



NDL Industries

APPLICATIONS

Commercial, Industrial, and Residential Plumbing

WROT Copper Fittings

Innovative Plumbing Products with High-Quality Performance





WROT Copper Fittings

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WROT Copper Fittings

Innovative Plumbing Products with High-Quality Performance

- 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

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

Symbols

- C** Copper (cup) manufactured to receive copper tube diameter
- FTG** Fittings end made to copper tube diameter
- F** Female, internal ANSI Standard taper pipe thr-d (NPTI)
- M** Male, external ANSI Standard taper pipe thr-d (NPTE)





Adapters (C x F)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS3-02	1/8" Adapter	EA	0.033	15.0
CS3-04	1/4" Adapter	EA	0.033	15.0
CS3-06	3/8" Adapter	50	0.060	27.0
CS3-08	1/2" Adapter	25	0.064	29.0
CS3-12	3/4" Adapter	25	0.095	43.0
CS3-16	1" Adapter	20	0.165	75.0
CS3-20	1-1/4" Adapter	10	0.276	125.0
CS3-24	1-1/2" Adapter	10	0.392	178.0
CS3-32	2" Adapter	2	0.613	278.0
CS3-40	2-1/2" Adapter	EA	1.327	602.0
CS3-48	3" Adapter	EA	2.024	918.0



Adapters (C x M)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS4-04	1/4" Adapter	EA	0.031	14.0
CS4-06	3/8" Adapter	50	0.044	20.0
CS4-08	1/2" Adapter	25	0.064	29.0
CS4-12	3/4" Adapter	25	0.093	42.0
CS4-16	1" Adapter	20	0.152	69.0
CS4-20	1-1/4" Adapter	10	0.254	115.0
CS4-24	1-1/2" Adapter	10	0.342	155.0
CS4-32	2" Adapter	2	0.518	235.0
CS4-40	2-1/2" Adapter	EA	1.292	586.0
CS4-48	3" Adapter	EA	2.022	917.0
CS4-64	4" Adapter	EA	2.976	1350.0



Reducing Adapters (C x F)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS3-02-04	1/8" x 1/4" Reducing Adapter	EA	0.051	23.0
CS3-04-02	1/4" x 1/8" Reducing Adapter	EA	0.029	13.0
CS3-04-06	1/4" x 3/8" Reducing Adapter	EA	0.051	23.0
CS3-06-04	3/8" x 1/4" Reducing Adapter	EA	0.033	15.0
CS3-06-08	3/8" x 1/2" Reducing Adapter	25	0.090	41.0
CS3-06-12	3/8" x 3/4" Reducing Adapter	EA	0.106	48.0
CS3-08-04	1/2" x 1/4" Reducing Adapter	25	0.051	23.0
CS3-08-06	1/2" x 3/8" Reducing Adapter	25	0.079	36.0
CS3-08-12	1/2" x 3/4" Reducing Adapter	25	0.110	50.0
CS3-10-08	5/8" x 1/2" Reducing Adapter	EA	0.110	50.0
CS3-10-12	5/8" x 3/4" Reducing Adapter	EA	0.141	64.0
CS3-12-08	3/4" x 1/2" Reducing Adapter	25	0.090	41.0
CS3-12-16	3/4" x 1" Reducing Adapter	-	0.232	105.0
CS3-16-08	1" x 1/2" Reducing Adapter	EA	0.232	105.0
CS3-16-12	1" x 3/4" Reducing Adapter	20	0.201	91.0
CS3-16-20	1" x 1-1/4" Reducing Adapter	10	0.331	150.0
CS3-20-16	1-1/4" x 1" Reducing Adapter	EA	0.260	118.0
CS3-20-24	1-1/4" x 1-1/2" Reducing Adapter	5	0.481	218.0
CS3-24-20	1-1/2" x 1-1/4" Reducing Adapter	EA	0.381	173.0
CS3-24-32	1-1/2" x 2" Reducing Adapter	EA	0.611	277.0
CS3-32-24	2" x 1-1/2" Reducing Adapter	EA	0.710	322.0



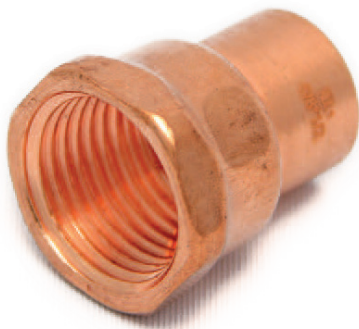
Reducing Adapters (C x M)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS4-02-04	1/8" x 1/4" Reducing Adapter	EA	0.040	18.0
CS4-04-08	1/4" x 1/2" Reducing Adapter	EA	0.079	36.0
CS4-06-04	3/8" x 1/4" Reducing Adapter	EA	0.033	15.0
CS4-06-08	3/8" x 1/2" Reducing Adapter	25	0.079	36.0
CS4-06-12	3/8" x 3/4" Reducing Adapter	EA	0.128	58.0
CS4-08-04	1/2" x 1/4" Reducing Adapter	EA	0.040	18.0
CS4-08-06	1/2" x 3/8" Reducing Adapter	25	0.079	36.0



