

Philadelphia Regional Center 2450 Wheatsheaf Lane

Philadelphia, PA 19137

O 215-831-0700
F 215-533-1645
E sales@tiogapipe.com

Houston Regional Center 616 FM 1960 W, Suite 700 Houston, TX 77090

O 713-433-2111
F 281-397-0132
E sales@tiogapipe.com

Chattanooga Regional Center 1301 Riverfront Parkway, Suite 108 Chattanooga, TN 37402 O 423-899-3398 F 423-899-9695

E sales@tiogapipe.com

PIPE DIMENSIONS AND WEIGHTS

Available in commercial and nuclear

U.S./METRIC

NOMINAL PIPE SIZE	OD	SCHEDULE DESIGNATIONS		WALL THICKNESS		WEIGHT		ID		
INCH MM	INCH MM	_	SMI		INCH	MM	LBS/ FOOT	KG/ METER	INCH	MM
1/8	0.405 10.3	10 STD XS	40 80	10S 40S 80S	0.049 0.068 0.095	1.24 1.73 2.41	0.19 0.24 0.31	0.28 0.37 0.47	0.307 0.269 0.215	7.82 6.84 5.84
1/4 8	0.540 13.7	10 STD XS	40 80	10S 40S 80S	0.065 0.088 0.119	1.65 2.24 3.02	0.33 0.43 0.54	0.49 0.63 0.80	0.410 0.364 0.302	10.40 9.22 7.66
3/8 10	0.675 17.1	10 STD XS	40 80	10S 40S 80S	0.065 0.091 0.126	1.65 2.31 3.20	0.42 0.57 0.74	0.63 0.84 1.10	0.545 0.493 0.423	13.80 12.48 10.70
1/2 15	0.840 21.3	5 10 STD XS 160 XX	40 80	5S 10S 40S 80S	0.065 0.083 0.109 0.147 0.188 0.294	1.65 2.11 2.77 3.73 4.78 7.47	0.54 0.67 0.85 1.09 1.31 1.72	0.80 1.00 1.27 1.62 1.95 2.55	0.710 0.674 0.622 0.546 0.464 0.252	18.00 17.08 15.76 13.84 11.74 6.36
3/4 20	1.050 26.7	5 10 STD XS 160 XX	40 80	5S 10S 40S 80S	0.065 0.083 0.113 0.154 0.219 0.308	1.65 2.11 2.87 3.91 5.56 7.82	0.69 0.86 1.13 1.48 1.95 2.44	1.03 1.28 1.69 2.20 2.90 3.64	0.920 0.884 0.824 0.742 0.612 0.434	23.40 22.48 20.96 18.88 15.58 11.06
1 25	1.315 33.4	5 10 STD XS 160 XX	40 80	5S 10S 40S 80S	0.065 0.109 0.133 0.179 0.250 0.358	1.65 2.77 3.38 4.55 6.35 9.09	0.87 1.41 1.68 2.17 2.85 3.66	1.29 2.09 2.50 3.24 4.24 5.45	1.185 1.097 1.049 0.957 0.815 0.599	30.10 27.86 26.64 24.30 20.70 15.22
1-1/4 32	1.660 42.2	5 10 STD XS 160 XX	40 80	5S 10S 40S 80S	0.065 0.109 0.140 0.191 0.250 0.382	1.65 2.77 3.56 4.85 6.35 9.70	1.11 1.81 2.27 3.00 3.77 5.22	1.65 2.69 3.39 4.47 5.61 7.77	1.530 1.442 1.380 1.278 1.160 0.896	38.90 36.66 35.08 32.50 29.50 22.80
1-1/2 40	1.900 48.3	5 10 STD XS 160 XX	40 80	5S 10S 40S 80S	0.065 0.109 0.145 0.200 0.281 0.400	1.65 2.77 3.68 5.08 7.14 10.15	1.28 2.09 2.72 3.63 4.86 6.41	1.90 3.11 4.05 5.41 7.25 9.55	1.770 1.682 1.610 1.500 1.338 1.100	45.00 42.76 40.94 38.14 34.02 28.00
2 50	2.375 60.3	5 10 STD XS 160 XX	40 80	5S 10S 40S 80S	0.065 0.109 0.154 0.218 0.344 0.436	1.65 2.77 3.91 5.54 8.74 11.07	1.61 2.64 3.66 5.03 7.47 9.04	2.39 3.93 5.44 7.48 11.11 13.44	2.245 2.157 2.067 1.939 1.687 1.503	57.00 54.76 52.48 49.22 42.82 38.16
2-1/2 65	2.875 73.0	5 10 STD XS 160 XX	40 80	5S 10S 40S 80S	0.083 0.120 0.203 0.276 0.375 0.552	2.11 3.05 5.16 7.01 9.53 14.02	2.48 3.53 5.80 7.67 10.02 13.71	3.69 5.26 8.63 11.41 14.92 20.39	2.709 2.635 2.469 2.323 2.125 1.771	68.78 66.90 62.68 58.98 53.94 44.96
3 80	3.500 88.9	5 10 STD XS 160 XX	40 80	5S 10S 40S 80S	0.083 0.120 0.216 0.300 0.438 0.600	2.11 3.05 5.49 7.62 11.13 15.24	3.03 4.34 7.58 10.26 14.34 18.60	4.52 6.46 11.29 15.27 21.35 27.68	3.334 3.260 3.068 2.900 2.624 2.300	84.68 82.80 77.92 73.66 66.64 58.42
3-1/2 90	4.000 101.6	5 10 STD XS XX	40 80	5S 10S 40S 80S	0.083 0.120 0.226 0.318 0.636	2.11 3.05 5.74 8.08 16.15	3.48 4.98 9.12 12.52 22.87	5.18 7.41 13.57 18.64 34.03	3.834 3.760 3.548 3.364 2.728	97.38 95.50 90.12 85.44 69.30
4 100	4.500 114.3	5 10 STD XS 120 160 XX	40 80	5S 10S 40S 80S	0.083 0.120 0.156 0.188 0.237 0.337 0.438 0.531 0.674	2.11 3.05 3.96 4.78 6.02 8.56 11.13 13.49 17.12	3.92 5.62 7.24 8.67 10.80 15.00 19.02 22.53 27.57	5.84 8.37 10.78 12.91 16.08 22.32 28.32 33.54 41.03	4.334 4.260 4.188 4.124 4.026 3.826 3.624 3.438 3.152	110.08 108.20 106.38 104.74 102.26 97.18 92.04 87.32 80.06
4-1/2 115	5.000 127.0	STD XS XX	40 80	40S 80S	0.247 0.355 0.710	6.27 9.02 18.03	12.55 17.63 32.56	18.67 26.24 48.45	4.506 4.290 3.580	114.46 108.96 90.94

