



# ACR Copper Fittings

## TECHNICAL SPECIFICATIONS SUBMITTAL FORM

Job Name:	Submittal Date:	Wholesaler:
Job Location:	Engineer/Architect:	Contractor:

### Product Use:

ACR Copper Fittings for use in HVAC and Refrigeration Applications.

### Design and Features:

- NDL ensures copper quality content and strict adherence to meet or exceed ASME B16.22 standards for wall thickness.
- Our ACR copper fittings are tested for actual burst pressure and approved by TSSA with 4.5 times safety margin.
- Each fitting is marked with OD size for easy field identification.
- Fittings are poly-bagged within the box, keeping them clean and contaminant-free prior to installation.
- The fittings have tight tolerances on the cup side for a stronger joint with the tube and easier brazing.
- The unparalleled NDL 10 Year Ultimate Protection Warranty will cover the loss of refrigerant and labor to replace the failed fitting.
- Our copper fittings have zero reported failures since 1999.

### Design and Features:

- TSSA
- CRN Approved
- ANSI/ASME B16.22
- UL Certified (SA45869) for sizes up to and including 2-5/8"

### Design Pressure Table (Based on UL Certification - SA45869)

SIZE (IN)	PSI (AT 250 °F)	BAR (AT 121 °C)
1/4"	1000	68.9
3/8"	1000	68.9
1/2"	1000	68.9
5/8"	1000	68.9
3/4"	1000	68.9
7/8"	900	62
1-1/8"	700	48.2
1-3/8"	700	48.2
1-5/8"	700	48.2
2-1/8"	700	48.2
2-5/8"	700	48.2

**Above 2-5/8" according to ASME B16.22**





# Female Adapters

## Female Adapter Dimensions and Selection

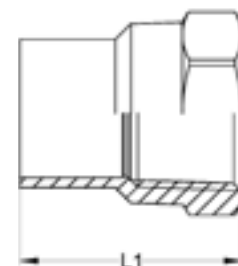
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
W1205	1/4" x 3/8" Female Adapter	100	-	0.051	23.0
W1206	1/4" x 1/4" Female Adapter	100	-	0.051	23.0
W1207	1/4" x 1/8" Female Adapter	100	-	0.033	15.0
W1214	3/8" x 3/8" Female Adapter	50	-	0.051	23.0
W1215	3/8" x 1/4" Female Adapter	50	0.906	0.033	15.0
W1224	1/2" x 1/2" Female Adapter	50	1.181	0.090	41.0
W1225	1/2" x 3/8" Female Adapter	50	-	0.060	27.0
W1230	5/8" x 3/4" Female Adapter	25	1.299	0.110	50.0
W1231	5/8" x 1/2" Female Adapter	50	1.122	0.079	36.0
W1232	5/8" x 3/8" Female Adapter	50	0.945	0.079	36.0
W1233	5/8" x 1/4" Female Adapter	EA	-	0.051	23.0
W1238	3/4" x 3/4" Female Adapter	25	1.457	0.141	64.0
W1239	3/4" x 1/2" Female Adapter	50	-	0.110	50.0
W1245	7/8" x 1" Female Adapter	25	-	0.231	105.0
W1246	7/8" x 3/4" Female Adapter	25	1.437	0.141	64.0
W1247	7/8" x 1/2" Female Adapter	25	-	0.090	41.0
W1229	1" x 5/8" Female Adapter	EA	-	0.231	105.0
W1263	1-1/8" x 1" Female Adapter	25	1.732	0.229	104.0
W1271	1-3/8" x 1-1/4" Female Adapter	10	1.909	0.331	150.0
W1279	1-5/8" x 1-1/2" Female Adapter	10	2.126	0.459	208.0
W1287	2-1/8" x 2" Female Adapter	5	2.421	0.705	320.0
W1296	2-5/8" x 2-1/2" Female Adapter	EA	-	1.327	602.0

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# Male Adapters

## Male Adapter Dimensions and Selection

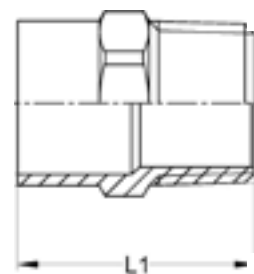
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
W1105	1/4" x 3/8" Male Adapter	50	-	0.040	18.0
W1106	1/4" x 1/4" Male Adapter	50	-	0.040	18.0
W1113	3/8" x 1/2" Male Adapter	50	-	0.079	36.0
W1115	3/8" x 1/4" Male Adapter	50	-	0.031	14.0
W1123	1/2" x 3/4" Male Adapter	25	-	0.128	58.0
W1124	1/2" x 1/2" Male Adapter	25	-	0.079	36.0
W1125	1/2" x 3/8" Male Adapter	50	-	0.044	20.0
W1130	5/8" x 3/4" Male Adapter	25	1.378	0.130	59.0
W1131	5/8" x 1/2" Male Adapter	25	-	0.071	32.0
W1132	5/8" x 3/8" Male Adapter	50	0.965	0.079	36.0
W1138	3/4" x 3/4" Male Adapter	25	1.584	0.141	64.0
W1139	3/4" x 1/2" Male Adapter	25	-	0.084	38.0
W1145	7/8" x 1" Male Adapter	10	2.106	0.220	100.0
W1146	7/8" x 3/4" Male Adapter	50	1.378	0.128	58.0
W1147	7/8" x 1/2" Male Adapter	25	-	0.130	59.0
W1163	1-1/8" x 1" Male Adapter	25	1.673	0.229	104.0
W1164	1-1/8" x 3/4" Male Adapter	25	1.791	0.190	86.0
W1171	1-3/8" x 1-1/4" Male Adapter	20	1.693	0.331	150.0
W1172	1-3/8" x 1" Male Adapter	10	1.969	0.280	127.0
W1179	1-5/8" x 1-1/2" Male Adapter	10	1.909	0.461	209.0
W1180	1-5/8" x 1-1/4" Male Adapter	10	1.929	0.450	204.0
W1187	2-1/8" x 2" Male Adapter	5	2.264	0.710	322.0
W1188	2-1/8" x 1-1/2" Male Adapter	10	-	0.772	350.0
W1197	2-5/8" x 2" Male Adapter	EA	-	1.001	454.0
W1196	2-5/8" x 2-1/2" Male Adapter	4	-	1.292	586.0
W1199	3-1/8" x 3" Male Adapter	EA	-	2.022	917.0