Reducing Adapters (C x M) - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS4-08-12	1/2" x 3/4" Reducing Adapter	25	0.130	59.0
CS4-08-16	1/2" x 1" Reducing Adapter	EA	0.251	114.0
CS4-10-08	5/8" x 1/2" Reducing Adapter	EA	0.084	38.0
CS4-10-12	5/8" x 3/4" Reducing Adapter	EA	0.141	64.0
CS4-12-08	3/4" x 1/2" Reducing Adapter	EA	0.130	59.0
CS4-12-16	3/4" x 1" Reducing Adapter	-	0.221	100.0
CS4-16-08	1" x 1/2" Reducing Adapter	EA	0.161	73.0
CS4-16-12	1" x 3/4" Reducing Adapter	25	0.190	86.0
CS4-16-20	1" x 1-1/4" Reducing Adapter	EA	0.381	173.0
CS4-16-24	1" x 1-1/2" Reducing Adapter	EA	0.280	127.0
CS4-20-12	1-1/4" x 3/4" Reducing Adapter	EA	0.260	118.0
CS4-20-16	1-1/4" x 1" Reducing Adapter	EA	0.280	127.0
CS4-20-24	1-1/4" x 1-1/2" Reducing Adapter	EA	0.520	236.0
CS4-24-16	1-1/2" x 1" Reducing Adapter	5	0.470	213.0
CS4-24-20	1-1/2" x 1-1/4" Reducing Adapter	EA	0.450	204.0
CS4-24-32	1-1/2" x 2" Reducing Adapter	-	0.800	363.0
CS4-32-24	2" x 1-1/2" Reducing Adapter	EA	0.772	350.0



Street Adapters (FTG x F)

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



Street Adapters (FTG x M)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS4-2-08	1/2" Street Adapter	EA	0.066	30.0
CS4-2-08-06	1/2" x 3/8" Street Adapter	EA	0.077	35.0
CS4-2-08-12	1/2" x 3/4" Street Adapter	25	0.130	59.0
CS4-2-12	3/4" Street Adapter	25	0.161	73.0
CS4-2-12-08	3/4" x 1/2" Street Adapter	EA	0.154	70.0
CS4-2-16	1" Street Adapter	10	0.240	109.0
CS4-2-20	1-1/4" Street Adapter	EA	-	-
CS4-2-24	1-1/2" Street Adapter	EA	-	-
CS4-2-32	2" Street Adapter	EA	0.800	363.0

Copper Sweat Flush Bushing (FTG x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CSFLC-12-08	3/4" x 1/2" Copper Sweat Flush Bushing	EA	0.079	36.0



Reducing Bushings (FTG x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS02-04-02	1/4" x 1/8" Reducing Bushing	100	0.008	3.5
CS02-06-02	3/8" x 1/8" Reducing Bushing	100	0.011	5.0
CS02-06-04	3/8" x 1/4" Reducing Bushing	100	0.011	5.0
CS02-08-04	1/2" x 1/4" Reducing Bushing	100	0.020	9.0
CS02-08-06	1/2" x 3/8" Reducing Bushing	100	0.020	9.0
CS02-10-04	5/8" x 1/4" Reducing Bushing	50	0.031	14.0
CS02-10-06	5/8" x 3/8" Reducing Bushing	50	0.031	14.0
CS02-10-08	5/8" x 1/2" Reducing Bushing	50	0.031	14.0
CS02-12-04	3/4" x 1/4" Reducing Bushing	50	0.044	20.0
CS02-12-06	3/4" x 3/8" Reducing Bushing	50	0.044	20.0
CS02-12-08	3/4" x 1/2" Reducing Bushing	50	0.044	20.0
CS02-12-10	3/4" x 5/8" Reducing Bushing	50	0.044	20.0
CS02-16-06	1" x 3/8" Reducing Bushing	25	0.077	35.0
CS02-16-08	1" x 1/2" Reducing Bushing	25	0.077	35.0



Reducing Bushings (FTG x C) - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS02-16-10	1" x 5/8" Reducing Bushing	25	0.088	40.0
CS02-16-12	1" x 3/4" Reducing Bushing	25	0.093	42.0
CS02-20-08	1-1/4" x 1/2" Reducing Bushing	25	0.110	50.0
CS02-20-12	1-1/4" x 3/4" Reducing Bushing	25	0.115	52.0
CS02-20-16	1-1/4" x 1" Reducing Bushing	10	0.137	62.0
CS02-24-08	1-1/2" x 1/2" Reducing Bushing	10	0.168	76.0
CS02-24-12	1-1/2" x 3/4" Reducing Bushing	10	0.168	76.0
CS02-24-16	1-1/2" x 1" Reducing Bushing	10	0.187	85.0
CS02-24-20	1-1/2" x 1-1/4" Reducing Bushing	10	0.209	95.0
CS02-32-08	2" x 1/2" Reducing Bushing	10	0.309	140.0
CS02-32-12	2" x 3/4" Reducing Bushing	10	0.309	140.0
CS02-32-16	2" x 1" Reducing Bushing	10	0.313	142.0
CS02-32-20	2" x 1-1/4" Reducing Bushing	10	0.315	143.0
CS02-32-24	2" x 1-1/2" Reducing Bushing	10	0.331	150.0
CS02-40-16	2-1/2" x 1" Reducing Bushing	EA	0.595	270.0
CS02-40-20	2-1/2" x 1-1/4" Reducing Bushing	EA	0.595	270.0
CS02-40-24	2-1/2" x 1-1/2" Reducing Bushing	EA	0.595	270.0
CS02-40-32	2-1/2" x 2" Reducing Bushing	EA	0.595	270.0
CS02-48-20	3" x 1-1/4" Reducing Bushing	EA	0.882	400.0
CS02-48-24	3" x 1-1/2" Reducing Bushing	EA	0.882	400.0
CS02-48-32	3" x 2" Reducing Bushing	EA	0.882	400.0
CS02-48-40	3" x 2-1/2" Reducing Bushing	EA	0.882	400.0
CS02-56-48	3-1/2" x 3" Reducing Bushing	EA	1.323	600.0
CS02-64-32	4" x 2" Reducing Bushing	EA	1.984	900.0
CS02-64-40	4" x 2-1/2" Reducing Bushing	EA	1.984	900.0
CS02-64-48	4" x 3" Reducing Bushing	EA	1.984	900.0
CS02-80-48	5" x 3" Reducing Bushing	EA	3.197	1450.0
CS02-80-64	5" x 4" Reducing Bushing	EA	3.197	1450.0
CS02-96-48	6" x 3" Reducing Bushing	EA	4.299	1950.0
CS02-96-64	6" x 4" Reducing Bushing	EA	4.299	1950.0



