



P/AC Copper Fittings

TECHNICAL SPECIFICATIONS SUBMITTAL FORM

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

Product Use:

P/AC Copper Sweat 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.
- 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.
- Our copper fittings have zero reported failures since 1999.

Certifications and Approvals:

- CRN Approved
- ANSI/ASME B16.22, B16.29, B16.18, B16.15, B16.26, B16.24, and B16.23



Design Pressure Table

SIZE (IN)	PSI (200°F)	PSI (250°F)	BAR (93°C)	BAR (121°C)
1/4"	740	725	51.3	50.2
3/8"	740	725	51.3	50.2
1/2"	635	620	43.8	42.9
5/8"	585	575	40.6	39.8
3/4"	515	505	35.5	34.8
7/8"	475	465	32.7	32.1
1-1/8"	400	395	27.8	27.2
1-3/8"	355	350	24.7	24.2
1-5/8"	330	325	23	22.5
2-1/8"	295	290	20.4	20
2-5/8"	270	265	18.9	18.5
3-1/8"	255	250	17.8	17.4
3-5/8"	245	240	17	16.7
4-1/8"	235	230	16.5	16.1
5-1/8"	215	215	15.1	14.8
6-1/8"	200	200	14.1	13.8

Pressure Ratings Based on ASME B16.22



Female Adapters

Female Adapter Dimensions and Selection

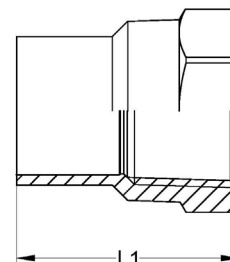
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-1231	5/8" x 1/2" Female Adapter	25	1.122"	0.064	29
	N-1232	5/8" x 3/8" Female Adapter	50	0.945"	0.079	36
	N-1224	3/8" x 1/2" Female Adapter	EA	1.181"	0.09	41
	N-1246	7/8" x 3/4" Female Adapter	25	1.437"	0.095	43
	N-1230	5/8" x 3/4" Female Adapter	25	1.299"	0.11	50
	N-1263	1-1/8" x 1" Female Adapter	20	1.732"	0.165	75
	N-1271	1-3/8" x 1-1/4" Female Adapter	10	1.909"	0.276	125
	N-1279	1-5/8" x 1-1/2" Female Adapter	10	2.126"	0.392	178
	N-1287	2-1/8" x 2" Female Adapter	2	2.421"	0.613	278

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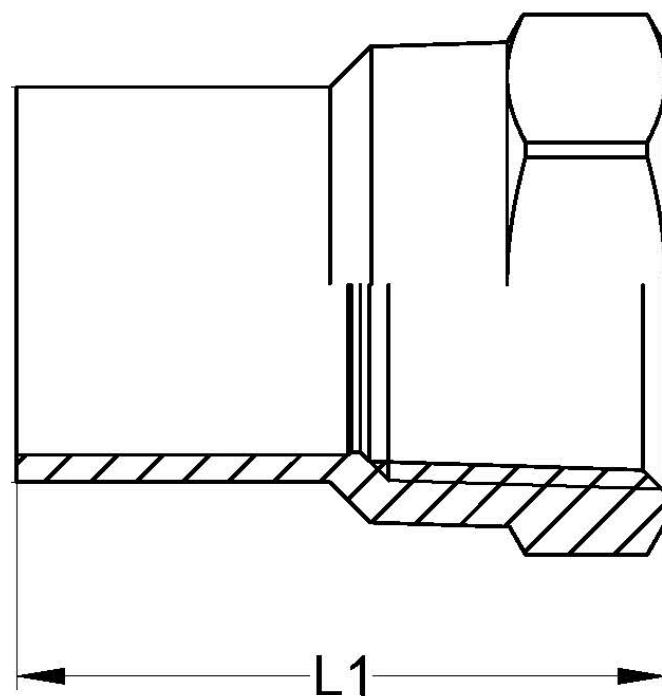