NOMINAL PIPE SIZE	OD	SCH DESIG	HEDU SNAT		W.A THICK		WEI	GHT	ID	
INCH MM	INCH MM	А	SME		INCH	MM	LBS/ FOOT	KG/ METER	INCH	MM
5 125	5.563 141.3	5 10 STD XS 120 160 XX	40 80	5S 10S 40S 80S	0.109 0.134 0.258 0.375 0.500 0.625 0.750	2.77 3.40 6.55 9.53 12.70 15.88 19.05	6.36 7.78 14.63 20.80 27.06 32.99 38.59	9.46 11.56 21.77 30.97 40.28 49.12 57.43	5.345 5.295 5.047 4.813 4.563 4.313 4.063	135.76 134.50 128.20 122.24 115.90 109.54 103.20
6 150	6.625 168.3	5 10 STD XS 120 160 XX	40 80	5S 10S 40S 80S	0.109 0.134 0.188 0.280 0.432 0.562 0.719 0.864	2.77 3.40 4.78 7.11 10.97 14.27 18.26 21.95	7.59 9.30 12.94 18.99 28.60 36.43 45.39 53.21	11.31 13.83 19.28 28.26 42.56 54.21 67.57 79.22	6.407 6.357 6.249 6.065 5.761 5.501 5.187 4.897	162.76 161.50 158.74 154.08 146.36 139.76 131.78 124.40
7 175	7.625 193.7	STD XS XX	40 80	40S 80S	0.301 0.500 0.875	7.65 12.70 22.23	23.57 38.08 63.14	35.10 56.69 94.00	7.023 6.625 5.875	178.40 168.30 149.24
8 200	8.625 219.1	10 20 30 STD 60 XS 100 120 140 XX 160	40	5S 10S 40S 80S	0.109 0.148 0.250 0.277 0.322 0.406 0.500 0.594 0.719 0.812 0.875 0.906	2.77 3.76 6.35 7.04 8.18 10.31 12.70 15.09 18.26 20.62 22.23 23.01	9.92 13.41 22.38 24.72 28.58 35.67 43.43 51.00 60.77 67.82 72.49 74.76	14.78 19.97 33.32 36.82 42.55 53.09 64.64 75.92 90.44 100.93 107.93 111.27	8.407 8.329 8.125 8.071 7.981 7.813 7.625 7.437 7.187 7.001 6.875 6.813	213.56 211.58 206.40 205.02 202.74 198.48 193.70 188.92 182.58 177.86 174.64 173.08
9 225	9.625 244.5	STD XS XX	40 80	40S 80S	0.342 0.500 0.875	8.69 12.70 22.23	33.94 48.77 81.85	50.54 72.60 121.85	8.941 8.625 7.875	227.12 219.10 200.04
10 250	10.750 273.0	20 30 STD XS 80 100 120 140 160	40 60 XX	5S 10S 40S 80S	0.134 0.165 0.188 0.250 0.307 0.365 0.500 0.594 0.719 0.844 1.000 1.125	3.40 4.19 4.78 6.35 7.80 9.27 12.70 15.09 18.26 21.44 25.40 28.58	15.21 18.67 21.23 28.06 34.27 40.52 54.79 64.49 77.10 89.38 104.23 115.75	22.61 27.78 31.62 41.76 51.01 60.29 81.53 95.98 114.71 133.01 155.10 172.27	10.482 10.420 10.374 10.250 10.136 10.020 9.750 9.562 9.312 9.062 8.750 8.500	266.20 264.62 263.44 260.30 257.40 254.46 247.60 242.82 236.48 230.12 222.20 215.84
11 275	11.750 298.5	STD XS XX	40 80	40S 80S	0.375 0.500 0.875	9.53 12.70 22.23	45.60 60.13 101.72	67.91 89.51 151.46	11.000 10.750 10.000	279.44 273.10 254.04
12 300	12.750 323.8	20 30 STD 40 XS 60 80 100 120 140 160	××	5S 10S 40S 80S	0.156 0.180 0.188 0.250 0.330 0.375 0.406 0.500 0.562 0.688 0.844 1.000 1.125 1.312	3.96 4.57 4.78 6.35 8.38 9.53 10.31 12.70 14.27 17.48 21.44 25.40 28.58 33.32	21.00 24.19 25.25 33.41 43.81 49.61 53.57 65.48 73.22 88.71 107.42 125.61 139.81 160.42	31.24 35.98 37.61 49.71 65.19 73.86 79.71 97.44 108.93 132.05 159.87 186.92 208.08 238.69	12.438 12.390 12.374 12.250 12.090 12.000 11.938 11.750 11.626 10.750 10.500 10.126	315.88 314.66 314.24 311.10 307.04 304.74 303.18 298.40 295.26 288.84 280.92 273.00 266.64 257.16
14 350	14.000 355.6	10 20 STD 40 XS 60 80 100 120 140 160	30	10S 40S 80S	0.188 0.250 0.312 0.375 0.438 0.500 0.594 0.750 0.938 1.094 1.250 1.406	4.78 6.35 7.92 9.53 11.13 12.70 15.09 19.05 23.83 27.79 31.75 35.71	27.76 36.75 45.65 54.62 63.50 72.16 85.13 106.23 130.98 150.93 170.37 189.29	41.36 54.69 67.91 81.33 94.55 107.40 126.72 158.11 194.98 224.66 253.58 281.72	13.624 13.500 13.376 13.250 13.124 13.000 12.812 12.500 12.124 11.812 11.500 11.188	346.04 342.90 339.76 336.54 333.34 330.20 325.42 317.50 307.94 300.02 292.10 284.18

