



Manufacturer & Supplier of Stainless Steel Seamless &  
Welded Pipes, Tubes & U - Tubes

**BULLION**  
Pipe & Tubes LLP



## Products

### Stainless Steel Seamless Tubes & U – Tubes

<b>Outside Diameter Range</b>	6 mm to 101.60 mm
<b>Wall Thickness Range</b>	0.50 mm to 8.0mm
<b>Length</b>	As per Requirement. Maximum up to 24 Meter long.
<b>U- Tubes</b>	As per Requirement.
<b>Grades</b>	304/L/H/LN, 316/L/H/LN/Ti, 309, 310/L/H/S, 317/L/H, 321/H, 347/H, 405, 409/L, 410, 430/Ti, 436, 439, 1.4301, 1.4306, 1.4571, 1.4541, 1.4401, 1.4404  UNS S31500, UNS S31803, UNS S2205, UNS S32750, UNS S32760
<b>Specification</b>	ASTM, ASME, DIN, JIS (JAPAN), EN, NF(ANOR)
<b>Supply Condition</b>	Annealed, pickled and passivated. Can be supplied polished condition on requirement.



# Products

## Stainless Steel Seamless Pipes

<b>Outside Diameter Range</b>	1/8" NB to 16" NB
<b>Wall Thickness Range</b>	SCH 5S to SCH XXS
<b>Length</b>	As per Requirement. Maximum up to 24 Meter long.
<b>Grades</b>	304/L/H/LN, 316/L/H/LN/Ti, 309, 310/L/H/S, 317/L/H, 321/H, 347/H, UNS S31500, UNS S31803, UNS S2205, UNS S32750, UNS S32760
<b>Specification</b>	ASTM, ASME, DIN, JIS (JAPAN), EN
<b>Supply Condition</b>	Solution-Annealed, pickled and passivated. Can be supplied polished condition on requirement.





## Products

### Stainless Steel Welded Tubes & U – Tubes

<b>Outside Diameter Range</b>	12.70 mm to 101.60 mm
<b>Wall Thickness Range</b>	0.50 mm to 6.0 mm
<b>Length</b>	As per Requirement. Maximum up to 24 Meter long.
<b>U- Tubes</b>	As per Requirement.
<b>Grades</b>	304/L/H/LN, 316/L/H/LN/Ti, 309, 310/L/H/S, 317/L/H, 321/H, 347/H, 405, 409/L, 410, 430/Ti, 436, 439, 1.4301, 1.4306, 1.4571, 1.4541, 1.4401, 1.4404, UNS S31500, UNS S31803, UNS S2205, UNS S32750, UNS S32760
<b>Specification</b>	ASTM, ASME, DIN, JIS (JAPAN), EN, NF(ANOR)
<b>Supply Condition</b>	Solution-Annealed, pickled and passivated. Can be supplied polished condition on requirement.



## Products

### Stainless Steel Welded Pipes

<b>Outside Diameter Range</b>	1/8" NB to 12" NB
<b>Wall Thickness Range</b>	SCH 5S to SCH 80S
<b>Length</b>	As per Requirement. Maximum up to 24 Meter long.
<b>Grades</b>	304/L/H/LN, 316/L/H/LN/Ti, 309, 310/L/H/S, 317/L/H, 321/H, 347/H, UNS S31500, UNS S31803, UNS S2205, UNS S32750, UNS S32760
<b>Specification</b>	ASTM, ASME, DIN, JIS (JAPAN), EN
<b>Supply Condition</b>	Annealed, pickled and passivated. Can be supplied polished condition on requirement.