Tube Caps (C)

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



No Stop Couplings (C x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS0-NSTOP-04	1/4" Coupling (no stop)	100	0.008	3.4
CS0-NSTOP-06	3/8" Coupling (no stop)	100	0.013	6.0
CS0-NSTOP-08	1/2" Coupling (no stop)	25	0.022	10.0
CS0-NSTOP-10	5/8" Coupling (no stop)	50	0.036	16.5
CS0-NSTOP-12	3/4" Coupling (no stop)	25	0.051	23.0
CS0-NSTOP-16	1" Coupling (no stop)	25	0.101	46.0
CS0-NSTOP-20	1-1/4" Coupling (no stop)	10	0.139	63.0
CS0-NSTOP-24	1-1/2" Coupling (no stop)	10	0.209	95.0
CS0-NSTOP-32	2" Coupling (no stop)	5	0.379	172.0
CS0-NSTOP-40	2-1/2" Coupling (no stop)	EA	0.595	270.0
CS0-NSTOP-48	3" Coupling (no stop)	EA	0.904	410.0
CS0-NSTOP-56	3-1/2" Coupling (no stop)	EA	1.323	600.0
CS0-NSTOP-64	4" Coupling (no stop)	EA	1.905	864.0
CS0-NSTOP-80	5" Coupling (no stop)	EA	3.968	1800.0

Couplings with Stop (C x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS0-04	1/4" Coupling w/stop	25	0.008	3.4
CS0-06	3/8" Coupling w/stop	100	0.013	6.0
CS0-08	1/2" Coupling w/stop	25	0.022	10.0
CS0-10	5/8" Coupling w/stop	50	0.036	16.5
CS0-12	3/4" Coupling w/stop	25	0.051	23.0
CS0-16	1" Coupling w/stop	25	0.101	46.0
CS0-20	1-1/4" Coupling w/stop	10	0.139	63.0
CS0-24	1-1/2" Coupling w/stop	10	0.209	95.0
CS0-32	2" Coupling w/stop	5	0.379	172.0
CS0-40	2-1/2" Coupling w/stop	EA	0.617	280.0
CS0-48	3" Coupling w/stop	EA	0.926	420.0
CS0-56	3-1/2" Coupling w/stop	EA	1.323	600.0
CS0-64	4" Coupling w/stop	EA	1.905	864.0
CS0-96	6" Coupling w/stop	EA	5.071	2300.0



Couplings with Rolled Stop (C x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS0-RING-02	1/8" Coupling w/rolled stop	100	0.004	1.6
CS0-RING-04	1/4" Coupling w/rolled stop	100	0.008	3.4
CS0-RING-06	3/8" Coupling w/rolled stop	100	0.012	5.5
CS0-RING-08	1/2" Coupling w/rolled stop	25	0.023	10.5
CS0-RING-10	5/8" Coupling w/rolled stop	50	0.036	16.5
CS0-RING-12	3/4" Coupling w/rolled stop	25	0.051	23.0
CS0-RING-14	7/8" Coupling w/rolled stop	25	0.071	32.0
CS0-RING-16	1" Coupling w/rolled stop	25	0.104	47.0
CS0-RING-20	1-1/4" Coupling w/rolled stop	10	0.139	63.0
CS0-RING-24	1-1/2" Coupling w/rolled stop	10	0.214	97.0
CS0-RING-32	2" Coupling w/rolled stop	5	0.392	178.0