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# Reducing Bushings

## Reducing Bushing Dimensions and Selection

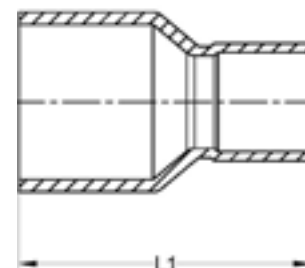
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
W1306	3/8" x 1/4" Reducing Bushing	50	0.827	0.009	4.1
W1312	1/2" x 3/8" Reducing Bushing	50	0.945	0.015	6.8
W1314	1/2" x 1/4" Reducing Bushing	50	0.994	0.014	6.5
W1315	5/8" x 1/2" Reducing Bushing	50	1.240	0.027	12.1
W1317	5/8" x 3/8" Reducing Bushing	50	1.193	0.027	12.4
W1320	3/4" x 5/8" Reducing Bushing	50	1.406	0.041	18.5
W1321	3/4" x 1/2" Reducing Bushing	50	1.437	0.038	17.3
W1325	7/8" x 3/4" Reducing Bushing	50	1.693	0.067	30.3
W1326	7/8" x 5/8" Reducing Bushing	50	1.610	0.066	30.0
W1327	7/8" x 1/2" Reducing Bushing	50	1.575	0.065	29.5
W1328	7/8" x 3/8" Reducing Bushing	50	1.555	0.065	29.4
W1337	1-1/8" x 7/8" Reducing Bushing	25	2.063	0.115	52.0
W1338	1-1/8" x 3/4" Reducing Bushing	25	1.886	0.104	47.0
W1339	1-1/8" x 5/8" Reducing Bushing	25	1.858	0.106	48.0
W1340	1-1/8" x 1/2" Reducing Bushing	25	1.850	0.108	49.0
W1343	1-3/8" x 1-1/8" Reducing Bushing	10	2.240	0.174	78.9
W1345	1-3/8" x 7/8" Reducing Bushing	10	2.195	0.146	66.2
W1347	1-3/8" x 5/8" Reducing Bushing	10	2.063	0.15	68.0
W1350	1-5/8" x 1-3/8" Reducing Bushing	10	2.496	0.236	107.0
W1351	1-5/8" x 1-1/8" Reducing Bushing	10	2.638	0.24	108.9
W1353	1-5/8" x 7/8" Reducing Bushing	10	2.457	0.231	104.8
W1355	1-5/8" x 5/8" Reducing Bushing	10	2.339	0.231	104.8
W1358	2-1/8" x 1-5/8" Reducing Bushing	15	3.031	0.419	190.1
W1359	2-1/8" x 1-3/8" Reducing Bushing	15	2.992	0.37	167.8
W1360	2-1/8" x 1-1/8" Reducing Bushing	15	3.071	0.37	167.8
W1362	2-1/8" x 7/8" Reducing Bushing	15	2.953	0.386	175.1

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## Reducing Bushings - Continued

### Reducing Bushing Dimensions and Selection

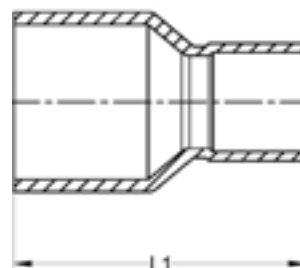
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
W1364	2-1/8" x 5/8" Reducing Bushing	15	2.894	0.386	175.1
W1367	2-5/8" x 2-1/8" Reducing Bushing	12	3.465	0.644	292.1
W1368	2-5/8" x 1-5/8" Reducing Bushing	15	3.366	0.6	272.2
W1369	2-5/8" x 1-3/8" Reducing Bushing	15	3.287	0.617	279.9
W1370	2-5/8" x 1-1/8" Reducing Bushing	10	3.465	0.551	249.9
W1376	3-1/8" x 2-5/8" Reducing Bushing	6	3.815	0.904	410.0
W1377	3-1/8" x 2-1/8" Reducing Bushing	6	3.878	0.904	410.0
W1379	3-1/8" x 1-3/8" Reducing Bushing	6	3.858	0.882	400.1
W1381	3-5/8" x 3-1/8" Reducing Bushing	4	4.134	1.378	625.0
W1383	3-5/8" x 2-1/8" Reducing Bushing	4	4.429	1.499	679.9
W1387	4-1/8" x 3-1/8" Reducing Bushing	2	4.756	1.984	899.9
W1388	4-1/8" x 2-5/8" Reducing Bushing	2	4.803	2.028	919.9

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## Cap Dimensions and Selection

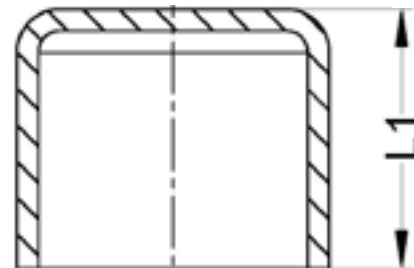
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	W7002	1/4" Cap	50	0.299	0.003	1.5
	W7004	3/8" Cap	100	0.394	0.005	2.3
	W7006	1/2" Cap	50	0.433	0.009	4.0
	W7007	5/8" Cap	100	0.571	0.015	7.0
	W7008	3/4" Cap	50	0.720	0.026	12.0
	W7009	7/8" Cap	50	0.870	0.033	15.0
	W7011	1-1/8" Cap	50	0.984	0.066	30.0
	W7012	1-3/8" Cap	25	1.114	0.104	47.0
	W7013	1-5/8" Cap	25	1.244	0.148	67.0
	W7014	2-1/8" Cap	10	1.528	0.265	120.0
	W7015	2-5/8" Cap	10	1.673	0.441	200.0
	W7016	3-1/8" Cap	2	1.890	0.540	245.0
	W7018	4-1/8" Cap	EA	2.165	1.257	570.0
	W7020	6-1/8" Cap	EA	2.362	0.000	0.0