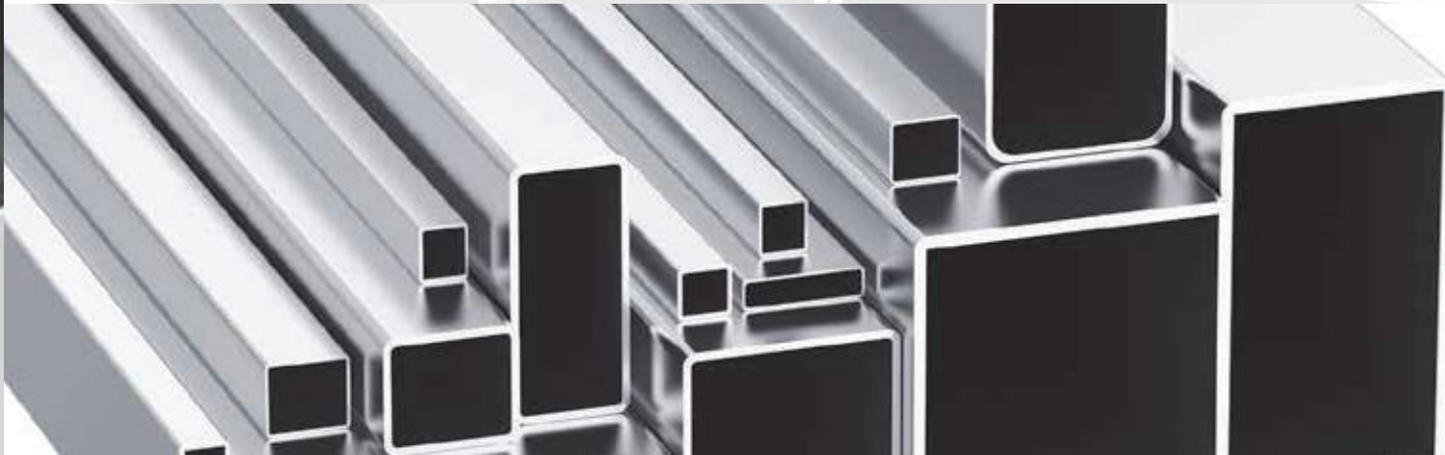




## Products

### Stainless Steel Sectional Pipes

<b>Square</b>	15x15 mm to 100x100 mm
<b>Rectangular</b>	15x30 mm to 100x50 mm
<b>Wall Thickness Range</b>	1.0 mm to 6.0 mm
<b>Length</b>	As per Requirement. Maximum up to 12 Meter long
<b>Grades</b>	As per Requirement.
<b>Specification</b>	As per Requirement.
<b>Supply Condition</b>	Annealed, pickled and passivated. Can be supplied polished condition on requirement.



## Products

### Stainless Steel CDW (Cold Drawn Welded) Tubes

<b>Outside Diameter Range</b>	6.35 mm to 168.30 mm
<b>Wall Thickness Range</b>	0.50 mm to 6.0 mm
<b>Length</b>	Standard length & In Cut length also
<b>Grades</b>	TP 304, 304H, 304L, 304LN, 316, 316H, 316L, 316LN, 316Ti, 309, 310, 317L, 321, 347, 409, 410, 420, 430, 446, 202 etc.
<b>Specification</b>	ASTM / ASME A/SA 269 / 213 / 249 & All relevant global standards for Automotive and General Engineering
<b>Supply Condition</b>	Annealed, pickled and Passivated. Can be supplied polished condition on requirement.



# Grade Comparison

TYPE OF MATERIAL	USA AISI	France AFNOR	Germany DIN 17006	Germany W.N. 17007	Italy UNI	Japan JIS	Russia GOST	Spain UNE	Sweden SIS	UK BSI	European Union EURONORM
AUSTENITIC GRADES	201	--	--	--	--	SUS 201	---	---	---	---	---
	301	Z 12 CN 17-07	X 12 CrNi 17 7	1.4310	X 12 CrNi 1707	SUS 301	---	X 12 CrNi 17-07	23 31	301S21	X 12 CrNi 17 7
	302	Z 10 CN 18-09	X 5 CrNi 18 7	1.4319	X 10 CrNi 1809	SUS 302	12KH18N9	X 10 CrNi 18-09	23 31	302S25	X 10 CrNi 18 9
	303	Z 10 CNF 18-09	X 10 CrNiS 18 9	1.4305	X 10 CrNiS 1809	SUS 303		X 10 CrNiS 18-09	23 46	303S21	X 10 CrNiS 18 9
	304	Z 6 CN 18-09	X 5 CrNi 18 10 X 5 CrNi 18 12	1.4301 1.4303	X 5 CrNi 1810	SUS 304	08KH18N10 06KH18N11	X 6 CrNi 19-10	23 32	304S15 304S16	X 6 CrNi 18 10
	304 N	--	--	--	X 5 CrNiN 1810	SUS 304N1	--	--	--	--	--
	304 H	--	--	--	X 8 CrNi 1910	SUS F 304H	--	X 6 CrNi 19-10	--	--	--
	304 L	Z 2 CN 18-10	X 2 CrNi 18 11	1.4306	X 2 CrNi 1911	SUS 304L	03KH18N11	X 2 CrNi 19-10	23 52	304S11	X 3 CrNi 18 10
	304LN	Z 2 CN 18-10-Az	X 2 CrNiN 18 10	1.4311	X 2 CrNiN 1811	SUS 304LN	--	--	23 71	--	--
	305	Z 8 CN 18-12			X 8 CrNi 1812	SUS 305	--	X 8 CrNi 18-12	23 33	305S19	X 8 CrNi 18 12
	309	Z 15 CN 24-13	X 15 CrNiS 20 12	1.4828	X 16 CrNi 2314	SUH 309	--	--	--	309S24	X 15 CrNi 23 13
	309 S	--	--	--	X 6 CrNi 2314	SUS 309S	20KH23N18	--	--	--	X 6 CrNi 22 13
	310	--	X 12 CrNi 25 21	1.4845	X 22 CrNi 2520	SUH 310	10KH23N18	--	--	310S24	--
	310 S	Z 12 CN 25-20	X 12 CrNi 25 20	1.4842	X 5 CrNi 2520	SUS 310S	20KH25N20S2	--	23 61	--	X 6 CrNi 25 20
	314	Z 12 CNS 25-20	X 15 CrNiSi 25 20	1.4841	X 16 CrNiSi 2520	--	--	--	--	--	X 15 CrNiSi 25 20
	316	Z 6 CND 17-11	X 5 CrNiMo 17 12 2	1.4401	X 5 CrNiMo 1712	SUS 316	--	X 6 CrNiMo 17-12-03	23 47	316S31	X 6 CrNiMo 17 12 2
	316 H	--	--	--	X 8 CrNiMo 1713	--	03KH17N14M2	X 6 CrNiMo 17-12-03	--	--	--
	316 L	Z 2 CND 17-12	X 2 CrNiMo 17 13 2	1.4404	X 2 CrNiMo 1712	SUS 316L	--	X 2 CrNiMo 17-12-03	23 48	316S11	X 3 CrNiMo 17 12 2
316 L	Z 2 CND 17-13	X 2 CrNiMo 18 14 3	1.4435	X 2 CrNiMo 1713	--	--	X 2 CrNiMo 17-12-03	23 53	316S13	X 3 CrNiMo 17 13 3	
316LN	Z 2 CND 17-12-Az	X 2 CrNiMoN 17 12 2	1.4406	X 2 CrNiMoN 1712	SUS 316LN	03KH16N15M3	--	--	--	--	