Female Street Adapters

Female Street Adapter Dimensions and Selection

	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-1531	5/8" x 1/2" Female Street Adapter	25	1.417"	0.071	32
	N-1532	5/8" x 3/8" Female Street Adapter	EA	1.083"	0.079	36
	N-1563	1-1/8" x 1" Female Street Adapter	10	1.988"	0.229	104
	N-1587	2-1/8" x 2" Female Street Adapter	EA	3.839"	0.71	322



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Male Adapters

Male Adapter Dimensions and Selection

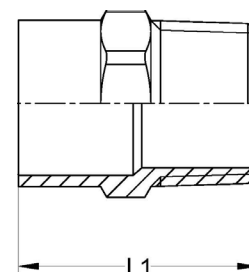
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-1132	5/8" x 3/8" Male Adapter	50	0.965"	0.079	36
	N-1146	7/8" x 3/4" Male Adapter	25	1.378"	0.093	42
	N-1130	5/8" x 3/4" Male Adapter	25	1.378"	0.13	59
	N-1163	1-1/8" x 1" Male Adapter	20	1.673"	0.152	69
	N-1164	1-1/8" x 3/4" Male Adapter	25	1.791"	0.19	86
	N-1171	1-3/8" x 1-1/4" Male Adapter	10	1.693"	0.254	115
	N-1172	1-3/8" x 1" Male Adapter	10	1.969"	0.28	127
	N-1179	1-5/8" x 1-1/2" Male Adapter	10	1.909"	0.342	155
	N-1187	2-1/8" x 2" Male Adapter	2	2.264"	0.518	235

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Male Street Adapters

Male Street Adapters Dimensions and Selection

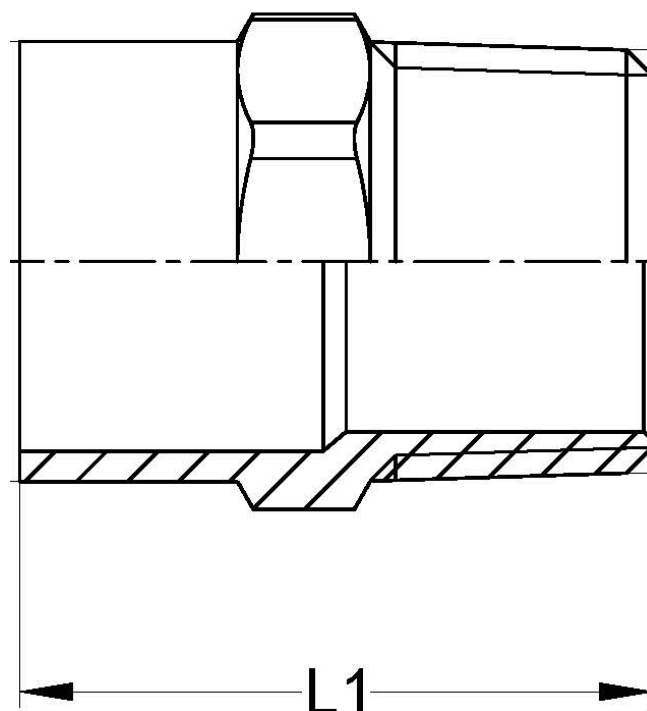
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-1446	7/8" x 3/4" Male Street Adapter	20	1.850"	0.161	73.0
	N-1463	1-1/8" x 1" Male Street Adapter	10	2.185"	0.240	109.0
	N-1487	2-1/8" x 2" Male Street Adapter	EA	2.894"	0.800	363.0

