

Wrot Copper Solder-Joint Drainage Fittings

Dimensions of Soldered-Joint Ends (in inches) See Diagram Page 39

	Male End		F	emale En		Inside		
e Outside Diameter A		Length K	Inside D)iameter	Depth G	Metal Thickness T	Diameter of Fitting O	
Min.	Max.	Min.	Min.	Max.	Min.	Min.	Min.	
1.372	1.377	0.56	1.378	1.382	0.50	0.040	1.29	
1.621	1.627	0.62	1.628	1.633	0.56	0.042	1.53	
2.121	2.127	0.69	2.128	2.133	0.62	0.042	2.01	
3.121	3.127	0.81	3.128	3.133	0.75	1.045	2.98	
4.121	4.127	1.06	4.128	4.133	1.00	0.058	3.93	
	Min. 1.372 1.621 2.121 3.121	Min. Max. 1.372 1.377 1.621 1.627 2.121 2.127 3.121 3.127	A K Min. Max. Min. 1.372 1.377 0.56 1.621 1.627 0.62 2.121 2.127 0.69 3.121 3.127 0.81	Outside Diameter A Length K Inside Diameter K Min. Max. Min. Min. 1.372 1.377 0.56 1.378 1.621 1.627 0.62 1.628 2.121 2.127 0.69 2.128 3.121 3.127 0.81 3.128	Outside Diameter A Length K Inside Diameter F Min. Max. Min. Max. 1.372 1.377 0.56 1.378 1.382 1.621 1.627 0.62 1.628 1.633 2.121 2.127 0.69 2.128 2.133 3.121 3.127 0.81 3.128 3.133	Outside Diameter Length Inside Diameter Depth A K F G Min. Max. Min. Min. Max. Min. 1.372 1.377 0.56 1.378 1.382 0.50 1.621 1.627 0.62 1.628 1.633 0.56 2.121 2.127 0.69 2.128 2.133 0.62 3.121 3.127 0.81 3.128 3.133 0.75	Outside Diameter Length Inside Diameter Depth Metal Min. K F G T Min. Max. Min. Min. Max. Min. Min. 1.372 1.377 0.56 1.378 1.382 0.50 0.040 1.621 1.627 0.62 1.628 1.633 0.56 0.042 2.121 2.127 0.69 2.128 2.133 0.62 0.042 3.121 3.127 0.81 3.128 3.133 0.75 1.045	

Extracted from American National Standard Wrought Copper and Bronze Solder-Joint Drainage Fittings (ANSI B16.29) with permission of the publisher. The American Society of Mechanical Engineers, 3 Park Ave., New York, N.Y. 10016-5990

Wrot Copper Fittings Large Diameter Welded Design

Fitting Material:

Copper Alloy #122, Phosphorus Deoxidized-High Residual Phosphorus (DHP). Composition: 99% Copper; .015-.040% Phosphorus.

Weld Material:

Silicon Bronze. Meets speci cation American Welding Society (AWS) A5.7-91R and American Metals Society. (AMS) 4616 B

Weld Specifications:

Tensile Strength-Up to 58,000 PSI Yield Strength-Up to 25,000 PSI Elongation in 2"-53% to 55% Hardness-80 to 100 Brinell (500kg. Load) Temperature: Melt 1832;F, Flow 1931;F.

Method of Joining: Electric Weld.

Dimensions & Specifications:

EPC Welded ttings are produced in accordance with speci cations shown in Manufactures Standardization Society (MSS) SP-109 for wrought copper, and copper alloy solder-joint pressure ttings.

Testing:

Each tting is individually tested with air under water. The burst pressure of EPC welded ttings exceeds the recommended working pressure of comparable diameter, annealed, straight, seamless ASTM B88-96-A type L copper water tube by a safety factor