NOMINAL PIPE SIZE	OD		SCHEDULE DESIGNATIONS		WALL THICKNESS		WEIGHT		ID	
INCH MM	INCH MM	ASME		INCH	MM	LBS/ FOOT	KG/ METER	INCH	MM	
16 400	16.000	10 20 STD 30 XS 40 60 80 1100 120 140 160	10S 40S 80S	0.188 0.250 0.312 0.375 0.500 0.656 0.844 1.031 1.219 1.438 1.594	4.78 6.35 7.92 9.53 12.70 16.66 21.44 26.19 30.96 36.53 40.49	31.78 42.09 52.32 62.64 82.85 107.60 136.74 164.98 192.61 223.85 245.48	47.34 62.65 77.83 93.27 123.31 160.13 203.54 245.57 286.66 333.21 365.38	15.624 15.500 15.376 15.250 15.000 14.688 14.312 13.938 13.562 13.124 12.812	396.84 393.70 390.56 387.34 381.00 373.08 363.52 354.02 344.48 333.34 325.42	
18 450	18.000 457	10 20 STD 30 XS 40 60 80 100 120 140 160	10S 40S 80S	0.188 0.250 0.312 0.375 0.438 0.500 0.562 0.750 0.938 1.156 1.375 1.562	4.78 6.35 7.92 9.53 11.13 12.70 14.27 19.05 23.83 29.36 34.93 39.67 45.24	35.80 47.44 58.99 70.65 82.23 93.54 104.76 138.30 171.08 208.15 244.37 274.48 308.79	53.31 70.57 87.71 105.17 122.38 139.16 155.81 205.75 254.57 309.64 363.58 408.28 459.39	17.624 17.500 17.376 17.250 17.124 17.000 16.876 16.500 16.124 15.688 15.250 14.876 14.438	447.44 444.30 441.16 437.94 434.74 431.60 428.46 418.90 409.34 398.28 387.14 377.66 366.52	
20 500	20.000	10 STD 20 XS 30 40 60 80 100 120 140 160	10S 40S 80S	0.218 0.250 0.375 0.500 0.594 0.812 1.031 1.281 1.500 1.750 1.969	5.54 6.35 9.53 12.70 15.09 20.62 26.19 32.54 38.10 44.45 50.01	46.10 52.78 78.67 104.23 123.23 166.56 209.06 256.34 296.65 341.41 379.53	68.61 78.56 117.15 155.13 183.43 247.84 311.19 381.55 441.52 508.15 564.85	19.564 19.500 19.250 19.000 18.812 18.376 17.938 17.438 17.000 16.500 16.062	496.92 495.30 488.94 482.60 477.82 466.76 455.62 442.92 431.80 419.10 407.98	
22 550	22.000	10 STD 20 XS 30 60 80 100 120 140 160	10S 40S 80S	0.218 0.250 0.375 0.500 0.875 1.125 1.375 1.625 1.875 2.125	5.54 6.35 9.53 12.70 22.23 28.58 34.93 41.28 47.63 53.98	50.76 58.13 86.69 114.92 197.60 251.05 303.16 353.94 403.38 451.49	75.55 86.55 129.14 171.10 294.27 373.85 451.45 527.05 600.67 672.30	21.564 21.500 21.250 21.000 20.250 19.750 19.250 18.750 18.250 17.750	547.92 546.30 539.94 533.60 514.54 501.84 489.14 476.44 463.74 451.04	

