVC Sewer Pipe.	Refer to PIPE, PVC SDR35 (Sewer Materials List)		
GATE WELL 200mm (8")	For Valve Installations 100mm (4") and Larger, 200mm (8") C900 Class 200 PVC Pressure Pipe, White or Blue for Potable Water, Purple for Recycled Water.	Refer to PIPE, PVC C900		
GATE WELL LID-100mm (4")	Ductile- or Cast-Iron Lid used for Air Valve Ball Valve Access, 100mm (4") Nominal Diameter with a 62mm (2-1/2") Long Skirt.	South Bay Foundry B50	<input type="checkbox"/>	
GATE WELL LID-200mm (8")	Ductile- or Cast-Iron Lid used for Valve Access, 200mm (8") Nominal Diameter Lid with a 150mm (6") Long Skirt and Lifting Slot. For use with Type 1 Gate Well Installations. See Standard Drawing WV-03 for Required Markings.	South Bay Foundry SBF (single lid) 1200/40 lb. lid	<input type="checkbox"/>	
GATE WELL LID AND CAN ASSEMBLY	Ductile- or Cast-Iron, Machined Frame with Ductile- or Cast-Iron Lid. Used for Valve Access. 200mm (8") Nominal Diameter Lid with a 150mm (6") Long Skirt and Lifting Slot. For use with Type 2 Gate Well Installations. See Standard Drawing WV-03 for Required Markings.	South Bay Foundry SBF 1200 Cap and Can (2-piece) Assembly	<input type="checkbox"/>	
GREASE	For Bolt Corrosion Protection on Buried Bolts.	Sanchem NO-OX-ID Dearborn Chemical	<input type="checkbox"/> <input type="checkbox"/>	
GROUT	Non-Shrink Cementitious Construction Grout for Crack Repair, Flooring Mortar, Dowel Grouting, Crack Sealing and General Binding.	Sika Sikagrout 212 Sto Epoxy Binder CR633 Sto Epoxy Gel CR635 Sto N-S Grout CR732	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
HUMIDISTAT	120 Volt, 6.0 AMP, Single Phase with Adjustable Low and High Lockable Limit Stops. Adjustable Range of 20% to 70% Humidity and Suitable for Wet Locations. Full Submittal Required.			
INSULATING BLANKET	Insulating Blanket for Corrosion Interference Mitigation.	McMaster-Carr	<input type="checkbox"/>	
INSULATING BUSHING	Dielectric nylon, all threaded, heavy hex, bushing to insulate connections between different metals to prevent electrolysis & galvanic corrosion.	Corrosion Control Products	<input type="checkbox"/>	
INSULATING COUPLINGS	Insulating Couplings for Corrosion Protection of Pipelines.	Romac IC400 Romac IC501 Lochinvar	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
INSULATING GASKET KIT	Insulating Gasket Kits for Corrosion Protection of Pipelines.	Advance Products & Systems Calpico Pipeline Seal & Insulator GasketSeal Pipeline Seal & Insulator LineBacker Farwest	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
ISOLATOR, VIBRATION	Wire Rope Seismic Support for Pipelines for Isolating Vibrations and Shocks.	Enidine Steelpaw	<input type="checkbox"/>	
JOINT RESTRAINT SYSTEM	360-Degree Split Ring Serrated Style Restraint System for Ductile-Iron & PVC Pipe, Sizes 150 mm (6") Through 750 mm (30"). Prior Approval of District Engineer is Required. Full Submittal Required.	Ford Uni-Flange 1300 & 1350 Series Sigma PV-LOC PVM Star Series 1000C & 1100C	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
JOINT SEALING COMPOUND	Pre-Formed, Cold-Applied, Adhesive, Rope-Like, Butyl Rubber Gasket to Form a Watertight Seal Between Precast Vault & Manhole Sections.	Quickset Joint Sealing Compound A-Loc Butyl Lok	<input type="checkbox"/> <input type="checkbox"/>	
LUBRICANT, PIPE GASKET	Rubber Gasket Pipe Lubricant for Use on PVC or Ductile-Iron Pipe Joints, NSF-61 Listing Required.	Christy Pro-Lube Proselect Pipe Joint Lubricant Seacord Ease-On Whitlam Blue Lube	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
