



WROT Copper Fittings

TECHNICAL SPECIFICATIONS SUBMITTAL FORM

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

Product Use:

WROT Copper Sweat Fittings for use in Plumbing Applications.

Design and Features:

- 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:

- NSF 61
- ANSI/ASME B16.29, B16.15, B16.26, B16.24, B16.23





Female Adapters

Female Adapter Dimensions and Selection

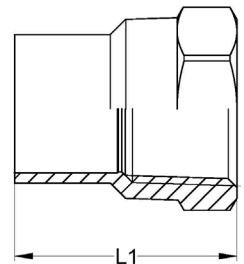
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	CS3-04	1/4" Adapter	EA	0.906	0.033	15.0
	CS3-08	1/2" Adapter	25	1.122	0.064	29.0
	CS3-12	3/4" Adapter	25	1.437	0.095	43.0
	CS3-16	1" Adapter	20	1.732	0.165	75.0
	CS3-20	1-1/4" Adapter	10	1.909	0.276	125.0
	CS3-24	1-1/2" Adapter	10	2.126	0.392	178.0
	CS3-32	2" Adapter	2	2.421	0.613	278.0

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Male Adapters

Male Adapter Dimensions and Selection

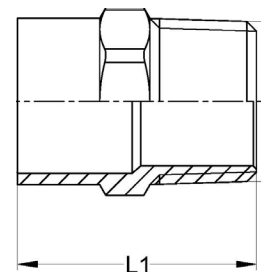
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	CS4-12	3/4" Adapter	25	1.368	0.093	42.0
	CS4-16	1" Adapter	20	1.673	0.152	69.0
	CS4-20	1-1/4" Adapter	10	1.693	0.254	115.0
	CS4-24	1-1/2" Adapter	10	1.909	0.342	155.0
	CS4-32	2" Adapter	2	2.264	0.518	235.0

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Female Reducing Adapters

Female Reducing Adapter Dimensions and Selection

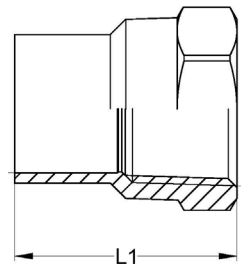
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	CS3-08-06	1/2" x 3/8" Reducing Adapter	25	0.945	0.079	36.0
	CS3-06-08	3/8" x 1/2" Reducing Adapter	25	1.181	0.090	41.0
	CS3-08-12	1/2" x 3/4" Reducing Adapter	25	1.299	0.110	50.0
	CS3-10-12	5/8" x 3/4" Reducing Adapter	EA	1.457	0.141	64.0
	CS3-24-20	1-1/2" x 1-1/4" Reducing Adapter	EA	1.831	0.381	173.0

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Male Reducing Adapters

Male Reducing Adapter Dimensions and Selection

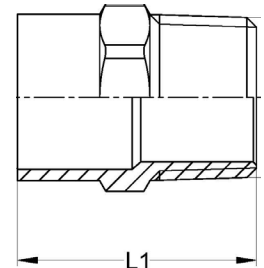
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	CS4-08-04	1/2" x 1/4" Reducing Adapter	EA	1.142	0.04	18
	CS4-08-06	1/2" x 3/8" Reducing Adapter	25	0.965	0.079	36
	CS4-08-12	1/2" x 3/4" Reducing Adapter	25	1.378	0.13	59
	CS4-10-12	5/8" x 3/4" Reducing Adapter	EA	1.584	0.141	64
	CS4-16-12	1" x 3/4" Reducing Adapter	25	1.791	0.19	86
	CS4-12-16	3/4" x 1" Reducing Adapter	-	2.106	0.221	100
	CS4-20-16	1-1/4" x 1" Reducing Adapter	EA	1.969	0.28	127
	CS4-16-20	1" x 1-1/4" Reducing Adapter	EA	2.146	0.381	173
	CS4-24-20	1-1/2" x 1-1/4" Reducing Adapter	EA	1.929	0.45	204
	CS4-24-16	1-1/2" x 1" Reducing Adapter	5	2.185	0.47	213

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Female Street Adapters

Female Street Adapter Dimensions and Selection

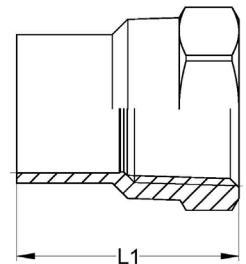
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	CS3-2-08	1/2" Street Adapter	25	1.417	0.071	32.0
	CS3-2-08-06	1/2" x 3/8" Street Adapter	EA	1.083	0.079	36.0
	CS3-2-12	3/4" Street Adapter	25	1.693	0.128	58.0
	CS3-2-16	1" Street Adapter	10	1.988	0.229	104.0
	CS3-2-20	1-1/4" Street Adapter	EA	2.126	0.331	150.0
	CS3-2-24	1-1/2" Street Adapter	EA	2.362	0.461	209.0
	CS3-2-32	2" Street Adapter	25	3.839	0.710	322.0

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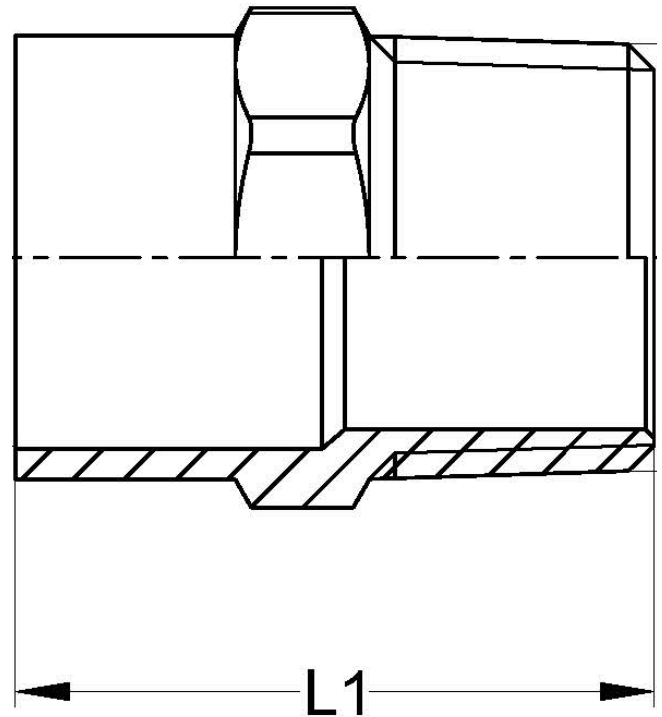




