



# Hydraulic & Offshore Supplies

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## Instrumentation Tube, Seamless & Welded Pipe



# Seamless Stainless Steel Pipe

Fully softened & descaled. In 5-7 metre random lengths. Tolerances & testing to ASTM A312/ASME SA312-A530. Conforming to NACE Standard MR-01-75 (latest Revision) Certificate to DIN 50049-3.1.B/EN 10 204-3.1.B. Other sizes available on request.

● Stock available from UK/Europe

## Schedule 5S

Nominal Pipe Size	Finish	304/L	321	316/L
½"	Cold			●
¾"	Cold			
1"	Cold	●		●
1 ½"	Cold	●		●
2"	Cold			●
3"	Cold			●

## Schedule 10S

Nominal Pipe Size	Finish	304/L	321	316/L
1/8"	Cold			●
¼"	Cold			●
3/8"	Cold	●	●	●
½"	Cold	●	●	●
¾"	Cold	●	●	●
1"	Cold	●	●	●
1 ¼"	Cold	●		●
1 ½"	Cold	●	●	●
2"	Cold	●	●	●
2 ½"	Cold	●	●	●
3"	Hot	●	●	●
3 ½"	Cold	●		●
4"	Hot	●	●	●
5"	Cold	●		●
6"	Hot	●	●	●
8"	Cold	●	●	●
10"	Cold			●

## Schedule 5S

Nominal Pipe Size	Finish	304/L	321	316/L
1/8"	Cold	●		●
¼"	Cold	●	●	●
3/8"	Cold	●	●	●
½"	Cold	●	●	●
¾"	Cold	●	●	●
1"	Cold	●	●	●
1 ¼"	Cold	●	●	●
1 ½"	Cold	●	●	●
2"	Hot	●	●	●
2 ½"	Hot	●	●	●
3"	Hot	●	●	●
3 ½"	Hot	●	●	●
4"	Hot	●	●	●
5"	Hot	●	●	●
6"	Hot	●	●	●
8"	Hot	●	●	●
10"	Hot			●
12"	Hot			●

## Schedule 80S

Nominal Pipe Size	Finish	304/L	321	316/L
1/8"	Cold			●
¼"	Cold	●	●	●
3/8"	Cold	●	●	●
½"	Cold	●	●	●
¾"	Cold	●	●	●
1"	Cold	●	●	●
1 ¼"	Cold	●	●	●
1 ½"	Cold	●	●	●
2"	Hot	●	●	●
2 ½"	Hot	●	●	●
3"	Hot	●	●	●
3 ½"	Hot	●	●	●
4"	Hot	●	●	●
5"	Hot	●		●
6"	Hot	●	●	●
8" *	Hot	●	●	●
10"	Hot			●
12"	Hot			●

\* Up to 5.0 metres maximum length

## Schedule 120

Nominal Pipe Size	Finish	304/L	321	316/L
4"	Hot			●
6" *	Hot			●

\* Up to 5.0 metres maximum length

## Schedule 160

Nominal Pipe Size	Finish	304/L	321	316/L
½"	Cold	●	●	●
¾"	Cold	●	●	●
1"	Cold	●	●	●
1 ¼"	Hot			●
1 ½"	Hot	●	●	●
2"	Hot	●	●	●
2 ½"	Hot			●
3"	Hot	●	●	●
4"	Hot	●	●	●
6" *	Hot	●	●	●
8" **	Hot			●
10"	Hot			●
12"	Hot			●

\* Up to 4.5 metres maximum length

\*\* Up to 2.6 metres maximum length

## Schedule XXS (Double E.H.)

Nominal Pipe Size	Finish	304/L	321	316/L
½"	Cold			●
¾"	Cold			●
1"	Cold			●
1 ½"	Hot			●
2"	Hot			●
3"	Hot			●
4"	Hot			●
6" *	Hot			●

\* Up to 4.4 metres maximum length

## Seamless Duplex Pipe ASTM A790 UNS S31803/32205

Seamless Stainless Steel Duplex Pipe to ASTM A790 UNS S31803 (SBS A903). In random lengths 5-7.5 metres. Generally to Shell ES247 Rev 2 and Norsok MD6 D41 Rev 3. Conforming to NACE Standard MR-01-75.