MARKER, UTILITY	Flexible Reinforced Polymer Glass Fiber Composite Strip Identification Marker. Branded or Customized Identification Markings for Pipelines and Appurtenances May Be Required.	Carsonite CUM-375 Christy's	<input type="checkbox"/> <input type="checkbox"/>	
METER ADAPTER	For Replacing Large Meters with Smaller Meters.	Cambridge 440 Series Ford A Series Jones J128H A.Y. McDonald 10J Series Mueller H10889	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
METER BOX	250mm x 500mm (10" x 20") Polymer Meter Box and Cover for 25mm (1") Water Services. Gray for Potable Water use, Purple for Recycled Water use.	Armorcast A6000486SA with #A6000483DQ Cover and #A6000487 Read Lid	<input type="checkbox"/>	
METER BOX	425mm x 750mm (17" x 30") Polymer Meter box with 2-Piece Lid for 50mm (2") Water Services and Blowoff Assemblies. Gray for Potable Water use, Purple for Recycled Water use.	Armorcast A6001640PC-12 with #A60001643DZ Cover and A6000482 Read Lid	<input type="checkbox"/>	
METER BOX	325mm x 600mm x 300mm (13"x 24"x 12") Polymer Meter box with Flared Fiberglass Base rated 20K and 2-Piece Lid for use with Dual Water Service Assembly. Gray for Potable Water use.	Armorcast A6001946TX12-SDGTD with #A6001969W Cover and #A6000481DT Read Lid	<input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
METER FLANGE	Bronze Meter Flanges for 38mm (1-1/2") and 50mm (2") Meters with Slotted Holes.	Cambridge 1 1/2" 5030295 Cambridge 2" 5030390 Ford CF Series Jones J129 A.Y. McDonald 610F	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
METER STOP, ANGLE COMPRESSION x METER	25mm (1") Bronze Angle Meter Stop (Ball Valve) with 90-Degree Lock Wing, Inlet 110 Style Compression x Outlet Swivel Meter Nut.	Cambridge 210-H4T4 Ford BA43-444W-Q Jones J-1963WSG, A.Y. McDonald 4602BQ Mueller B24258-1	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
METER STOP, ANGLE COMPRESSION x METER	50mm (2") Bronze Angle Meter Stop (Ball Valve) with 90-Degree Lock Wing, Inlet 110 Style Compression x Outlet Meter Flange.	Cambridge 210-H7MF7 Ford BFA43-777W-Q Jones J-1975WSG A.Y. McDonald 4602BQ Mueller B-24276	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
METER STOP, DUAL ASSEMBLY	Special tandem setting for 25mm (1") and 18.8mm (3/4") Angle Meter Stop (Ball Valve) with Padlock Wings and a 25mm (1") Single Inlet 110 Style Compression x Outlet Swivel Meter Nut	Ford UVB-95271-02	<input type="checkbox"/>	
METER, WATER	19mm (3/4") Through 50mm (2") Water Meter with Bronze Body, Bronze Bonnet, Thermoplastic Chamber, and Register Odometer at the Bottom of the Register Face. Odometer and Sweep Hand Read in Cubic Feet. Short or Long Pattern Body. Furnished and supplied by the Agency of Jurisdiction.	Badger Model 35 Badger Model 70 Badger Model120 Badger Model 170 Sensus Model SR Sensus Model SRII Sensus Series W Turbo Sensus Model W-120 DRS Sensus Model W-160 DRS	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
MORTAR, REPAIR	Two-Component, Low Shrinkage, Cementitious Mortar with High Compressive and Bonding Strength.	Sika Sika Top 122 Sika Sika Top 123 Sto CR 735 Sto CR 740	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
NOZZLE, WELD-ON	Weld-on Nozzle with Reinforcing Pad or Collar for Connection to CMC&L Steel Pipe. ASTM A-53B 6mm (1/4") Minimum Thickness Seamless Pipe, Mortar Lined and Coated with AWWA C207 Flange. Full Submittal Required.			