Male Street Adapters

Male Street Adapter Dimensions and Selection

	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	CS4-2-08	1/2" Street Adapter	EA	1.496	0.066	30.0
	CS4-2-12	3/4" Street Adapter	25	1.850	0.161	73.0
	CS4-2-16	1" Street Adapter	10	2.185	0.240	109.0
	CS4-2-32	2" Street Adapter	EA	2.894	0.800	363.0



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Reducing Bushings

Reducing Bushing Dimensions and Selection

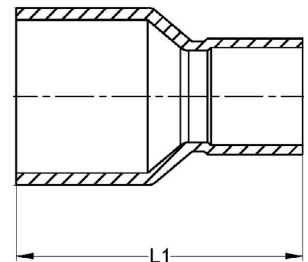
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
CS02-04-02	1/4" x 1/8" Reducing Bushing	100	0.827	0.008	3.5
CS02-06-02	3/8" x 1/8" Reducing Bushing	100	0.984	0.011	5.0
CS02-06-04	3/8" x 1/4" Reducing Bushing	100	0.929	0.011	5.0
CS02-08-04	1/2" x 1/4" Reducing Bushing	100	1.181	0.020	9.0
CS02-08-06	1/2" x 3/8" Reducing Bushing	100	1.126	0.020	9.0
CS02-10-04	5/8" x 1/4" Reducing Bushing	50	1.378	0.031	14.0
CS02-10-06	5/8" x 3/8" Reducing Bushing	50	1.319	0.031	14.0
CS02-10-08	5/8" x 1/2" Reducing Bushing	50	1.417	0.031	14.0
CS02-12-04	3/4" x 1/4" Reducing Bushing	50	1.496	0.044	20.0
CS02-12-06	3/4" x 3/8" Reducing Bushing	50	1.539	0.044	20.0
CS02-12-08	3/4" x 1/2" Reducing Bushing	50	1.555	0.044	20.0
CS02-12-10	3/4" x 5/8" Reducing Bushing	50	1.654	0.044	20.0
CS02-16-06	1" x 3/8" Reducing Bushing	25	1.783	0.077	35.0
CS02-16-08	1" x 1/2" Reducing Bushing	25	1.854	0.077	35.0
CS02-16-10	1" x 5/8" Reducing Bushing	25	1.870	0.088	40.0
CS02-16-12	1" x 3/4" Reducing Bushing	25	1.988	0.093	42.0
CS02-20-08	1-1/4" x 1/2" Reducing Bushing	25	2.028	0.110	50.0
CS02-20-12	1-1/4" x 3/4" Reducing Bushing	25	2.106	0.115	52.0
CS02-20-16	1-1/4" x 1" Reducing Bushing	10	2.185	0.137	62.0
CS02-24-08	1-1/2" x 1/2" Reducing Bushing	10	2.303	0.168	76.0
CS02-24-12	1-1/2" x 3/4" Reducing Bushing	10	2.402	0.168	76.0
CS02-24-16	1-1/2" x 1" Reducing Bushing	10	2.441	0.187	85.0
CS02-24-20	1-1/2" x 1-1/4" Reducing Bushing	10	2.421	0.209	95.0

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Reducing Bushings - Continued

Reducing Bushing Dimensions and Selection

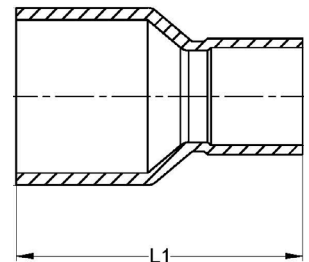
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
CS02-32-08	2" x 1/2" Reducing Bushing	10	2.795	0.309	140.0
CS02-32-12	2" x 3/4" Reducing Bushing	10	2.874	0.309	140.0
CS02-32-16	2" x 1" Reducing Bushing	10	2.913	0.313	142.0
CS02-32-20	2" x 1-1/4" Reducing Bushing	10	2.854	0.315	143.0
CS02-32-24	2" x 1-1/2" Reducing Bushing	10	2.953	0.331	150.0
CS02-40-16	2-1/2" x 1" Reducing Bushing	EA	3.366	0.595	270.0
CS02-40-20	2-1/2" x 1-1/4" Reducing Bushing	EA	3.287	0.595	270.0
CS02-40-24	2-1/2" x 1-1/2" Reducing Bushing	EA	3.287	0.595	270.0
CS02-40-32	2-1/2" x 2" Reducing Bushing	EA	3.366	0.595	270.0
CS02-48-20	3" x 1-1/4" Reducing Bushing	EA	3.760	0.882	400.0
CS02-48-24	3" x 1-1/2" Reducing Bushing	EA	3.780	0.882	400.0
CS02-48-32	3" x 2" Reducing Bushing	EA	3.740	0.882	400.0
CS02-48-40	3" x 2-1/2" Reducing Bushing	EA	3.780	0.882	400.0
CS02-56-48	3-1/2" x 3" Reducing Bushing	EA	4.232	1.323	600.0
CS02-64-32	4" x 2" Reducing Bushing	EA	4.843	1.984	900.0
CS02-64-40	4" x 2-1/2" Reducing Bushing	EA	4.843	1.984	900.0
CS02-64-48	4" x 3" Reducing Bushing	EA	4.744	1.984	900.0