TYPE OF MATERIAL	USA AISI	France AFNOR	Germany DIN 17006	Germany W.N. 17007	Italy UNI	Japan JIS	Russia GOST	Spain UNE	Sweden SIS	UK BSI	European Union EURONORM
AUSTENITIC GRADES	316Ti	Z6 CNDT 17-12	X 6 CrNiMoTi 17 12 2	1.4571	X 6 CrNiMoTi 1712	--	08KH17N13M2T 10KH17N13M2T	X 6 CrNiMoTi 17-12-03	23 50	320S31	X 6 CrNiMoTi 17 12 2
	317	--	--	--	X 5 CrNiMo 1815	SUS 317	--	--	23 66	317S16	--
	317 L	Z 2 CND 19-15	X 2 CrNiMo 18 16 4	1.4438	X 2 CrNiMo 1815	SUS 317L	--	--	23 67	317S12	X 3 CrNiMo 18 16 4
	330	Z 12NCS 35-16	X 12 NiCrSi 36 16	1.4864		SUH 330	08KH18N10T	--	--	--	--
	321	Z 6 CNT 18-10	X 6 CrNiTi 18 10 X 12 CrNiTi 18 9	1.4541 1.4878	X 6 CrNiTi 1811	SUS 321	12KH18N10T --	X 6 CrNiTi 18-11	23 37	321S31	X 6 CrNiTi 18 10
	321 H	--	--	--	X 8 CrNiTi 1811	SUS 321H	08KH18N12B	X 7 CrNiTi 18-11	--	321S20	--
	329	--	X 8 CrNiMo 27 5	1.4460	--	SUS 329J1	--	--	23 24	--	--
	347	Z 6 CNNb 18-10	X 6 CrNiNb 18 10	1.4550	X 6 CrNiNb 1811	SUS 347	--	X 6 CrNiNb 18-11	23 38	347S31	X 6 CrNiNb 18 10
	347 H	--			X 8 CrNiNb 1811	SUS F 347H		X 7 CrNiNb 18-11	--	--	--
DUPLEX & SUPER DUPLEX GRADES	UNS31803	--	X 2 CrNiMoN 22 5	1.4462	--	--	--	--	--	--	--
	UNS32760	Z 3 CND 25-06Az	X 3 CrNiMoN 25 7	1.4501	--	--	12Kh13	--	--	--	--
MARTENSITIC AND FERRITIC GRADES	403	Z 12 C 13	X 6 Cr 13	1.4000	X 12 Cr 13	SUS 403	--	X 6 Cr 13	23 02	403S17	X 10 Cr 13
			X 10 Cr 13	1.4006							X 12 Cr 13
			X 15 Cr 13	1.4024							
	405	Z 6 CA 13	X 6 CrAl 13	1.4002	X 6 CrAl 13	SUS 405	--	X 6 CrAl 13	--	405S17	X 6 CrAl 13
	409	Z 6 CT 12	X 6 CrTi 12	1.4512	X 6 CrTi 12	SUH 409	--	--	--	409S19	X 5 CrTi 12
410	Z 10 C 13 Z 12 C 13	X 6 Cr 13	1.4000	X 12 Cr 13	SUS 410	08Kh13	X 12 Cr 13	23 02	410S21	X 12 Cr 13	
		X 10 Cr 13	1.4006								
	X 15 Cr 13	1.4024									
410 S	Z 6 C 13	X 6 Cr 13	1.4000	X 6 Cr 13	SUS 410S	--	--	23 01	403S17	X 6 Cr 13	