Reducing Couplings (C x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS0-04-02	1/4" x 1/8" Reducing Coupling	25	0.008	3.8
CS0-06-02	3/8" x 1/8" Reducing Coupling	100	0.013	5.8
CS0-06-04	3/8" x 1/4" Reducing Coupling	100	0.012	5.6
CS0-06-05	3/8" OD x 5/16" OD Reducing Coupling	100	0.008	3.8
CS0-08-02	1/2" x 1/8" Reducing Coupling	100	0.023	10.5
CS0-08-04	1/2" x 1/4" Reducing Coupling	100	0.023	10.5
CS0-08-06	1/2" x 3/8" Reducing Coupling	100	0.022	10.0
CS0-10-04	5/8" x 1/4" Reducing Coupling	50	0.035	16.0
CS0-10-06	5/8" x 3/8" Reducing Coupling	50	0.035	16.0
CS0-10-08	5/8" x 1/2" Reducing Coupling	50	0.035	16.0
CS0-12-04	3/4" x 1/4" Reducing Coupling	50	0.049	22.0
CS0-12-06	3/4" x 3/8" Reducing Coupling	50	0.049	22.0
CS0-12-08	3/4" x 1/2" Reducing Coupling	50	0.049	22.0
CS0-12-10	3/4" x 5/8" Reducing Coupling	50	0.049	22.0
CS0-16-06	1" x 3/8" Reducing Coupling	25	0.077	35.0
CS0-16-08	1" x 1/2" Reducing Coupling	25	0.084	38.0
CS0-16-10	1" x 5/8" Reducing Coupling	25	0.084	38.0
CS0-16-12	1" x 3/4" Reducing Coupling	25	0.099	45.0
CS0-20-08	1-1/4" x 1/2" Reducing Coupling	25	0.137	62.0
CS0-20-12	1-1/4" x 3/4" Reducing Coupling	25	0.115	52.0
CS0-20-16	1-1/4" x 1" Reducing Coupling	10	0.137	62.0
CS0-24-08	1-1/2" x 1/2" Reducing Coupling	10	0.163	74.0
CS0-24-12	1-1/2" x 3/4" Reducing Coupling	10	0.179	81.0
CS0-24-16	1-1/2" x 1" Reducing Coupling	10	0.187	85.0
CS0-24-20	1-1/2" x 1-1/4" Reducing Coupling	10	0.198	90.0
CS0-32-08	2" x 1/2" Reducing Coupling	10	0.291	132.0
CS0-32-12	2" x 3/4" Reducing Coupling	10	0.309	140.0
CS0-32-16	2" x 1" Reducing Coupling	10	0.318	144.0
CS0-32-20	2" x 1-1/4" Reducing Coupling	10	0.331	150.0
CS0-32-24	2" x 1-1/2" Reducing Coupling	10	0.335	152.0
CS0-40-16	2-1/2" x 1" Reducing Coupling	EA	0.540	245.0
CS0-40-20	2-1/2" x 1-1/4" Reducing Coupling	EA	0.540	245.0



Reducing Couplings (C x C) - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS0-40-24	2-1/2" x 1-1/2" Reducing Coupling	EA	0.540	245.0
CS0-40-32	2-1/2" x 2" Reducing Coupling	EA	0.628	285.0
CS0-48-24	3" x 1-1/2" Reducing Coupling	EA	0.776	352.0
CS0-48-32	3" x 2" Reducing Coupling	EA	0.827	375.0
CS0-48-40	3" x 2-1/2" Reducing Coupling	EA	0.904	410.0
CS0-56-48	3-1/2" x 3" Reducing Coupling	EA	1.323	600.0
CS0-64-32	4" x 2" Reducing Coupling	EA	1.984	900.0
CS0-64-40	4" x 2-1/2" Reducing Coupling	EA	1.984	900.0
CS0-64-48	4" x 3" Reducing Coupling	EA	1.984	900.0
CS0-64-56	4" x 3-1/2" Reducing Coupling	EA	1.984	900.0
CS0-96-64	6" x 4" Reducing Coupling	EA	4.299	1950.0

Reducing Short Radius Elbows (C x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS7-08-06	1/2" x 3/8" 90° Reducing Short Radius Elbow	EA	0.035	16.0
CS7-12-08	3/4" x 1/2" 90° Reducing Short Radius Elbow	EA	0.073	33.0
CS7-16-08	1" x 1/2" 90° Reducing Short Radius Elbow	EA	0.143	65.0
CS7-16-12	1" x 3/4" 90° Reducing Short Radius Elbow	-	0.154	70.0
CS7-20-12	1-1/4" x 3/4" 90° Reducing Short Radius Elbow	-	-	-
CS7-20-16	1-1/4" x 1" 90° Reducing Short Radius Elbow	EA	0.265	120.0
CS7-32-24	2" x 1-1/2" 90° Reducing Short Radius Elbow	EA	0.706	320.0

Street Elbows (FTG x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS7-2-04	1/4" 90° Street Elbow	100	0.013	6.0
CS7-2-06	3/8" 90° Street Elbow	100	0.021	9.5
CS7-2-08	1/2" 90° Street Elbow	25	0.035	16.0
CS7-2-12	3/4" 90° Street Elbow	25	0.079	36.0
CS7-2-16	1" 90° Street Elbow	20	0.163	74.0
CS7-2-20	1-1/4" 90° Street Elbow	10	0.243	110.0

Street Elbows (FTG x C) - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS7-2-24	1-1/2" 90° Street Elbow	5	0.364	165.0
CS7-2-32	2" 90° Street Elbow	EA	0.672	305.0
CS7-2-40	2-1/2" 90° Street Elbow	EA	1.124	510.0
CS7-2-48	3" 90° Street Elbow	EA	1.764	800.0
CS7-2-64	4" 90° Street Elbow	EA	3.417	1550.0



45° Elbows (C x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS6-02	1/8" 45° Elbow	100	0.008	3.5
CS6-04	1/4" 45° Elbow	100	0.012	5.2
CS6-06	3/8" 45° Elbow	25	0.018	8.0
CS6-08	1/2" 45° Elbow	25	0.031	14.0
CS6-10	5/8" 45° Elbow	50	0.049	22.0
CS6-12	3/4" 45° Elbow	25	0.060	27.0
CS6-16	1" 45° Elbow	20	0.099	45.0
CS6-20	1-1/4" 45° Elbow	10	0.201	91.0
CS6-24	1-1/2" 45° Elbow	5	0.304	138.0
CS6-32	2" 45° Elbow	-	0.547	248.0
CS6-40	2-1/2" 45° Elbow	EA	0.893	405.0
CS6-48	3" 45° Elbow	EA	1.433	650.0
CS6-56	3-1/2" 45° Elbow	EA	2.205	1000.0
CS6-64	4" 45° Elbow	EA	2.535	1150.0
CS6-80	5" 45° Elbow	EA	6.063	2750.0



