

APPROVED MATERIALS LIST SERVICE MATERIALS

DECEMBER 2021

SIZE	DESCRIPTION	MANUFACTURER & MODEL NUMBER	NOTES
CORPORATION STOPS			
1"	MIP x CTS Comp ball corp stop	Ford: FB 1100-4Q McDonald: 74704-BQ	No lead
2"	MIP x CTS comp ball corp stop	Ford: FB 1100-7Q McDonald: 74704-BQ	No lead
1"	MIP x FIP ball corp stop *	Ford: FB 1700-4 McDonald: 73149-B	No lead
2"	MIP x FIP ball corp stop *	Ford: FB 1700-7 McDonald: 73149-B	No lead
* High pressure assembly only, above 175 psi			
ANGLE METER STOPS			
1"	CTS ball angle meter stop	Ford: BA43-444WQ McDonald: 74602-BQ	No lead
2"	CTS ball angle meter stop	Ford: BFA43-777WQ McDonald: 74602-BQ	With elongated holes No lead
1"	FIP ball angle meter stop*	Ford: BA13-444W McDonald: 74604-B	No lead
2"	FIP x flg. ball angle meter stop*	Ford: BFA13-77W McDonald: 76101-MW	With elongated holes No lead
* High pressure assembly only, above 175 psi			
ADAPTERS			
1"	MIP x CTS comp adapter	Ford: C84-44Q McDonald: 74753-Q	No lead
2"	MIP x CTS comp adapter	Ford: C84-77Q McDonald: 74753-Q	No lead

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BALL VALVES			
1"	FIP ball valve	Ford: B11-444 McDonald: 76101 W	No lead
2"	FIP ball valve	Ford: B11-777 McDonald: 76101 W – SHDLB	No lead
1"	FIP ball valve with handle	Ford: B11-444W with HB34S McDonald: 76101W - SHDLB	No lead
2"	FIP ball valve with handle	Ford: B11-777W with HB67S McDonald: 76101W - SHDLB	No lead
¾"	FIP x meter nut ball valve with handle	Ford: B13-332W with HB34S McDonald: 76101MW - HDLB	No lead
1"	FIP x meter nut ball valve with handle	Ford: B13-444W with HB34S McDonald: 76101MW - HDLB	No lead
2"	FIP x flg ball valve with handle	Ford: BF13-777W with HB67S McDonald: 76101MW - SHLB	No lead
SADDLES			
1" & 2" IPT outlet	ACP, DIP	Jones: J-979 McDonald: 3826	Bronze body w/bronze double straps
1" & 2" IPT outlet	PVC (C-900)	Jones: J-969W McDonald: 3846	Bronze body with Stainless Steel 4 Bolt Single Strap
PRESSURE REGULATING VALVES			
¾", 1" & 2"		Wilkins: #600HR*	No lead
* All bronze body and bell housing and S.S. replaceable seat			
COPPER TUBING			
1" & 2"	Type "K" soft		
WATER METERS			
¾" (x 7 ½")	Box/vault sets shall have TR/PL registers, cu.ft. x 100	Sensus iPERL	7 ½" Lay length (MFR date within two years of scheduled unlock date)
1"	Box/vault sets shall have TR/PL registers, cu.ft. x 100	Sensus iPERL	(MFR date within two years of scheduled unlock date)

SIZE	DESCRIPTION	MANUFACTURER & MODEL NUMBER	NOTES
1 ½"	Box/vault sets shall have TR/PL registers, cu.ft. x 100	Invensys Omni T ²	Flanged ends, verify type (MFR date within one year of scheduled unlock date. Save Tags)
2"	Box/vault sets shall have TR/PL registers, cu.ft. x 100	Invensys Omni T ²	Flanged ends, verify type (MFR date within one year of scheduled unlock date. Save Tags)
3" – 6" meters shall be Invensys Omni T ² . Larger meters as approved by VWD			
GATE VALVES			
3" - 24"	All ductile iron body and bonnet, resilient wedge with factory epoxy with low zinc stem	AVK, Clow, Mueller	* AWWA C-515 * Mfr date within one year of installation
BUTTERFLY VALVES			
	CL 250: All flanged, ductile iron body, rubber in the body, with factory epoxy inside	Pratt	* AWWA C-504 * Mfr date within one year of installation
COMBINATION AIR AND VACUUM VALVES			
1"	**	APCO: 143-C A.R.I.: D-040	APCO: High Pressure ONLY Above 175 PSI
2"	**	APCO: 145-C A.R.I.: D-040	APCO: High Pressure ONLY Above 175 PSI
3"	**	APCO: 147-C	Per approved plans
4"	**	APCO: 149-C	Per approved plans
6"	**	APCO: 150-C	Per approved plans
** For APCO, all internal parts shall be stainless steel			
AUTOMATIC CONTROL VALVES			