	PIPING • TUBING • FITTINGS FLANGES • RELATED PRODUCTS
Туре	Seamless & Welded
Commodity	Chrome • Stainless • Carbon • Low Temperature
Specifications	A/SA335 • A/SA312 • A/SA213 • A/SA106 • A/SA53/API5L • A/SA333
Sizes (O.D.)	1/8" (3.175mm) - 60" (1524mm) (Larger ODs Available)
Grades	Chrome: P1 • P5 • P9 • P11 • P22 • P91 Stainless: 304 • 304H • 304L • 316 • 316H • 316L • 316LN • 321 • 321H • 347 • 347H • 310 • 310s • 309 • Alloy 20 Low Temp: Grade 1/6 • Grade 3 Carbon: Grade B • Grade C • Galvanized

MILITARY SPEC PIPE & TUBING							
Program	MIL-I-45208A Quality Program • Approved Level 1 Supplier						
Contact Tioga for	U.S. Navy Specifications • Navy Nuclear • MIC Level 1 • Ultrasonic Testing						
Fittings & Flanges	All Fittings & Flanges to Match the Pipe						

NUCLEAR MATERIALS						
Program ASME Section III - ASME QSC 467						
Specifications	10CFR50 Appendix B • N45.2 • NQA-1 • U.S. Navy Nuclear Specifications					
Products	Pipe • Tubing • Fittings • Flanges • Structurals • Fasteners • Forgings • Castings • Weld Rod • Plate					
Grades	Carbon • Stainless • Chrome Moly • Nickel Alloys • Duplex • 6 Moly Alloys • Low Temperature • Special Melts • Copper & Titanium					