45° Street Elbows (FTG x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS6-2-04	1/4" 45° Street Elbow	100	0.012	5.5
CS6-2-06	3/8" 45° Street Elbow	100	0.019	8.5
CS6-2-08	1/2" 45° Street Elbow	25	0.031	14.0
CS6-2-10	5/8" 45° Street Elbow	50	0.052	23.5



45° Street Elbows (FTG x C) - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS6-2-12	3/4" 45° Street Elbow	25	0.075	34.0
CS6-2-16	1" 45° Street Elbow	20	0.128	58.0
CS6-2-20	1-1/4" 45° Street Elbow	10	0.198	90.0
CS6-2-24	1-1/2" 45° Street Elbow	5	0.298	135.0
CS6-2-32	2" 45° Street Elbow	EA	0.551	250.0
CS6-2-40	2-1/2" 45° Street Elbow	EA	0.904	410.0
CS6-2-48	3" 45° Street Elbow	EA	1.499	680.0



90° Long Radius Elbows (C x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS7LT-02	1/8" 90° Long Radius Elbow	100	0.011	5.0
CS7LT-04	1/4" 90° Long Radius Elbow	25	0.020	9.0
CS7LT-05	5/16" 90° Long Radius Elbow	100	0.017	7.8
CS7LT-06	3/8" 90° Long Radius Elbow	100	0.030	13.5
CS7LT-08	1/2" 90° Long Radius Elbow	25	0.050	22.5
CS7LT-10	5/8" 90° Long Radius Elbow	50	0.077	35.0
CS7LT-12	3/4" 90° Long Radius Elbow	25	0.115	52.0
CS7LT-14	7/8" 90° Long Radius Elbow	10	0.163	74.0
CS7LT-16	1" 90° Long Radius Elbow	10	0.216	98.0
CS7LT-20	1-1/4" 90° Long Radius Elbow	10	0.364	165.0
CS7LT-24	1-1/2" 90° Long Radius Elbow	5	0.540	245.0
CS7LT-32	2" 90° Long Radius Elbow	EA	0.992	450.0
CS7LT-40	2-1/2" 90° Long Radius Elbow	EA	1.499	680.0
CS7LT-48	3" 90° Long Radius Elbow	EA	2.535	1150.0
CS7LT-64	4" 90° Long Radius Elbow	EA	5.126	2325.0



90° Short Radius Elbows (C x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS7-02	1/8" 90° Short Radius Elbow	100	0.008	3.5
CS7-04	1/4" 90° Short Radius Elbow	100	0.013	6.0



90° Short Radius Elbows (C x C) - *Continued*

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS7-06	3/8" 90° Short Radius Elbow	100	0.020	9.0
CS7-08	1/2" 90° Short Radius Elbow	25	0.034	15.2
CS7-12	3/4" 90° Short Radius Elbow	25	0.065	29.5
CS7-16	1" 90° Short Radius Elbow	20	0.121	55.0
CS7-20	1-1/4" 90° Short Radius Elbow	10	0.225	102.0
CS7-24	1-1/2" 90° Short Radius Elbow	5	0.331	150.0
CS7-32	2" 90° Short Radius Elbow	EA	0.639	290.0
CS7-40	2-1/2" 90° Short Radius Elbow	EA	1.102	500.0
CS7-48	3" 90° Short Radius Elbow	EA	1.720	780.0
CS7-64	4" 90° Short Radius Elbow	EA	3.395	1540.0
CS7-80	5" 90° Short Radius Elbow	EA	6.614	3000.0



Tees (C x C x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CST-02	1/8" Tee	100	0.013	6.1
CST-04	1/4" Tee	100	0.020	9.0
CST-05	5/16" OD Tee	100	0.019	8.5
CST-06	3/8" Tee	100	0.035	15.8
CST-08	1/2" Tee	25	0.058	26.5
CST-10	5/8" Tee	50	0.106	48.0
CST-12	3/4" Tee	10	0.143	65.0
CST-16	1" Tee	10	0.267	121.0
CST-20	1-1/4" Tee	10	0.375	170.0
CST-24	1-1/2" Tee	5	0.595	270.0
CST-32	2" Tee	-	1.047	475.0
CST-40	2-1/2" Tee	EA	1.720	780.0
CST-48	3" Tee	EA	2.646	1200.0
CST-64	4" Tee	EA	5.512	2500.0