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# No Stop Couplings

## No Stop Coupling Dimensions and Selection

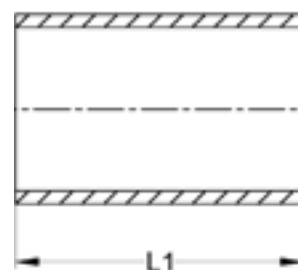
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	W1900	1/4" No Stop Coupling	100	0.555	0.006	2.5
	W1901	3/8" No Stop Coupling	50	0.709	0.009	4.0
	W1902	1/2" No Stop Coupling	50	0.807	0.015	6.9
	W1903	5/8" No Stop Coupling	100	1.051	0.024	11.0
	W1904	3/4" No Stop Coupling	25	1.276	0.044	20.0
	W1905	7/8" No Stop Coupling	50	1.642	0.088	40.0
	W1906	1-1/8" No Stop Coupling	25	1.874	0.106	48.0
	W1907	1-3/8" No Stop Coupling	25	1.953	0.165	74.8

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# Reducing Couplings

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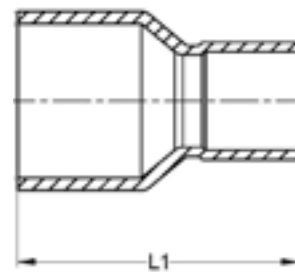
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
W1010	3/8" x 5/16" Reducing Coupling	50	0.807	0.011	5.0
W1011	3/8" x 1/4" Reducing Coupling	50	0.791	0.010	4.6
W1019	1/2" x 3/8" Reducing Coupling	50	0.953	0.017	7.6
W1021	1/2" x 1/4" Reducing Coupling	50	0.974	0.016	7.1
W1023	5/8" x 1/2" Reducing Coupling	100	1.169	0.033	15.1
W1025	5/8" x 3/8" Reducing Coupling	100	1.142	0.033	15.0
W1027	5/8" x 1/4" Reducing Coupling	100	1.240	0.035	15.8
W1029	3/4" x 5/8" Reducing Coupling	100	1.457	0.045	20.6
W1030	3/4" x 1/2" Reducing Coupling	100	1.319	0.046	21.0
W1031	3/4" x 3/8" Reducing Coupling	100	1.402	0.040	18.0
W1035	7/8" x 3/4" Reducing Coupling	50	1.626	0.072	32.5
W1036	7/8" x 5/8" Reducing Coupling	50	1.594	0.075	34.0
W1037	7/8" x 1/2" Reducing Coupling	50	1.575	0.061	27.8
W1038	7/8" x 3/8" Reducing Coupling	50	1.480	0.056	25.4
W1049	1-1/8" x 7/8" Reducing Coupling	25	2.059	0.121	55.0
W1050	1-1/8" x 3/4" Reducing Coupling	25	1.941	0.115	52.0
W1051	1-1/8" x 5/8" Reducing Coupling	25	1.906	0.115	52.0
W1052	1-1/8" x 1/2" Reducing Coupling	25	1.839	0.099	45.0
W1056	1-3/8" x 1-1/8" Reducing Coupling	10	2.307	0.187	85.0
W1058	1-3/8" x 7/8" Reducing Coupling	10	2.220	0.172	78.0
W1060	1-3/8" x 5/8" Reducing Coupling	10	2.126	0.165	75.0
W1064	1-5/8" x 1-3/8" Reducing Coupling	10	2.608	0.287	130.0
W1065	1-5/8" x 1-1/8" Reducing Coupling	10	2.539	0.247	112.0
W1067	1-5/8" x 7/8" Reducing Coupling	10	2.492	0.255	115.5
W1069	1-5/8" x 5/8" Reducing Coupling	10	2.362	0.209	95.0
W1073	2-1/8" x 1-5/8" Reducing Coupling	15	3.031	0.397	180.0

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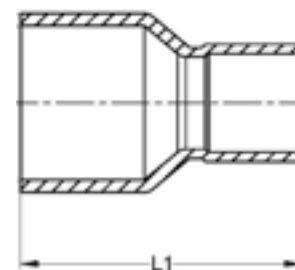
PART #	OD - DESCRIPTION	BOX QTY	L (IN)	WT (LB)	WT (G)
W1074	2-1/8" x 1-3/8" Reducing Coupling	15	2.972	0.384	174.0
W1075	2-1/8" x 1-1/8" Reducing Coupling	15	3.012	0.366	166.0
W1079	2-1/8" x 5/8" Reducing Coupling	15	2.854	0.397	180.0
W1083	2-5/8" x 2-1/8" Reducing Coupling	12	3.472	0.679	308.0
W1084	2-5/8" x 1-5/8" Reducing Coupling	12	3.484	0.679	308.0
W1085	2-5/8" x 1-3/8" Reducing Coupling	12	3.346	0.661	300.0
W1086	2-5/8" x 1-1/8" Reducing Coupling	12	3.543	0.606	275.0
W1093	3-1/8" x 2-5/8" Reducing Coupling	6	4.008	1.019	462.0
W1094	3-1/8" x 2-1/8" Reducing Coupling	6	3.858	0.957	434.0
W1095	3-1/8" x 1-5/8" Reducing Coupling	6	3.878	0.882	400.0
W10110	4-1/8" x 2-5/8" Reducing Coupling	EA	4.941	2.094	950.0
W10109	4-1/8" x 3-1/8" Reducing Coupling	EA	4.921	2.094	950.0