# Chemical Composition of Stainless Steel

ASTM GRADE	UNS GRADE	DIN EN GRADE	STEEL NAME	JIS GARDE	C	Mn	P	S	
TP 304	S30400	1.4301	X2CrNi18-20		0.080	2.00	0.045	0.030	
					0.070	2.00	0.040	0.015	
TP 304 L	S30403	1.4307	X2CrNi18-9	SUS304TB	0.080	2.00	0.040	0.030	
					0.035	2.00	0.045	0.030	
TP 304H	S30409	1.4948	X6CrNi18-10	SUS304LTB	0.030	2.00	0.040	0.030	
					0.04-0.10	2.00	0.045	0.030	
TP 310S	S31008	1.4845	X8CrNi25-21	SUS304HTB	0.04-0.08	2.00	0.035	0.015	
					0.04-0.10	2.00	0.040	0.030	
TP 310H	S31009	1.4335	X1CrNi25-21	SUS310STB	0.080	2.00	0.040	0.030	
					0.04-0.10	2.00	0.045	0.030	
TP 316	S31500	1.4401	X5CrNiMo17-12-2		0.020	2.00	0.025	0.010	
					0.080	2.00	0.045	0.030	
TP 316L	S31603	1.4404	X2CrNiMo17-12-2	SUS316TB	0.070	2.00	0.040	0.015	
					0.080	2.00	0.040	0.030	
TP 316H	S31609	1.4918	X6CrNiMo17-13-2	SUS316LTB	0.030	2.00	0.040	0.015	
					0.04-0.10	2.00	0.045	0.030	
TP 316 Ti	S31635	1.4571	X6CrNiMoTi17-12-2	SUS316HTB	0.04-0.08	2.00	0.035	0.015	
					0.04-0.10	2.00	0.030	0.030	
TP 321	S32100	1.4541	X6CrNiTi18-10	SUS316TiTB	0.080	2.00	0.045	0.030	
					0.080	2.00	0.040	0.030	
TP 321H	S32109	1.4941	X5CrNiTiB18-10	SUS321TB	0.080	2.00	0.040	0.015	
					0.04-0.10	2.00	0.045	0.030	
TP 347	S34700	1.455	X5CrNiNb18-10	SUS321HTB	0.04-0.08	2.00	0.035	0.015	
					0.04-0.10	2.00	0.030	0.030	
TP 347H	S34709	1.4912	X7CrNiNb18-10	SUS347TB	0.080	2.00	0.040	0.015	
					0.080	2.00	0.040	0.030	
TP 405	S40500	1.4002	X6CrAl13	SUS347HTB	0.04-0.10	2.00	0.040	0.015	
					0.04-0.10	2.00	0.040	0.015	
TP 410	S41000	1.4006	X12Cr13		0.080	1.00	0.040	0.015	
					0.150	1.00	0.040	0.030	
TP 430	S43000	1.4016	X6Cr17		0.018-0.15	1.50	0.040	0.015	
					0.120	1.00	0.040	0.030	
2205	UNS S31803	1.4452	X2CrNiMoN22-5-3		0.080	1.00	0.040	0.015	
	UNS S32205				0.030	2.00	0.030	0.020	
2507	UNS S32750	1.441	X2CrNiMoN25-7-4		0.030	2.00	0.035	0.015	
	UNS S32760				0.030	1.20	0.030	0.020	
		1.4501	X2CrNiMoCuWN25-7-4		0.050	1.00	0.030	0.010	
					0.030	1.00	0.035	0.015	

	Si	Cr	Ni	Mo	N	Nb	Ti	Cu	Al	W	B
	1.00	18.0-20.0	8.00-11.0								
	1.00	17.0-19.5	8.00-10.5		0.10Max						
	1.00	18.0-20.0	8.00-11.0								
	1.00	18.0-20.0	8.00-12.0								
	1.00	17.5-19.5	8.00-10.0		0.10 Max						
	1.00	18.0-20.0	9.00-13.0								
	1.00	18.0-20.0	8.00-11.0								
	1.00	17.0-19.0	8.00-11.0								
	0.75	18.0-20.0	8.00-11.0								
	1.00	24.0-26.0	19.00-22.0								
	1.50	24.0-26.0	19.00-22.0		0.11 Max.						
	1.50	24.0-26.0	19.00-22.0								
	1.00	24.0-26.0	19.00-22.0								
	0.25	24.0-26.0	20.00-22.0	0.20 Max.							
	1.00	16.0-18.0	11.00-14.0	2.00-3.0							
	1.00	16.5-18.5	10.00-13.0	2.00-2.5	0.10 Max						
	1.00	16.0-18.0	10.00-14.0	2.00-3.0							
	1.00	16.0-18.0	10.00-14.0	2.00-3.0							
	1.00	16.5-18.5	11.00-13.0	2.00-2.5	0.10 Max						
	1.00	16.0-18.0	12.00-16.0	2.00-3.0							
	1.00	16.0-18.0	11.00-14.0	2.00-3.0							
	0.75	16.0-18.0	12.00-14.0	2.00-2.5							
	0.75	16.0-18.0	11.00-14.0	2.00-3.0							
	0.75	16.0-18.0	10.00-14.0	2.00-3.0	0.10 Max.		5(C+N)-0.70				
	1.00	16.5-18.5	10.50-13.5	2.00-2.5			5XC TO 0.70				
	1.00	16.0-18.0	10.00-14.0	2.00-3.0			5XC Min.				
	1.00	17.0-19.0	9.00-12.0				5(C+N)-0.70				
	1.00	17.0-19.0	9.00-12.0				5XC TO 0.70				
	1.00	17.0-19.0	9.00-13.0				5XC Min.				
	1.00	17.0-19.0	9.00-12.0				5(C+N)-0.70				
	1.00	17.0-19.0	9.00-12.0				5XC - 0.80				
	0.75	17.0-20.0	9.00-13.0				4XC - 0.60				
	1.00	17.0-20.0	9.00-13.0			10XC-1.10					0.0015 - 0.00050
	1.00	17.0-19.0	9.00-12.0			10XC - 1.0					
	1.00	17.0-19.0	9.00-13.0			10XC Min.					
	1.00	17.0-19.0	9.00-13.0			5XC-1.10					
	1.00	17.0-19.0	9.00-12.0		0.10 Max.	10XC - 1.2					
	1.00	17.0-19.0	9.00-13.0			8XC-1.00					
	1.00	11.5-14.5	0.50(MAX)						0.10-0.30		
	1.00	12.0-14.0							0.10-0.30		
	1.00	11.5-13.5									
	1.00	11.5-13.5	0.75								
	1.00	16.0-18.0									
	1.00	16.0-18.0									
	1.00	21.0-23.0	4.50-6.50	2.50-3.5	0.08-0.20						
	1.00	22.0-23.0	4.50-6.50	3.00-3.5	0.14-0.20						
	1.00	21.0-23.0	4.50-6.50	2.50-3.5	0.10-0.22						
	0.90	24.0-26.0	6.00-8.0	3.00-5.0	0.24-0.30			0.50 Max.			
	1.00	24.0-26.0	6.00-8.0	3.00-4.5	0.24-0.35						
	1.00	24.0-26.0	6.00-8.0	3.00-4.0	0.20-0.30			0.50-0.10		0.50-1.00	
	1.00	24.0-26.0	6.00-8.0	3.00-4.0	0.20-0.30				0.50-1.00		

