

City of Escondido

Utilities Approved Materials List - Potable Water/Recycled Water

last updated 12/10/20

SIZE	DESCRIPTION	MANUFACTURER	NOTES
PIPE			
12" or smaller	North American, Vinly Tech, Diamond		PVC C-900
14" or larger	US Pipe, American DIP, McWayne Pipe		CMLC steel or Ductile Iron
CORPORATION STOPS			
1" AND 2"	MIP X COMPRESSION BALL CORP STOP	FORD AY MCDONALD JONES MUELLER	QUICK JOINT COMPRESSION RING
1" AND 2"	MIP X MIP BALL CORP STOP	FORD AY MCDONALD JONES MUELLER	
ANGLE METER STOPS			
3/4" AND 1"	COMPRESSION X METER SWIVEL BALL ANGLE METER STOP	FORD AY MCDONALD JONES MUELLER	QUICK JOINT COMPRESSION RING 1" COMP X 3/4" METER NUT 1" COMP X 1" METER NUT
1-1/2" AND 2"	COMPRESSION X FLANGE BALL ANGLE METER STOP	FORD AY MCDONALD JONES MUELLER	QUICK JOINT COMPRESSION RING 2" COMP X 1-1/2" FLANGE 2" COMP X 2" FLANGE
SADDLES & TAPPING SLEEVES			
1" AND 2" SADDLES WITH FIP THREADS	ACP, DIP, & C-900	FORD AY MCDONALD JONES MUELLER	BRASS SADDLE WITH DOUBLE BAND STAINLESS STEEL STRAP SADDLE USED BASED ON SYSTEM PRESSURE (FOR C900, AC AND DIP). BRASS SADDLE W/DOUBLE BAND BRASS STRAP FOR AC AND DIP.
3" AND ABOVE TAPPING SLEEVES WITH FLANGE	ACP, DIP, & C-900	POWER SEAL, ROMAC, JCM, SMITH BLAIR, FORD	ALL STAINLESS STEEL HARDWARE AND BODY AND FLANGE. NO RUBBER GASKETS ON FLANGE.
COUPLINGS			
1" AND 2"	COMPRESSION X COMPRESSION MIP X COMPRESSION FIPXCOMPRESSION	FORD AY MCDONALD JONES MUELLER	USED ON COPPER TUBBING WHERE SHOWN OR APPROVED BY WATER DEPARTMENT ONLY
1" AND 2"	1" SWEAT X MALE SWEAT X SWEAT 1" SWEAT X MALE 2" SWEAT X SWEAT 2" SWEAT X SWEAT 90 ELL		USED ON COPPER TUBBING WHERE SHOWN OR APPROVED BY WATER DEPARTMENT ONLY

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COUPLINGS CONTINUED			
1" AND 2"	BRASS FIP X FIP		USED ON BRASS NIPPLES WHERE SHOWN OR APPROVED BY WATER DEPARTMENT ONLY
4" AND ABOVE	REPAIR, TRANSITION, CLOSURE	ROMAC 501 EPOXY COATED SS TRIM ROMAC MACRO EPOXY COATED SS TRIM SMITH BLAIR EPOXY COATED SS TRIM POWER SEAL EPOXY COATED	ACP, DIP, PVC, STEEL WHERE SHOWN OR APPROVED BY WATER DEPARTMENT ONLY
4" AND ABOVE	FLANGE COUPLING ADAPTER FCA	ROMAC 501 EPOXY COATED SS TRIM	ACP WHERE SHOWN OR APPROVED BY WATER DEPARTMENT ONLY
4" AND ABOVE	REPAIR COUPLINGS PVC (C-900)		C-900 WHERE SHOWN OR APPROVED BY WATER DEPARTMENT ONLY
COPPER TUBING			
1" AND 2"	TYPE "K" SOFT		1" ROLLED TUBING (SOLDER ON COUPLING ONLY ON SERVICES LONGER THAN 100' 2" SERVICES, SOLDER AT 20' AND 90 DEGREE ELL
SILVER SOLDER	15%		
SMALL FITTINGS			
1" AND 2"	BRASS FITTINGS ONLY		VARYING SIZES AND CONFIGURATIONS
VALVES			
3"-12"	GATE VALVE: RESILIENT WEDGE, NON RISING STEM, FLANGE BY FLANGE HOLIDAY FREE	MUELLER CLOW AFC	TO CONFORM TO LATEST AWWA C-509 SPECIFICATIONS. ALL STAINLESS STEEL TRIM
14"-20"	BUTTERFLY VALVE: MDT WITH BURIED SERVICE NUT HOLIDAY FREE	MUELLER PRATT	TO CONFORM TO LATEST AWWA C-504 SPECIFICATIONS. ALL STAINLESS STEEL TRIM CLASS 150B
24" AND ABOVE	BUTTERFLY VALVE: MDT WITH BURIED SERVICE NUT HOLIDAY FREE	MUELLER PRATT	TO CONFORM TO LATEST AWWA C-504 SPECIFICATIONS. ALL STAINLESS STEEL TRIM CLASS 150B

