

VISTA IRRIGATION DISTRICT
 APPROVED MATERIALS LIST

TYPE	DESCRIPTION OF MATERIALS FOR RECLAIMED WATER (by Item)	MANUFACTURER
Quick-Coupling Valve, Reclaimed	Brass construction ACME Thread, Locking purple cover or Equal	Nelson Rainbird
Sprinklers, Rotors - etc. Reclaimed	Purple identification by molded purple plastic, Attachable ring or Disc.	Toro Rainbird Hunter Or Equal
Valve Box Reclaimed	Rectangular or round molded purple PVC lid (minimum) with warnings	Metek Carson Or Equal
Valve, Check	Brass body, in-line, spring loaded, stainless steel spring. Same size as meter.	Nibco T-480 Cla-Val 81G Watts #7, #600 Val-Matic #1400 Febco #810 Wilkins #700 Hersey #BSG
Wye-Strainer	3/4" thru 4" Bronze Body, in-line, 30 mesh stainless steel screen. 1/2" bronze ball valve on the wye leg. Same size as the meter.	Watts S777 Or Equal
	6" and larger: Cast iron or fabricated steel, flanged, stainless steel screens epoxy coated.	Watts F Agricultural Products 4E Or Equal

END SECTION

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TYPE	DESCRIPTION OF MATERIALS FOR POTABLE WATER (by Item) (FOR NEW INSTALLATIONS)	MANUFACTURER
Actuator, Traveling Nut (Butterfly Valves)	May be used only on 14" thru 24" butterfly valves, Manual type, totally enclosed, adjustable stops, self-locking, per AWWA C504. 2" AWWA nut on buried service, handwheel and disc position indicator on vault or above ground service. Size actuator per manufacturer recommendations for specific valve, service & torque requirements. 100 turns max for 90 degree movement. Submittal required	Pratt
Actuator, Worm Gear (Butterfly Valves)	Manual type, totally enclosed, adjustable stops, self-locking, per AWWA C504. 2" AWWA nut on buried service, handwheel and disc position indicator on vault or above ground service. Size actuator per manufacturer recommendations for specific valve, service & torque requirements. 100 turns max for 90 degree movement. Submittal required.	EIM-Type WO or WB Limatorque-HB Series AUMA-GS Series with pinned castle nut.
Adaptor	4" thru 16", Ring-Tite x Flange, Short pattern. Use with ACP or PVC pipe.	Power-Seal 3541 Romac CGFA APAC Tyler
Adaptor, Flange Coupling	6" and larger steel or PVC pipe, steel construction without anchor pins. Epoxy coated. Alloy bolts	Romac FCA501 Romac FC400 Smith-Blair 913 Power-Seal 3512A Ford FFCA Ford FCA Tyler
Backflow Preventors RPDA	State of California, Department of Health Services	See State List (available at VID)
Ball Joints, Flexible/Expansion	ANSI/AWWA C153/A21.53	EBAA Iron
Bushing Insulating	NYLON, 1 1/4" x 1" OR 2 1/2" x 2"	Calpico F.H. Maloney
Copper Tubing	1" Coiled Tube "K" Soft 1 1/2" Straight Tube 2" Straight Tube	Halstead Mueller Cerro Redding Cambridge-Lee

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TYPE	DESCRIPTION OF MATERIALS FOR POTABLE WATER (by Item) (FOR NEW INSTALLATIONS)	MANUFACTURER
Corporation Stop Iron Pipe x Flare	1"	Jones J -1505, J-1929 Ford F700, FB 700 Mueller H15025 Mueller B25025
Corporation Stop Iron Pipe x Iron Pipe MIP x FIP	1½" and 2"	Jones 1931-2" Jones 51-1" Ford F1700, FB 1700 Mueller H10046
Corporation Stop Iron Pipe x Iron Pipe MIP x MIP	1½" and 2"	Jones J-41-1 Jones J-1943-2" Ford F500, FB500 Mueller H9969-2" Mueller H10013-1"
Coupling, Di-Electric	Merchant Plated Steel Coupling-Mycarta Connector	Calpico F.H. Mahoney
Black Weld (Nozzle)	3.000 lb, ASTM A 105, Iron pipe	Capital Bonney Forge Standard
Coupling, PVC C-905 Slip Coupler	14" thru 24" solid PVC, manufacturer from C-905 pipe stock only. Straight or deflection. Straight: use for closure. Deflection: Use for obtaining deflection. Standard Coupling max 4 degrees total deflection per coupling (2 degrees/each gasket). Custom manufacture required for more than 4 degrees total deflection per coupling. Use on plain end pipe.	NYLAPLAST Manufacturing Specified Fitting
Coupling, PVC High Deflection	6" thru 12" solid PVC. Use for obtaining deflection only	Certainteed "Vinyl-Iron" H.D.
Coupling, PVC Repair	6" thru 12" solid PVC. Use for repair or closure.	Certainteed "Vinyl Iron"
Coupling, Repair or transition	4" and larger ductile iron, straight coupling. Epoxy coated with stainless steel bolts and nuts. Use for transition from one type of pipe to another.	Power-Seal 3501 Romac 501 Smith-Blair 441 Ford FC2A