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Reducing Bushings

Reducing Bushings Dimensions and Selection

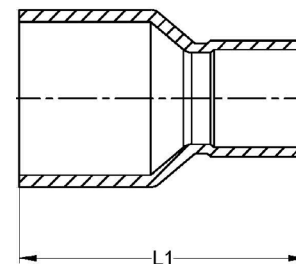
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-1306	3/8" x 1/4" Reducing Bushing	100	0.827"	0.008	3.5
	N-1314	1/2" x 1/4" Reducing Bushing	100	0.984"	0.011	5
	N-1312	1/2" x 3/8" Reducing Bushing	100	0.929"	0.011	5
	N-1317	5/8" x 3/8" Reducing Bushing	100	1.181"	0.02	9
	N-1315	5/8" x 1/2" Reducing Bushing	100	1.126"	0.02	9
	N-1322	3/4" x 3/8" Reducing Bushing	50	1.378"	0.031	14
	N-1320	3/4" x 5/8" Reducing Bushing	50	1.417"	0.031	14
	N-1326	7/8" x 5/8" Reducing Bushing	50	1.555"	0.044	20
	N-1325	7/8" x 3/4" Reducing Bushing	50	1.654"	0.044	20
	N-1340	1-1/8" x 1/2" Reducing Bushing	25	1.783"	0.077	35
	N-1339	1-1/8" x 5/8" Reducing Bushing	25	1.854"	0.077	35
	N-1338	1-1/8" x 3/4" Reducing Bushing	25	1.870"	0.088	40
	N-1337	1-1/8" x 7/8" Reducing Bushing	25	1.988"	0.093	42
	N-1343	1-3/8" x 1-1/8" Reducing Bushing	25	2.185"	0.137	62
	N-1359	2-1/8" x 1-3/8" Reducing Bushing	EA	2.854"	0.315	143

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Caps Dimensions and Selection

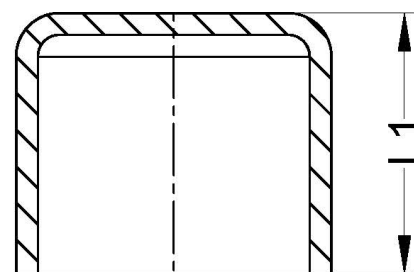
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-7004	3/8" Cap	100	0.394"	0.005	2.3
	N-7006	1/2" Cap	100	0.433"	0.009	4.0
	N-7007	5/8" Cap	100	0.571"	0.015	7.0
	N-7008	3/4" Cap	50	0.720"	0.027	12.0
	N-7009	7/8" Cap	50	0.870"	0.033	15.0
	N-7011	1-1/8" Cap	25	0.984"	0.066	30.0
	N-7012	1-3/8" Cap	EA	1.114"	0.104	47.0
	N-7014	2-1/8" Cap	5	1.528"	0.265	120.0

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Reducing Couplings

Reducing Couplings Dimensions and Selection

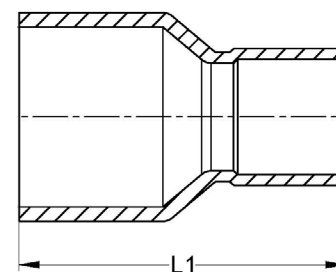
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-1011	3/8" x 1/4" Reducing Coupling	100	0.787"	0.008	3.8
	N-1010	3/8" x 5/16" Reducing Coupling	100	0.827"	0.008	3.8
	N-1019	1/2" x 3/8" Reducing Coupling	100	0.898"	0.012	5.6
	N-1023	5/8" x 1/2" Reducing Coupling	100	1.114"	0.022	10
	N-1025	5/8" x 3/8" Reducing Coupling	100	1.110"	0.023	10.5
	N-1029	3/4" x 5/8" Reducing Coupling	50	1.331"	0.035	16
	N-1030	3/4" x 1/2" Reducing Coupling	50	1.335"	0.035	16
	N-1035	7/8" x 3/4" Reducing Coupling	50	1.673"	0.049	22
	N-1036	7/8" x 5/8" Reducing Coupling	50	1.594"	0.049	22
	N-1050	1-1/8" x 3/4" Reducing Coupling	25	1.882"	0.084	38
	N-1049	1-1/8" x 7/8" Reducing Coupling	EA	2.008"	0.093	42.2
	N-1056	1-3/8" x 1-1/8" Reducing Coupling	EA	2.205"	0.128	58.1
	N-1060	1-1/4" x 1/2" Reducing Coupling	EA	2.031"	0.137	62

