

APPROVED MATERIALS LIST
SERVICE MATERIALS

July 2017

REVISED 12/6/17

SIZE	DESCRIPTION	MANUFACTURER & MODEL NUMBER	NOTES
CORPORATION STOPS			
1"	MIP x GRIP Comp ball corp stop	Ford: FB 1100-4Q McDonald: 74704-BQ	No lead
2"	MIP x GRIP 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 150 psi			
ANGLE METER STOPS			
1"x 3/4"	CTS ball angle meter stop	Ford: BA43-342WQ McDonald: 74602-B	No lead
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 150 psi			
ADAPTERS			
1"	MIP x GRIP comp adapter	Ford: C84-44Q McDonald: 74753-Q	No lead
2"	MIP x GRIP comp adapter	Ford: C84-77Q McDonald: 74753-Q	No lead
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
1" & 2"	FIP Ball Valve 360 Degree Turn	McDonald: 76111 with 6122 square wrench adapter	Used at all buried locations

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-969 McDonald: 3846	Bronze body w/s.s. double strap

PRESSURE REGULATING VALVES

¾", 1" & 2"		Wilkins: #600HR*	No lead
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* All bronze body and bell housing and S.S. replaceable seat

COPPER TUBING

1" & 2"	Type "K" soft		
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WATER METERS

¾" (x 7 ½")	Provided by District		7 ½" Lay length
1"	Provided by District		
1 ½"	Provided by District		Flanged ends, verify type
2"	Provided by District		Flanged ends, verify type

3" – 6" meters shall be Invensys Omni T². Larger meters as approved by RDDMWD

GATE VALVES

3" - 12"	All ductile iron body and bonnet, resilient wedge with factory epoxy with low zinc stem	AVK, Clow, Mueller, AFC	* AWWA C-515 * Mfr date within one year of installation
BUTTERFLY VALVES			
14" and larger	CL 150: 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"	**	A.R.I.: D-040	Encl: Pipeline Prod. #VCAS 1424 GR w/Blue or Purple Band
2"	**	A.R.I.: D-040	Encl: Pipeline Prod. #VCAS 1424 GR w/Blue or Purple Band
3"	**		Per approved plans
4"	**		Per approved plans
6"	**		Per approved plans
** For APCO, all internal parts shall be stainless steel			
AUTOMATIC CONTROL VALVES			
		Cla-Val	
DETECTOR CHECK VALVES			
2" - 10"		Cla-Val, Febco, Wilkins, Watts, Ames, Conbraco (all with iPERL bypass meter)	reduced pressure detector assembly (RPDA)
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 AVK 2462X	Bronze or Iron, 6 hole, 7/8" drilling, plastic caps and chains
Multi-Res, Commercial & Industrial Areas	Two 4" & one 2 ½" outlets	Jones: J-3775 or J-4065C Clow: 2065 or 865 AVK 2468X	Bronze or Iron, 6 hole, 7/8" drilling, plastic caps and chains
METER BOXES			
3/4" Meter 2"-4" BO	Polymer Concrete #4 ½ (20K)	J & R Armorcast	
1"-2" Meter	Polymer Concrete #6B (20K)	J & R Armorcast	
<p>#4 ½ meter boxes shall have one-piece polymer lids rated 20K max. load, with 2" hole</p> <p>#4 ½ meter box used for blowoff shall have one piece polymer lids rated 20K</p> <p>#6 meter boxes shall have two-piece polymer lids rated 20K max. load, with 2" hole</p>			
TAPPING SLEEVES			
Size on Size	Cut-in flanged tee with valves and flex couplings		Fire and hydrant services only
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	
FITTINGS			
Same as main line	Ductile Iron, double-cement lined, C110 or C153	Star, Union Foundry, Sigma	Restrained MJ glands unless otherwise specified.
	Joint Restraints	EBBA Iron Megalug, Stargrip, JM Eagle Loc 900, RCT High Deflection,	Standard coating and bolts. Entire assembly to be wax taped and coated
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
	Polyvinyl Chloride (PVC) C900, DR14		per approved plans 6" – 12' dia.
* Double layer 8 mil clear polyethylene pipe sleeve on outside			
MISCELLANEOUS			
	Ductile Iron Pipe (DIP)		6" det tape
	CML&C Steel Pipe		6" det tape
	PVC Water 3M DBY-6 Direct Bury Splice Kit (600 Volts)	Approval Required	6" det tape 10 ga. Solid blue tracer wire
	PVC Sewer		6" det tape
	Valve Stem Extensions	Pipeline Products SX-906 or equal	Galvanized
	Water Sampling Enclosure	Armorcast P6002010-Hinged	
	Paint	Fire Hydrant: Rustoleum Safety Yellow All other: Forest Green	

NOTES:

- All materials listed shall be installed in accordance with the most recent edition of the "Standard Specifications for Construction of Water" of the Rincon Del Diablo Municipal Water District.
- All materials shall be utilized only within the pressure rating of the device.
- All valves shall have factory applied fusion bonded epoxy as follows: gate valves, inside and out; BFV, inside; plug valves, inside.
- 1" shall be the minimum size water service installed.
- All nuts and bolts for service saddles shall be brass.
- All corporation stops and angle meter stops shall be ball type, regardless of pressure class.
- For all 3/4" through 1" water meter installations with pressures greater than 150 psi, a pressure regulating valve shall be installed to protect the District meter. 1" high pressure water services will require a #6B meter box. For 1½" and larger water meter installations with pressures less than 200 psi, use Invensys Omni T² meters. For 1½" and larger water meter installations with pressures greater than 200 psi, a pressure regulating valve shall be installed to protect the District meter. Meter enclosure as approved by RDDMWD.
- 8" CL. 100 SDR41 white (PIP)