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COMBINATION AIR AND VACUUM VALVES			
1" AND 2"	COMBINATION AIR RELEASE VACUUM VALVE	1" CLA-VAL (1-33 AKCX) 2" CLA-VAL (2-33 AKCX)	EPOXY COATED (CLA-VAL BLUE)ALL STAINLESS STEEL
4" AND 6"	COMBINATION AIR RELEASE VACUUM VALVE	4" APCO (149C) 6" APCO (150C) CLA-VAL	EPOXY COATED -ALL STAINLESS STEEL
AUTOMATIC CONTROL VALVES			
2" AND ABOVE	AUTOMATIC PRESSURE REGULATING VALVE	CLA-VAL ALL STAINLESS STEEL TRIM	EPOXY COATED (CLA-VAL BLUE)ALL STAINLESS STEEL TRIM FLANGED
FIRE HYDRANTS			
RESIDENTIAL	ONE 4" AND ONE 2-1/2" OUTLETS	CLOW 850	
COMMERCIAL	TWO 4" AND ONE 2-1/2" OUTLETS	CLOW 865	
6" BURY ELL	PUSH-ON X FLANGE (C-900) FLANGE X FALNGE (STEEL & DI)		6 BOLT PATTERN
6" SPOOLS	FLANGE X FLANGE VARYING SIZES		6 BOLT PATTERN BREAK-OFF SCORE NO
6" BREAK-OFF SPOOL	FLANGE X FLANGE		6 BOLT PATTERN BREAK-OFF SCORE

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FIRE DETECTOR CHECK ASSEMBLY			
4"-10"	VALVES MUST BE OS&Y - STYLE OF ASSEMBLY CAN VARY PER AREA & APPLICATION	(USC APPROVED ASSEMBLY) - FEBCO, WILKINS,WATTS, OR AMES (3/4" WATER METER MUST BE PURCHASED FROM THE CITY OF ESCONDIDO)	(RPDA) REDUCED PRESSURE DETECTOR ASSEMBLY, (DCDA) DOUBLE CHECK DETECTOR ASSEMBLY ONLY WITH UTILITY APPROVAL
METER BOXES			
3/4" AND 1" METER	#4-1/2 POLYMER CONCRETE BOX WITH READER LID #4-1/2 CONCRETE BOX WITH LID		POLY BOX IN LANDSCAPED AREAS, CONCRETE BOX IN TRAFFIC AREAS
1-1/2" AND 2" METER	#6B POLYMER CONCRETE BOX WITH READER LID #6B CONCRETE BOX WITH READER LID		POLY BOX IN LANDSCAPED AREAS, CONCRETE BOX IN TRAFFIC AREAS
PIPE FITTINGS			
4" AND LARGER	STEEL WELD, FLANGE X FLANGE, FLANGE X PUSH-ON, PUSH-ON X PUSH-ON, MECHANICAL JOINT, RESTRAINED MECHANICAL JOINT	TYLER, STAR (NO PUSH-ON)	ALL STAINLESS STEEL TRIM AND HARDWARE