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# Roll Stop Couplings

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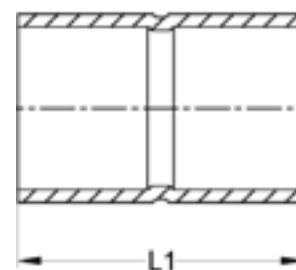
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	W1003	1/4" Roll Stop Coupling	100	0.630	0.006	2.7
	W1009	3/8" Roll Stop Coupling	50	0.720	0.009	4.2
	W1017	1/2" Roll Stop Coupling	50	0.886	0.016	7.1
	W1022	5/8" Roll Stop Coupling	100	1.110	0.030	13.5
	W1028	3/4" Roll Stop Coupling	50	1.354	0.043	19.5
	W1034	7/8" Roll Stop Coupling	50	1.642	0.091	41.5
	W1047	1-1/8" Roll Stop Coupling	25	1.957	0.151	68.5
	W1055	1-3/8" Roll Stop Coupling	25	2.055	0.165	75.0
	W1063	1-5/8" Roll Stop Coupling	10	2.323	0.245	111.0
	W1072	2-1/8" Roll Stop Coupling	6	2.854	0.425	193.0
	W1082	2-5/8" Roll Stop Coupling	4	3.256	0.723	328.0
	W1092	3-1/8" Roll Stop Coupling	4	3.689	1.030	467.0
	W10100	3-5/8" Roll Stop Coupling	EA	4.193	1.373	623.0
	W10107	4-1/8" Roll Stop Coupling	EA	4.693	2.094	950.0

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# Stake Stop Couplings

## Stake Stop Coupling Dimensions and Selection

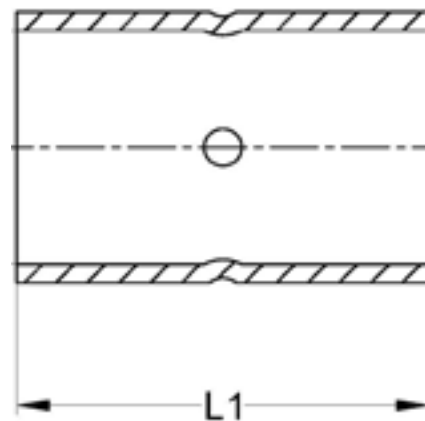
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	W10142	5/16" Stake Stop Coupling	100	0.740	0.008	3.8
	W10143	3/8" Stake Stop Coupling	EA	-	0.000	0.0
	W10146	7/8" Stake Stop Coupling	EA	-	0.000	0.0

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# 45° Elbows

## 45° Elbow Dimensions and Selection

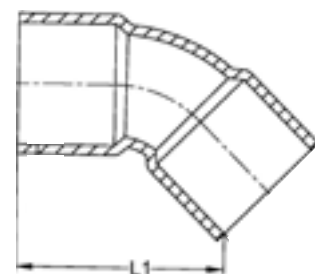
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
W3005	1/4" 45° Elbow	100	0.665	0.008	3.8
W3012	3/8" 45° Elbow	50	0.752	0.013	6.0
W3021	1/2" 45° Elbow	50	0.866	0.033	15.0
W3026	5/8" 45° Elbow	50	1.102	0.038	17.3
W3030	3/4" 45° Elbow	50	1.319	0.068	31.0
W3034	7/8" 45° Elbow	25	1.587	0.104	47.0
W3044	1-1/8" 45° Elbow	25	2.008	0.190	86.0
W3050	1-3/8" 45° Elbow	10	2.087	0.278	126.0
W3055	1-5/8" 45° Elbow	10	2.382	0.375	170.0
W3059	2-1/8" 45° Elbow	10	2.756	0.602	273.0
W3063	2-5/8" 45° Elbow	4	3.260	1.102	500.0
W3067	3-1/8" 45° Elbow	2	3.484	1.612	731.0

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# 45° Street Elbows

## 45° Street Elbow Dimensions and Selection

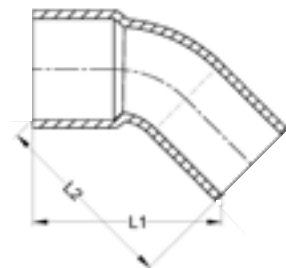
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
W3305	1/4" 45° Street Elbow	EA	0.732	0.720	0.008	3.8
W3312	3/8" 45° Street Elbow	100	0.827	0.764	0.014	6.5
W3321	1/2" 45° Street Elbow	100	0.906	0.886	0.028	12.7
W3326	5/8" 45° Street Elbow	50	1.201	1.220	0.038	17.2
W3330	3/4" 45° Street Elbow	50	1.398	1.398	0.066	30.0
W3334	7/8" 45° Street Elbow	25	1.654	1.675	0.099	45.0
W3344	1-1/8" 45° Street Elbow	25	1.925	1.925	0.179	81.0
W3350	1-3/8" 45° Street Elbow	10	2.157	2.142	0.254	115.0
W3355	1-5/8" 45° Street Elbow	10	2.402	2.386	0.351	159.0
W3359	2-1/8" 45° Street Elbow	5	2.843	2.862	0.619	281.0
W3363	2-5/8" 45° Street Elbow	2	3.346	3.366	1.080	490.0