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Roll Stop Couplings

Roll Stop Coupling Dimensions and Selection

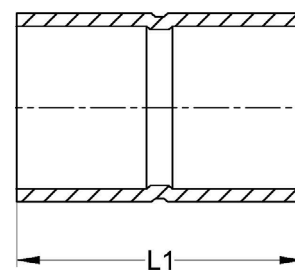
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-1063	1-5/8" Roll Stop Coupling	10	2.307"	0.214	97

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Stake Stop Couplings

Stake Stop Couplings Dimensions and Selection

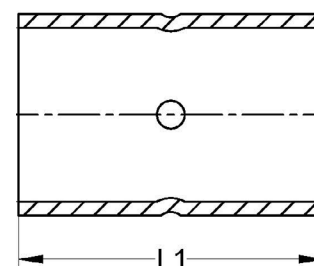
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-10143	3/8" Coupling with stake stop	100	0.748"	0.008	3.4
	N-10144	1/2" Coupling with stake stop	100	0.866"	0.013	6.0
	N-10157	3/4" Coupling with stake stop	EA	1.319"	0.036	16.5
	N-10146	7/8" Coupling with stake stop	EA	1.594"	0.051	23.0
	N-10147	1-1/8" Coupling with stake stop	EA	1.909"	0.101	46.0
	N-10149	1-5/8" Coupling with stake stop	10	2.303"	0.209	95.0
	N-10150	2-1/8" Coupling with stake stop	EA	2.835"	0.379	172.0

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45° Elbows

45° Elbow Dimensions and Selection

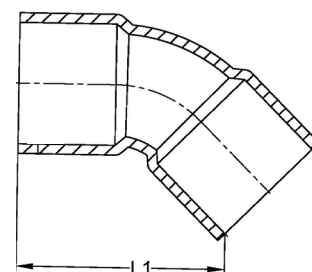
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-3005	1/4" 45° Elbow	100	0.630"	0.008	3.5
	N-3012	3/8" 45° Elbow	100	0.709"	0.012	5.2
	N-3021	1/2" 45° Elbow	100	0.815"	0.018	8.0
	N-3026	5/8" 45° Elbow	50	1.132"	0.031	14.0
	N-3030	3/4" 45° Elbow	50	1.339"	0.049	22.0
	N-3034	7/8" 45° Elbow	25	1.496"	0.071	32.0
	N-3044	1-1/8" 45° Elbow	20	1.843"	0.124	56.0
	N-3050	1-3/8" 45° Elbow	10	2.008"	0.201	91.0
	N-3055	1-5/8" 45° Elbow	5	2.307"	0.304	138.0
	N-3059	2" 45° Elbow	EA	2.677"	0.547	248.0

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45° Street Elbows

45° Street Elbow Dimensions and Selection

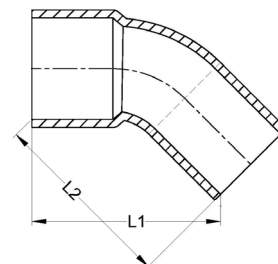
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
	N-3312	3/8" 45° Street Elbow	100	0.791"	0.795"	0.012	5.5
	N-3321	1/2" 45° Street Elbow	100	0.945"	0.953"	0.019	8.5
	N-3330	3/4" 45° Street Elbow	50	1.382"	1.354"	0.052	23.5
	N-3334	7/8" 45° Street Elbow	25	1.626"	1.591"	0.075	34.0
	N-3344	1-1/8" 45° Street Elbow	20	1.980"	1.969"	0.128	58.0
	N-3350	1-3/8" 45° Street Elbow	10	2.146"	2.106"	0.198	90.0

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90° Long Radius Elbows

90° Long Radius Elbow Dimensions and Selection

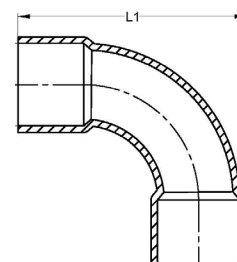
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-2715	1/4" 90° Long Radius Elbow	100	0.906"	0.011	5.0
	N-2063	1-5/8" 90° Long Radius Elbow	5	4.094"	0.540	245.0
	N-2072	2-1/8" 90° Long Radius Elbow	EA	5.276"	0.992	450.0