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Tube Caps

Tube Caps Dimensions and Selection

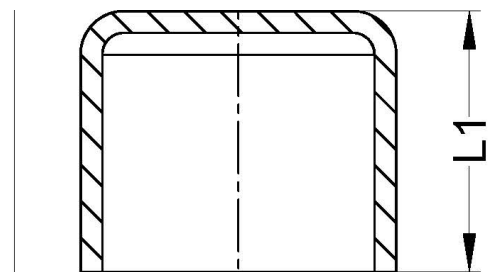
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
CS17-02	1/8" Tube Cap	EA	0.299	0.003	1.5
CS17-04	1/4" Tube Cap	100	0.394	0.005	2.3
CS17-06	3/8" Tube Cap	100	0.433	0.009	4.0
CS17-08	1/2" Tube Cap	25	0.571	0.015	7.0
CS17-10	5/8" Tube Cap	50	0.720	0.026	12.0
CS17-12	3/4" Tube Cap	25	0.870	0.033	15.0
CS17-16	1" Tube Cap	25	0.984	0.066	30.0
CS17-20	1-1/4" Tube Cap	10	1.114	0.104	47.0
CS17-24	1-1/2" Tube Cap	10	1.244	0.148	67.0
CS17-32	2" Tube Cap	10	1.528	0.265	120.0
CS17-40	2-1/2" Tube Cap	EA	1.673	0.441	200.0
CS17-48	3" Tube Cap	EA	1.890	0.540	245.0
CS17-64	4" Tube Cap	EA	2.362	1.257	570.0

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No Stop Couplings

No Stop Coupling Dimensions and Selection

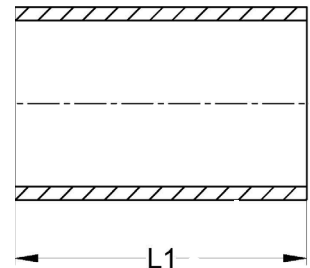
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	CS0-NSTOP-04	1/4" Coupling (no stop)	100	0.665	0.008	3.4
	CS0-NSTOP-06	3/8" Coupling (no stop)	100	0.866	0.013	6.0
	CS0-NSTOP-08	1/2" Coupling (no stop)	25	1.024	0.022	10.0
	CS0-NSTOP-10	5/8" Coupling (no stop)	50	1.211	0.036	16.5
	CS0-NSTOP-12	3/4" Coupling (no stop)	25	1.535	0.051	23.0
	CS0-NSTOP-16	1" Coupling (no stop)	25	1.795	0.101	46.0
	CS0-NSTOP-20	1-1/4" Coupling (no stop)	10	1.913	0.139	63.0
	CS0-NSTOP-24	1-1/2" Coupling (no stop)	10	2.205	0.209	95.0
	CS0-NSTOP-32	2" Coupling (no stop)	5	2.717	0.379	172.0
	CS0-NSTOP-40	2-1/2" Coupling (no stop)	EA	2.972	0.595	270.0
	CS0-NSTOP-48	3" Coupling (no stop)	EA	3.366	0.904	410.0
	CS0-NSTOP-56	3-1/2" Coupling (no stop)	EA	3.811	1.323	600.0
	CS0-NSTOP-64	4" Coupling (no stop)	EA	4.323	1.905	864.0

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Couplings with Stop

Coupling with Stop Dimensions and Selection

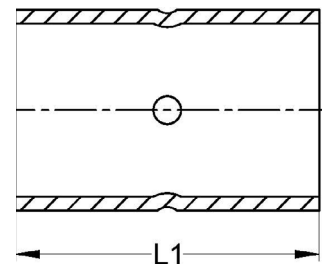
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
CS0-04	1/4" Coupling with stop	25	0.748	0.008	3.4
CS0-06	3/8" Coupling with stop	100	0.866	0.013	6.0
CS0-08	1/2" Coupling with stop	25	1.083	0.022	10.0
CS0-10	5/8" Coupling with stop	50	1.319	0.036	16.5
CS0-12	3/4" Coupling with stop	25	1.594	0.051	23.0
CS0-16	1" Coupling with stop	25	1.909	0.101	46.0
CS0-20	1-1/4" Coupling with stop	10	2.028	0.139	63.0
CS0-24	1-1/2" Coupling with stop	10	2.303	0.209	95.0
CS0-32	2" Coupling with stop	5	2.835	0.379	172.0
CS0-40	2-1/2" Coupling with stop	EA	3.169	0.617	280.0
CS0-48	3" Coupling with stop	EA	3.602	0.926	420.0
CS0-56	3-1/2" Coupling with stop	EA	4.114	1.323	600.0
CS0-64	4" Coupling with stop	EA	4.587	1.905	864.0

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Couplings with Rolled Stop

Coupling with Rolled Stop Dimensions and Selection

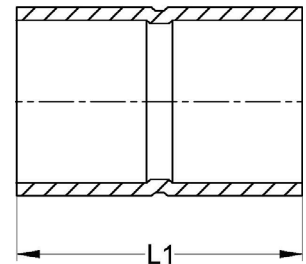
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
CS0-RING-02	1/8" Coupling with rolled stop	100	0.602	0.004	1.6
CS0-RING-04	1/4" Coupling with rolled stop	100	0.681	0.008	3.4
CS0-RING-06	3/8" Coupling with rolled stop	100	0.843	0.012	5.5
CS0-RING-08	1/2" Coupling with rolled stop	25	1.098	0.023	10.5
CS0-RING-10	5/8" Coupling with rolled stop	50	1.319	0.036	16.5
CS0-RING-12	3/4" Coupling with rolled stop	25	1.555	0.051	23.0
CS0-RING-16	1" Coupling with rolled stop	25	1.909	0.104	47.0
CS0-RING-20	1-1/4" Coupling with rolled stop	10	2.028	0.139	63.0
CS0-RING-24	1-1/2" Coupling with rolled stop	10	2.307	0.214	97.0
CS0-RING-32	2" Coupling with rolled stop	5	2.854	0.392	178.0