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# 90° Long Radius Elbows

## 90° Long Radius Elbow Dimensions and Selection

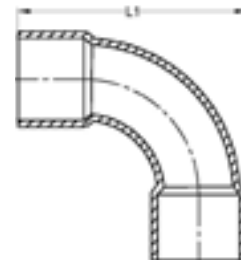
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
W2715	1/4" 90° Long Radius Elbow (C x C)	50	0.906	0.014	6.3
W2710	5/16" 90° Long Radius Elbow (C x C)	50	1.087	0.022	10.0
W2716	3/8" 90° Long Radius Elbow (C x C)	50	1.319	0.051	23.0
W2717	1/2" 90° Long Radius Elbow (C x C)	50	1.457	0.051	23.0
W2722	5/8" 90° Long Radius Elbow (C x C)	50	1.764	0.088	40.0
W2622	5/8" 90° Long Radius Elbow (FTG x FTG)	50	1.764	0.088	39.9
W2728	3/4" 90° Long Radius Elbow (C x C)	50	2.177	0.104	47.0
W2734	7/8" 90° Long Radius Elbow (C x C)	25	2.461	0.199	90.3
W2747	1-1/8" 90° Long Radius Elbow (C x C)	10	3.071	0.401	182.0
W2055	1-3/8" 90° Long Radius Elbow (C x C)	10	3.614	0.417	189.0
W2650	1-3/8" 90° Long Radius Elbow (FTG x FTG)	10	3.614	0.412	186.9
W2063	1-5/8" 90° Long Radius Elbow (C x C)	5	4.236	0.575	261.0
W2655	1-5/8" 90° Long Radius Elbow (FTG x FTG)	5	4.236	0.573	259.9
W2072	2-1/8" 90° Long Radius Elbow (C x C)	5	5.402	1.174	532.3
W2659	2-1/8" 90° Long Radius Elbow (FTG x FTG)	5	5.402	1.167	529.3
W2082	2-5/8" 90° Long Radius Elbow (C x C)	2	6.543	1.896	860.0
W2092	3-1/8" 90° Long Radius Elbow (C x C)	EA	7.963	3.230	1465.0
W2093	3-5/8" 90° Long Radius Elbow (C x C)	EA	8.750	5.732	2600.0
W2095	4-1/8" 90° Long Radius Elbow (FTG x FTG)	EA	10.246	6.812	3090.0

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# 90° Long Radius Reducing Elbows

## 90° Long Radius Reducing Elbow Dimensions and Selection

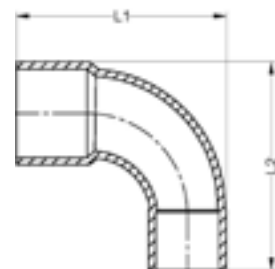
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
W2723	5/8" x 1/2" 90° Long Radius Reducing Elbow	50	1.713	1.614	0.088	40.0
W2735	7/8" x 3/4" 90° Long Radius Reducing Elbow	25	-	-	0.132	60.0
W2736	7/8" x 5/8" 90° Long Radius Reducing Elbow	50	-	-	0.132	60.0
W2749	1-1/8" x 7/8" 90° Long Radius Reducing Elbow	10	2.717	2.539	0.276	125.0
W2756	1-3/8" x 1-1/8" 90° Long Radius Reducing Elbow	10	3.327	3.110	0.430	195.0
W2064	1-5/8" x 1-3/8" 90° Long Radius Reducing Elbow	5	-	-	0.441	200.0
W2073	2-1/8" x 1-5/8" 90° Long Radius Reducing Elbow	2	-	-	0.882	400.0

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# 90° Long Radius Street Elbows

## 90° Long Radius Street Elbow Dimensions and Selection

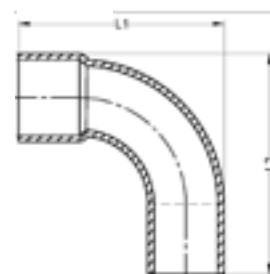
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
W2809	3/8" 90° Long Radius Street Elbow	50	1.260	1.350	0.043	19.4
W2817	1/2" 90° Long Radius Street Elbow	50	1.407	1.516	0.049	22.0
W2822	5/8" 90° Long Radius Street Elbow	50	1.654	1.752	0.057	26.0
W2828	3/4" 90° Long Radius Street Elbow	25	2.126	2.220	0.101	46.0
W2834	7/8" 90° Long Radius Street Elbow	25	2.390	2.480	0.196	89.0
W2847	1-1/8" 90° Long Radius Street Elbow	10	2.972	3.071	0.269	122.0
W2350	1-3/8" 90° Long Radius Street Elbow	10	3.543	3.642	0.412	187.0
W2355	1-5/8" 90° Long Radius Street Elbow	5	4.173	4.311	0.573	260.0
W2359	2-1/8" 90° Long Radius Street Elbow	5	5.295	5.472	1.167	529.2
W2363	2-5/8" 90° Long Radius Street Elbow	2	6.457	6.594	1.883	854.0
W2368	3-1/8" 90° Long Radius Street Elbow	EA	7.876	7.935	3.307	1500.0
W2393	3-5/8" 90° Long Radius Street Elbow	EA	8.642	8.817	5.732	2600.0
W2395	4-1/8" 90° Long Radius Street Elbow	EA	10.157	10.297	6.812	3090.0

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# 90° Short Radius Elbows

## 90° Short Radius Elbow Dimensions and Selection

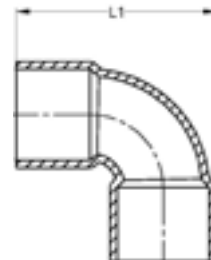
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
W2003	1/4" 90° Short Radius Elbow	50	0.819	0.014	6.5
W2009	3/8" 90° Short Radius Elbow	50	0.957	0.036	16.5
W2017	1/2" 90° Short Radius Elbow	50	1.193	0.031	14.2
W2022	5/8" 90° Short Radius Elbow	50	1.516	0.098	44.5
W2028	3/4" 90° Short Radius Elbow	50	1.929	0.090	41.0
W2034	7/8" 90° Short Radius Elbow	50	2.083	0.121	55.0
W2047	1-1/8" 90° Short Radius Elbow	25	2.657	0.238	108.0
W2084	1-3/8" 90° Short Radius Elbow	10	2.854	0.331	150.0
W2085	1-5/8" 90° Short Radius Elbow	10	3.205	0.463	210.0
W2086	2-1/8" 90° Short Radius Elbow	5	4.035	0.761	345.0
W2087	2-5/8" 90° Short Radius Elbow	4	4.744	1.323	600.0
W2088	3-1/8" 90° Short Radius Elbow	2	5.512	1.764	800.0
W2089	3-5/8" 90° Short Radius Elbow	EA	6.280	0.000	0.0
W2090	4-1/8" 90° Short Radius Elbow	EA	7.087	3.792	1720.0
W2097	6-1/8" 90° Short Radius Elbow	EA	-	8.818	4000.0