# Pipe Dimensions & Weight Chart



Nominal Pipe Size	OD	Schedule Designations			Wall Thickness		Weight		ID	
							LBS/ FOOT	KG/ METER		
INCH / MM	INCH / MM	ASME/ANSI			INCH	MM	FOOT	METER	INCH	MM
1/8	0.405	10		10S	0.049	1.24	0.19	0.28	0.307	7.82
6	10.3	STD	40	40S	0.068	1.73	0.24	0.37	0.269	6.84
		XS	80	80S	0.095	2.41	0.31	0.47	0.215	5.84
1/4	0.54	10		10S	0.065	1.65	0.33	0.49	0.41	10.4
8	13.7	STD	40	40S	0.088	2.24	0.43	0.63	0.364	9.22
		XS	80	80S	0.119	3.02	0.54	0.8	0.302	7.66
3/8	0.675	10		10S	0.065	1.65	0.42	0.63	0.545	13.8
10	17.1	STD	40	40S	0.091	2.31	0.57	0.84	0.493	12.48
		XS	80	80S	0.126	3.2	0.74	1.1	0.423	10.7
1/2	0.84	5		5S	0.065	1.65	0.54	0.8	0.71	18
15	21.3	10		10S	0.083	2.11	0.67	1	0.674	17.08
		STD	40	40S	0.109	2.77	0.85	1.27	0.622	15.76
		XS	80	80S	0.147	3.73	1.09	1.62	0.546	13.84
		160			0.188	4.78	1.31	1.95	0.464	11.74
		XX			0.294	7.47	1.72	2.55	0.252	6.36
3/4	1.05	5		5S	0.065	1.65	0.69	1.03	0.92	23.4
20	26.7	10		10S	0.083	2.11	0.86	1.28	0.884	22.48
		STD	40	40S	0.113	2.87	1.13	1.69	0.824	20.96
		XS	80	80S	0.154	3.91	1.48	2.2	0.742	18.88
		160			0.219	5.56	1.95	2.9	0.612	15.58
		XX			0.308	7.82	2.44	3.64	0.434	11.06
1	1.315	5		5S	0.065	1.65	0.87	1.29	1.185	30.1
25	33.4	10		10S	0.109	2.77	1.41	2.09	1.097	27.86
		STD	40	40S	0.133	3.38	1.68	2.5	1.049	26.64
		XS	80	80S	0.179	4.55	2.17	3.24	0.957	24.3
		160			0.25	6.35	2.85	4.24	0.815	20.7
		XX			0.358	9.09	3.66	5.45	0.599	15.22
1-1/4	1.66	5		5S	0.065	1.65	1.11	1.65	1.53	38.9
32	42.2	10		10S	0.109	2.77	1.81	2.69	1.442	36.66
		STD	40	40S	0.14	3.56	2.27	3.39	1.38	35.08
		XS	80	80S	0.191	4.85	3	4.47	1.278	32.5
		160			0.25	6.35	3.77	5.61	1.16	29.5
		XX			0.382	9.7	5.22	7.77	0.896	22.8
1-1/2	1.9	5		5S	0.065	1.65	1.28	1.9	1.77	45
40	48.3	10		10S	0.109	2.77	2.09	3.11	1.682	42.76
		STD	40	40S	0.145	3.68	2.72	4.05	1.61	40.94