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TYPE	DESCRIPTION OF MATERIALS FOR POTABLE WATER (by Item) (FOR NEW INSTALLATIONS)	MANUFACTURER
Coupling, Victaulic	For steel pipe with groove and shouldered ends per AWWA C-606	Victaulic #77 Victaulic #44 Gustin-Bacon #100 Grinnell #7001 Mech-Line Central
Curb Stops	1" flared with swivel meter nut and lock wing 1½ & 2" with meter flange x FIP double drilled and lock wing	Jones J-1525 Mueller B-24255 Ford KV 23-444W Ford KV 43 Jones J-1527F Jones J-1974W Ford FV-13-777W Ford FV-13-666W Mueller H 14276 Mueller B-24286
ELL 90,	2" Brass	Mueller H15526 Jones J-2511-SG Ford L-44
Fire Hydrant, Bury Elbows	Cast iron, cement lined, push-on x flange, 6 hole pattern, 6" x 16" radius.	South Bay Foundry Clow Tyler <small>San Marcos Requirement</small>
Fire Hydrant, Fire 6 Bolt Flange Pattern.	Exterior painted fire hydrant yellow plastic hose caps with brass chain	<u>Residential</u> Clow 2050 Jones 3700 <u>Commercial</u> Clow 2060 Jones 3765 Jones 3775 Clow 2065
Fire Hydrants Extensions	Integral castings, 6 hole pattern, cement lined, scored and unscored	Clow South Bay Foundry
Fittings, Brass and Copper	Various sizes & types of ell bends, tee, adaptors, cap bushings, unions, plug, couplings, nipples	Lee Nibco Mueller Eckhart

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TYPE	DESCRIPTION OF MATERIALS FOR POTABLE WATER (by Item) (FOR NEW INSTALLATIONS)	MANUFACTURER
Fittings, Cast or Ductile Iron	AWWA C110 AND C111, ringtite on ACP, push-on or mechanical joint on 14" and larger PVC.	Tyler Union Star Bachman Sigma
Fittings, Cast or Ductile Iron	AWWA C153 and C111, push-on or mechanical joint ends. For use on C-900 PVC pipe, 6" thru 12" only.	Tyler Union Sigma Star Bachman
Flange, fittings DI Cast Iron	Companion, reducing blind – Standard AWWA 110 Casting	Domestic Tyler Union Sigma Star Buchman
Flange Ring Gaskets	ANSI C111 Drop-in 1/16" thick	Calpico J-M Mfg. Co. or Equal
Flange Ring Gaskets	ANSI B16.5 1/8" thick (CML&C Piping)	Calpico J-M Mfg. Co. or Equal
Joint Sealing Compound, Plastic	Preformed, cold applied, rope like, adhesive.	Quikseal or Equal
Meter Boxes 5/8", 3/4" and 1"	Medium w/1 Pc. Plastic lid with reading lid	Carson
1½" and 2"	Jumbo plastic w/1 pc plastic lid with reading lid	Carson #1220
1", 1½" and 2"	Carson/Brooks 4½" Medium 6B large concrete H & C 666 B flush w/diamond Plate cover and hinged reading lid; Non-hinged cover	J & R #6B Isel H66 Carson/#1730
Meter Bushing	1" x 1¼" (bushing from 1" curbstop for ?" meter)	Jones J-128-H Mueller H10889 Ford A-34