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
PIPE, PVC C905	For Water Lines 350mm (14") and 500mm (20") through 900mm (36"). Manufactured per AWWA C905, DR 25 or DR 18.	Certainfeed Diamond Plactics Extrusion Technologies IPEX Johns-Manville North American Pipe Pacific Western Vinyltech	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
PIPE, STEEL, CEMENT-MORTAR LINED AND COATED (CML&C)	Steel Cylinder (CML&C), per AWWA M11 and Section 15061. 6mm (1/4") Minimum Wall Thickness. Steel Pipes Used for Recycled Water Installation are to be Identified Per District Requirements. Full Submittal Required.			
PLASTIC ENCASEMENT	12-mil Thick Polyethylene Encasement Sleeve for Ductile Iron Pipe (DIP) per AWWA C105 and Recycled PVC, CMC/L, or DIP Non-Purple Water Pipe. Clear Sleeve for Potable Water, Purple Sleeve for Recycled Water.			
PLASTIC WRAP	8-mil Thick Polyethylene Encasement for Buried Fittings and Valves. Clear Sleeve for Potable Water, Purple Sleeve for Recycled Water.			
PRIMER, WAX TAPE	Surface Primer for Underground Application of Petrolatum Wax Tape.	Carboline Denso Paste Trenton Tem-Coat	<input type="checkbox"/> <input type="checkbox"/>	
PROTECTOR POST, STEEL	100mm (4") Diameter, 6.25mm (0.250") Wall Galvanized A-120 Steel Pipe, Concrete Filled with 100mm (4") Galvanized Fence Post Cap.			
REFERENCE ELECTRODE, COPPER SULFATE	High or Standard Potential Electrode with PVC Pipe Housing Pre-Packaged in a Permeable Cotton Cloth Bag Filled with a 50% Gypsum/50% Powered Bentonite Mixture. Electrode Shall have a Design Life of 15 Years with a Stability of +/- 5 Millivolts under a 3.0 Microampere Load. Provide Electrode with Integrally Attached #10 AWG HMW/PE Insulated Wire. Full Submittal Required.			
ROCK, CRUSHED	Washed 10mm (3/8") and 19mm (3/4") Crushed Rock. 10mm (3/8") for Use in Meter Boxes Only. Full Submittal Required.			
SEALANT	Chemical Grout for Joint Sealing.	3M Scotch Seal	<input type="checkbox"/>	
SEISMIC COUPLING	Flexible Expansion Joints for Pipelines, Reservoirs and Pump Stations. Full Submittal Required.	EBAA Iron Flex-Tend Romac FlexiJoint Star Pipe Starflex 5000	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
SEISMIC SENSOR DEVICE	Seismic Sensors for Reservoirs and Pipelines. Full Submittal Required.			
SERVICE SADDLE FOR ACP AND CI PIPE	Cast Brass ASTM B62 Body with Silicone Bronze Double Straps, IP Outlet Sizes 25mm (1") and 50mm (2").	Cambridge 810 Series Ford 202B Jones J-979 A.Y. McDonald 3826 Mueller BR2B Series Romac 202B Smith-Blair 323	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
SERVICE SADDLE FOR PVC C900 PIPE	Bronze or Brass Saddle with Stainless Steel Four Bolt Strap(s), IP Thread Outlet for Saddle Sizes 25mm (1") and 50mm (2") Installed on Pipe Sizes 100mm (4") through 300mm (12").	Cambridge 812 Series Ford 202BS Jones J-969 A.Y. McDonald 3846 Mueller BR2S Series Romac 202BS Smith-Blair 393	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
SERVICE SADDLE FOR PVC C905 PIPE	Bronze or Brass Saddle with Stainless Steel Four Bolt Strap(s), IPT Thread Outlet for Sizes 25mm (1") and 50mm (2") Installed on Pipe Sizes 400mm (16") and Larger (Romac Saddle Requires Nylon Bushing).	Ford 202BS Jones J-969 Romac 202N	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
TAG, BRASS IDENTIFICATION	25mm (1") Diameter, 18 Gauge Brass with 4.76mm (3/16") Die-Stamped Letters and Numbers, Suitable for Attachment to Cathodic Protection Wires using a Nylon Zip Tie.			