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Reducing Couplings

Reducing Coupling Dimensions and Selection

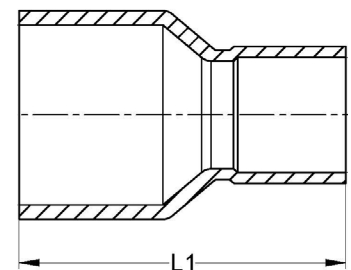
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
CS0-04-02	1/4" x 1/8" Reducing Coupling	25	0.787	0.008	3.8
CS0-06-02	3/8" x 1/8" Reducing Coupling	100	0.957	0.013	5.8
CS0-06-04	3/8" x 1/4" Reducing Coupling	100	0.898	0.012	5.6
CS0-06-05	3/8" OD x 5/16" OD Reducing Coupling	100	0.827	0.008	3.8
CS0-08-02	1/2" x 1/8" Reducing Coupling	100	1.181	0.023	10.5
CS0-08-04	1/2" x 1/4" Reducing Coupling	100	1.110	0.023	10.5
CS0-08-06	1/2" x 3/8" Reducing Coupling	100	1.114	0.022	10.0
CS0-10-04	5/8" x 1/4" Reducing Coupling	50	1.339	0.035	16.0
CS0-10-06	5/8" x 3/8" Reducing Coupling	50	1.335	0.035	16.0
CS0-10-08	5/8" x 1/2" Reducing Coupling	50	1.331	0.035	16.0
CS0-12-04	3/4" x 1/4" Reducing Coupling	50	1.496	0.049	22.0
CS0-12-06	3/4" x 3/8" Reducing Coupling	50	1.496	0.049	22.0
CS0-12-08	3/4" x 1/2" Reducing Coupling	50	1.594	0.049	22.0
CS0-12-10	3/4" x 5/8" Reducing Coupling	50	1.673	0.049	22.0
CS0-16-06	1" x 3/8" Reducing Coupling	25	1.764	0.077	35.0
CS0-16-08	1" x 1/2" Reducing Coupling	25	1.850	0.084	38.0
CS0-16-10	1" x 5/8" Reducing Coupling	25	1.882	0.084	38.0
CS0-16-12	1" x 3/4" Reducing Coupling	25	2.008	0.099	45.0
CS0-20-08	1-1/4" x 1/2" Reducing Coupling	25	2.031	0.137	62.0
CS0-20-12	1-1/4" x 3/4" Reducing Coupling	25	2.126	0.115	52.0
CS0-20-16	1-1/4" x 1" Reducing Coupling	10	2.205	0.137	62.0
CS0-24-08	1-1/2" x 1/2" Reducing Coupling	10	2.264	0.163	74.0
CS0-24-12	1-1/2" x 3/4" Reducing Coupling	10	2.358	0.179	81.0

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Reducing Couplings - Continued

Reducing Coupling Dimensions and Selection

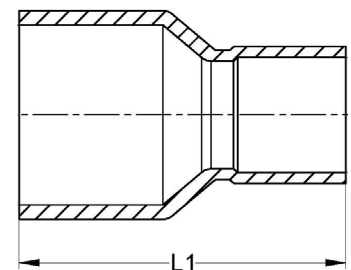
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
CS0-24-16	1-1/2" x 1" Reducing Coupling	10	2.496	0.187	85.0
CS0-24-20	1-1/2" x 1-1/4" Reducing Coupling	10	2.382	0.198	90.0
CS0-32-08	2" x 1/2" Reducing Coupling	10	2.776	0.291	132.0
CS0-32-12	2" x 3/4" Reducing Coupling	10	2.894	0.309	140.0
CS0-32-16	2" x 1" Reducing Coupling	10	3.000	0.318	144.0
CS0-32-20	2" x 1-1/4" Reducing Coupling	10	2.961	0.331	150.0
CS0-32-24	2" x 1-1/2" Reducing Coupling	10	2.933	0.335	152.0
CS0-40-16	2-1/2" x 1" Reducing Coupling	EA	3.409	0.540	245.0
CS0-40-20	2-1/2" x 1-1/4" Reducing Coupling	EA	3.142	0.540	245.0
CS0-40-24	2-1/2" x 1-1/2" Reducing Coupling	EA	3.429	0.540	245.0
CS0-40-32	2-1/2" x 2" Reducing Coupling	EA	3.425	0.628	285.0
CS0-48-24	3" x 1-1/2" Reducing Coupling	EA	3.780	0.776	352.0
CS0-48-32	3" x 2" Reducing Coupling	EA	3.819	0.827	375.0
CS0-48-40	3" x 2-1/2" Reducing Coupling	EA	3.780	0.904	410.0
CS0-56-48	3-1/2" x 3" Reducing Coupling	EA	4.264	1.323	600.0
CS0-64-32	4" x 2" Reducing Coupling	EA	4.827	1.984	900.0
CS0-64-40	4" x 2-1/2" Reducing Coupling	EA	4.862	1.984	900.0
CS0-64-48	4" x 3" Reducing Coupling	EA	4.874	1.984	900.0
CS0-64-56	4" x 3-1/2" Reducing Coupling	EA	4.567	1.984	900.0

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Street Elbows

Street Elbow Dimensions and Selection

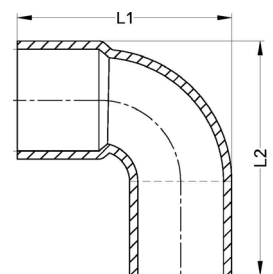
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
CS7-2-04	1/4" 90° Street Elbow	100	0.827	0.984	0.013	6.0
CS7-2-06	3/8" 90° Street Elbow	100	1.063	1.220	0.021	9.5
CS7-2-08	1/2" 90° Street Elbow	25	1.201	1.378	0.035	16.0
CS7-2-12	3/4" 90° Street Elbow	25	1.703	1.862	0.079	36.0
CS7-2-16	1" 90° Street Elbow	20	2.244	2.484	0.163	74.0
CS7-2-20	1-1/4" 90° Street Elbow	10	2.563	2.835	0.243	110.0
CS7-2-24	1-1/2" 90° Street Elbow	5	3.031	3.346	0.364	165.0
CS7-2-32	2" 90° Street Elbow	EA	3.740	4.213	0.672	305.0
CS7-2-40	2-1/2" 90° Street Elbow	EA	4.508	4.941	1.124	510.0
CS7-2-48	3" 90° Street Elbow	EA	5.238	5.368	1.764	800.0
CS7-2-64	4" 90° Street Elbow	EA	7.030	7.441	3.417	1550.0

