



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	16.000 406.4	10 20 STD 30 XS 40 60 80 100 120 140 160	10S	0.188	4.78	31.78	47.34	15.624	396.84			
				0.250	6.35	42.09	62.65	15.500	393.70			
				0.312	7.92	52.32	77.83	15.376	390.56			
				0.375	9.53	62.64	93.27	15.250	387.34			
				0.500	12.70	82.85	123.31	15.000	381.00			
				0.656	16.66	107.60	160.13	14.688	373.08			
				0.844	21.44	136.74	203.54	14.312	363.52			
				1.031	26.19	164.98	245.57	13.938	354.02			
				1.219	30.96	192.61	286.66	13.562	344.48			
				1.438	36.53	223.85	333.21	13.124	333.34			
				1.594	40.49	245.48	365.38	12.812	325.42			
			18 450	18.000 457	10 20 STD 30 XS 40 60 80 100 120 140 160	10S	0.188	4.78	35.80	53.31	17.624	447.44
							0.250	6.35	47.44	70.57	17.500	444.30
	0.312	7.92				58.99	87.71	17.376	441.16			
	0.375	9.53				70.65	105.17	17.250	437.94			
	0.438	11.13				82.23	122.38	17.124	434.74			
	0.500	12.70				93.54	139.16	17.000	431.60			
	0.562	14.27				104.76	155.81	16.876	428.46			
	0.750	19.05				138.30	205.75	16.500	418.90			
	0.938	23.83				171.08	254.57	16.124	409.34			
	1.156	29.36				208.15	309.64	15.688	398.28			
	1.375	34.93				244.37	363.58	15.250	387.14			
	1.562	39.67				274.48	408.28	14.876	377.66			
	1.781	45.24				308.79	459.39	14.438	366.52			
20 500	20.000 508	10 STD 20 XS 30 40 60 80 100 120 140 160	10S	0.218	5.54	46.10	68.61	19.564	496.92			
				0.250	6.35	52.78	78.56	19.500	495.30			
				0.375	9.53	78.67	117.15	19.250	488.94			
				0.500	12.70	104.23	155.13	19.000	482.60			
				0.594	15.09	123.23	183.43	18.812	477.82			
				0.812	20.62	166.56	247.84	18.376	466.76			
				1.031	26.19	209.06	311.19	17.938	455.62			
				1.281	32.54	256.34	381.55	17.438	442.92			
				1.500	38.10	296.65	441.52	17.000	431.80			
				1.750	44.45	341.41	508.15	16.500	419.10			
				1.969	50.01	379.53	564.85	16.062	407.98			
			22 550	22.000 559	10 STD 20 XS 30 60 80 100 120 140 160	10S	0.218	5.54	50.76	75.55	21.564	547.92
							0.250	6.35	58.13	86.55	21.500	546.30
	0.375	9.53				86.69	129.14	21.250	539.94			
	0.500	12.70				114.92	171.10	21.000	533.60			
	0.875	22.23				197.60	294.27	20.250	514.54			
	1.125	28.58				251.05	373.85	19.750	501.84			
	1.375	34.93				303.16	451.45	19.250	489.14			
	1.625	41.28				353.94	527.05	18.750	476.44			
	1.875	47.63				403.38	600.67	18.250	463.74			
	2.125	53.98				451.49	672.30	17.750	451.04			

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

### SPECIALTY ALLOYS

Type	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

<ul style="list-style-type: none"> <li>• Project Management</li> <li>• 24/7 Emergency Service</li> <li>• Just-In-Time Programs</li> <li>• Inventory in Stock</li> <li>• All Schedule Walls</li> <li>• Special Heavy Walls to 4" (101.6mm)</li> <li>• Header Pipe to 4" Wall (101.6mm)</li> <li>• Special Intermediate Walls</li> <li>• Average &amp; Minimum Walls</li> <li>• Saw Cut up to 40" (1016mm)</li> <li>• Cutting: Square &amp; Miter</li> <li>• Custom Lengths and OD's</li> <li>• End Preps-Various</li> <li>• Hard to Find Metals &amp; Sizes</li> <li>• Se Habla Español</li> <li>• Exceptional Mill/Sourcing Relations</li> </ul>	<ul style="list-style-type: none"> <li>• Dedicated Project Solution Teams</li> <li>• Vendor Managed Inventory Programs</li> <li>• Mobile On-Site Inventory Programs</li> <li>• Quick Response Programs</li> <li>• Low Total Cost Solutions</li> <li>• International Export &amp; Packaging</li> <li>• EN PED 97/23/EC</li> <li>• ISO 9001-2008</li> <li>• MIC Level 1 Supplier</li> <li>• In-House Testing</li> <li>• Destructive Examination</li> <li>• Non-Destructive Examination</li> <li>• In-House Hydrostatic Testing</li> <li>• Full EDI Capabilities</li> <li>• Customized e-business Solutions</li> <li>• Emergency Forged and Butt-weld Fittings</li> </ul>
--	--

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)

### PIPING • TUBING • FITTINGS FLANGES • RELATED PRODUCTS

Type	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