TAPE, OUTER WRAP	Adhesive Plastic Outer Wrap for Wax Petrolatum Tape in Underground Applications.	Polyken 960 Trenton Polyply	<input type="checkbox"/> <input type="checkbox"/>	
TAPE, UTILITY	10 to 50 Mil x 50mm (2") Wide General Utility Tape for Corrosion Protection of Aboveground and Underground Pipes and Fittings.	3M Scotchwrap 50 3M Scotchwrap 51 Calpico Christy Northtown Polyken 900	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
TAPE, WARNING/ IDENTIFICATION	150mm (6") wide, Warning/Identification (Non-Detectable) Marking Tape for Buried Facilities. See Section 15000 for Required Colors and Markings.	Calpico Type 1 Christy Type 1 Line-Tec Type B Terra Tape Standard 250 Thor Elast Tec Northtown	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
TAPE, WARNING/ IDENTIFICATION FOR RECYCLED IRRIGATION	75mm (3") wide, Warning/Identification (Non-Metallic) Marking Tape for Buried Irrigation Pipelines, Purple Color with continuous warning "CAUTION RECLAIMED WATER MAIN BURIED BELOW."	Calpico Type 1 Christy Type 1 Line-Tec Type B Terra Tape Standard 250 Thor Elast Tec Northtown	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
TAPE, WAX ABOVEGROUND	Petrolatum-Saturated Synthetic Fabric Tape for use on Aboveground Couplings, Flanges, Fittings, etc.	Trenton #2 Wax-Tape	<input type="checkbox"/>	
TAPE, WAX UNDERGROUND	Petrolatum-Saturated Synthetic Fabric Tape for use on Underground Couplings, Flanges, Fittings, etc. Primer and Outer Wrap Required.	Carboline Densyl Tape Trenton #1 Wax-Tape	<input type="checkbox"/> <input type="checkbox"/>	
TAPPING SLEEVE FOR AC, CI, DI, AND PVC PIPE	Fabricated Steel Tapping Sleeve for 100mm (4") Through 300mm (12") Wet Taps. Epoxy Coated with Stainless Steel Bolts and Nuts.	APAC 502 APAC 512 Baker 428 Series Clow F-5205 Clow F-5207 Dresser 610 Ford FTSC JCM 412 Mueller 615 Mueller 619 Powerseal 3460 Romac FTS-420 Smith-Blair 622	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
THREDOLET	Forged Steel Fitting, ASTM A105. 3000#, NPT Threads.	Bonney Forge	<input type="checkbox"/>	
VALVE STEM EXTENSION, STEEL	Round or Square 37mm (1-1/2") Diameter Steel Rod, Welded Construction, Hot Dipped Galvanized with Top Centering Ring and AWWA 50mm (2") Operating Nuts Top and Bottom. Use for Extensions Longer Than 2.4m (8').	Pipeline Products SX-900 South Bay Foundry E4160 Christy's	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, AIR RELEASE, 1.03 MPa (150 PSI)	Pressure Air Release Valve, Cast-Iron Body with Stainless Steel Internal Parts. Suction Screens Required. 25mm (1") through 75mm (3") NPT, 100mm (4") Flanged. Full Submittal Required.	APCO 50 APCO 200 APCO 200A Crispin PL10 Crispin PL20 Crispin PL30 Crispin PL41 Val-Matic #45 Val-Matic #88	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
VALVE, AIR RELEASE, 2.05 MPa (300 PSI)	Pressure Air Release Valve, Cast-Iron Body with Stainless Steel Internal Parts. Suction Screens Required 25mm (1") through 75mm (3") NPT, 100mm (4") Flanged. Full Submittal Required.	APCO 50 APCO 200 APCO 200A Crispin PL10H Crispin PL20H Crispin PL30H Crispin PL42H Val-Matic #45 Val-Matic #88	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, BALL	25mm (1") and 50mm (2") Bronze, Straight, Compression x Compression.	Cambridge 1" 202-H4H4 Cambridge 2" 202 H7H7 Ford B44-444-Q Ford B44-777-Q Jones J-1949SG A.Y. McDonald 6100Q Mueller B-25209	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, BALL WITH LOCKING TABS	50mm (2") Bronze, Straight, Compression x Compression with Locking Tabs and Brass Handle.	