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45° Elbows

45° Elbow Dimensions and Selection

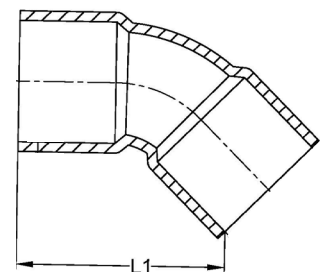
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
CS6-02	1/8" 45° Elbow	100	0.630	0.008	3.5
CS6-04	1/4" 45° Elbow	100	0.709	0.012	5.2
CS6-06	3/8" 45° Elbow	25	0.815	0.018	8.0
CS6-08	1/2" 45° Elbow	25	1.094	0.031	14.0
CS6-10	5/8" 45° Elbow	50	1.335	0.049	22.0
CS6-12	3/4" 45° Elbow	25	1.516	0.060	27.0
CS6-16	1" 45° Elbow	20	1.831	0.099	45.0
CS6-20	1-1/4" 45° Elbow	10	2.008	0.201	91.0
CS6-24	1-1/2" 45° Elbow	5	2.307	0.304	138.0
CS6-32	2" 45° Elbow	-	2.677	0.547	248.0
CS6-40	2-1/2" 45° Elbow	EA	2.943	0.893	405.0
CS6-48	3" 45° Elbow	EA	3.329	1.433	650.0
CS6-56	3-1/2" 45° Elbow	EA	3.919	2.205	1000.0
CS6-64	4" 45° Elbow	EA	4.372	2.535	1150.0

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45° Street Elbows

45° Street Elbow Dimensions and Selection

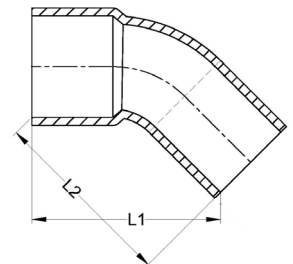
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
CS6-2-04	1/4" 45° Street Elbow	100	0.791	0.795	0.012	5.5
CS6-2-06	3/8" 45° Street Elbow	100	0.945	0.953	0.019	8.5
CS6-2-08	1/2" 45° Street Elbow	25	1.201	1.209	0.031	14.0
CS6-2-10	5/8" 45° Street Elbow	50	1.457	1.453	0.052	23.5
CS6-2-12	3/4" 45° Street Elbow	25	1.673	1.661	0.075	34.0
CS6-2-16	1" 45° Street Elbow	20	2.004	2.035	0.128	58.0
CS6-2-20	1-1/4" 45° Street Elbow	10	2.146	2.106	0.198	90.0
CS6-2-24	1-1/2" 45° Street Elbow	5	2.500	2.461	0.298	135.0
CS6-2-32	2" 45° Street Elbow	EA	2.874	2.835	0.551	250.0
CS6-2-40	2-1/2" 45° Street Elbow	EA	3.209	3.189	0.904	410.0
CS6-2-48	3" 45° Street Elbow	EA	3.565	3.585	1.499	680.0

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90° Long Radius Elbows

90° Long Radius Elbow Dimensions and Selection

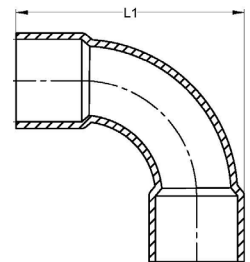
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
CS7LT-02	1/8" 90° Long Radius Elbow	100	0.906	0.011	5.0
CS7LT-05	5/16" 90° Long Radius Elbow	100	1.142	0.017	7.8
CS7LT-04	1/4" 90° Long Radius Elbow	25	1.260	0.020	9.0
CS7LT-06	3/8" 90° Long Radius Elbow	100	1.295	0.030	13.5
CS7LT-08	1/2" 90° Long Radius Elbow	25	1.654	0.050	22.5
CS7LT-10	5/8" 90° Long Radius Elbow	50	2.008	0.077	35.0
CS7LT-12	3/4" 90° Long Radius Elbow	25	2.264	0.115	52.0
CS7LT-16	1" 90° Long Radius Elbow	10	2.992	0.216	98.0
CS7LT-20	1-1/4" 90° Long Radius Elbow	10	3.547	0.364	165.0
CS7LT-24	1-1/2" 90° Long Radius Elbow	5	4.094	0.540	245.0
CS7LT-32	2" 90° Long Radius Elbow	EA	5.276	0.992	450.0
CS7LT-40	2-1/2" 90° Long Radius Elbow	EA	6.083	1.499	680.0
CS7LT-48	3" 90° Long Radius Elbow	EA	7.325	2.535	1150.0
CS7LT-64	4" 90° Long Radius Elbow	EA	9.065	5.126	2325.0

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90° Short Radius Elbows

90° Short Radius Elbow Dimensions and Selection

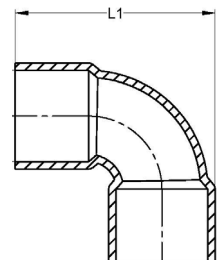
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	WT (LB)	WT (G)
	CS7-02	1/8" 90° Short Radius Elbow	100	0.748	0.008	3.5
	CS7-04	1/4" 90° Short Radius Elbow	100	0.866	0.013	6.0
	CS7-06	3/8" 90° Short Radius Elbow	100	1.043	0.020	9.0
	CS7-08	1/2" 90° Short Radius Elbow	25	1.280	0.034	15.2
	CS7-12	3/4" 90° Short Radius Elbow	25	1.772	0.065	29.5
	CS7-16	1" 90° Short Radius Elbow	20	2.205	0.121	55.0
	CS7-20	1-1/4" 90° Short Radius Elbow	10	2.551	0.225	102.0
	CS7-24	1-1/2" 90° Short Radius Elbow	5	2.933	0.331	150.0
	CS7-32	2" 90° Short Radius Elbow	EA	3.839	0.639	290.0
	CS7-40	2-1/2" 90° Short Radius Elbow	EA	4.575	1.102	500.0
	CS7-48	3" 90° Short Radius Elbow	EA	5.258	1.720	780.0
	CS7-64	4" 90° Short Radius Elbow	EA	7.069	3.395	1540.0

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Tee Dimensions and Selection