Reducing Tees (C x C x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CST-02-02-04	1/8" x 1/8" x 1/4" Reducing Tee	100	0.028	12.5
CST-04-02-02	1/4" x 1/8" x 1/8" Reducing Tee	100	0.022	10.0
CST-04-02-04	1/4" x 1/8" x 1/4" Reducing Tee	100	0.022	10.0
CST-04-04-02	1/4" x 1/4" x 1/8" Reducing Tee	100	0.022	10.0
CST-04-04-06	1/4" x 1/4" x 3/8" Reducing Tee	100	0.044	20.0
CST-04-04-08	1/4" x 1/4" x 1/2" Reducing Tee	100	0.066	30.0
CST-06-02-06	3/8" x 1/8" x 3/8" Reducing Tee	100	0.042	19.0
CST-06-04-02	3/8" x 1/4" x 1/8" Reducing Tee	100	0.042	19.0
CST-06-04-04	3/8" x 1/4" x 1/4" Reducing Tee	100	0.042	19.0
CST-06-04-06	3/8" x 1/4" x 3/8" Reducing Tee	100	0.038	17.0
CST-06-06-02	3/8" x 3/8" x 1/8" Reducing Tee	100	0.042	19.0
CST-06-06-04	3/8" x 3/8" x 1/4" Reducing Tee	100	0.042	19.0
CST-08-06-06	1/2" x 3/8" x 3/8" Reducing Tee	50	0.062	28.0
CST-08-06-08	1/2" x 3/8" x 1/2" Reducing Tee	50	0.062	28.0
CST-08-08-02	1/2" x 1/2" x 1/8" Reducing Tee	50	0.049	22.0
CST-08-08-04	1/2" x 1/2" x 1/4" Reducing Tee	50	0.049	22.0
CST-08-08-06	1/2" x 1/2" x 3/8" Reducing Tee	50	0.049	22.0
CST-08-08-10	1/2" x 1/2" x 5/8" Reducing Tee	50	0.099	45.0
CST-08-08-12	1/2" x 1/2" x 3/4" Reducing Tee	25	0.106	48.0
CST-08-08-16	1/2" x 1/2" x 1" Reducing Tee	10	0.243	110.0
CST-10-08-08	5/8" x 1/2" x 1/2" Reducing Tee	50	0.099	45.0
CST-10-10-04	5/8" x 5/8" x 1/4" Reducing Tee	50	0.088	40.0
CST-10-10-06	5/8" x 5/8" x 3/8" Reducing Tee	50	0.088	40.0
CST-10-10-08	5/8" x 5/8" x 1/2" Reducing Tee	50	0.088	40.0
CST-12-08-04	3/4" x 1/2" x 1/4" Reducing Tee	25	0.154	70.0
CST-12-08-06	3/4" x 1/2" x 3/8" Reducing Tee	25	0.154	70.0
CST-12-08-08	3/4" x 1/2" x 1/2" Reducing Tee	25	0.137	62.0
CST-12-08-12	3/4" x 1/2" x 3/4" Reducing Tee	25	0.159	72.0
CST-12-10-10	3/4" x 5/8" x 5/8" Reducing Tee	25	0.154	70.0
CST-12-12-04	3/4" x 3/4" x 1/4" Reducing Tee	25	0.115	52.0
CST-12-12-06	3/4" x 3/4" x 3/8" Reducing Tee	25	0.115	52.0
CST-12-12-08	3/4" x 3/4" x 1/2" Reducing Tee	25	0.132	60.0



Reducing Tees (C x C x C) - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CST-12-12-10	3/4" x 3/4" x 5/8" Reducing Tee	25	0.132	60.0
CST-12-12-16	3/4" x 3/4" x 1" Reducing Tee	10	0.221	100.0
CST-16-08-08	1" x 1/2" x 1/2" Reducing Tee	10	0.254	115.0
CST-16-08-12	1" x 1/2" x 3/4" Reducing Tee	10	0.254	115.0
CST-16-08-16	1" x 1/2" x 1" Reducing Tee	10	0.287	130.0
CST-16-12-08	1" x 3/4" x 1/2" Reducing Tee	10	0.254	115.0
CST-16-12-12	1" x 3/4" x 3/4" Reducing Tee	10	0.265	120.0
CST-16-12-16	1" x 3/4" x 1" Reducing Tee	10	0.298	135.0
CST-16-16-06	1" x 1" x 3/8" Reducing Tee	10	0.254	115.0
CST-16-16-08	1" x 1" x 1/2" Reducing Tee	10	0.231	105.0
CST-16-16-10	1" x 1" x 5/8" Reducing Tee	10	0.254	115.0
CST-16-16-12	1" x 1" x 3/4" Reducing Tee	10	0.265	120.0
CST-16-16-20	1" x 1" x 1-1/4" Reducing Tee	10	0.397	180.0
CST-16-16-24	1" x 1" x 1-1/2" Reducing Tee	5	0.551	250.0
CST-20-08-20	1-1/4" x 1/2" x 1-1/4" Reducing Tee	EA	-	-
CST-20-12-12	1-1/4" x 3/4" x 3/4" Reducing Tee	10	0.375	170.0
CST-20-12-16	1-1/4" x 3/4" x 1" Reducing Tee	10	0.375	170.0
CST-20-12-20	1-1/4" x 3/4" x 1-1/4" Reducing Tee	10	0.419	190.0
CST-20-16-08	1-1/4" x 1" x 1/2" Reducing Tee	10	0.375	170.0
CST-20-16-12	1-1/4" x 1" x 3/4" Reducing Tee	10	0.375	170.0
CST-20-16-16	1-1/4" x 1" x 1" Reducing Tee	10	0.397	180.0
CST-20-16-20	1-1/4" x 1" x 1-1/4" Reducing Tee	10	0.430	195.0
CST-20-20-08	1-1/4" x 1-1/4" x 1/2" Reducing Tee	10	0.320	145.0
CST-20-20-12	1-1/4" x 1-1/4" x 3/4" Reducing Tee	10	0.342	155.0
CST-20-20-16	1-1/4" x 1-1/4" x 1" Reducing Tee	10	0.342	155.0
CST-20-20-24	1-1/4" x 1-1/4" x 1-1/2" Reducing Tee	5	0.661	300.0
CST-20-20-32	1-1/4" x 1-1/4" x 2" Reducing Tee	EA	1.102	500.0
CST-24-08-24	1-1/2" x 1/2" x 1-1/2" Reducing Tee	EA	-	-
CST-24-12-08	1-1/2" x 3/4" x 1/2" Reducing Tee	EA	-	-
CST-24-12-12	1-1/2" x 3/4" x 3/4" Reducing Tee	5	0.573	260.0
CST-24-12-16	1-1/2" x 3/4" x 1" Reducing Tee	5	0.573	260.0
CST-24-12-20	1-1/2" x 3/4" x 1-1/4" Reducing Tee	5	0.573	260.0