Cambridge 212-H7H7H Ford B44-777-QW Jones J-1949SGW A.Y. McDonald 6100WQ Mueller B-25146	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, BALL WITH LOCKING TABS	19mm (3/4") and 25mm (1") Bronze, Straight, FIP x Meter Swivel with Locking Tabs and Purple Handle.	Cambridge 3/4" 212-F3T3H Cambridge 1" 212-F4F4H Ford B13-332W Jones J-1908W A.Y. McDonald 6100M Mueller B-24351-1	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, BALL, 1.03 MPa (150 PSI)	6mm (1/4") through 50 mm (2"), FIP Threads with Handle.	Apollo 70-100 Series Milwaukee BA-1005 Nibco 560 Series Stockham S-214 Watts WBV-3 Watts WEBS-3	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, BALL, 1.03 MPa (150 PSI)	100mm (4") and Larger, Rubber Seated, AWWA C507. Thermosetting or Fusion Bonded Epoxy Coated. Full Submittal Required.	Pratt	<input type="checkbox"/>	
VALVE, BUTTERFLY 1.03 MPa (150 PSI)	100mm (4") through 300mm (12"), AWWA C504, Class 150B with Ductile-Iron Body. Thermosetting or Fusion Bonded Epoxy Coated and Lined. Class D or E Flange x Flange Ends. Full Submittal Required.	Dezurik AWWA Keystone 504 M & H 4500 Mueller Linesal III Val-Matic Series 2000	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
VALVE, BUTTERFLY 1.03 MPa (150 PSI)	350mm (14") and Larger, AWWA C504, Class 150B with Ductile-Iron Body. Thermosetting or Fusion Bonded Epoxy Coated and Lined. Class D or E Flange x Flange Ends. Full Submittal Required.	Dezurik AWWA M & H 1450 M & H 4500 Mueller Lineseal III Pratt Groundhog Val-Matic Series 2000	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, BUTTERFLY 1.72 MPa (250 PSI)	100mm (4") through 300mm (12"), AWWA C504, Class 250B with Ductile-Iron Body. Thermosetting or Fusion Bonded Epoxy Coated and Lined. Class F Flange x Flange Ends. Full Submittal Required.	Dezurik AWWA Keystone 507 M & H 1450 M & H 4500 Mueller Lineseal XP 250 Val-Matic Series 2000	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, BUTTERFLY 1.72 MPa (250 PSI)	350mm (14") and Larger, AWWA C504, Class 250B with Ductile-Iron Body. Thermosetting or Fusion Bonded Epoxy Coated and Lined. Class F Flange x Flange Ends. Full Submittal Required.	Dezurik BAW 250 M & H 1450 M & H 4500 Mueller Lineseal XP 250 Val-Matic Series 2000	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, BUTTERFLY, WAFER 1.03 MPa (150 PSI)	350mm (14") and Larger, Thermosetting or Fusion Bonded Epoxy Coated and Lined. District Approval and Full Submittal Required.	Pratt MKII	<input type="checkbox"/>	
VALVE, CHECK	1.03 & 2.07 MPa (150 & 300 PSI), Slanting Disc Check Valve 100mm (4") and Larger. Full Submittal Required.	APCO Series 800 Crispin TD Series Val-Matic Series 9000	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, COMBINATION AIR RELEASE AND AIR/VACUUM, 50mm (2")	Single Body Style Combination Air Release and Air/Vacuum Valve. Stainless Steel Internal Parts, BUNA-N seats per AWWA C512, and Epoxy Coated Interior per AWWA C550. N.P.T. Threaded Inlet and Outlet. Suction Screen Required, 2.04 Mpa (300 PSI) Rated Body and Internals. Full Submittal Required.	APCO 145C Cla-Val 33A Crispin UL20 Val-Matic 202C.2 Vent-O-Mat RBX Series	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, COMBINATION AIR RELEASE AND AIR/VACUUM, 100mm (4") AND LARGER	Single-Body Style Combination Air Release and Air/Vacuum Valve. Stainless Steel Internal Parts, BUNA-N seats per AWWA C512, with Protection Hood, Suction Screen Required, and Epoxy Coated Interior per AWWA C550. Flanged 125# or 250# Inlet. 2.04 MPa (300 PSI) Rated Body and Internals. Full Submittal Required.	APCO 150 Series Cla-Val Series 35 Crispin UL Series (for 100 mm (4") size) Crispin C Series (for 150mm (6") and larger) Val-Matic 200 Series Vent-O-Mat RBX Series	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