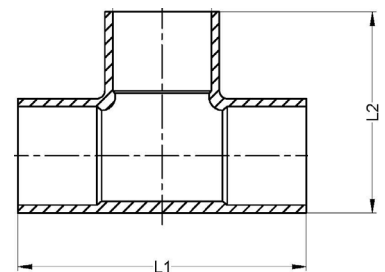
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
CST-02	1/8" Tee	100	0.976	0.634	0.013	6.1
CST-05	5/16" OD Tee	100	1.004	0.720	0.019	8.5
CST-04	1/4" Tee	100	1.035	0.819	0.020	9.0
CST-06	3/8" Tee	100	1.280	1.024	0.035	15.8
CST-08	1/2" Tee	25	1.646	1.209	0.058	26.5
CST-10	5/8" Tee	50	1.988	1.500	0.106	48.0
CST-12	3/4" Tee	10	2.429	1.791	0.143	65.0
CST-16	1" Tee	10	3.083	2.213	0.267	121.0
CST-20	1-1/4" Tee	10	3.445	2.559	0.375	170.0
CST-24	1-1/2" Tee	5	3.898	2.953	0.595	270.0
CST-32	2" Tee	-	4.951	3.760	1.047	475.0
CST-40	2-1/2" Tee	EA	5.817	4.439	1.720	780.0
CST-48	3" Tee	EA	6.703	5.167	2.646	1200.0
CST-64	4" Tee	EA	8.652	6.821	5.512	2500.0

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Reducing Tees

Reducing Tee Dimensions and Selection

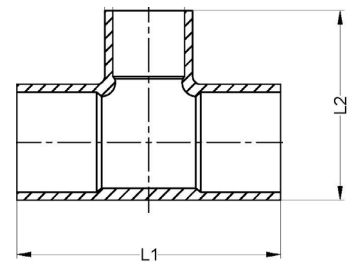
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
CST-04-04-02	1/4" x 1/4" x 1/8" Reducing Tee	100	1.154	0.760	0.022	10
CST-06-06-02	3/8" x 3/8" x 1/8" Reducing Tee	100	1.142	0.858	0.042	19
CST-06-06-04	3/8" x 3/8" x 1/4" Reducing Tee	100	1.220	0.965	0.042	19
CST-08-08-02	1/2" x 1/2" x 1/8" Reducing Tee	50	1.358	1.004	0.049	22
CST-08-08-04	1/2" x 1/2" x 1/4" Reducing Tee	50	1.496	1.102	0.049	22
CST-08-08-06	1/2" x 1/2" x 3/8" Reducing Tee	50	1.555	1.142	0.049	22
CST-10-10-04	5/8" x 5/8" x 1/4" Reducing Tee	50	1.732	1.240	0.088	40
CST-10-10-06	5/8" x 5/8" x 3/8" Reducing Tee	50	1.799	1.280	0.088	40
CST-10-10-08	5/8" x 5/8" x 1/2" Reducing Tee	50	2.071	1.461	0.088	40
CST-12-12-04	3/4" x 3/4" x 1/4" Reducing Tee	25	1.929	1.327	0.115	52
CST-12-12-06	3/4" x 3/4" x 3/8" Reducing Tee	25	2.067	1.453	0.115	52
CST-12-12-08	3/4" x 3/4" x 1/2" Reducing Tee	25	2.165	1.520	0.132	60
CST-12-12-10	3/4" x 3/4" x 5/8" Reducing Tee	25	2.323	1.594	0.132	60
CST-16-16-08	1" x 1" x 1/2" Reducing Tee	10	2.539	1.850	0.231	105
CST-16-16-06	1" x 1" x 3/8" Reducing Tee	10	2.461	1.693	0.254	115
CST-16-16-10	1" x 1" x 5/8" Reducing Tee	10	2.677	1.921	0.254	115
CST-16-16-12	1" x 1" x 3/4" Reducing Tee	10	2.827	2.098	0.265	120
CST-20-20-08	1-1/4" x 1-1/4" x 1/2" Reducing Tee	10	2.677	2.106	0.32	145
CST-20-20-12	1-1/4" x 1-1/4" x 3/4" Reducing Tee	10	2.874	2.343	0.342	155
CST-20-20-16	1-1/4" x 1-1/4" x 1" Reducing Tee	10	3.189	2.441	0.342	155
CST-24-24-08	1-1/2" x 1-1/2" x 1/2" Reducing Tee	5	2.933	2.362	0.496	225
CST-24-24-12	1-1/2" x 1-1/2" x 3/4" Reducing Tee	5	3.150	2.618	0.496	225
CST-24-24-16	1-1/2" x 1-1/2" x 1" Reducing Tee	5	3.406	2.756	0.562	255