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		Cla-Val	
DETECTOR CHECK VALVES			
2" - 10"		Cla-Val, Febco, Wilkins, Watts, Ames, Conbraco (all with iPERL bypass meter) *Individual model submittal will require approval by the District.	Double check detector or reduced pressure detector, depending on degree of hazard
VAULT LIDS			
	Type "J" or "JD"	Bilco, Syracuse	With all S.S. hardware, torsion bars, recessed locking hasp, hinged reading lid
FIRE HYDRANTS			
Residential Areas	One 4" & one 2 ½" outlets	Jones: J-3700 or J-4040C Clow: 2050 or 850	Bronze or Iron, 6 hole, 7/8" drilling, plastic caps
Multi-Res, Commercial & Industrial Areas	Two 4" & one 2 ½" outlets	Jones: J-3775 or J-4065C Clow: 2065 or 865	Bronze or Iron, 6 hole, 7/8" drilling, plastic caps
METER BOXES & LIDS			
3/4" Meter	Polymer Concrete #4 ½ (20K)	Armorcast: Box: A6000485 & Lid: A6000484-H2 or J & R: P-W4 ½-20K (DWG:4008)	
1"-2" Meter	Polymer Concrete #6B (20K)	Armorcast: Box: A6001640PCX12, Cover: A6001947TDZ-H2 & Lid Insert Lid: A60004842T or J & R: P-W6B-20K (DWG:6073)	
<p>#4 ½ meter boxes shall have one-piece polymer lids rated 20K max. load, with 2" touch read hole</p> <p>#6 meter boxes shall have two-piece polymer lids rated 20K max. load, with 2" touch read hole</p>			
TAPPING SLEEVES			
Size on Size	Cut-in flanged tee with valves and flex couplings		Fire and hydrant services only

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Reducing	Fabricated steel with fusion epoxy and S.S. nuts and bolts.	Smith-Blair: #622 – ALL PIPE Mueller MJ: H-619 - ACP	
Reducing	Fabricated all stainless steel with drop in bolts	Romac: SST – ALL PIPE Smith-Blair: #665 – ALL PIPE Powerseal: #3490AS – ALL PIPE	
FLANGED COUPLING ADAPTER			
	Epoxy	Romac: FCA 501 Smith-Blair: 912 (new style)	
FLEX COUPLINGS / TRANSITIONS			
	AC, DIP, CML&C, PVC	Romac: Alpha (restrained), Macro HP Smith Blair: 441 PowerSeal: 3506	MegaLug, Uni-Flange or TUFgrip on DIP transition, as approved
WATER DISTRIBUTION PIPE			
	Ductile Iron Pipe (DIP)* Class: x pressure	TJ, MJ	per approved plans
	Cement Mortar Lined and Coated 10 gauge steel pipe		per approved plans
	Polyvinyl Chloride (PVC) C900, DR14		per approved plans 6" – 12' dia.
* 8 mil clear polyethylene pipe sleeve on outside			
SEWER PIPE			
	PVC Pipe (12" and smaller)	SDR 35, Green	class per depth
	PVC Pipe (14"-36")	SDR 26, Green or DR-14	As approved by the District Engineer
* 8 mil clear polyethylene pipe sleeve on outside			
SEWER LATERALS			
	PVC Pipe	D-3034 SDR 35	
* 8 mil clear polyethylene pipe sleeve on outside			
MISCELLANEOUS			
	Ductile Iron Pipe (DIP)		6" non-det tape
	CML&C Steel Pipe		6" non-det tape

SIZE	DESCRIPTION	MANUFACTURER & MODEL NUMBER	NOTES
	PVC Water 3M DBY - 6 Direct Bury Splice Kit (600 Volts)	<u>APPROVAL REQUIRED</u>	6" det tape 10 ga. Solid blue tracer wire
	Grounding Clamps	LH Dottie DB 25 or approved equal	
	Anode: CP-Z15 (15lbs)	Northtown Company	Per Manufacturer Recommendation
	Snake Pit: Tracer Wire	Copperhead – CD14*2T-SW	Specify Color Blue
	PVC Sewer		6" det tape
	Tencate Mirafi	140N or approved equal	
	Ductile Iron Fittings, cement lined, C-110 or C-153	Star / Union Foundry Sigma - water only	Lining per approved plans. I.D. same as main (sewer)
	Paint	<u>Silicone PolyPlus - FCS Coatings</u> Blue: "Nat'l Blue" Yellow: "Safety Yellow"	FSC phone: (800) 579-8459

NOTES: All materials listed shall be installed in accordance with the most recent edition of the "Standard Specifications for Construction of Water and Sewer Facilities" of the Vallecitos Water District.