

Copper Fittings



SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS

CTS fittings for use with Style 606 copper connection couplings or Style 641 Vic-Flange Adapters. Fittings are full flow, standard radius wrought copper supplied roll grooved or bronze castings with "as cast" grooves. Currently available configurations are 90° elbows No. 610, 45° elbows No. 611, straight tees No. 620, grooved reducing tees No. 625, grooved by "cup" reducing tees No. 626 and grooved by "PermaLynx" reducing tees No. 627, grooved concentric reducers No. 650, grooved by "cup" concentric reducers No. 652, grooved by "PermaLynx" concentric reducers No. 653 and No. 660 caps.



MATERIAL SPECIFICATIONS

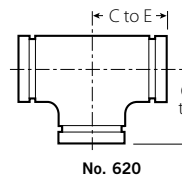
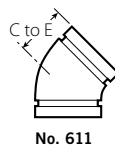
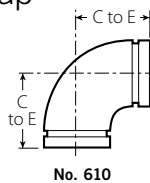
Copper Fittings: Wrought copper per ASTM B-75 C12200 or ASTM B-152 C11000* and ANSI B 16.22, or bronze sand casting per ASTM B-584-87 copper alloy CDA 836 (85-5-5) per ANSI B 16.18.

*Applies to 6 x 4" No. 650 Reducer only.

DIMENSIONS

Elbows, Tee and Cap

- NO. 610 90° Elbow
- NO. 611 45° Elbow
- NO. 620 Tee
- NO. 660 Cap



Size	No. 610 90° Elbow		No. 611 45° Elbow		No. 620 Tee		No. 660 Cap	
	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	T Inches mm	Approx. Wgt. Each Lbs. kg
2 54.0	2.91 74	0.9 0.4	2.19 56	0.8 0.4	2.69 62	1.1 c 0.5	0.96 24	1.2 c 0.5
2½ 66.7	3.31 84	1.3 0.6	2.31 59	1.1 0.5	3.20 81	1.8 c 0.8	0.96 24	1.4 c 0.6
3 79.4	3.81 97	4.1 1.9	2.59 66	1.6 0.7	3.52 89	3.2 c 1.5	0.96 24	1.4 c 0.6
4 104.8	4.75 121	6.7 c 3.0	3.19 81	3.4 1.5	4.25 108	6.1 c 2.8	0.96 24	2.4 c 1.1
5 130.2	5.94 151	15.0 c 6.8	3.25 83	10.0 c 4.5	5.94 151	18.5 c 8.4	0.96 24	3.5 c 1.6
6 155.6	6.94 176	20.0 c 9.1	3.63 92	13.0 c 5.9	6.94 176	25.5 c 11.6	0.96 24	4.2 c 1.9
8 206.4	7.75 197	26.0 c 11.8	4.25 108	15.6 c 7.1	7.75 197	45.0 c 20.4	—	—

c = Bronze casting; all others, drawn copper.

JOB/OWNER

System No. _____
Location _____

CONTRACTOR

Submitted By _____
Date _____

ENGINEER

Spec Sect _____ Para _____
Approved _____
Date _____

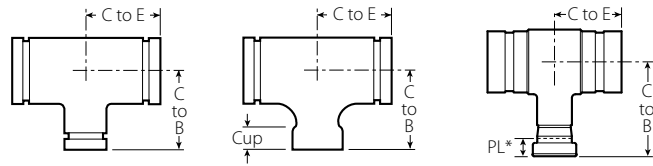
Copper Fittings

Reducing Tee

No. 625 Grv. × Grv. × Grv.