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Reducing Tees - Continued

Reducing Tee Dimensions and Selection

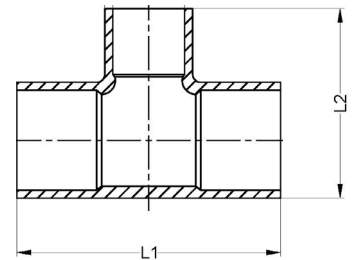
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
CST-24-24-20	1-1/2" x 1-1/2" x 1-1/4" Reducing Tee	5	3.701	2.843	0.584	265
CST-32-32-08	2" x 2" x 1/2" Reducing Tee	EA	3.524	2.862	0.783	355
CST-32-32-12	2" x 2" x 3/4" Reducing Tee	-	3.730	3.098	0.827	375
CST-32-32-16	2" x 2" x 1" Reducing Tee	-	3.947	3.307	0.904	410
CST-32-32-20	2" x 2" x 1-1/4" Reducing Tee	EA	4.281	3.398	0.937	425
CST-32-32-24	2" x 2" x 1-1/2" Reducing Tee	-	4.419	3.465	1.014	460
CST-40-40-16	2-1/2" x 2-1/2" x 1" Reducing Tee	EA	4.262	3.780	1.367	620
CST-40-40-32	2-1/2" x 2-1/2" x 2" Reducing Tee	EA	5.285	4.215	1.587	720
CST-40-40-08	2-1/2" x 2-1/2" x 1/2" Reducing Tee	EA	3.927	3.622	1.653	750
CST-40-40-12	2-1/2" x 2-1/2" x 3/4" Reducing Tee	EA	4.081	3.642	1.653	750
CST-40-40-20	2-1/2" x 2-1/2" x 1-1/4" Reducing Tee	EA	4.577	3.917	1.653	750
CST-40-40-24	2-1/2" x 2-1/2" x 1-1/2" Reducing Tee	EA	4.715	4.016	1.653	750
CST-48-48-08	3" x 3" x 1/2" Reducing Tee	EA	4.705	4.567	2.976	1350
CST-48-48-12	3" x 3" x 3/4" Reducing Tee	EA	4.754	4.185	2.976	1350
CST-48-48-16	3" x 3" x 1" Reducing Tee	EA	4.715	4.370	2.976	1350
CST-48-48-20	3" x 3" x 1-1/4" Reducing Tee	EA	5.059	4.980	2.976	1350
CST-48-48-24	3" x 3" x 1-1/2" Reducing Tee	EA	5.089	4.646	2.976	1350
CST-48-48-32	3" x 3" x 2" Reducing Tee	EA	5.679	4.825	2.976	1350
CST-48-48-40	3" x 3" x 2-1/2" Reducing Tee	EA	6.112	4.963	2.976	1350
CST-64-64-48	4" x 4" x 3" Reducing Tee	EA	7.589	6.250	5.401	2450
CST-64-64-32	4" x 4" x 2" Reducing Tee	EA	6.644	6.026	5.512	2500
CST-64-64-40	4" x 4" x 2-1/2" Reducing Tee	EA	7.028	6.124	5.512	2500

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Reducing Tees

Reducing Tee Dimensions and Selection

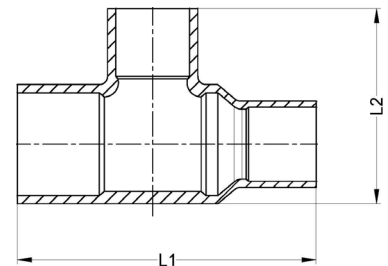
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
CST-04-02-02	1/4" x 1/8" x 1/8" Reducing Tee	100	1.319	0.744	0.022	10.0
CST-06-04-02	3/8" x 1/4" x 1/8" Reducing Tee	100	1.240	0.866	0.042	19.0
CST-06-04-04	3/8" x 1/4" x 1/4" Reducing Tee	100	1.366	0.921	0.042	19.0
CST-08-06-06	1/2" x 3/8" x 3/8" Reducing Tee	50	1.772	1.130	0.062	28.0
CST-10-08-08	5/8" x 1/2" x 1/2" Reducing Tee	50	2.165	1.378	0.099	45.0
CST-12-08-06	3/4" x 1/2" x 3/8" Reducing Tee	25	2.323	1.417	0.154	70.0
CST-12-08-08	3/4" x 1/2" x 1/2" Reducing Tee	25	2.421	1.508	0.137	62.0
CST-12-10-10	3/4" x 5/8" x 5/8" Reducing Tee	25	2.461	1.626	0.154	70.0
CST-16-08-08	1" x 1/2" x 1/2" Reducing Tee	10	2.717	1.841	0.254	115.0
CST-16-08-12	1" x 1/2" x 3/4" Reducing Tee	10	2.894	2.087	0.254	115.0
CST-16-12-08	1" x 3/4" x 1/2" Reducing Tee	10	2.886	1.795	0.254	115.0
CST-16-12-12	1" x 3/4" x 3/4" Reducing Tee	10	3.110	2.146	0.265	120.0
CST-20-12-12	1-1/4" x 3/4" x 3/4" Reducing Tee	10	3.417	2.307	0.375	170.0
CST-20-12-16	1-1/4" x 3/4" x 1" Reducing Tee	10	3.543	2.500	0.375	170.0
CST-20-16-08	1-1/4" x 1" x 1/2" Reducing Tee	10	3.071	2.094	0.375	170.0
CST-20-16-12	1-1/4" x 1" x 3/4" Reducing Tee	10	3.465	2.343	0.375	170.0
CST-20-16-16	1-1/4" x 1" x 1" Reducing Tee	10	3.724	2.441	0.397	180.0
CST-24-12-08	1-1/2" x 3/4" x 1/2" Reducing Tee	EA	3.484	2.323	0.412	186.9
CST-24-12-12	1-1/2" x 3/4" x 3/4" Reducing Tee	5	3.614	2.579	0.573	260.0
CST-24-12-16	1-1/2" x 3/4" x 1" Reducing Tee	5	3.780	2.732	0.573	260.0
CST-24-12-20	1-1/2" x 3/4" x 1-1/4" Reducing Tee	5	4.039	2.874	0.573	260.0
CST-24-16-08	1-1/2" x 1" x 1/2" Reducing Tee	EA	4.193	2.921	0.392	177.8
CST-24-16-12	1-1/2" x 1" x 3/4" Reducing Tee	5	3.701	2.638	0.573	260.0