- Stock available from UK/Europe

Schedules	NB Pipe Sizes											
	(1/2") 15mm	(3/4") 20mm	(1") 25mm	(1 1/4") 35mm	(1 1/2") 40mm	(2") 50mm	(2 1/2") 65mm	(3") 80mm	(4") 100mm	(5") 125mm	(6") 150mm	(8") 200mm
SCH 10	●	●	●	●	●	●		●	●		●	●
SCH 40	●	●	●		●	●	●	●	●	●	●	●
SCH 60										●		●
SCH 80	●	●	●		●	●	●	●	●		●	●
SCH 100												●
SCH 120									●		●	●
SCH 140												●
SCH 160	●	●	●		●	●		●	●		●	●
SCH XXS						●		●			●	●

## Seamless Super Duplex Pipe ASTM A790 UNS S32750/32760

Stainless Steel Super Duplex Pipe to ASTM A790 UNS S32750 (SBS A913) / UNS S32760 (SVS A915). In random lengths 5-7.5 metres. Generally to Shell ES247 and Norsok MDS D51 Rev 3. Conforming to NACE Standard MR-01-75 (latest revision).

- Stock available from UK/Europe

Schedules	NB Pipe Sizes									
	(1/2") 15mm	(3/4") 20mm	(1") 25mm	(1 1/2") 40mm	(2") 50mm	(3") 80mm	(4") 100mm	(6") 150mm	(8") 200mm	
SCH 10					●	●	●	●	●	
SCH 40	●	●	●	●	●	●	●	●	●	
SCH 80	●	●	●	●	●	●	●	●	●	
SCH 120							●	●	●	
SCH 160		●	●		●	●	●	●	●	
SCH XXS								●		

## Seamless Stainless 6 Moly Pipe ASTM A312 UNS S31254 (6 MOLY)

Seamless Stainless Steel Pipe to ASTM A312 UNS S31254. In random lengths 5-7.5 metres. Norsok MD6. Conforming to NACE Standard MR-01-75 (latest revision).

- Stock available from UK/Europe

Schedules	NB Pipe Sizes							
	(1/2") 15mm	(3/4") 20mm	(1") 25mm	(1 1/2") 40mm	(2") 50mm	(3") 80mm	(4") 100mm	(6") 150mm
SCH 10			●		●	●	●	●
SCH 40	●		●	●	●	●	●	●
SCH 80	●	●		●				

# Seamless Stainless Steel Tube

Generally instrumentation tube and sizes up to 2" OD are supplied in a bright annealed condition.

Tubes up to 20mm in imperial and metric sizes, have a maximum hardness of RB80.

Random lengths 5-7.3 metres. Tolerances and testing to ASTM A269/A213. Certification to DIN 50049-3.1.B/EN 10204-3.1.B