No. 626 Grv. × Grv. × Cup

No. 627 Grv. × Grv. × PL*



Size	No. 625 Grv. × Grv. × Grv.			No. 626 Grv. × Grv. × Cup				No. 627 Grv. × Grv. × PL*				
	Nominal Inches Actual mm	C to E Inches mm	C to B Inches mm	Approx. Wgt. Lbs. kg	C to E Inches mm	C to B Inches mm	Cup Inches mm	Approx. Wgt. Lbs. kg	C to E Inches mm	C to B Inches mm	PL* Inches mm	Approx. Wgt. Lbs. kg
2 54.0 × 2 54.0 × ¾ 22.5	1 28.6	—	—	—	2.20 56	1.98 50	0.75 19	0.75 0.3	2.20 56	2.93 75	0.52 13	0.84 0.4
	1 ¼ 34.9	—	—	—	2.33 59	2.20 56	0.91 23	0.81 0.4	2.33 59	3.27 83	0.56 14	0.96 0.4
	1 ½ 41.3	—	—	—	2.48 63	2.35 60	0.97 25	0.85 0.4	2.48 63	3.46 88	0.68 17	1.04 0.5
	2 54.0	—	—	—	2.55 65	2.28 58	1.09 28	0.87 0.4	2.55 65	3.46 88	0.75 19	1.14 0.5
2½ 66.7 × 2½ 66.7 × ¾ 22.5	1 28.6	—	—	—	2.26 57	2.23 57	0.75 19	1.00 0.5	2.26 57	3.25 83	0.52 13	1.26 0.6
	1 ¼ 34.9	—	—	—	2.40 61	2.40 61	0.91 23	1.17 0.5	2.4 61	3.58 91	0.56 14	1.32 0.6
	1 ½ 41.3	—	—	—	2.52 64	2.57 65	0.97 25	1.23 0.5	2.52 64	3.68 94	0.68 17	1.42 0.6
	2 54.0	3.28 83	3.38 86	1.58 0.7	—	—	—	—	—	—	—	—
3 79.4 × 3 79.4 × ¾ 22.5	1 28.6	—	—	—	2.41 61	2.56 65	0.75 19	1.40 0.6	2.41 61	3.58 91	0.52 13	1.54 0.7
	1 ¼ 34.9	—	—	—	2.54 65	2.79 71	0.91 23	1.45 0.7	2.54 65	3.97 101	0.56 14	1.60 0.7
	1 ½ 41.3	—	—	—	2.63 67	2.89 73	0.97 25	1.74 0.8	2.63 67	4.00 102	0.68 18	1.93 0.9
	2 54.0	3.00 76	3.38 86	2.14 c 1.0	—	—	—	—	—	—	—	—
4 104.8 × 4 104.8 × ¾ 22.5	1 22.5	—	—	—	3.04 77	2.97 75	0.75 19	2.75 1.2	3.04 77	3.99 101	0.52 13	2.95 1.3
	1 ¼ 34.9	—	—	—	3.10 79	3.22 82	0.91 23	2.86 1.3	3.10 79	4.40 112	0.56 14	3.01 1.4
	1 ½ 41.3	—	—	—	3.25 83	3.47 88	0.97 25	3.03 1.4	3.25 83	4.58 116	0.68 18	3.22 1.5
	2 54.0	3.35 85	3.65 93	1.09 28	3.16 80	3.35 85	1.09 28	3.16 1.4	3.35 85	4.83 123	0.75 19	3.43 1.6
	2 ½ 66.7	3.66 93	4.13 105	5.25 c 2.4	—	—	—	—	—	—	—	—
	3 79.4	3.94 100	4.06 103	5.75 c 2.6	—	—	—	—	—	—	—	—
	4 104.8	4.19 106	4.16 106	6.25 c 2.8	—	—	—	—	—	—	—	—

* PL refers to PermaLynx end and PL dimensions include the tube insertion depth.
c = Bronze casting; all others, drawn copper.

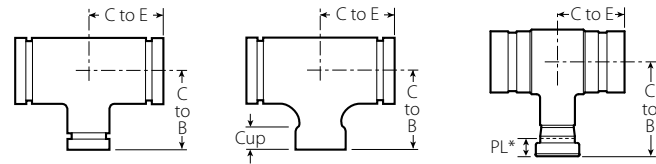
Copper Fittings

Reducing Tee

No. 625 Grv. × Grv. × Grv.

