



City of Escondido

Utilities Approved Materials List - Potable Water/Recycled Water

last updated 5/5/09

Materials	Manufacturer (Series/Model No.)	Additional Requirements/Comments
Pipe 12" or smaller		PVC C-900
Pipe 14" or larger		CMLC Steel or Ductile Iron
Copper Services 1" and 2"		Type "K" soft copper. Silver solder all couplings in 1" (services over 100') and 2" (services over 2") and 90 degree slip fitting.
Double Strap Saddle w/ Stainless Steel Straps and FIP Threads	1" - Ford (202BS-XXX-IP4) 2" - Ford (202BS-XXX-IP7)	Flat Straps
Saddles 4" and larger	Ford (FAST-xxx-x)	All stainless body and flange.
Corporation Stop MIP x Compression	1" - Ford (FB1100-4QNL) 2" - Ford (FB1100-7QNL)	All Valves and Fittings shall meet California Assembly Bill 1953 No-lead rule.
Corporation Stop MIP x MIP	Ford (FB500-XXX-NL)	
Angle Ball Valve w/ Lock Wing. Inlet compression/outlet meter flange	1" - Ford (BA43-XXX-WQNL) 2" - Ford (BFA43-777-WQNL)	All Valves and Fittings shall meet California Assembly Bill 1953 No-lead rule.
90 Ell FIP x FIP	Ford (L11-XXX-NL)	All Valves and Fittings shall meet California Assembly Bill 1953 No-lead rule.
Adapter MIP x Compression	Ford (C84-XXX-NL)	All Valves and Fittings shall meet California Assembly Bill 1953 No-lead rule.
Brass Nipple MIP Threads		All Valves and Fittings shall meet California Assembly Bill 1953 No-lead rule.
Ball Valve FIP x Flare w/ handle	Ford (FB700-XXX-WNL) w/ handle HB34S	All Valves and Fittings shall meet California Assembly Bill 1953 No-lead rule.
2" Locking Ball Valve	Ford (B11-777-WNL)	All Valves and Fittings shall meet California Assembly Bill 1953 No-lead rule.
Ball Valve FIP x FIP w/ 1" x 3/4" Bushing	Ford (B11-444-WNL)	All Valves and Fittings shall meet California Assembly Bill 1953 No-lead rule.
Ball Valve FIP x FIP w/ handle	Ford (B11-XXX-WNL) w/ handle HB67S	
Straight Coupling	Ford (C28-44-NL)	All Valves and Fittings shall meet California Assembly Bill 1953 No-lead rule.
Combination Air Valves 1"	Cla-Val (1-33 AKCX)	
Combination Air Valves 2"	Cla-Val (2-33 AKCX)	
Combination Air Valves 4"	APCO (149C)	
Combination Air Valves 6"	APCO (150C)	
Fire Hydrants	Residential - Clow 850 / Industrial - Clow 865	



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Flex Couplings	Romac Industries "501"	With fusion epoxy coated center and end rings and 316 stainless steel bolts and nuts.
Nuts and Bolts		Type 316 stainless steel with "Anti-seize" compound applied during assembly.
Pressure Regulating Valve	Cla-Val	Epoxy coated with stainless steel trim. Required part number shall be supplied by Utilities Staff during plan approval process.
Pressure Regulating Valve Enclosure		Design of aboveground enclosures shall be provided by Utilities Staff during plan approval process.
Steel Weld Couplings		High pressure forged (3,000 psi steel) steel coupling, triple pass welded to pipe.
Valves 3" - 12"		Resilient Wedge, non-rising stem, flange by flange gate valves to conform to latest AWWA C-509 Specifications. All stainless steel trim.
Valves 14" - 20"	Pratt (2FII)	Flanged Butterfly Valve, MDT with buried service nut, to conform to latest AWWA C-504, Class 150B. All stainless steel trim.
Valves 24" and larger	Pratt Triton (XR-70)	Flanged Butterfly Valve, MDT with buried service nut, to conform to latest AWWA C-504, Class 150B. All stainless steel trim.



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Utilities Approved Materials List - Wastewater
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Materials	Manufacturer (Series/Model No.)	Additional Requirements/Comments
Piping 18" and smaller		PVC - SDR 35 (C-905 shall be used on force mains and in easements)
Piping Larger than 18"		High Density Polyethylene
Repair or Transition Couplings	Mission Flex-Seal Adjustable Repair Coupling (MR01) Fernco Strong Back Series Coupling	
Manhole Lining	Raven 405	
Sewer Lateral connections to main	Inserta Tee	
Air/Vacuum Release Valves	1" Combination Air Valve: APCO Model 443 2" Combination Air Valve: APCO Model 445 4" Combination Air Valve: APCO Model 449 6" Combination Air Valve: APCO Model 456 ARI (Model D-020/D-025)	