Reducing Tees (C x C x C) - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CST-24-12-24	1-1/2" x 3/4" x 1-1/2" Reducing Tee	5	0.661	300.0
CST-24-16-08	1-1/2" x 1" x 1/2" Reducing Tee	EA	-	-
CST-24-16-12	1-1/2" x 1" x 3/4" Reducing Tee	5	0.573	260.0
CST-24-16-16	1-1/2" x 1" x 1" Reducing Tee	5	0.573	260.0
CST-24-16-20	1-1/2" x 1" x 1-1/4" Reducing Tee	5	0.573	260.0
CST-24-16-24	1-1/2" x 1" x 1-1/2" Reducing Tee	5	0.661	300.0
CST-24-20-08	1-1/2" x 1-1/4" x 1/2" Reducing Tee	EA	-	-
CST-24-20-12	1-1/2" x 1-1/4" x 3/4" Reducing Tee	5	0.573	260.0
CST-24-20-16	1-1/2" x 1-1/4" x 1" Reducing Tee	5	0.573	260.0
CST-24-20-20	1-1/2" x 1-1/4" x 1-1/4" Reducing Tee	5	0.573	260.0
CST-24-20-24	1-1/2" x 1-1/4" x 1-1/2" Reducing Tee	5	0.661	300.0
CST-24-24-08	1-1/2" x 1-1/2" x 1/2" Reducing Tee	5	0.496	225.0
CST-24-24-12	1-1/2" x 1-1/2" x 3/4" Reducing Tee	5	0.496	225.0
CST-24-24-16	1-1/2" x 1-1/2" x 1" Reducing Tee	5	0.562	255.0
CST-24-24-20	1-1/2" x 1-1/2" x 1-1/4" Reducing Tee	5	0.584	265.0
CST-24-24-32	1-1/2" x 1-1/2" x 2" Reducing Tee	EA	1.323	600.0
CST-32-08-32	2" x 1/2" x 2" Reducing Tee	EA	-	-
CST-32-12-32	2" x 3/4" x 2" Reducing Tee	EA	-	-
CST-32-16-16	2" x 1" x 1" Reducing Tee	EA	-	-
CST-32-16-32	2" x 1" x 2" Reducing Tee	EA	-	-
CST-32-20-16	2" x 1-1/4" x 1" Reducing Tee	EA	0.926	420.0
CST-32-20-20	2" x 1-1/4" x 1-1/4" Reducing Tee	EA	0.926	420.0
CST-32-20-24	2" x 1-1/4" x 1-1/2" Reducing Tee	EA	0.926	420.0
CST-32-20-32	2" x 1-1/4" x 2" Reducing Tee	EA	1.102	500.0
CST-32-24-08	2" x 1-1/2" x 1/2" Reducing Tee	EA	-	-
CST-32-24-12	2" x 1-1/2" x 3/4" Reducing Tee	EA	-	-
CST-32-24-16	2" x 1-1/2" x 1" Reducing Tee	EA	0.926	420.0
CST-32-24-20	2" x 1-1/2" x 1-1/4" Reducing Tee	EA	0.926	420.0
CST-32-24-24	2" x 1-1/2" x 1-1/2" Reducing Tee	EA	0.926	420.0
CST-32-24-32	2" x 1-1/2" x 2" Reducing Tee	EA	1.102	500.0
CST-32-32-08	2" x 2" x 1/2" Reducing Tee	EA	0.783	355.0
CST-32-32-12	2" x 2" x 3/4" Reducing Tee		0.827	375.0



Reducing Tees (C x C x C) - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CST-32-32-16	2" x 2" x 1" Reducing Tee	-	0.904	410.0
CST-32-32-20	2" x 2" x 1-1/4" Reducing Tee	EA	0.937	425.0
CST-32-32-24	2" x 2" x 1-1/2" Reducing Tee	-	1.014	460.0
CST-32-32-40	2" x 2" x 2-1/2" Reducing Tee	EA	2.205	1000.0
CST-40-12-40	2-1/2" x 3/4" x 2-1/2" Reducing Tee	EA	-	-
CST-40-20-32	2-1/2" x 1-1/4" x 2" Reducing Tee	EA	-	-
CST-40-24-40	2" x 1-1/2" x 2-1/2" Reducing Tee	EA	1.874	850.0
CST-40-32-16	2-1/2" x 2" x 1" Reducing Tee	EA	1.653	750.0
CST-40-32-20	2-1/2" x 2" x 1-1/4" Reducing Tee	EA	1.653	750.0
CST-40-32-24	2-1/2" x 2" x 1-1/2" Reducing Tee	EA	1.653	750.0
CST-40-32-32	2-1/2" x 2" x 2" Reducing Tee	EA	1.653	750.0
CST-40-32-40	2-1/2" x 2" x 2-1/2" Reducing Tee	EA	1.874	850.0
CST-40-40-08	2-1/2" x 2-1/2" x 1/2" Reducing Tee	EA	1.653	750.0
CST-40-40-12	2-1/2" x 2-1/2" x 3/4" Reducing Tee	EA	1.653	750.0
CST-40-40-16	2-1/2" x 2-1/2" x 1" Reducing Tee	EA	1.367	620.0
CST-40-40-20	2-1/2" x 2-1/2" x 1-1/4" Reducing Tee	EA	1.653	750.0
CST-40-40-24	2-1/2" x 2-1/2" x 1-1/2" Reducing Tee	EA	1.653	750.0
CST-40-40-32	2-1/2" x 2-1/2" x 2" Reducing Tee	EA	1.587	720.0
CST-48-12-48	3" x 3/4" x 3" Reducing Tee	EA	-	-
CST-48-20-48	3" x 1-1/4" x 3" Reducing Tee	EA	-	-
CST-48-32-32	3" x 2" x 2" Reducing Tee	EA	2.976	1350.0
CST-48-32-40	3" x 2" x 2-1/2" Reducing Tee	EA	2.976	1350.0
CST-48-32-48	3" x 2" x 3" Reducing Tee	EA	2.976	1350.0
CST-48-40-16	3" x 2-1/2" x 1" Reducing Tee	EA	2.976	1350.0
CST-48-40-20	3" x 2-1/2" x 1-1/4" Reducing Tee	EA	2.976	1350.0
CST-48-40-32	3" x 2-1/2" x 2" Reducing Tee	EA	2.976	1350.0
CST-48-40-40	3" x 2-1/2" x 2-1/2" Reducing Tee	EA	2.976	1350.0
CST-48-40-48	3" x 2-1/2" x 3" Reducing Tee	EA	2.976	1350.0
CST-48-48-08	3" x 3" x 1/2" Reducing Tee	EA	2.976	1350.0
CST-48-48-12	3" x 3" x 3/4" Reducing Tee	EA	2.976	1350.0
CST-48-48-16	3" x 3" x 1" Reducing Tee	EA	2.976	1350.0
CST-48-48-20	3" x 3" x 1-1/4" Reducing Tee	EA	2.976	1350.0



