

VICTORVILLE WATER DISTRICT

APPROVED MATERIALS LIST

NO	ITEM	DESCRIPTION	MANUFACTURER	MODEL
1 PIPE				
1-A	4" to 12" PVC	C-900 Class 305 DR 14 or C909 Class 305	JM Eagle, Vinyl Tech, N.A.P.C.O., Certain	
1-B	14" to 48" PVC	C-905 Class 305 DR 14 or C909 Class 305	PW/JM Eagle, Vinyl Tech, Diamond Plastics	
1-C	Ductile Iron Pipe	Class 250/350, Asphalt Coated	American Ductile Iron, McWANE, Griffin Pipe, U.S. Pipe Tyton Joint or Approved Equal	
1-D	Copper Tubing	1-inch: Use Type K Soft 2-inch: Use Type L Rigid	American Made Only	
1-E				
1-F	CML&C Pipe	Cement Mortar Lined & Coated Steel Pipe, Min. Steel Wall Thickness: 0.25"	West Coast Pipe or Approved Equal	
1-G	Std, Steel Pipe	Schedule 40 Galvanized Steel		
2 VALVES				
2-A	Butterfly Valves	12" to 48", Rubber Seat, Epoxy Coated Inside and Outside, Class 125 Flanged Ends, Pressure class 150 psi or greater	Henry Pratt, Mueller Co., Dezurik, Crispin/K-Flo, CLOW (M&H)	2FII, Line Seal, BAW, K-FLO Series 500, 4500, 1450,
2-B	Gate Valves	2" to 8" Resilient Wedge, Iron Body, Brass Mounted, Non-Rising Stem, Wedge Encapsulated with EPDM Rubber (12" Tapping Gate Valves are allowed for Hot-Taps only) Note: City accepts Alpha Restraint Joint	Mueller, American Flow Control, CLOW	A-2362 SERIES, SERIES 2500-1, C509=2369, C515-2638
2-C	Corporation Valves (Meter Service Only)	1" MIP x Compression CTS	Mueller, Jones, A.Y. McDonald	B25028N E1935SG 74704BQ
2-D	Corporation Valves (Meter Service Only)	2" MIP x Compression CTS	Mueller, Jones, A.Y. McDonald	B25028N E1935SG 74704BQ
2-E	Angle Meter Valve	1" 360° Turn Compression CTS x Meter Swivel Nut	Mueller, Jones, A.Y. McDonald	B24258N-3 E1963WSGL/S 74612BQ
2-F	Angle Meter Valve	2" 360° Turn Compression CTS x Flange	A.Y. McDonald Products	7E4612BQ2
2-G				
2-H				
2-I	Ball Valve (with handle)	3/4" 360° TURN OPTION FIP x Meter Swivel Nut 1" 360° TURN OPTION FIP x Meter Swivel Nut 1 1/2" 360° TURN OPTION FIP x FIP 2" 360° TURN OPTION FIP x FIP	Ford 3/4", Ford 1" Ford 1 1/2" Ford 2"	B13-333R-HB-34S-NL B13-444R-HB-34S-NL B11-666R-HB-67S-NL B11-777R-HB-34S-NL
2-J	Wafer Check Valve	3" and Larger	APCO, Crispin or Approved Equal	
2-K	Corporation Valve (ARV's)	1" MIP x MIP	Mueller, Jones, A.Y. McDonald	B20013N E1943 73131B
2-L	Corporation Valve (ARV's)	2" MIP x MIP	Mueller, Jones, A.Y. McDonald	B2969N E1943 73131B