Nominal Pipe Size	OD	Schedule Designations			Wall Thickness		Weight		ID	
							LBS/FOOT	KG/METER		
INCH / MM	INCH / MM	ASME/ANSI			INCH	MM	FOOT	METER	INCH	MM
		XS	80	80S	0.2	5.08	3.63	5.41	1.5	38.14
		160			0.281	7.14	4.86	7.25	1.338	34.02
		XX			0.4	10.15	6.41	9.55	1.1	28
2	2.375	5		5S	0.065	1.65	1.61	2.39	2.245	57
50	60.3	10		10S	0.109	2.77	2.64	3.93	2.157	54.76
		STD	40	40S	0.154	3.91	3.66	5.44	2.067	52.48
		XS	80	80S	0.218	5.54	5.03	7.48	1.939	49.22
		160			0.344	8.74	7.47	11.11	1.687	42.82
		XX			0.436	11.07	9.04	13.44	1.503	38.16
2-1/2	2.875	5		5S	0.083	2.11	2.48	3.69	2.709	68.78
65	73	10		10S	0.12	3.05	3.53	5.26	2.635	66.9
		STD	40	40S	0.203	5.16	5.8	8.63	2.469	62.68
		XS	80	80S	0.276	7.01	7.67	11.41	2.323	58.98
		160			0.375	9.53	10.02	14.92	2.125	53.94
		XX			0.552	14.02	13.71	20.39	1.771	44.96
3	3.5	5		5S	0.083	2.11	3.03	4.52	3.334	84.68
80	88.9	10		10S	0.12	3.05	4.34	6.46	3.26	82.8
		STD	40	40S	0.216	5.49	7.58	11.29	3.068	77.92
		XS	80	80S	0.3	7.62	10.26	15.27	2.9	73.66
		160			0.438	11.13	14.34	21.35	2.624	66.64
		XX			0.6	15.24	18.6	27.68	2.3	58.42
3-1/2	4	5		5S	0.083	2.11	3.48	5.18	3.834	97.38
90	101.6	10		10S	0.12	3.05	4.98	7.41	3.76	95.5
		STD	40	40S	0.226	5.74	9.12	13.57	3.548	90.12
		XS	80	80S	0.318	8.08	12.52	18.64	3.364	85.44
		XX			0.636	16.15	22.87	34.03	2.728	69.3
4	4.5	5		5S	0.083	2.11	3.92	5.84	4.334	110.08
100	114.3	10		10S	0.12	3.05	5.62	8.37	4.26	108.2
		STD	40	40S	0.237	6.02	10.8	16.08	4.026	102.26
		XS	80	80S	0.337	8.56	15	22.32	3.826	97.18
		120			0.438	11.13	19.02	28.32	3.624	92.04
		160			0.531	13.49	22.53	33.54	3.438	87.32
		XX			0.674	17.12	27.57	41.03	3.152	80.06
4-1/2	5	STD	40	40S	0.247	6.27	12.55	18.67	4.506	114.46
115	127	XS	80	80S	0.355	9.02	17.63	26.24	4.29	108.96
		XX			0.71	18.03	32.56	48.45	3.58	90.94

# Pipe Dimensions & Weight Chart



Nominal Pipe Size	OD	Schedule Designations			Wall Thickness		Weight		ID		
							LBS/ FOOT	KG/ METER			
INCH / MM	INCH / MM	ASME/ANSI			INCH	MM	FOOT	METER	INCH	MM	
5	5.563	5			5S	0.109	2.77	6.36	9.46	5.345	135.76
125	141.3	10			10S	0.134	3.4	7.78	11.56	5.295	134.5
		STD	40		40S	0.258	6.55	14.63	21.77	5.047	128.2
		XS	80		80S	0.375	9.53	20.8	30.97	4.813	122.24
		120				0.5	12.7	27.06	40.28	4.563	115.9
		160				0.625	15.88	32.99	49.12	4.313	109.54
		XX				0.75	19.05	38.59	57.43	4.063	103.2
6	6.625	5			5S	0.109	2.77	7.59	11.31	6.407	162.76
150	168.3	10			10S	0.134	3.4	9.3	13.83	6.357	161.5
		STD	40		40S	0.28	7.11	18.99	28.26	6.065	154.08
		XS	80		80S	0.432	10.97	28.6	42.56	5.761	146.36
		120				0.562	14.27	36.43	54.21	5.501	139.76
		160				0.719	18.26	45.39	67.57	5.187	131.78
		XX				0.864	21.95	53.21	79.22	4.897	124.4
7	7.625	STD	40		40S	0.301	7.65	23.57	35.1	7.023	178.4
175	193.7	XS	80		80S	0.5	12.7	38.08	56.69	6.625	168.3
		XX				0.875	22.23	63.14	94	5.875	149.24
8	8.625				5S	0.109	2.77	9.92	14.78	8.407	213.56
200	219.1	10			10S	0.148	3.76	13.41	19.97	8.329	211.58
		20				0.25	6.35	22.38	33.32	8.125	206.4
		30				0.277	7.04	24.72	36.82	8.071	205.02
		STD	40		40S	0.322	8.18	28.58	42.55	7.981	202.74
		60				0.406	10.31	35.67	53.09	7.813	198.48
		XS	80		80S	0.5	12.7	43.43	64.64	7.625	193.7
		100				0.594	15.09	51	75.92	7.437	188.92
		120				0.719	18.26	60.77	90.44	7.187	182.58
		140				0.812	20.62	67.82	100.93	7.001	177.86
		XX				0.875	22.23	72.49	107.93	6.875	174.64
		160				0.906	23.01	74.76	111.27	6.813	173.08
9	9.625	STD	40		40S	0.342	8.69	33.94	50.54	8.941	227.12
225	244.5	XS	80		80S	0.5	12.7	48.77	72.6	8.625	219.1
		XX				0.875	22.23	81.85	121.85	7.875	200.04
10	10.75				5S	0.134	3.4	15.21	22.61	10.482	266.2
250	273				10S	0.165	4.19	18.67	27.78	10.42	264.62
		20				0.25	6.35	28.06	41.76	10.25	260.3
		30				0.307	7.8	34.27	51.01	10.136	257.4
		STD	40		40S	0.365	9.27	40.52	60.29	10.02	254.46
		XS	60		80S	0.5	12.7	54.79	81.53	9.75	247.6