No. 626 Grv. × Grv. × Cup

No. 627 Grv. × Grv. × PL*



Size		No. 625 Grv. × Grv. × Grv.			No. 626 Grv. × Grv. × Cup				No. 627 Grv. × Grv. × PL*			
Nominal Inches	Actual mm	C to E Inches mm	C to B Inches mm	Approx. Wgt. Lbs. kg	C to E Inches mm	C to B Inches mm	Cup Inches mm	Approx. Wgt. Lbs. kg	C to E Inches mm	C to B Inches mm	PL* Inches mm	Approx. Wgt. Lbs. kg
5	130.2 × 130.2 × 3	79.4	4.63 118	5.41 c 2.5	—	—	—	—	—	—	—	—
		104.8	4.25 108	8.75 c 4.0	—	—	—	—	—	—	—	—
6	155.6 × 155.6 × 2½	66.7	3.63 92	6.66 c 3.0	—	—	—	—	—	—	—	—
		79.4	3.69 94	8.12 c 3.7	—	—	—	—	—	—	—	—
		104.8	4.19 106	9.75 c 4.4	—	—	—	—	—	—	—	—
		130.2	4.69 119	11.25 c 5.1	—	—	—	—	—	—	—	—

* PL refers to PermaLynx end and PL dimensions include the tube insertion depth.

c = Bronze casting; all others, drawn copper.

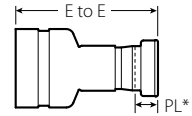
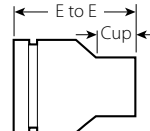
Copper Fittings

Concentric Reducer

No. 650 Grv. × Grv.

No. 652 Grv. × Cup

No. 653 Grv. × PL*



Size		No. 650 Grv. × Grv.		No. 652 Grv. × Cup			No. 653 Grv. × PL*		
Nominal Inches	Actual mm	E to E Inches	Approx. Wgt. Each Lbs. kg	E to E Inches	Cup Inches	Approx. Wgt. Each Lbs. kg	E to E Inches	PL* Inches	Approx. Wgt. Each Lbs. kg
2 54.0	1 28.6	—	—	2.70 69	0.91 23	0.50 0.2	3.89 99	0.56 14	0.65 0.3
	1¼ 34.9	—	—	3.00 76	0.97 25	0.45 0.2	4.14 106	0.68 17	0.64 0.3
	1½ 41.3	—	—	2.94 75	1.09 28	0.45 0.2	4.11 104	0.75 19	0.72 0.3
2½ 66.7	1 28.6	—	—	3.25 83	0.91 23	0.78 0.4	4.43 113	0.56 14	0.93 0.4
	1¼ 34.9	—	—	3.52 89	0.97 25	0.60 0.3	4.63 118	0.68 17	0.79 0.4
	1½ 41.3	—	—	3.45 88	1.09 28	0.65 0.3	4.62 117	0.75 19	0.92 0.4
	2 54.0	3.29 83	1.00 0.5	3.30 84	1.34 34	0.65 0.3	—	—	—
3 79.4	1½ 41.3	—	—	3.68 93	1.09 28	1.06 0.5	4.85 123	0.75 19	0.92 0.4
	2 54.0	2.50 64	0.95 c 0.4	4.10 104	1.34 34	0.99 0.5	—	—	—
	2½ 66.7	3.38 86	0.92 0.4	—	—	—	—	—	—
4 104.8	2 54.0	4.75 121	1.65 c 0.8	4.75 121	1.34 34	1.95 0.9	—	—	—
	2½ 66.7	3.00 76	1.95 c 0.9	—	—	—	—	—	—
	3 79.4	3.00 76	2.02 0.9	—	—	—	—	—	—
5 130.2	3 79.4	3.88 99	6.30 c 2.9	—	—	—	—	—	—
	4 104.8	3.38 86	6.30 c 2.9	—	—	—	—	—	—
6 155.6	3 79.4	4.38 111	6.40 c 2.9	—	—	—	—	—	—
	4 104.8	3.88 99	6.50 c 2.9	—	—	—	—	—	—
	5 130.2	3.38 86	6.70 c 3.0	—	—	—	—	—	—
8 206.4	6 155.6	5.00 127	10.0 c 4.5	—	—	—	—	—	

* PL refers to PermaLynx end and PL dimensions include the tube insertion depth.

c = Bronze casting; all others, drawn copper.

Copper Fittings

INSTALLATION

Reference should always be made to the I-600 Victaulic Field Installation Handbook for Copper Connection Products. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

WARRANTY

Refer to the Warranty section of the current Price List or contact Victaulic for details.

NOTE

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations. This includes the substitution of wrought for cast or cast or wrought constructed fittings that provide the same fit and function.



WCAS-77WH77

For complete contact information, visit www.victaulic.com

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