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90° Long Radius Street Elbows

90° Long Radius Street Elbow Dimensions and Selection

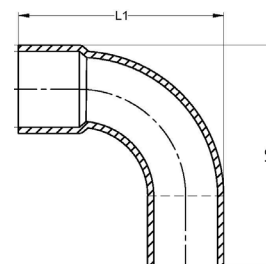
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
	N-2817	1/2" Long Radius Street Elbow	100	1.378"	1.488"	0.030	13.5
	N-2355	1-5/8" Long Radius Street Elbow	5	4.035"	4.154"	0.551	250.0
	N-2359	2-1/8" Long Radius Street Elbow	EA	5.354"	5.413"	1.003	455.0

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90° Short Radius Elbows

90° Short Radius Elbows Dimensions and Selection

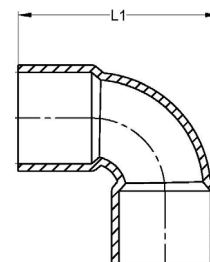
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-2085	1-5/8" 90° Short Radius Elbow	10	2.933"	0.331	150.0
	N-2086	2-1/8" 90° Short Radius Elbow	EA	3.839"	0.639	290.0

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90° Short Radius Street Elbows

90° Short Radius Street Elbows Dimensions and Selection

	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-2305	1/4" 90° Short Radius Street Elbow	100	0.768"	0.008	3.5
	N-2312	3/8" 90° Short Radius Street Elbow	100	0.984"	0.013	6.0
	N-1651	1/2" 90° Short Radius Street Elbow	100	1.220"	0.021	9.5
	N-2384	1-3/8" 90° Short Radius Street Elbow	10	2.835"	0.243	110.0
	N-2385	1-5/8" 90° Short Radius Street Elbow	5	3.346"	0.364	165.0
	N-2386	2-1/8" 90° Short Radius Street Elbow	EA	4.213"	0.672	305.0

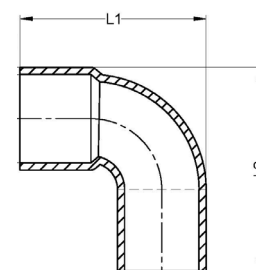


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P-Traps Dimensions and Selection

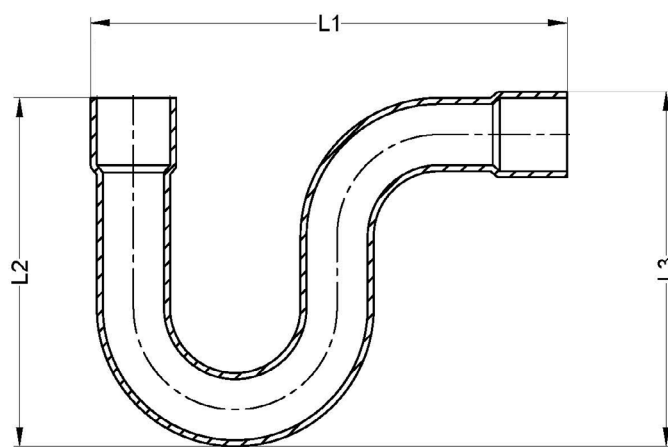
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	L3 (IN)	WT (LB)	WT (G)
	N-60999	5/8" P-Traps	EA	7.000"	6.476"	6.563"	0.463	210.0
	N-61008	3/4" P-Traps	2	7.047"	6.772"	6.811"	0.562	255.0
	N-61000	7/8" P-Traps	2	6.949"	6.476"	6.929"	0.739	335.0
	N-61001	1-1/8" P-Traps	2	7.303"	6.654"	6.744"	1.124	510.0

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Tees Dimensions and Selection