Nominal Pipe Size	OD	Schedule Designations			Wall Thickness		Weight		ID	
							LBS/FOOT	KG/METER		
INCH / MM	INCH / MM	ASME/ANSI			INCH	MM	FOOT	METER	INCH	MM
10	10.75	80			0.594	15.09	64.49	95.98	9.562	242.82
250	273	100			0.719	18.26	77.1	114.71	9.312	236.48
		120			0.844	21.44	89.38	133.01	9.062	230.12
		140	XX		1	25.4	104.23	155.1	8.75	222.2
		160			1.125	28.58	115.75	172.27	8.5	215.84
11	11.75	STD	40	40S	0.375	9.53	45.6	67.91	11	279.44
275	298.5	XS	80	80S	0.5	12.7	60.13	89.51	10.75	273.1
		XX			0.875	22.23	101.72	151.46	10	254.04
12	12.75			5S	0.156	3.96	21	31.24	12.438	315.88
300	323.8			10S	0.18	4.57	24.19	35.98	12.39	314.66
		20			0.25	6.35	33.41	49.71	12.25	311.1
		30			0.33	8.38	43.81	65.19	12.09	307.04
		STD		40S	0.375	9.53	49.61	73.86	12	304.74
		40			0.406	10.31	53.57	79.71	11.938	303.18
		XS		80S	0.5	12.7	65.48	97.44	11.75	298.4
		60			0.562	14.27	73.22	108.93	11.626	295.26
		80			0.688	17.48	88.71	132.05	11.374	288.84
		100			0.844	21.44	107.42	159.87	11.062	280.92
		120	XX		1	25.4	125.61	186.92	10.75	273
		140			1.125	28.58	139.81	208.08	10.5	266.64
		160			1.312	33.32	160.42	238.69	10.126	257.16
14	14			10S	0.188	4.78	27.76	41.36	13.624	346.04
350	355.6	10			0.25	6.35	36.75	54.69	13.5	342.9
		20			0.312	7.92	45.65	67.91	13.376	339.76
		STD	30	40S	0.375	9.53	54.62	81.33	13.25	336.54
		40			0.438	11.13	63.5	94.55	13.124	333.34
		XS		80S	0.5	12.7	72.16	107.4	13	330.2
		60			0.594	15.09	85.13	126.72	12.812	325.42
		80			0.75	19.05	106.23	158.11	12.5	317.5
		100			0.938	23.83	130.98	194.98	12.124	307.94
		120			1.094	27.79	150.93	224.66	11.812	300.02
		140			1.25	31.75	170.37	253.58	11.5	292.1
		160			1.406	35.71	189.29	281.72	11.188	284.18
		160			1.406	35.71	189.29	281.72	11.188	284.18
		120			1.094	27.79	150.93	224.66	11.812	300.02
		140			1.25	31.75	170.37	253.58	11.5	292.1
		160			1.406	35.71	189.29	281.72	11.188	284.18

# Tolerance Chart

	ALLOWABLE OUTSIDE DIAMETER TOLERANCE IN mm	ALLOWABLE WALL THICKNESS TOLERANCES
<b>ASTM A-270/A1016 (Seamless and Welded Austenitic and Ferritic/ Austenitic Stainless Steel Sanitary Tubing)</b>		
OUTSIDE DIAMETER (mm)	OVER	OVER
[25] and under	+0.13,-0.13	+12.5%
Over [25] to 2 [50]	+0.20,-0.20	+12.5%
Over [50] to 3 [75]	+0.25,-0.25	+12.5%
Over 3 [75] to 4 [100]	+0.38,-0.38	+12.5%
[100] to 5.1/2 [140], excl.	+0.38,-0.38	+12.5%
[140] to 8 [200], excl.	+0.75,-0.75	+12.5%
8 [200] to 12 [300]	+1.25,-1.25	+12.5%
<b>ASTM A-249/A1016 (Welded, Austenitic Steel Boiler, Superheater, Heat-Exchanger and Condenser Tubes)</b>		
Under 1 [25]	+0.1,-0.11	+10.0%
1 to 1.1/2 [25 to 40], incl	+0.15,-0.15	+10.0%
Over 1.1/2 to 2 [40 to 50], excl	+0.2,-0.20	+10.0%
2 to 2.1/2 [50 to 65], excl	+0.25,-0.25	+10.0%
2.1/2 to 3 [65 to 75], excl	+0.30,-0.30	+10.0%
3 to 4 [75 to 100], incl	+0.38,-0.38	+10.0%
Over 4 to 7.1/2 [100 to 200], incl	+0.38,-0.64	+10.0%
Over 7.1/2 to 9 [200 to 225], incl	+0.38,-1.14	+10.0%
<b>ASTM A-312/A999 (Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes )</b>		
1/8-1.1/2, incl	+0.40,-0.40	--
Over 1.1/2 to 4, incl	+0.80,-0.80	--
Over 4 to 8, incl	+1.60,-0.80	--
Over 8 to 18, incl	+2.40,-0.80	--
Over 18 to 26, incl	+3.20,-0.80	--
Over 26 to 34, incl	+4.0,-0.80	--
Over 34 to 48, incl	+4.80,-0.80	--
"1/8 to 2.1/2 incl., all t/D ratios"	--	+20.0,-12.5%
"3 to 18 incl., t/D up to 5 % incl."	--	+22.5,-12.5%
3 to 18 incl., t/D > 5%	--	+15.0,-12.5%
"20 and larger, welded, all t/D ratios"	--	+17.5,-12.5%
20 and larger,seamless, t/D up to 5 % incl.	--	+22.5,-12.5%
"20 and larger, seamless, t/D > 5 %"	--	+15.0,-12.5%

