Type 304L Stainless Steel Butt-Weld Tube Fittings CAD

- Maximum Pressure: See below
- Temperature Range: –65° to +250° F
- Tubing: Use with seamless or welded Type 304 stainless steel (see pages 124-128)

Polished fittings are A3

When you weld these fittings to tubing, you'll get flush joints that improve flow and reduce turbulence and contamination. All are made of Type 304L stainless steel tubing. They can be sterilized with steam (autoclaving) and chemicals. Vacuum rating is 10^{-6} torr (10^{-6} mm Hg) @ 72° F.

***Polished Fittings*—** All meet 3-A sanitary requirements, except caps. Use with dairy, water, and air. They're polished with a 150 grit abrasive on the OD to a 32Ra finish and with a 180 grit abrasive on the ID to a 25Ra-32Ra finish.

***Unpolished Fittings*—** Use with water and air.

Centered reducing couplings, which are also known as concentric reducers, allow you to connect one tube to another tube of a smaller diameter so that the centers align.

Off-center reducing couplings, which are also known as eccentric reducers, allow you to connect one tube to another tube of a smaller diameter so that the centers are offset. Use for horizontal flow.

Also Available: Type 316 stainless steel fittings. Please ask for 5237K1 and specify the corresponding polished or unpolished part number from the listing below.

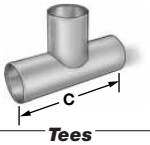








For Tube OD	Wall Thick.	Radius	Max. psi @ 72° F	90° Short Elbows (A)	Each	90° Long Elbows (A)	Each	45° Short Elbows (B)	Each	45° Long Elbows (B)	Each
Polished											
1″	0.065″	1½″	600	1½″	44655K17	$20.35	2 1/16″	44655K11	$23.60	5/8″	44655K37	$16.86	1 3/16″	44655K21	$26.40
1½″	0.065″	2¼″	600	2¼″	44655K18	20.06	2 15/16″	44655K12	26.17	15/16″	44655K38	16.86	1 5/8″	44655K22	25.72
2″	0.065″	3″	550	3″	44655K19	23.26	4 1/16″	44655K13	28.78	1 1/4″	44655K39	17.91	2 5/16″	44655K23	26.88
2½″	0.065″	3¾″	450	3¾″	44655K27	34.54	5 3/16″	44655K14	40.93	1 9/16″	44655K57	27.67	3″	44655K24	35.60
3″	0.065″	4½″	350	4½″	44655K28	45.28	6 5/16″	44655K15	48.48	1 7/8″	44655K58	32.56	3 11/16″	44655K25	47.23
4″	0.083″	6″	250	6″	44655K29	79.30	8 5/16″	44655K16	95.98	2 1/2″	44655K59	58.14	4 13/16″	44655K26	82.50
6″	0.109″	9″	125	9″	44655K52	375.00	12″	44655K56	460.00	3 3/4″	44655K53	320.00	6 3/4″	44655K61	360.00
Unpolished											
1″	0.065″	1½″	600	1½″	44675K17	9.34	2 1/16″	44675K11	14.26	5/8″	44675K37	9.77	1 3/16″	44675K21	16.00
1½″	0.065″	2¼″	600	2¼″	44675K18	9.34	2 15/16″	44675K12	13.91	15/16″	44675K38	10.25	1 5/8″	44675K22	16.70
2″	0.065″	3″	550	3″	44675K19	12.15	4 1/16″	44675K13	16.34	1 1/4″	44675K39	12.19	2 5/16″	44675K23	21.12
2½″	0.065″	3¾″	450	3¾″	44675K27	19.55	5 3/16″	44675K14	26.63	1 9/16″	44675K57	17.59	3″	44675K24	29.62
3″	0.065″	4½″	350	4½″	44675K28	23.96	6 5/16″	44675K15	36.21	1 7/8″	44675K58	18.97	3 11/16″	44675K25	36.37
4″	0.083″	6″	250	6″	44675K29	44.08	8 5/16″	44675K16	65.13	2 1/2″	44675K59	36.59	4 13/16″	44675K26	62.53
6″	0.109″	9″	125	9″	44675K49	206.00	12″	44675K51	296.00	3 3/4″	44675K69	144.00	6 3/4″	44675K71	260.00