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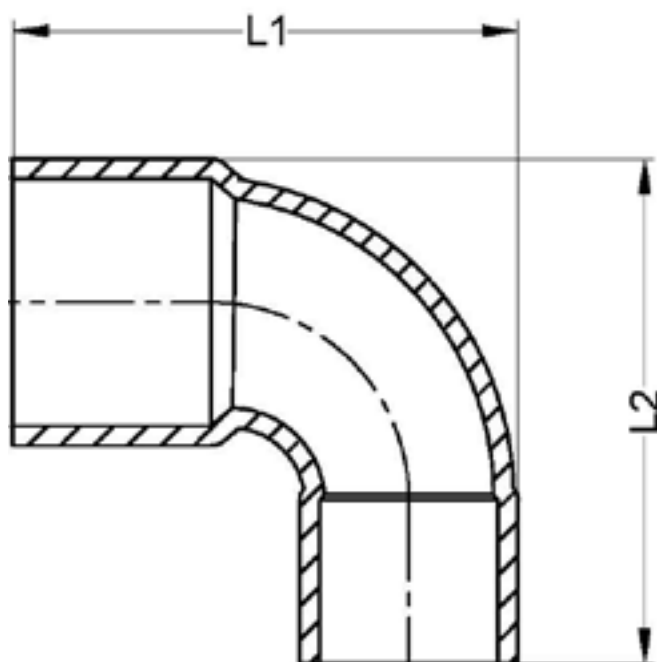




# 90° Short Radius Reducing Elbows

## 90° Short Radius Reducing Elbow Dimensions and Selection

	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
	W2011	3/8" x 1/4" 90° Short Radius Reducing Elbow	50	0.846	0.854	0.031	14.0
	W2023	5/8" x 1/2" 90° Short Radius Reducing Elbow	50	-	-	0.055	25.0
	W2036	7/8" x 5/8" 90° Short Radius Reducing Elbow	50	2.087	1.909	0.121	55.0



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# 90° Short Radius Street Elbows

## 90° Short Radius Street Elbow Dimensions and Selection

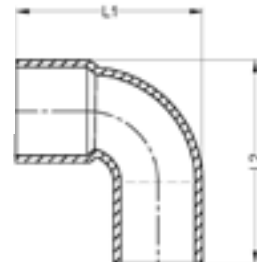
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
W2305	1/4" 90° Short Radius Street Elbow	50	0.780	0.917	0.012	5.5
W2312	3/8" 90° Short Radius Street Elbow	50	0.890	0.984	0.032	14.4
W2321	1/2" 90° Short Radius Street Elbow	50	1.150	1.220	0.032	14.6
W2326	5/8" 90° Short Radius Street Elbow	50	1.425	1.504	0.046	21.0
W2330	3/4" 90° Short Radius Street Elbow	25	1.831	1.870	0.088	40.0
W2334	7/8" 90° Short Radius Street Elbow	25	2.008	2.094	0.122	55.2
W2344	1-1/8" 90° Short Radius Street Elbow	25	2.551	2.630	0.231	105.0
W2384	1-3/8" 90° Short Radius Street Elbow	25	2.717	2.913	0.362	164.0
W2385	1-5/8" 90° Short Radius Street Elbow	10	3.138	3.295	0.467	212.0
W2386	2-1/8" 90° Short Radius Street Elbow	5	4.154	4.193	0.794	360.0
W2387	2-5/8" 90° Short Radius Street Elbow	4	4.606	4.705	1.190	540.0

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## P-Trap Dimensions and Selection

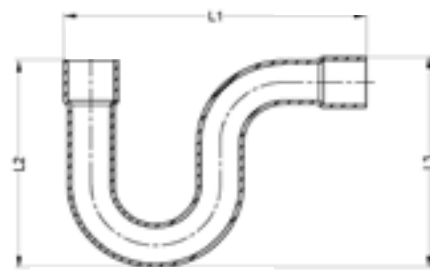
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	L3 (IN)	WT (LB)	WT (G)
	W60999	5/8" P-Trap	10	7.028	6.181	6.563	0.430	195.0
	W61008	3/4" P-Trap	10	7.122	6.378	6.693	0.538	244.0
	W61000	7/8" P-Trap	5	7.028	6.496	6.929	0.694	315.0
	W61001	1-1/8" P-Trap	3	7.323	6.594	6.811	1.071	486.0
	W61002	1-3/8" P-Trap	EA	8.583	6.909	7.559	1.367	620.0
	W61003	1-5/8" P-Trap	EA	10.827	9.331	10.368	2.315	1050.0
	W61009	2-1/8" P-Trap	EA	11.358	11.358	11.929	4.068	1845.0

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# Return Bends

## Return Bend Dimensions and Selection

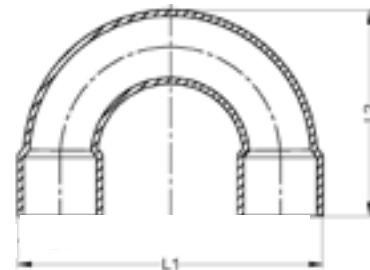
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
W6032	1/2" x 1-1/2" Return Bend	50	2.075	1.398	0.057	26.0
W6051	5/8" x 1-9/16" Return Bend	25	2.264	1.555	0.099	45.0
W6056	5/8" x 2-1/4" Return Bend	25	2.953	1.909	0.106	48.0
W6058	5/8" x 2-1/2" Return Bend	25	3.213	2.087	0.143	65.0
W6073	3/4" x 2" Return Bend	10	-	-	0.000	0.0
W6077	3/4" x 2-1/2" Return Bend	10	-	-	0.000	0.0
W6092	7/8" x 2-1/2" Return Bend	10	3.465	2.516	0.220	100.0
W6095	7/8" x 3-3/8" Return Bend	10	4.339	2.764	0.278	126.0
W60110	1-1/8" x 3" Return Bend	5	4.228	2.925	0.412	187.0
W60111	1-1/8" x 3-1/4" Return Bend	5	-	-	0.000	0.0
W60121	1-3/8" x 3-3/4" Return Bend	4	5.256	3.484	0.617	280.0
W60131	1-5/8" x 4-1/2" Return Bend	5	6.205	4.252	0.908	412.0
W6074	2-1/8" x 3/4" Return Bend	10	-	-	0.176	80.0
W60140	2-1/8" x 5-1/2" Return Bend	2	7.752	4.862	1.764	800.0