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3 FIRE HYDRANTS				
3-A	Standard Fire Hydrant	High Pressure Dry Barrel with Traffic Break Away, 4" Pumper Nozzle w/ 2-1/2" Hose Nozzles	American Flow Control Clow Mueller	American Darling B84B 5-1/4" Hydrant w/ MJ Bury, Medallion F2545 5-1/4" Hydrant w/ MJ Bury, Mueller A-423 Super Centurion Mueller A-403 Centurion
3-B				
4 BACKFLOW PREVENTER				
4-A	RP Backflow Device	Reduced Pressure Backflow Device as Approved by University of Southern California (USC) List of Approved Assemblies	Ames Co., Febco, Watts Industries Inc., Wilkins, Zurn Industries, Flomatic(Danfoss) or any on (USC) List of Approved Assemblies	
4-B	Insulating Cover	Thermal Insulating Cover with Water Resistant/Weatherproof exterior, and Tear-Proof Interior	Backflow Buddy, BPD1 or Approved Equal	
5 JOINT RESTRAINTS				
5-A	Bell Joint Restraint	C900, (Bell & Spigot) pipe to pipe	Romac, Ford, Sigma, EBAA Iron, Tyler Union, Star	Style 611 Series 1390 Series PWP Series 1600 Series 1100
	Bell Joint Restraint	Ductile Iron, (Bell & Spigot) pipe to pipe Series 1600 for 4" to 12" Series 1100 for 16" and larger pipe	EBAA Iron, Tyler Union, Star, U.S. Pipe	Mega-Lug Series 1600 or Series 1100 Series 1100 or Series 3100 P Field Lock 350
5-B	Flange Restraint	Restrained Flange Adaptor, PVC or DI	Romac, EBAA IRON, Sigma, Tyler Union Star	Field Flange Series 2100 Super Flange Series 7200
5-C	Mechanical Joint Restraint	C900, Mechanical Joint Restraint	Romac, Ford, Sigma, Tyler Union Star KRAUSZ	Grip Ring, Alpha Restraint Coupling Series 1300 Series PWM Series 3000 Hymax Grip
	Mechanical Joint Restraint	For Ductile Iron: Use Grip Ring for Pipe ≤ 12" Use GripRing or Approved Equal for Pipe ≥ 12"	Romac, EBAA IRON, Tyler Union Star KRAUSZ	Grip Ring, Alpha Restraint Coupling Series 1100 Series 3000 Hymax Grip

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NO	ITEM	DESCRIPTION	MANUFACTURER	MODEL
6 PIPE FITTINGS				
6-A	Service Fitting	Compression Connection	A.Y. McDonald, Jones, Ford	74754T, E-2608, Grip Joint
6-B	Ductile Iron Fittings	Tees and Crosses FL x FL	ACIPCO, Sigma, Tyler Union, Star Pipe Products	
6-C	Ductile Iron Fittings	Bends, Reducers, and End Caps (PO, MJ, FL)	ACIPCO, Sigma, Tyler Union, Star Pipe Products	
6-D	Bronze, Brass, & Copper Fittings	Bends, Tees, Couplings and Nipples	American Made Only	
6-E	Spools	Class 250 Ductile Iron, 150# Flange		
6-F	PVC Fittings	Schedule 40 PVC Bends and Tees		
7 TAPPING SLEEVES AND SADDLES				
7-A	3" to 24" Tapping Sleeve	Stainless Steel	Romac, Ford, Mueller, JCM, Powerseal	SST III FTSS H-304SS 432 3460AS
7-B	1" to 2" Service Saddle	Double Stainless Steel Straps for PVC Pipes (exclusively), Double Bronze/Brass Straps	Mueller, Jones, Romac, Ford, A.Y. McDonald	BR2B, BR2S J979, J969 202BS 202B 3856, 3826
7-C	Reinforcement Steel	3/16" Wall thickness for 6" to 20", 1/4" Wall thickness for 24" to 36"		
7-D	Outlet Nozzle	3/16" Minimum Wall Thickness		
7-E	Flange	150#		
8 CASING				
8-A	Casing Spacer		Advance Products & Sys., CCI Pipeline Sys.	Stainless Steel
8-B	Steel Welded Pipe	1/4" Thick	ACIPCO, Ameron, Northwest Pipe	
8-C	End Seal	End Seal for Casing Ends, Using Stainless Steel Bolts	Advance Products & Sys., CCI Pipeline Sys., PS&I, Inc.	Innerlynx, Wrap-It Link, Link-Seal