● Stock available from UK/Europe

Size	Finish	304/L	321	316/L
<b>1/8" OD</b>				
1/8" x 24swg	Cold			●
1/8" x 22swg	Cold			●
1/8" x 20swg	Cold			●
<b>3/16" OD</b>				
3/16" x 24swg	Cold			●
3/16" x 22swg	Cold			●
3/16" x 20swg	Cold			●
3/16" x 18swg	Cold			●
<b>1/4" OD</b>				
1/4" x 22swg *	Cold	●	●	●
1/4" x 20swg *	Cold	●	●	●
1/4" x 18swg *	Cold	●	●	●
1/4" x 16swg *	Cold	●	●	●
<b>5/16" OD</b>				
5/16" x 22swg *	Cold			●
5/16" x 20swg *	Cold	●		●
5/16" x 18swg	Cold			●
5/16" x 16swg *	Cold	●	●	●
<b>3/8" OD</b>				
3/8" x 22swg *	Cold	●	●	●
3/8" x 20swg *	Cold	●	●	●
3/8" x 18swg *	Cold	●	●	●
3/8" x 16swg *	Cold	●	●	●
3/8" x 14swg *	Cold			●
<b>7/16" OD</b>				
7/16" x 20swg	Cold			●
<b>1/2" OD</b>				
1/2" x 22swg *	Cold	●	●	●
1/2" x 20swg *	Cold	●	●	●
1/2" x 18swg *	Cold	●	●	●
1/2" x 16swg *	Cold	●	●	●
1/2" x 14swg *	Cold	●	●	●
1/2" x 12swg	Cold		●	●
1/2" x 10swg	Cold	●	●	●
<b>5/8" OD</b>				
5/8" x 20swg *	Cold	●	●	●
5/8" x 18swg *	Cold	●	●	●
5/8" x 16swg *	Cold	●	●	●
5/8" x 14swg *	Cold	●	●	●
5/8" x 10swg	Cold			●
<b>3/4" OD</b>				
3/4" x 20swg *	Cold	●	●	●
3/4" x 18swg *	Cold	●	●	●
3/4" x 16swg *	Cold	●	●	●
3/4" x 14swg *	Cold	●	●	●
3/4" x 12swg *	Cold	●	●	●
3/4" x 10swg	Cold	●	●	●
<b>7/8" OD</b>				
7/8" x 18swg *	Cold			●
7/8" x 16swg *	Cold	●	●	●
7/8" x 10swg	Cold			●
<b>1" OD</b>				
1" x 20swg *	Cold	●	●	●
1" x 18swg *	Cold	●	●	●
1" x 16swg *	Cold	●	●	●
1" x 14swg *	Cold	●	●	●
1" x 12swg *	Cold	●	●	●
1" x 10swg	Cold	●	●	●
1" x 0.250	Cold			●

Size	Finish	304/L	321	316/L
<b>1 1/8" OD</b>				
1 1/8" x 16swg	Cold	●		●
<b>1 1/4" OD</b>				
1 1/4" x 18swg *	Cold		●	●
1 1/4" x 16swg *	Cold	●		●
1 1/4" x 14swg *	Cold			●
1 1/4" x 10swg *	Cold	●	●	●
1 1/4" x 0.250"	Cold			●
<b>1 3/8" OD</b>				
1 3/8" x 16swg	Cold			●
<b>1 1/2" OD</b>				
1 1/2" x 18swg *	Cold			●
1 1/2" x 16swg *	Cold	●	●	●
1 1/2" x 14swg *	Cold		●	●
1 1/2" x 12swg *	Cold			●
1 1/2" x 10swg	Cold	●	●	●
1 1/2" x 0.250"	Cold		●	●
<b>1 5/8" OD</b>				
1 5/8" x 16swg *	Cold	●	●	●
<b>1 3/4" OD</b>				
1 3/4" x 16swg *	Cold		●	●
1 3/4" x 10swg	Cold			●
<b>2" OD</b>				
2" x 16swg *	Cold	●	●	●
2" x 14swg *	Cold	●	●	●
2" x 12swg	Cold			●
2" x 10swg	Cold	●	●	●
2" x 0.250" **	Cold	●	●	●
<b>2 1/4" OD</b>				
2 1/4" x 16swg *	Cold			●
2 1/4" x 10swg	Cold		●	●
2 1/4" x 0.250" **	Cold			●
<b>2 1/2" OD</b>				
2 1/2" x 16swg *	Cold	●	●	●
2 1/2" x 10swg	Cold	●	●	●
2 1/2" x 0.250" **	Hot		●	●
<b>2 3/4" OD</b>				
2 3/4" x 16swg *	Cold			●
2 3/4" x 0.250" **	Hot			●
<b>3" OD</b>				
3" x 16swg *	Cold	●		●
3" x 14swg *	Cold			●
3" x 12swg	Cold		●	●
3" x 10swg	Cold	●	●	●
3" x 0.250" **	Hot	●	●	●
3" x 0.375" **	Hot			●
<b>4" OD</b>				
4" x 0.250" **	Hot			●
<b>5" OD</b>				
5" x 0.250" **	Hot			●
<b>6" OD</b>				
6" x 0.250" **	Hot			●