For Tube OD	Wall Thick.	Max psi @ 72° F	Tees (C)	Each	Caps	Each
Polished						
1″	0.065″	600	3¾″	44655K31	$30.80	44655K81	$31.00
1½″	0.065″	600	4½″	44655K32	31.24	44655K82	31.00
2″	0.065″	550	6″	44655K33	35.00	44655K83	32.44
2½″	0.065″	450	6″	44655K34	50.89	44655K84	32.79
3″	0.065″	350	6½″	44655K35	66.28	44655K85	32.79
4″	0.083″	250	7¾″	44655K36	90.70	44655K86	37.33
6″	0.109″	125	10″	44655K55	530.00	44655K51♠	210.00
Unpolished						
1″	0.065″	600	3¾″	44675K31	19.55	44675K91	16.79
1½″	0.065″	600	4½″	44675K32	20.68	44675K92	15.69
2″	0.065″	550	6″	44675K33	22.08	44675K93	17.25
2½″	0.065″	450	6″	44675K34	40.00	44675K94	18.54
3″	0.065″	350	6½″	44675K35	45.43	44675K95	19.43
4″	0.083″	250	7¾″	44675K36	71.28	44675K96	27.37
6″	0.109″	125	10″	44675K53	280.00	44675K97♠	93.76

♠ Wall thickness is 0.120″.

REDUCING COUPLINGS

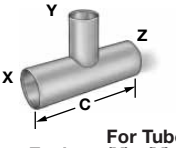




For Tube OD	Wall Thick.	Max psi @ 72° F	Centered	Each	Off-Center	Each
Polished						
1½″ ×1″	0.065″	600	44655K42	$25.23	44655K62	$49.77
2″ ×1½″	0.065″	550	44655K43	27.67	44655K63	49.77
2½″ ×1½″	0.065″	450	44655K44	40.70	44655K64	69.96
2½″ ×2″	0.065″	450	44655K45	33.37	44655K65	56.63
3″ ×1½″	0.065″	350	44655K46	77.56	44655K66	109.62
3″ ×2″	0.065″	350	44655K47	39.65	44655K67	75.81
3″ ×2½″	0.065″	350	44655K48	39.65	44655K68	72.09
4″ ×3″	0.083″	250	44655K54♣	68.49	44655K74♣	86.59
6″ ×4″	0.109″	125	44655K69■	275.00	44655K87■	430.00
Unpolished						
1½″ ×1″	0.065″	600	44675K41	14.38	44675K61	28.49
2″ ×1″	0.065″	550	44675K42	28.64	44675K62	58.88
2″ ×1½″	0.065″	550	44675K43	15.00	44675K63	24.15
2½″ ×1½″	0.065″	450	44675K44	27.12	44675K64	48.66
2½″ ×2″	0.065″	450	44675K45	17.75	44675K65	32.50
3″ ×1½″	0.065″	350	44675K46	45.36	44675K66	72.78
3″ ×2″	0.065″	350	44675K47	24.03	44675K67	42.50
3″ ×2½″	0.065″	350	44675K48	21.85	44675K68	59.75
4″ ×3″	0.083″	250	44675K52♣	30.25	44675K72♣	53.02
6″ ×4″	0.109″	125	44675K73■	170.00	44675K74■	260.00

♣ 3″ end has 0.065″ wall thick. ■ 4″ end has 0.083″ wall thick.

REDUCING TEES



For Tube OD, (X) × (Y) × (Z)	Wall Thick.	Max. psi @ 72° F	(C)	Each
Polished				
1½″ ×1″ ×1½″	0.065″	600	4½″	44655K71	$41.25
2″ ×1″ ×2″	0.065″	550	6″	44655K72	65.00
2″ ×1½″ ×2″	0.065″	550	6″	44655K73	65.00
3″ ×2″ ×3″	0.065″	350	6½″	44655K75	86.88
4″ ×2″ ×4″	0.083″	250	7¾″	44655K76★	197.50
4″ ×3″ ×4″	0.083″	250	7¾″	44655K77♣	197.50

★ 2″ end has 0.065″ wall thickness. ♣ 3″ end has 0.065″ wall thickness.

For Tube OD, (X) × (Y) × (Z)	Wall Thick.	Max. psi @ 72° F	(C)	Each
Unpolished				
1½″ ×1″ ×1½″	0.065″	600	4½″	44675K55	$31.25
2″ ×1″ ×2″	0.065″	550	6″	44675K56	46.75
2″ ×1½″ ×2″	0.065″	550	6″	44675K75	46.75
3″ ×2″ ×3″	0.065″	350	6½″	44675K76	62.50
4″ ×2″ ×4″	0.083″	250	7¾″	44675K77★	89.38
4″ ×3″ ×4″	0.083″	250	7¾″	44675K78♣	89.38