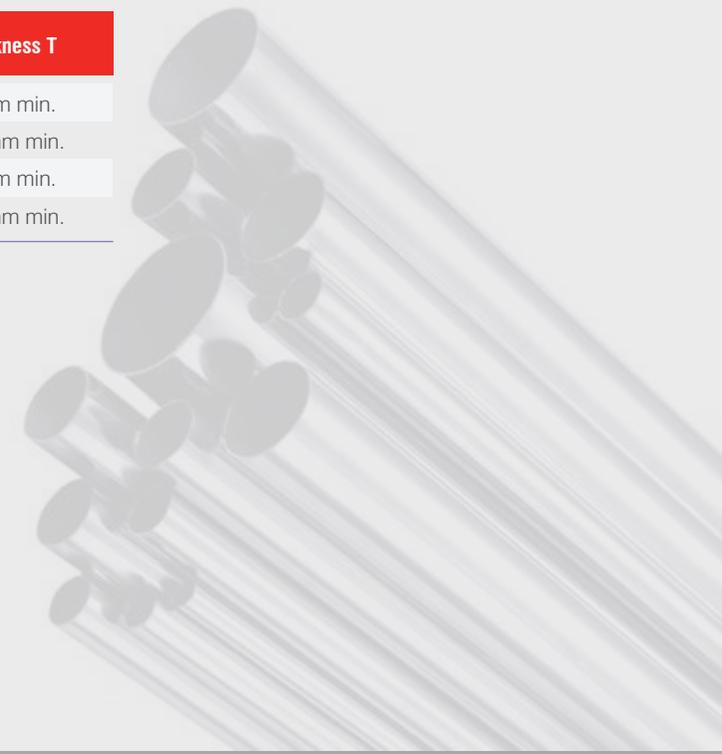
	ALLOWABLE OUTSIDE DIAMETER TOLERANCE IN mm	ALLOWABLE WALL THICKNESS TOLERANCES
<b>ASTM A-269 /A 1016 (Seamless and Welded Austenitic Stainless Steel Tubing for General Service)</b>		
Up to 1/2 [13]	+0.13,-0.13	+15.0%
"1/2 to 1.1/2 [13 to 38], excl"	+0.13,-0.13	+10.0%
"1.1/2 to 3.1/2 [38 to 89], excl"	+0.25,-0.25	+10.0%
"3.1/2 to 5.1/2 [89 to 140], excl"	+0.38,-0.38	+10.0%
"5.1/2 to 8 [140 to 203], excl"	+0.76,-0.76	+10.0%
"8 to 12 [203 to 305], excl"	+1.01,-1.01	+10.0%
"12 to 14 [305 to 356], excl"	+1.26,-1.26	+10.0%
<b>ASTM A-213/A1016 (Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes)</b>		
Under 1 [25]	+0.10,-0.11	+20%,-0.0%
1 to 1.1/2 [25 to 40], incl	+0.15,-0.15	+20%,-0.0%
Over 1.1/2 to 2 [40 to 50], excl	+0.20,-0.20	+22%,-0.0%
2 to 2.1/2 [50 to 65], excl	+0.25,-0.25	+22%,-0.0%
2.1/2 to 3 [65 to 75], excl	+0.30,-0.30	+22%,-0.0%
3 to 4 [75 to 100], incl	+0.38,-0.38	+22%,-0.0%
Over 4 to 7.1/2 [100 to 200], incl	+0.38,-0.64	+22%,-0.0%
Over 7.1/2 to 9 [200 to 225], incl	+0.38,-1.14	+22%,-0.0%
<i>Permissible variations from the specified average wall thickness shall be ±10 % of the specified average wall thickness for cold formed tubes</i>		
<b>ASTM A-268/A1016 (Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service)</b>		
Up to 1/2 [12.7], excl	+0.13,-0.13	+15.0%
1/2 to 1.1/2 [12.7 to 38.1], excl	+0.13,-0.13	+10.0%
1.1/2 to 3.1/2 [38.1 to 88.9], excl	+0.25,-0.25	+10.0%
"3.1/2 to 5.1/2 [88.9 to 139.7], excl"	+0.38,-0.38	+10.0%
"5.1/2 to 8 [139.7 to 203.2], incl"	+0.76,-0.38	+10.0%

**DIN STANDARD- For Welded tube, DIN 17457: the tolerances on OD and wall thickness is given in DIN 2463 or EN 10217-7 (See below table)**

OUTSIDE DIAMETER D (mm)	Tolerance on Outside Diameter D		Tolerances on Wall Thickness T	
	Tolerance Class	Permissible Deviation		
D ≤ 168.30	D3	'+ 0.75 % or + 0.3 mm Whichever is greater	T3	'+ 10 % or + 0.2 mm Whichever is greater
	D4	'+ 0.5 % or + 0.1 mm Whichever is greater		
D > 168.30	D2	'+ 1.0 %		

**DIN STANDARD- For Seamless tube, DIN 17456/17458: the tolerances on OD and wall thickness is given in EN 1127(See below table)**

Tolerance Class	Tolerance on Outside Diameter D	Tolerance Class	Tolerances on Wall Thickness T
D1	+ 1.5 % with + 0.75mm min.	T1	+ 15 % with + 0.6 mm min.
D2	+ 1.0 % with + 0.50mm min.	T2	+ 12.5 % with + 0.4 mm min.
D3	+ 0.75 % with + 0.3mm min.	T3	+ 10 % with + 0.2 mm min.
D4	+ 0.5 % with + 0.10mm min.	T4	+ 7.5 % with + 0.15 mm min.





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an ISO 9001-2015, ISO 14001-2015 and BS OHSAS 18001-2007