\* Tubes available dual certified/marked swg/bwg

\*\* Tubes produced to ASTM A312/A511

## Metric Instrumentation

Tolerances and delivery to ASTM A269/A213. Bright annealed, hardness RB80 maximum. Lengths 5.7 metre randoms.

- Stock available from UK/Europe

Size (mm)	304/L	321	316/L
6 x 0.5			●
6 x 1	●	●	●
6 x 1.5			●
8 x 0.8	●		
8 x 1	●	●	●
8 x 1.5	●	●	●
8 x 2			●
10 x 1	●	●	●
10 x 1.5	●	●	●
10 x 2	●	●	●
11 x			●
12 x 1	●	●	●
12 x 1.5	●	●	●
12 x 2	●	●	●
14 x 2			●
15 x 1	●	●	●
15 x 1.5	●	●	●
15 x 2	●	●	●
16 x 1	●	●	●
16 x 1.5	●	●	●
16 x 2	●	●	●
16 x 3			●



## Metric Hydraulic/General Tube

Tolerances and delivery to ASTM A269/A213. Bright annealed. Lengths 5.7 metre randoms.

- Stock available from UK/Europe

Size (mm)	304/L	321	316/L
18 x 1.5	●	●	●
18 x 2	●	●	●
20 x 1.5	●		●
20 x 2	●	●	●
20 x 2.5		●	●
20 x 3		●	●
22 x 1.5	●	●	●
22 x 2	●	●	●
25 x 1.5		●	●
25 x 2	●	●	●
25 x 2.5	●	●	●
25 x 3		●	●
28 x 1.5		●	●
28 x 2	●	●	●
30 x 1.5		●	●
30 x 3		●	●
35 x 2	●		●
38 x 3		●	●
38 x 4		●	●
38 x 5		●	●
42 x 2	●		●



## Heat Exchanger Tube

Seamless Stainless Steel Tube to ASTM A213. Cold finished, softened and descaled. In 12/13 metre random lengths supplied in average and minimum wall. Cut lengths available on request.

OD Weight	mm	304/L	316/L
3/4" x 16 Bwg	(19.05 x 1.65)	●	●
3/4" x 14 Bwg	(19.05 x 2.11)	●	●
1" x 16 Bwg	(25.40 x 1.65)	●	●
1" x 14 Bwg	(25.40 x 2.11)		●



ASTM A269 (Latest Edition)

Seamless & Welded Austenitic Stainless Steel Tube for general corrosion resisting and low or high temperature service.

TOLERANCES

Size Outside Dia. In.	Permissible Variations in Outside Dia. In. (mm)	Permissible Variations in Wall Thickness percent	Ovality shall be double the permissible variations in outside dia. When wall thickness is less than	Permissible variations in cut lengths in. (mm)
Up to ½	±0.005(0.13)	±15		1/8 (3.2) 0
½ to 1 ½" excl.	±0.005(0.13)	±10	0.065" (1.65mm)	1/8 (3.2) 0
1 ½ to 3 ½ excl.	±0.010 (0.25)	±10	0.095" (2.41mm)	3/16 (4.8) 0
3 ½ to 5 ½ excl.	±0.015 (0.38)	±10	0.150" (3.81mm)	3/16 (4.8) 0
5 ½ to 8 excl.	±0.030 (0.76)	±10	0.150" (3.81mm)	3/16 (4.8) 0

ASTM A312/A312M (Latest Edition)

Seamless & Welded Austenitic Steel Pipe for high temperature and general corrosive duties.