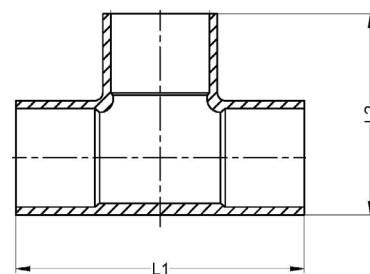
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
	N-40306	1/4" Tee	100	0.976"	0.634"	0.013	6.1
	N-4000	3/8" Tee	100	1.035"	0.819"	0.020	9.0
	N-4001	1/2" Tee	100	1.280"	1.024"	0.035	15.8
	N-4047	1/2 x 1/2 x 3/4 Tee	25	1.909"	1.677"	0.106	48.0
	N-4006	5/8" Tee	50	1.650"	1.220"	0.058	26.5
	N-4017	3/4" Tee	50	2.047"	1.614"	0.106	48.0
	N-4031	7/8" Tee	25	2.421"	1.795"	0.143	65.0
	N-4048	1-1/8" Tee	10	2.972"	2.205"	0.267	121.0
	N-4068	1-3/8" Tee	10	3.445"	2.559"	0.375	170.0
	N-4084	1-5/8" Tee	5	3.898"	2.953"	0.595	270.0
	N-40102	2-1/8" Tee	EA	4.951"	3.760"	1.047	475.0

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Reducing Tees

Reducing Tees Dimensions and Selection

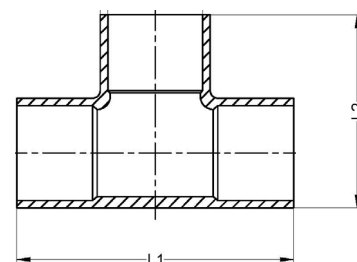
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
	N-4002	1/2" x 1/2" x 3/8" Reducing Tee	100	2.165"	1.378"	0.042	19.0
	N-4014	5/8" x 5/8" x 1/4" Reducing Tee	50	1.358"	1.004"	0.049	22.0
	N-4008	5/8" x 5/8" x 3/8" Reducing Tee	50	1.496"	1.102"	0.049	22.0
	N-4007	5/8" x 5/8" x 1/2" Reducing Tee	50	1.555"	1.142"	0.049	22.0
	N-4019	3/4" x 3/4" x 1/2" Reducing Tee	50	1.799"	1.280"	0.088	40.0
	N-4035	7/8" x 7/8" x 3/8" Reducing Tee	25	1.929"	1.327"	0.115	52.0
	N-4034	7/8" x 7/8" x 1/2" Reducing Tee	25	2.067"	1.453"	0.115	52.0
	N-4033	7/8" x 7/8" x 5/8" Reducing Tee	25	2.165"	1.520"	0.132	60.0
	N-4051	1-1/8" x 1-1/8" x 5/8" Reducing Tee	10	2.539"	1.850"	0.265	120.0
	N-4050	1-1/8" x 1-1/8" x 3/4" Reducing Tee	10	2.677"	1.921"	0.254	115.0
	N-4049	1-1/8" x 1-1/8" x 7/8" Reducing Tee	10	2.827"	2.098"	0.232	105.0
	N-4070	1-3/8" x 1-3/8" x 7/8" Reducing Tee	10	2.874"	2.343"	0.342	155.0
	N-4069	1-3/8" x 1-3/8" x 1-1/8" Reducing Tee	10	3.189"	2.441"	0.342	155.0
	N-4087	1-5/8" x 1-5/8" x 7/8" Reducing Tee	5	3.150"	2.618"	0.496	225.0
	N-4086	1-5/8" x 1-5/8" x 1-1/8" Reducing Tee	5	3.406"	2.756"	0.562	255.0
	N-4085	1-5/8" x 1-5/8" x 1-3/8" Reducing Tee	5	3.701"	2.843"	0.584	265.0