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## Tee Dimensions and Selection

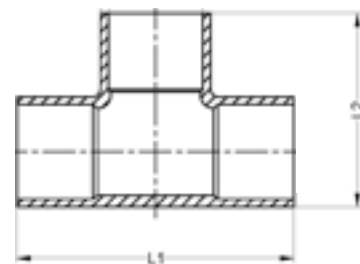
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
W40302	3/16" Tee	50	-	-	6.000	2721.6
W40306	1/4" Tee	100	0.976	0.634	0.016	7.1
W40313	5/16" Tee	50	1.161	0.760	0.028	12.5
W4000	3/8" Tee	50	1.083	0.858	0.031	14.0
W4001	1/2" Tee	50	1.291	1.094	0.042	19.0
W4006	5/8" Tee	50	1.705	1.319	0.077	35.0
W4017	3/4" Tee	25	2.067	1.559	0.138	62.5
W4031	7/8" Tee	25	2.480	1.839	0.198	90.0
W4048	1-1/8" Tee	10	3.071	2.224	0.342	155.0
W4068	1-3/8" Tee	5	3.406	2.598	0.496	225.0
W4084	1-5/8" Tee	5	3.937	3.012	0.747	339.0
W40102	2-1/8" Tee	5	4.892	3.799	1.698	770.0
W40123	2-5/8" Tee	2	5.797	4.636	2.260	1025.0
W40152	3-1/8" Tee	2	6.683	5.197	3.307	1500.0
W40190	3-5/8" Tee	EA	-	-	0.000	0.0
W40200	4-1/8" Tee	EA	8.711	6.713	5.247	2380.0

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# Reducing Tees

## Reducing Tee Dimensions and Selection

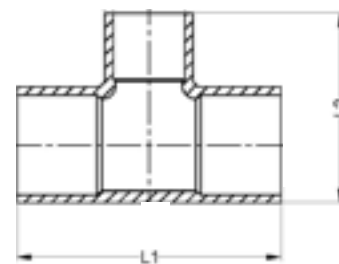
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
W40368	1/4" x 1/4" x 3/8" Reducing Tee	50	-	-	0.035	16.0
W4002	1/2" x 1/2" x 3/8" Reducing Tee	50	1.224	0.937	0.041	18.5
W4003	1/2" x 3/8" x 1/2" Reducing Tee	EA	-	-	0.049	22.0
W4004	1/2" x 3/8" x 3/8" Reducing Tee	50	-	-	0.049	22.0
W4015	1/2" x 1/2" x 5/8" Reducing Tee	50	-	-	0.066	30.0
W40350	1/2" x 1/2" x 1/4" Reducing Tee	50	-	-	0.040	18.0
W4005	3/8" x 3/8" x 1/2" Reducing Tee	50	-	-	0.053	24.0
W4016	3/8" x 3/8" x 5/8" Reducing Tee	50	-	-	0.088	40.0
W40324	3/8" x 3/8" x 1/4" Reducing Tee	50	-	-	0.031	14.0
W40330	3/8" x 1/4" x 3/8" Reducing Tee	50	-	-	0.028	12.5
W4007	5/8" x 5/8" x 1/2" Reducing Tee	50	1.626	1.220	0.073	33.0
W4008	5/8" x 5/8" x 3/8" Reducing Tee	50	1.461	1.075	0.071	32.0
W4009	5/8" x 1/2" x 5/8" Reducing Tee	50	-	-	0.077	35.0
W4044	7/8" x 5/8" x 1/2" Reducing Tee	25	-	-	0.187	85.0
W4045	7/8" x 5/8" x 3/8" Reducing Tee	25	-	-	0.165	75.0
W4065	7/8" x 7/8" x 1-1/8" Reducing Tee	10	-	-	0.309	140.0
W4049	1-1/8" x 1-1/8" x 7/8" Reducing Tee	10	2.815	2.087	0.265	120.0
W4050	1-1/8" x 1-1/8" x 3/4" Reducing Tee	10	2.654	1.925	0.249	113.0
W4051	1-1/8" x 1-1/8" x 5/8" Reducing Tee	10	2.657	1.807	0.209	95.0
W4052	1-1/8" x 1-1/8" x 1/2" Reducing Tee	10	2.677	1.693	0.209	95.0
W4055	1-1/8" x 7/8" x 1-1/8" Reducing Tee	10	-	-	0.331	150.0
W4056	1-1/8" x 7/8" x 7/8" Reducing Tee	10	-	-	0.287	130.0
W4061	1-1/8" x 5/8" x 1-1/8" Reducing Tee	10	-	-	0.337	153.0
W4069	1-3/8" x 1-3/8" x 1-1/8" Reducing Tee	5	3.228	2.539	0.419	190.0
W4070	1-3/8" x 1-3/8" x 7/8" Reducing Tee	5	2.953	2.343	0.408	185.0
W4071	1-3/8" x 1-3/8" x 5/8" Reducing Tee	5	2.717	2.106	0.342	155.0

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## Reducing Tees - Continued