VALVE, GATE, RESILIENT WEDGE (RWGV)	100mm (4") Through 300mm (12"), Non-Rising Low Zinc Bronze or Stainless Steel Stem, Ductile-Iron Body and Bonnet, Stainless Steel Trim Bolts, Encapsulated Wedge per AWWA C509 or C515 with 8-mil or greater Epoxy Coated Interior. Manufactured to AWWA C509 or C515, with 1.72 MPa (250 PSI) Rating.	American FC, Series 2500 American R/D AVK 45 Clow 2639 F6100 Series Kennedy Ken-Seal II, KRSR Mueller A2362 M&H 4067 M&H 7067 U.S. Pipe Metroseal U.S. Pipe Metroseal 250	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, GATE, RESILIENT WEDGE, 350mm (14") AND LARGER	350mm (14") Through 600mm (24"), per AWWA C509, Ductile Iron Body, Stainless Steel Trim Bolts, Encapsulated Wedge, Non-Rising Stem, 8-mil or greater Epoxy Coated Interior per AWWA C550, Minimum 1.36 MPa (200 PSI) Rating. District Approval and Full Submittal Required.	Clow F-6100 Series Kennedy Ken-Seal II M&H 4067 Mueller A-2362 U.S. Pipe Metroseal 250	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, INSULATED BALL	25mm (1") Bronze, Straight, Compression x Compression, Insulated Type.	Mueller N-35209	<input type="checkbox"/>	
VALVE, PET COCK	6mm (1/4") 304 SS Pet Cock Valve for Use on Blowoff Cam and Groove Adapter.			
VALVE, PRESSURE REDUCING	For Water Main Pressure Reducing, 100mm (4") through 400mm (16"). Full Submittal Required.	Ames 910/610 Series Cla-Val 90G-01 Singer 106 PR Singer 206 PR Watts ACV 115E Series	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, PRESSURE REGULATING 1.03 MPa to 1.72 MPa (150 TO 249 PSI)	19mm (3/4") through 50mm (2").	Cash Acme E55 Watts 223, 25AUB Wilkins 600 Series	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VALVE, PRESSURE REGULATING 1.72 MPa to 2.74 MPa (250 TO 400 PSI)	19mm (3/4") through 50mm (2").	Cash Acme E55 Watts N35B Series	<input type="checkbox"/> <input type="checkbox"/>	
VALVE, PRESSURE RELIEF	For Service Connections, 19mm (3/4").	Cash Acme FWC	<input type="checkbox"/>	
VALVE, PRESSURE RELIEF AND SUSTAINING	For Water Main Pressure Reducing and Sustaining, 100mm (4") through 400mm (16"). Full Submittal Required.	Ames 920/620 Series Cla-Val 50-01 Cla-Val 650-01 Singer 106 RPS Singer 206 RPS Watts ACV 116E Series	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
VAULT ACCESS DOOR, ALUMINUM	Aluminum Vault Access Door, Dual Door Configuration, Spring Loaded and Counter Balanced, with Inset for Padlock. H-10 Parkway or H-20 Street Loading Required. Full Submittal Required.	Bilco Type JD-AL Lasco Lids LP & LH Series USF Fabrication THS, THD Watkins Metal Fabrication	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
VAULT DAMP-PROOFING	Coating System used on the Exterior Surface of Vaults & Manholes at and below Water Table.	Carboline 50WB	<input type="checkbox"/>	
VAULT EXHAUST FAN	Electric, 110 Volt, Single Phase, Squirrel Cage Type, Suitable for Wet Locations. Size for 6 Volume Changes per Hour. Full Submittal Required.			