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Reducing Tees - Continued

Reducing Tee Dimensions and Selection

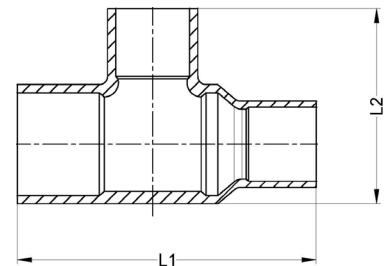
PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
CST-24-16-16	1-1/2" x 1" x 1" Reducing Tee	5	3.917	2.732	0.573	260.0
CST-24-20-12	1-1/2" x 1-1/4" x 3/4" Reducing Tee	5	3.563	2.579	0.573	260.0
CST-24-20-16	1-1/2" x 1-1/4" x 1" Reducing Tee	5	3.917	2.732	0.573	260.0
CST-24-20-20	1-1/2" x 1-1/4" x 1-1/4" Reducing Tee	5	4.114	2.884	0.573	260.0
CST-32-20-16	2" x 1-1/4" x 1" Reducing Tee	EA	4.443	3.252	0.926	420.0
CST-32-20-20	2" x 1-1/4" x 1-1/4" Reducing Tee	EA	4.648	3.386	0.926	420.0
CST-32-20-24	2" x 1-1/4" x 1-1/2" Reducing Tee	EA	5.002	3.614	0.926	420.0
CST-32-24-12	2" x 1-1/2" x 3/4" Reducing Tee	EA	4.274	3.071	0.757	343.4
CST-32-24-16	2" x 1-1/2" x 1" Reducing Tee	EA	4.530	3.307	0.926	420.0
CST-32-24-20	2" x 1-1/2" x 1-1/4" Reducing Tee	EA	4.549	3.406	0.926	420.0
CST-32-24-24	2" x 1-1/2" x 1-1/2" Reducing Tee	EA	5.002	3.622	0.926	420.0
CST-40-32-16	2-1/2" x 2" x 1" Reducing Tee	EA	4.821	3.799	1.653	750.0
CST-40-32-20	2-1/2" x 2" x 1-1/4" Reducing Tee	EA	5.337	3.898	1.653	750.0
CST-40-32-24	2-1/2" x 2" x 1-1/2" Reducing Tee	EA	5.433	4.016	1.653	750.0
CST-40-32-32	2-1/2" x 2" x 2" Reducing Tee	EA	5.829	4.254	1.653	750.0
CST-48-32-32	3" x 2" x 2" Reducing Tee	EA	6.360	4.825	2.976	1350.0
CST-48-40-32	3" x 2-1/2" x 2" Reducing Tee	EA	6.163	4.884	2.976	1350.0
CST-48-40-40	3" x 2-1/2" x 2-1/2" Reducing Tee	EA	6.793	4.856	2.976	1350.0

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Reducing Tees

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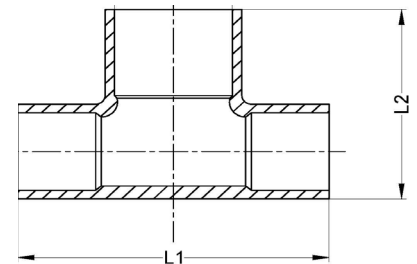
	PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
	CST-02-02-04	1/8" x 1/8" x 1/4" Reducing Tee	100	1.102	0.728	0.028	12.5
	CST-04-04-06	1/4" x 1/4" x 3/8" Reducing Tee	100	1.220	0.965	0.044	20
	CST-08-08-12	1/2" x 1/2" x 3/4" Reducing Tee	25	1.909	1.677	0.106	48
	CST-12-12-16	3/4" x 3/4" x 1" Reducing Tee	10	2.736	2.047	0.221	100
	CST-08-08-16	1/2" x 1/2" x 1" Reducing Tee	10	2.362	1.929	0.243	110
	CST-16-16-20	1" x 1" x 1-1/4" Reducing Tee	10	3.307	2.461	0.397	180
	CST-20-20-24	1-1/4" x 1-1/4" x 1-1/2" Reducing Tee	5	3.673	2.972	0.523	237.2
	CST-16-16-24	1" x 1" x 1-1/2" Reducing Tee	5	3.583	2.559	0.551	250
	CST-20-20-32	1-1/4" x 1-1/4" x 2" Reducing Tee	EA	5.925	3.809	1.102	500
	CST-24-24-32	1-1/2" x 1-1/2" x 2" Reducing Tee	EA	5.650	3.821	1.323	600

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Reducing Tees

Reducing Tee Dimensions and Selection

PART #	OD - DESCRIPTION	BOX QTY	L1 (IN)	L2 (IN)	WT (LB)	WT (G)
CST-04-02-04	1/4" x 1/8" x 1/4" Reducing Tee	100	1.280	0.787	0.022	10.0
CST-06-02-06	3/8" x 1/8" x 3/8" Reducing Tee	100	1.516	0.984	0.042	19.0
CST-06-04-06	3/8" x 1/4" x 3/8" Reducing Tee	100	1.480	1.024	0.038	17.0
CST-08-06-08	1/2" x 3/8" x 1/2" Reducing Tee	50	1.882	1.260	0.062	28.0
CST-12-08-12	3/4" x 1/2" x 3/4" Reducing Tee	25	2.638	1.756	0.159	72.0
CST-16-08-16	1" x 1/2" x 1" Reducing Tee	10	3.280	2.201	0.287	130.0
CST-16-12-16	1" x 3/4" x 1" Reducing Tee	10	3.346	2.197	0.298	135.0
CST-20-12-20	1-1/4" x 3/4" x 1-1/4" Reducing Tee	10	3.839	2.567	0.419	190.0
CST-20-16-20	1-1/4" x 1" x 1-1/4" Reducing Tee	10	3.819	2.559	0.430	195.0
CST-24-08-24	1-1/2" x 1/2" x 1-1/2" Reducing Tee	EA	4.390	2.898	0.565	256.3
CST-24-12-24	1-1/2" x 3/4" x 1-1/2" Reducing Tee	5	4.370	2.953	0.661	300.0
CST-24-16-24	1-1/2" x 1" x 1-1/2" Reducing Tee	5	4.370	2.898	0.661	300.0
CST-24-20-24	1-1/2" x 1-1/4" x 1-1/2" Reducing Tee	5	4.193	2.898	0.661	300.0
CST-32-12-32	2" x 3/4" x 2" Reducing Tee	EA	5.553	3.762	1.094	496.2
CST-32-20-32	2" x 1-1/4" x 2" Reducing Tee	EA	5.652	3.762	1.102	500.0
CST-32-24-32	2" x 1-1/2" x 2" Reducing Tee	EA	5.478	3.762	1.102	500.0
CST-40-24-40	2" x 1-1/2" x 2-1/2" Reducing Tee	EA	6.439	4.470	1.874	850.0
CST-40-32-40	2-1/2" x 2" x 2-1/2" Reducing Tee	EA	6.459	4.490	1.874	850.0
CST-48-32-48	3" x 2" x 3" Reducing Tee	EA	7.382	5.049	2.976	1350.0
CST-48-40-48	3" x 2-1/2" x 3" Reducing Tee	EA	7.285	5.238	2.976	1350.0

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