Copper Water Tube-Standard Dimensions and Weights

Outside Dia., In.	Inside Diameter, Inches				Wall Thickness, Inches				†Pounds per Linear Foot			
Types K-L-M- DWV	Type K	Type L	Type M	Type DWV	Туре К	Type L	Туре М	Type DWV	Type K	Type L	Type M	Type DWV
.375	.305	.315	-	-	.035	.030	.025	-	.145	.126	.106	-
.500	.402	.430	-	-	.049	.035	.025	-	.269	.198	.145	-
.625	.527	.545	-	-	.049	.040	.028	-	.344	.285	.204	-
.750	.652	.666	-	-	.049	.042	.030	-	.418	.362	.263	-
.875	.745	.785	-	-	.065	.045	.032	-	.641	.455	.328	-
1.125	.995	1.025	-	-	.065	.050	.035	-	.839	.655	.465	-
1.375	1.245	1.265	1.291	1.295	.065	.055	.042	.040	1.04	.884	.682	.650
1.625	1.481	1.505	1.527	1.541	.072	.060	.049	.042	1.36	1.14	.940	.809
2.125	1.959	1.985	2.009	2.041	.083	.070	.058	.042	2.06	1.75	1.46	1.07
2.625	2.435	2.465	2.495	-	.095	.080	.065	-	2.93	2.48	2.03	-
3.125	2.907	2.945	2.981	3.035	.109	.090	.072	.045	4.00	3.33	2.68	1.69
3.625	3.385	3.425	3.459	-	.120	.100	.083	-	5.12	4.29	3.58	-
4.125	3.857	3.905	3.935	4.009	.134	.110	.095	.058	6.51	5.38	4.66	2.87
5.125	4.805	4.875	4.907	4.981	.160	.125	.109	.072	9.67	7.61	6.66	4.43
6.125	5.741	5.845	5.881	5.959	.192	.140	.122	.083	13.9	10.2	8.92	6.10
8.125	7.583	7.725	7.785	-	.271	.200	.170	-	25.9	19.3	16.5	-
	Outside Dia., In. Types K-L-M- DWV .375 .500 .625 .750 .875 1.125 1.375 1.625 2.125 2.625 3.125 3.625 4.125 5.125 6.125	Outside Dia., In. Insi Types K-L-M- DWV Type K .375 .305 .500 .402 .625 .527 .750 .652 .875 .745 1.125 .995 1.375 1.245 1.625 1.481 2.125 2.907 3.625 3.385 4.125 3.857 5.125 4.805 6.125 5.741	Outside Dia., In. Insite Diam Types K-L-M- DWV Type K Type K .375 .305 .315 .500 .402 .430 .625 .527 .545 .750 .652 .666 .875 .745 .785 1.125 .995 1.025 1.375 1.245 1.265 1.625 1.481 1.505 2.125 1.959 1.985 2.625 2.435 2.465 3.125 2.907 2.945 3.625 3.385 3.425 4.125 3.857 3.905 5.125 4.805 4.875 6.125 5.741 5.845	Outside Dia., In. Inside Diameter, Inch Types K-L-M- DWV Type K Type K Type K Type M Type M Type M .375 .305 .315 - .500 .402 .430 - .625 .527 .545 - .750 .652 .666 - .875 .745 .785 - 1.125 .995 1.025 - 1.375 1.245 1.265 1.291 1.625 1.481 1.505 1.527 2.125 1.959 1.985 2.009 2.625 2.435 2.465 2.495 3.125 2.907 2.945 2.981 3.625 3.385 3.425 3.459 4.125 3.857 3.905 3.935 5.125 4.805 4.875 4.907 6.125 5.741 5.845 5.881	Outside Dia., In. Inside Diameter, Inches Types K-L-M- DWV Type K Type K Type K Type M Type M Type M Type M Type DWV .375 .305 .315 - - .500 .402 .430 - - .625 .527 .545 - - .750 .652 .666 - - .750 .652 .666 - - .875 .745 .785 - - .125 .995 1.025 - - 1.375 1.245 1.265 1.291 1.295 1.625 1.481 1.505 1.527 1.541 2.125 1.959 1.985 2.009 2.041 2.625 2.435 2.465 2.495 - 3.125 2.907 2.945 2.981 3.035 3.625 3.385 3.425 3.459 - 4.125	Outside Dia., In. Inside Diameter, Inches Wal Types K-L-M- DWV Type K Type K Type K Type K Type K Type K Type K Type K Wal .375 .305 .315 - - .035 .500 .402 .430 - - .049 .625 .527 .545 - - .049 .750 .652 .666 - - .049 .875 .745 .785 - - .065 1.125 .995 1.025 - - .065 1.375 1.245 1.265 1.291 1.295 .065 1.625 1.481 1.505 1.527 1.541 .072 2.125 1.959 1.985 2.009 2.041 .083 2.625 2.435 2.465 2.495 - .095 3.125 2.907 2.945 2.981 3.035 .109	Outside Dia., In. Inside Diameter, Inches Wall Thickn Types K-L-M- DWV Type K Type L Type M Type M Type C Type K Type L Type L Type L Type L Type L Type L Type L Type L Type L Type L	Outside Dia., In. Inside Diameter, Inches Wall Thickness, In Types K-L-M- DWV Type K Type K Type K Type L Type M Type M Type DWV Type K Type L Type M Type M Type DWV Type K Type L Type M Type M Type DWV Type K Type L Type M Type M Type M Type DWV Type K Type L Type M Type M Type M Type M Type M Type L Type M	Outside Dia., In. Inside Diameter, Inches Wall Thickness, Inches Types K-L-M- DWV Type K Type C Type M Type DWV Type K Type C Type M Type DWV .375 .305 .315 - - .035 .030 .025 - .500 .402 .430 - - .049 .040 .028 - .625 .527 .545 - - .049 .042 .030 - .750 .652 .666 - - .049 .042 .030 - .875 .745 .785 - - .065 .050 .032 - 1.125 .995 1.025 - - .065 .055 .042 .040 1.625 1.481 1.505 1.527	Outside Dia., In. Inside Diameter, Inches Wall Thickness, Inches tpot Types K-L-M- DWV Type K Type L Type L Type M Type M Type DWV Type K Type L Type M Type DWV Type K Type DWV Type M Type DWV Type M Type DWV Type M Type DWV Type M Type DWV	Outside Dia., In. Inside Diameter, Inches Wall Thickness, Inches tPounds per Types K-L-M- DWV Type K Type L Type M Type M Type DWV Type K Type L Type M Type DWV Type K Type L Type M Type L Type M Type L Type K Type M Type M Type L Type K Type L Type M Type DWV Type K Type L Type M Type L Type L	Outside Dia., In. Inside Diameter, Inches Wall Thickness, Inches †Pounds per Linear R Types K-L-M- DWV Type K Type L Type M Type M Type DWV Type K Type L Type M