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Meter, Flange 1 1/2", 2"	Bronze oval with elongated holes	Jones J-129 Ford CF31 Hays 503
Meter Flange Gasket	1/8" Rubber Drop-in 1 1/2" & 2"	Romac Ford
Bronze, Ball Type (Consumer)	1" 1/2" and 2" with level handle and meter swivel nut	Jones J-1908 Or J-1913 Ford B13 332 Ford B14 444 W/Ht34 Handles
Meter, Vault 3" thru 10" Meter	3' x 6' Sections - 24" high Lid-Bilco full opening Aluminum w/hinged meter reading lid, H-10 loading	Quickset 7100 Utility Carson/Brooks or Equal
Pipe, PVC Distribution	AWWA C900 & 909 6" thru 12" Class 150 or 200 Use Purple pipe for reclaimed mains.	Johns-Manville Pacific Western Vinyl-Tech
Pipe, PVC Transmission	AWWA C905 14" thru 24", DR 18 or 25 30" thru 36", DR 18, 21 or 25 Use purple pipe for reclaimed mains	John's-Manville Pacific Western Vinyl-Tech
Poly Wrap	8 mil polyethylene sheeting clear, Use to wrap buried iron fittings, valves, etc. Monsanto	Kempner 3M Company or Equal
Rebar	ASTM A615, Grade 60	Domestic
Saddles, A/C Tapping, Double Strap	Bronze, 1", 1 1/2" and 2" IPT	Jones J-979 Smith-Blair 323 Romac 202B Ford 202B Mueller
Saddles, PVC C-900/C- 905 Tapping, Full Circle Body Clamp (FCBC)	Brass use C.I.O.D. 3/4" to 2" taps	Ford 202 BS Jones J-969 Romac 202B5 Smith Blair 393

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TYPE	DESCRIPTION OF MATERIALS FOR POTABLE WATER (by Item) (FOR NEW INSTALLATIONS)	MANUFACTURER
Saddles, Tapping Branch	Fabricated steel-side outlet size less than main run. Fusion epoxy coated-stainless steel bolts and nuts. Not for use on PVC pipe sizes 14" thru 36" (AWWA C905)	JCM Indust 412 Smith-Blair 622 Romac FTS 420 Ford FTSC
Tape	2" black - 10 mil. Use to secure polyethylene wrapping	Calpico Excor Henry 107 Maruin
Valve, Air & Vacuum Combination	1", 2", 4" and 6" with stainless steel trim, delrin & nitril rubber, field painted. 4" and larger-flanged with 125 or 250 lb. and 1" air release	Apco 143C, 145C, 149C Cla-Val 36/33A Val-Matic 201C, 202C, 204C Crispin
Valve, Ball	1" bronze, lever with swivel meter nut.	Jones J-1908 Ford B133-32/44 Mueller B24351-IR
Valve, Ball	1 1/2" & 2" bronze, lever handle FIP x Meter flange	Jones J-1912W Mueller B24337 Ford BF13-666 Ford BF13777
Valve, Double Disk, Gate	14" and Larger (ABIP)	Mueller, Kennedy Clow American
Valve, Butterfly	18" and larger per AWWA C504; Flanged, epoxy coated, worm gear operator for 30" and larger. For Class 150 pipe, use Class 150B; For Class 200 or 250 pipe, use Class 250B. Submittal required	Mueller/aka Pratt VAC-Matic-American Darling M & H K-FLO
Valve, Gate, Resilient Wedge	2" Non-rising Stem, FIP x FIP, Cast Iron Epoxy coated, CL 200 w/ 2" Op Nut	Clow AVK American

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TYPE	DESCRIPTION OF MATERIALS FOR POTABLE WATER (by Item) (FOR NEW INSTALLATIONS)	MANUFACTURER
Valve, Gate, Resilient Wedge	3" thru 16" - Non-rising Stem – epoxy coated. May be used as tapping valve. AWWA C509 companion-flanged only. 200 psi working pressure rating.	Mueller Clow American Flow Control Kennedy US 250 American AVK M & H
Valve, Gate Resilient Wedge	3" thru 16" - Non-rising Stem. May be used as tapping valve. AWWA C509 compliant. DI dimensions only. 250 psi working pressure rating.	Mueller Clow American Flow Control Kennedy American US 250 AVK M & H
Vault, Precast	For meters larger than 3 inch, pressure reducing stations, etc. Precast with Bilco (or equal) aluminum access doors. Submit for approval.	Quickset Christy J & R Precast Utility Vault
Vent, Vault	6 inch PVC Schedule 40 pipe with Schedule 40 socket weld fitting. 304 stainless steel insect screen.	Certainteed Johns-Mansville Pacific Western
Water Test Station Cover	Aluminum Housing	Pipeline Products WTS85 Koraleen
Weld Nozzle	10 ga. CML&C w/std. slip-on weld flanges w/reinforcing pads, (flanges C-207-78)	Koppl Pipeline products
Wire, Tracer	#10 AWG solid copper UF type wire, with cross- linked polyethylene insulation, white in color	Manhattan M4003 Paigewire

END SECTION