### Reducing Tee Dimensions and Selection

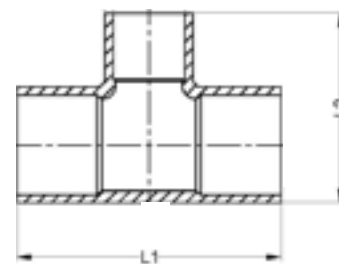
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
W4072	1-3/8" x 1-3/8" x 1/2" Reducing Tee	EA	2.776	2.028	0.287	130.0
W4074	1-3/8" x 1-1/8" x 1-1/8" Reducing Tee	5	-	-	0.485	220.0
W4075	1-3/8" x 1-1/8" x 7/8" Reducing Tee	5	-	-	0.441	200.0
W4078	1-3/8" x 7/8" x 1-3/8" Reducing Tee	5	-	-	0.529	240.0
W4079	1-3/8" x 7/8" x 1-1/8" Reducing Tee	EA	-	-	0.549	249.0
W4080	1-3/8" x 7/8" x 7/8" Reducing Tee	5	-	-	0.441	200.0
W4085	1-5/8" x 1-5/8" x 1-3/8" Reducing Tee	5	3.720	2.846	0.688	312.0
W4086	1-5/8" x 1-5/8" x 1-1/8" Reducing Tee	5	3.465	2.776	0.617	280.0
W4087	1-5/8" x 1-5/8" x 7/8" Reducing Tee	5	3.209	2.638	0.595	270.0
W4088	1-5/8" x 1-5/8" x 5/8" Reducing Tee	5	2.933	2.362	0.381	173.0
W4089	1-5/8" x 1-5/8" x 1/2" Reducing Tee	5	2.913	2.244	0.578	262.0
W4090	1-5/8 x 1-3/8 x 1-5/8 Reducing Tee	EA	-	-	0.769	349.0
W4091	1-5/8" x 1-3/8" x 1-3/8" Reducing Tee	5	-	-	0.723	328.0
W4092	1-5/8" x 1-3/8" x 1-1/8" Reducing Tee	5	-	-	0.692	314.0
W4093	1-5/8" x 1-3/8" x 7/8" Reducing Tee	5	-	-	0.661	300.0
W4095	1-5/8" x 1-1/8" x 1-5/8" Reducing Tee	5	-	-	0.774	351.0
W4099	1-5/8" x 7/8" x 1-5/8" Reducing Tee	5	-	-	0.783	355.0
W40103	2-1/8" x 2-1/8" x 1-5/8" Reducing Tee	5	4.459	3.504	1.290	585.0
W40104	2-1/8" x 2-1/8" x 1-3/8" Reducing Tee	5	4.207	3.425	1.146	520.0
W40105	2-1/8" x 2-1/8" x 1-1/8" Reducing Tee	5	3.959	3.386	0.937	425.0
W40106	2-1/8" x 2-1/8" x 7/8" Reducing Tee	5	3.780	3.083	0.765	347.0
W40107	2-1/8" x 2-1/8" x 5/8" Reducing Tee	5	3.543	2.874	0.668	303.0
W40108	2-1/8" x 2-1/8" x 1/2" Reducing Tee	2	3.465	2.894	0.679	308.0
W40109	2-1/8" x 1-5/8" x 2-1/8" Reducing Tee	2	-	-	1.59	721.2
W40110	2-1/8" x 1-5/8" x 1-5/8" Reducing Tee	2	-	-	1.323	600.1
W40115	2-1/8" x 1-3/8" x 2-1/8" Reducing Tee	EA	-	-	1.874	850.0

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## Reducing Tees - Continued

### Reducing Tee Dimensions and Selection

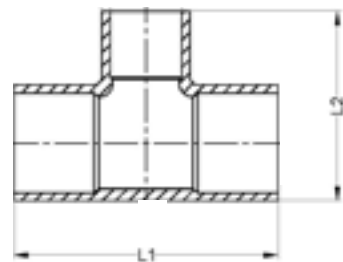
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
W40124	2-5/8" x 2-5/8" x 2-1/8" Reducing Tee	2	5.325	4.530	1.51	684.9
W40125	2-5/8" x 2-5/8" x 1-5/8" Reducing Tee	2	4.744	4.035	1.874	850.0
W40126	2-5/8" x 2-5/8" x 1-3/8" Reducing Tee	2	-	-	1.905	864.1
W40127	2-5/8" x 2-5/8" x 1-1/8" Reducing Tee	2	4.400	3.917	1.909	865.9
W40129	2-5/8" x 2-5/8" x 5/8" Reducing Tee	2	3.927	3.622	1.909	865.9
W40131	2-5/8" x 2-1/8" x 2-1/8" Reducing Tee	2	-	-	1.836	832.8
W40148	3-1/8" x 3-1/8" x 1-3/8" Reducing Tee	2	4.911	4.469	2.383	1080.9
W40149	3-1/8" x 3-1/8" x 1-5/8" Reducing Tee	2	5.089	4.646	2.381	1080.0
W40150	3-1/8" x 3-1/8" x 2-1/8" Reducing Tee	2	5.846	4.843	2.275	1031.9

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# 2-Hole Tubing Straps

## 2-Hole Tubing Strap Dimensions and Selection

	PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
	A1203	1/4" 2-Hole Tubing Strap	10	0.008	3.5
	A1278	3/8" 2-Hole Tubing Strap	10	0.009	4.0
	A1366	1/2" 2-Hole Tubing Strap	10	0.010	4.5
	A1467	3/4" 2-Hole Tubing Strap	10	0.013	6.0
	A2529	5/8" 2-Hole Tubing Strap	10	0.012	5.5
	A2574	7/8" 2-Hole Tubing Strap	10	0.015	7.0
	A2614	1-1/8" 2-Hole Tubing Strap	10	0.020	9.0
	A2650	1-3/8" 2-Hole Tubing Strap	10	0.022	10.0
	A2675	1-5/8" 2-Hole Tubing Strap	50	0.039	17.8
	A2708	2-1/8" 2-Hole Tubing Strap	25	0.050	22.6

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## Union Dimensions and Selection

	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	W8001	3/8" Union	25	-	0.110	50.0
	W8002	1/2" Union	50	-	0.132	60.0
	W8003	5/8" Union	25	1.378	0.143	65.0
	W8004	7/8" Union	25	1.831	0.298	135.0
	W8005	1-1/8" Union	10	2.323	0.514	233.0
	A11205	1-3/8" Union	10	2.323	0.772	350.0
	A11206	1-5/8" Union	5	2.598	0.661	300.0
	A11207	2-1/8" Union	5	3.169	0.882	400.0
	A2675	1-5/8" 2-Hole Tubing Strap	50	-	0.039	17.8
	A2708	2-1/8" 2-Hole Tubing Strap	25	-	0.050	22.6

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