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Reducing Tees

Reducing Tee Dimensions and Selection

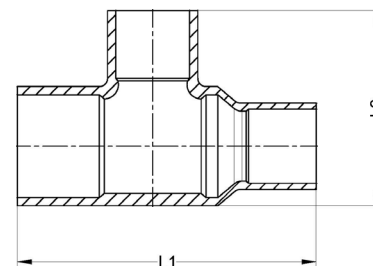
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
	N-4004	1/2" x 3/8" x 3/8" Reducing Tee	100	1.366"	0.921"	0.042	19.0
	N-4010	5/8" x 1/2" x 1/2" Reducing Tee	50	1.772"	1.130"	0.062	28.0
	N-4011	5/8" x 1/2" x 3/8" Reducing Tee	50	1.594"	1.063"	0.062	28.0
	N-4043	7/8" x 5/8" x 5/8" Reducing Tee	25	2.421"	1.508"	0.137	62.0
	N-4037	7/8" x 3/4" x 3/4" Reducing Tee	25	2.461"	1.626"	0.154	70.0
	N-4056	1-1/8" x 7/8" x 7/8" Reducing Tee	10	3.110"	2.146"	0.265	120.0

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Reducing Tees

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Reducing Tee Dimensions and Selection

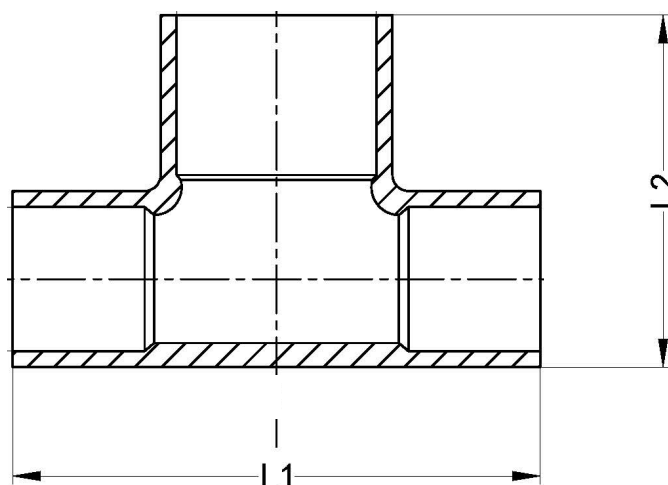
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
	N-4005	3/8" x 3/8" x 1/2" Reducing Tee	100	1.220"	0.965"	0.044	20.0
	N-4015	1/2" x 1/2" x 5/8" Reducing Tee	50	1.496"	1.142"	0.066	30.0
	N-4047	5/8" x 5/8" x 7/8" Reducing Tee	25	1.909"	1.677"	0.106	48.0
	N-4065	7/8" x 7/8" x 1-1/8" Reducing Tee	10	2.736"	2.047"	0.221	100.0

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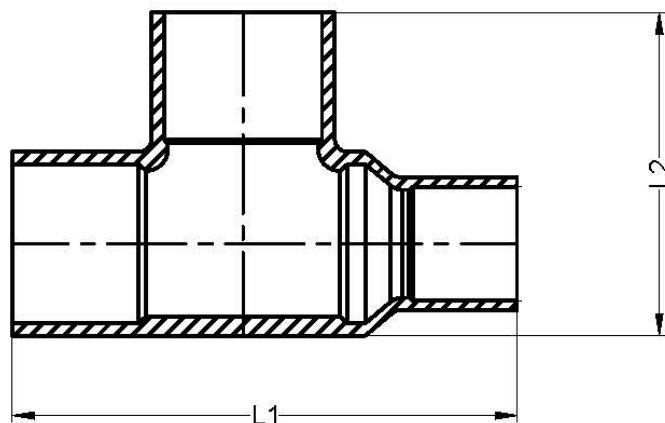
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
	N-4041	7/8" x 5/8" x 7/8" Reducing Tee	25	2.638"	1.756"	0.159	72.0
	N-4055	1-1/8" x 7/8" x 1-1/8" Reducing Tee	10	3.346"	2.197"	0.298	135.0

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Union Dimensions and Selection

	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	N-8003	5/8" Union C x C)	25	1.378"	0.190	86.0
	N-8004	7/8" Union (C x C)	25	1.831"	0.375	170.0
	N-8005	1-1/8" Union (C x C)	10	2.323"	0.507	230.0

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