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NO	ITEM	DESCRIPTION	MANUFACTURER	MODEL
9 VAULTS				
9-A	Pre-Cast Vault	Per Plan	J&R Concrete, Jenson	
9-B	Occasional Traffic Rated Vault Lid	H-20 load rating for Offstreet Locations	U.S.F. Fabrication, LASCO(Delco Sales)	THD
9-C	Traffic Rated Vault Lid	Per Plan	U.S.F. Fabrication, or approved equal	
9-D	Meter Box & Lid	Gray Polymer Box w/ Solid Gray Polymer lid w/ knockout	DFW PLASTICS, INC.	DFW1324C4-12-BODY DFW1324C-4F<->-LID
9-E	Meter Box & Lid	Gray Polymer Box w/ Gray Polymer 2 piece lid w/ knockout and 9x14 lid	DFW PLASTICS, INC.	DFW1640C4-12-BODY DFW1640C-4 914F<->-LID
9-F	Vault Ladder	Ladder	Pipeline Products, Lane	VL-100
10 LOCATING WIRE				
10-A	Wire	12 Gauge Insulated Copper Solid Strand		
10-B	Wire Splice	Direct Bury Splice Kit	3M DBR	
10-C	Magnetized Tracer Box	SnakePit Magnetized Tracer Box complete w/ a 6" top flange	Copperhead Wire	Concrete/Driveway Box - CD14*TP
11 AIR VACUUM VALVES				
11-A	1" Air Vac		Valmatic, Crispin, APCO	
11-B	2" Air Vac		Valmatic, Crispin, APCO	
11-C	4" Air Vac		Valmatic, Crispin, APCO	
11-D	1" Air Vac Can	Plastic	Pipeline Products Christy's	Plastic
11-E	2" Air Vac Can	Plastic	Pipeline Products Christy's	Plastic
11-F	4" Air Vac Can	Plastic	Pipeline Products Christy's	Plastic
11-G	Air Vac Insulator	Thermal Insulating Cover with Water Resistant/Weatherproof exterior, and Tear- Proof Interior	Backflow Buddy, BPDI or Approved Equal	
11-H	Screened Cap	Stainless Steel Mesh or Approved Equal	Nowrthtown Company	Hytech

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12 FIRE SERVICES				
12-A	RPDCA	Reduced Pressure Backflow Device as Approved by University of Southern California (USC) List of Approved Assemblies	Ames Co., Febco, Watts Industries Inc., Wilkins, Zurn Industries, Flomatic(Danfoss) or any on (USC) List of Approved Assemblies	
12-B	Combo Fire & Domestic		Performance Meter	Super Unld.
12-C	Residential Fire Service Meter	Fire Service Meter for Installations Requiring Sprinklers	Performance Meter (Multi-Jet)	PMF
12-D	Fire Service Meter Fitting	Residential Fire Service Y-Fitting with Lockout Valve on Domestic Side Only	Mars	070905WH
13 MISCELLANEOUS				
13-A	Bolts	Grade 5 or 325-A	TRIPAC or Approved Equal	Grade 5 or 325 A
13-B	Meter Bushing	1"x 1-1/4" Thread Size	A.Y. McDonald Ford	10J34 A34
13-C	Water Meter	3/4" Through 12": MACH 10 Ultrasonic Meters by Neptune	Neptune	
13-D	Steel Pedestal	Steel Pedestal Pipe Support Under Each Meter or As Directed By Inspector	Pipeline Products, or Approved Equal	PSG Series
13-E	Bond Breaker	8 MIL. Poly Wrap for concrete to fitting seperation		
13-F	Valve Cover	8" O.D. Cast Iron W/1" 'VWD' Cast Thereon For Water Line	South Bay Foundry or Approved Equal	
13-G	Valve Slip Can	Steel Slip Can to fit Cover 8"x18", or approved equal (One Only)	R.K. Industries or Approved Equal	
13-H	Valve Can Tube	SDR 35 or Approved Equal		
13-1	Valve Stem Extension	Steel, Welded Construction, Hot Dipped Galvanized w/Top Centering Ring and 2" Operating Nut or Approved Equal	Pipeline Products, South Bay Foundry, Christy's	SX-900 E4160
13-J	Mastic Material	Corrosion Prevention Coating	Northtown Products or Approved Equal	
13-K	Breakaway Bolts	Zinc Plated Breakaway Flange Bolts	TRIPAC or Approved Equal	
13-L	Warning Tape	Minimum 0.4-mil thick x 6" wide non-metallic plastic w/ message printed in Black Ink on Blue Tape "Caution: Waterline Buried Below"; Onsite Potable & Recycled Water Irrigation Tape shall be 3" wide		
13-M	Gasket for PVC	Restraining Gasket for C900 PVC Pipe & Fittings	RieberLok or Approved Equal	