Reducing Tees (C x C x C) - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CST-48-48-24	3" x 3" x 1-1/2" Reducing Tee	EA	2.976	1350.0
CST-48-48-32	3" x 3" x 2" Reducing Tee	EA	2.976	1350.0
CST-48-48-40	3" x 3" x 2-1/2" Reducing Tee	EA	2.976	1350.0
CST-64-32-64	4" x 2" x 4" Reducing Tee	EA	5.512	2500.0
CST-64-40-40	4" x 2-1/2" x 2-1/2" Reducing Tee	EA	-	-
CST-64-48-32	4" x 3" x 2" Reducing Tee	EA	5.512	2500.0
CST-64-48-40	4" x 3" x 2-1/2" Reducing Tee	EA	5.512	2500.0
CST-64-48-48	4" x 3" x 3" Reducing Tee	EA	5.512	2500.0
CST-64-48-64	4" x 3" x 4" Reducing Tee	EA	5.512	2500.0
CST-64-64-08	4" x 4" x 1/2" Reducing Tee	EA	-	-
CST-64-64-12	4" x 4" x 3/4" Reducing Tee	EA	-	-
CST-64-64-16	4" x 4" x 1" Reducing Tee	EA	-	-
CST-64-64-20	4" x 4" x 1-1/4" Reducing Tee	EA	5.512	2500.0
CST-64-64-24	4" x 4" x 1-1/2" Reducing Tee	EA	5.512	2500.0
CST-64-64-32	4" x 4" x 2" Reducing Tee	EA	5.512	2500.0
CST-64-64-40	4" x 4" x 2-1/2" Reducing Tee	EA	5.512	2500.0
CST-64-64-48	4" x 4" x 3" Reducing Tee	EA	5.401	2450.0
CST-80-80-64	5" x 5" x 4" Reducing Tee	EA	-	-
CST-96-96-48	6" x 6" x 3" Reducing Tee	EA	-	-



Unions (C x C)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CS33-04	1/4" Union	50	0.110	50.0
CS33-06	3/8" Union	50	0.143	65.0
CS33-08	1/2" Union	25	0.190	86.0
CS33-12	3/4" Union	25	0.375	170.0
CS33-16	1" Union	10	0.507	230.0
CS33-20	1-1/4" Union	-	0.750	340.0
CS33-24	1-1/2" Union	5	1.014	460.0
CS33-32	2" Union	EA	1.720	780.0
CS33-40	2-1/2" Union	EA	2.315	1050.0
CS33-48	3" Union	EA	3.803	1725.0



FAST ORDER TURNAROUND

Our Operations Center is strategically located in the Memphis, Tennessee metro area to streamline delivery and bolster the customer service that NDL is known for throughout the industry.



We Focus on Quality and Service So You Can Install with Confidence.

Since 1998, our mission has been to stay ahead of the curve as an industry leader in the HVAC, Refrigeration, and Plumbing markets. We have achieved this over the years by heavily emphasizing quality, and innovation, and maintaining a global team of experienced professionals to deliver top-notch service. We continue to hold ourselves to the highest standards, never sacrificing our commitment to our customers or our product that has what made us the company we are today.

What you can expect from us:

- Fast order turnaround
- Real-time order communications
- Field-experienced sales and technical support
- Parts packaged in contractor-friendly sized bags
- High-quality control standards for superior fit and finish



Offering the Same High-Quality Standards with all of our Plumbing Products.

Building on our success gained from our HVAC-R products, we have grown our offerings to include plumbing products as well which include PAC Fittings that are ASME approved. Consider NDL for copper press fittings, plumbing (WOG) valves, PEX, PPSU PEX, PVC, water hose connectors and more!

See all of our plumbing products at [ndlinc.com](https://www.ndlinc.com).



Explore our full line of high-quality HVAC-R and plumbing products.

[ndlinc.com](https://www.ndlinc.com) | 1-866-635-6888 | sales@ndlinc.com

@ndlindustries