VAULT GROUND FAULT RECEPTACLE	125 Volt, 20 AMP, Duplex, with Gasketed, Self-Closing Aluminum Cover. Full Submittal Required.			
VAULT LADDER EXTENSION	Vault Ladder Extension, Retractable, 1,200mm (48") Extension. Full Submittal Required.	Bilco Ladder-Up Pipeline Products VL-100	<input type="checkbox"/> <input type="checkbox"/>	
VAULT LADDER, ALUMINUM	High Strength 6061-T6 Aluminum Alloy, 25mm (1") Diameter Solid Rungs and 450mm (18") Between Side Rails. Ladder to Exceed Requirements of CAL/OSHA Standards.	Alaco Model 560	<input type="checkbox"/>	
VAULT LADDER, FIBERGLASS	Fiberglass Reinforced Plastic, 25mm (1") Solid Square Rungs with Grit Safety Surface, Ultraviolet Inhibitors. 42 KPa (30,000 PSI) Tensile Strength with a 3 to 1 Safety Factor per OSHA Requirements. Full Submittal Required.			
VAULT LIGHT SWITCH	120 Volt, 20 AMP, Single Pole, Spring Loaded with Clear Waterproof Cover. Full Submittal Required.			
VAULT LIGHTS	Non-Metallic Incandescent Vaportite, 120 Volt, 6.0 AMP, Wall or Ceiling Mounted, with 100 Watt Bulb with Cage and Glass Protector for Bulb. Suitable for Wet Locations. Two Light Fixtures Per Vault. Full Submittal Required.			
VAULT LOAD CENTER	125 AMP, Double Pole, 1 Phase, 3 Wire, Solid Neutral 120/240 VAC with Plug-In GFI Breaker. Full Submittal Required.			
VAULT SUMP PUMP	Automatic Submersible, Minimum 1/2 HP, 115 Volt, 60 Hz, 1 Phase, Ball Bearing Motor with Thermal Overload Protection. Either bronze or Epoxy Coated Cast Iron Body. Full Submittal Required.			

POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer	Selection	Comments
VAULT, FIBERGLASS REINFORCED PLASTIC (FRP)	For Meter Sizes 75mm (3") and Larger. 1.82m Long x 1.2m Wide x 1.5m Deep (6' x 4' x 5'). FRP Construction, Minimum H-10 Parkway Loading with Reinforced Plastic Concrete or Aluminum Access Door. See Section 06620. Full Submittal Required.	Armorcast A6001506AMTF	<input type="checkbox"/>	
VAULT, PRECAST CONCRETE	For Pressure Reducing Stations, Reservoir Altitude Valves, etc. Various Sizes. Precast Base, Sections and Top with Aluminum Two Leaf Access Door. See Section 03462. Full Submittal Required.	B&W Precast Jensen Precast J & R San Diego Precast Utility Vault	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
WATER TEST STATION ENCLOSURE	12 Gauge Steel, 200mm (8")x 1200mm (48"), Single Lockable Door, Powder Polyester Coated. Potable Water Color: Chocolate Brown. Recycled Water Color: OSHA Safety Purple.	Pipeline Products WTS-1200	<input type="checkbox"/>	
WIRE, CATHODIC	Stranded Copper, 600 Volt Rated Insulation, 2.08mm (7/64") Thick High Molecular Weight Polyethylene (HMW/PE) Insulation Jacket. Use the Wire Sizes and Insulation Jacket Colors of Wire as Required in Section 13110 and on the Standard Drawings.			
WIRE, TRACER	#14 AWG Solid Copper UF Type Wire, with Cross Linked Polyethylene Insulation. White or Yellow in Color.	Baron Cosberg Industries Paige Regency Wire	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
WIRE, TRACER CONNECTOR	Direct Bury Silicone-Filled Capsule Tube with Standard Wire Nut or Silicone-Filled Wire Nut Connectors for Tracer Wire Connections.	3M DBR-6 King 4 King 5 King 6	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	