NOMINAL PIPE SIZE	OD		SCHEDULE DESIGNATIONS		WALL THICKNESS		WEIGHT		ID	
INCH MM	INCH MM	A	SME	INCH	MM	LBS/ FOOT	KG/ METER	INCH	MM	
24 600	24.000 610	10 STD XS 30 40 60 80 100 120 140 160	10S 20 40S 80S	0.250 0.375 0.500 0.562 0.688 0.969 1.219 1.531 1.812 2.062 2.344	6.35 9.53 12.70 14.27 17.48 24.61 30.96 38.89 46.02 52.37 59.54	63.47 94.71 125.61 140.81 171.45 238.57 296.86 367.74 429.79 483.57 542.64	94.53 141.12 187.07 209.65 255.43 355.28 442.11 547.74 640.07 720.19 808.27	23.500 23.250 23.000 22.876 22.624 22.062 21.562 20.938 20.376 19.876 19.312	597.30 590.94 584.60 581.46 575.04 560.78 548.08 532.22 517.96 505.26 490.92	
26 650	26.000 660	STD XS	10 40S 80S	0.312 0.375 0.500	7.92 9.53 12.70	85.68 102.72 136.30	127.36 152.88 202.74	25.376 25.250 25.000	644.16 640.94 634.60	
28 700	28.000 711	_	10 40S 20 80S 30	0.312 0.375 0.500 0.625	7.92 9.53 12.70 15.88	92.35 110.74 146.99 182.90	137.32 164.86 218.71 272.23	27.376 27.250 27.000 26.750	695.16 691.94 685.60 679.24	
30 750	30.000 762		10 40S 20 80S 30	0.312 0.375 0.500 0.625	7.92 9.53 12.70 15.88	99.02 118.76 157.68 196.26	147.29 176.85 234.68 292.20	29.376 29.250 29.000 28.750	746.16 742.94 736.60 730.24	
32 800	32.000 813		10 20 30 40	0.312 0.375 0.500 0.625 0.688	7.92 9.53 12.70 15.88 17.48	105.69 126.78 168.37 209.62 230.29	157.25 188.83 250.65 312.17 342.94	31.376 31.250 31.000 30.750 30.624	797.16 793.94 787.60 781.24 778.04	
34 850	34.000 864		10 20 30 40	0.312 0.375 0.500 0.625 0.688	7.92 9.53 12.70 15.88 17.48	112.36 134.79 179.06 222.99 245.00	167.21 200.82 266.63 332.14 364.92	33.376 33.250 33.000 32.750 32.624	848.16 844.94 838.60 832.24 829.04	
36 900	36.000 914	STD XS	10	0.312 0.375 0.500	7.92 9.53 12.70	119.03 142.81 189.75	176.97 212.57 282.29	35.376 35.250 35.000	898.16 894.94 888.60	
42 1050	42.000 1067	STD XS		0.375 0.500 0.625 0.750	9.53 12.70 15.88 19.05	166.86 221.82 276.44 330.72	248.53 330.21 411.64 492.33	41.250 41.000 40.750 40.500	1047.94 1041.60 1035.24 1028.90	
48 1200	48.000 1219	STD XS		0.375 0.500	9.53 12.70	190.92 253.89	284.25 377.81	47.250 47.000	1199.94 1193.60	

SPECIALTY ALLOYS							
Туре	Seamless & Welded						
Commodity	Nickel • Duplex & Titanium						
Specifications & Grades	Alloy 800 • Alloy 825 • Alloy 600 • Alloy 625 • Alloy 400 • 6% Moly Grades • Duplex A790 UNS 31803 • 316LN						
Sizes (O.D.)	1/8" (3.175mm) - 8" (203.2mm)						
Wall Dimensions	0.035" (.889mm) - 0.875" (22.23mm)						

TIOGA SPECIALTIES

- Project Management
- 24/7 Emergency Service
- Just-In-Time Programs
- Inventory in Stock
- All Schedule Walls
- Header Pipe to 4" Wall (101.6mm)
- Special Intermediate Walls Average & Minimum Walls
- Saw Cut up to 40" (1016mm)
- Cutting: Square & Miter
- Custom Lengths and OD's
- End Preps-Various
- Hard to Find Metals & Sizes
- Se Habla Español
- Exceptional Mill/Sourcing Relations

- Dedicated Project Solution Teams
- Vendor Managed Inventory Programs
- Mobile On-Site Inventory Programs
- Quick Response Programs
- Low Total Cost Solutions
- Special Heavy Walls to 4" (101.6mm) International Export & Packaging
 - EN PED 97/23/EC ISO 9001-2008
 - MIC Level 1 Supplier
 - In-House Testing
 - Destructive Examination
 - Non-Destructive Examination
 - In-House Hydrostatic Testing
 - Full EDI Capabilities
 - Customized e-business Solutions
 - Emergency Forged and Buttweld Fittings

Note: Actual dimensions can vary from the figures based on specifications/manufacturing tolerances. The Data for weight is based on the following calculation for wrought steel pipe: LB/Foot = (Outside diameter [in.] – Wall Thickness [in.]) x (Wall Thickness [in.]) x (10.69) $KG/Meter = (Outside\ diameter\ [mm] - Wall\ Thickness\ [mm])\ x\ (Wall\ Thickness\ [mm])\ x\ (0.0246615)$

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