TOLERANCES – In accordance with ASTM A530

Nominal Pipe Size	Permissible variations in Outside Diameter	
	Over	Under
1/8 to 1 ½ inc.	1/64 (0.015)	1/32 (0.031)
Over 1 ½ to 4 inc.	1/32 (0.031)	1/32 (0.031)
Over 4 to 8 inc.	1/16 (0.062)	1/32 (0.031)
Over 8 to 18 inc.	3/32 (0.093)	1/32 (0.031)
Over 18 to 26 inc.	1/8 (0.125)	1/32 (0.031)
Over 26 to 30 inc.	5/32 (0.156)	1/32 (0.031)

Minimum wall thickness not to exceed 12.5% under nominal wall.

ASTM A790/A790M (Latest Edition)

Seamless & Welded Ferritic/Austenitic Stainless Steel Pipe.

TOLERANCES

NPS	Permissible variations in outside diameter (in.)	
	Over	Under
1/8 to 1 ½ inc.	1/64 (0.015)	1/32 (0.031)
Over 1 ½ to 4 inc.	1/32 (0.031)	1/32 (0.031)
Over 4 to 8 inc.	1/16 (0.062)	1/32 (0.031)
Over 8 to 18 inc.	3/32 (0.093)	1/32 (0.031)
Over 18 to 26 inc.	1/8 (0.125)	1/32 (0.031)
Over 26 to 30 inc.	5/32 (0.156)	1/32 (0.031)

Minimum wall thickness not to exceed 12.5% under nominal wall.

Outside Diameter in.	Outside Diameter (inc Out-of-Roundness)	
	In. Over	In. Under
<b>Cold-Drawn Tubes</b>		
Under 1	0-004	0.004
1 to 1 ½ inclusive	0.006	0.006
Over 1 ½ to 2 excl.	0.008	0.008
2 to 2 ½ excl.	0.010	0.010
2 ½ to 3 excl.	0.012	0.012
3 to 4 incl.	0.015	0.015
Over 4	0.015	0.025
<b>Hot Finished Tubes</b>		
4 & under	1/64	1/32
Over 4	1/64	3/64

For cold drawn seamless tubes under 2" OD the maximum OD variation may be +/- 0.010". This increased variation is necessitated by ovality and is not to be added to the above values.

Outside Dia in. (mm)	Permissible variations in wall thickness							
	Wall Thickness %							
	0.095 (2.4) and under		Over 0.095 to 0.150 (2.4) to 0.180 (3.8) inc.		Over 0.150 to 0.180 (3.8) to 0.180 (4.6) inc.		Over 0.180 (4.6)	
	Over	Under	Over	Under	Over	Under	Over	Under
<b>Seamless, Hot-Finished Tubes</b>								
4 (101.6) & Under	40	0	35	0	33	0	28	0
Over 4 (101.6)	35	0	33	0	28	0		
<b>Seamless, Hot-Finished Tubes</b>								
	Over		Under					
1 ½ (38.1) & Under			20				0	
Over 1 ½ (38.1)			22				0	

## DIMENSIONS & THEORETICAL WEIGHTS – PIPE SCHEDULES

UPPER FIGURES – Wall thickness in mm. LOWER FIGURE – Weight per metre in kilos. ANSI/ASME B36 19M 1985 – ANSI / ASME B36 10M 1985

Nom. Pipe	O/D in mm	5S *	5	10S *	10	20	30	STD 40S*	40	60	EH 80S*	80	100	120	140	160	Dble EH
1/8"	10.29		0.89	1.24	1.24			1.73	1.73		2.41	2.41					
			0.209	0.281	0.281			0.371	0.371		0.476	0.476					
1/4"	13.72		1.24	1.65	1.65			2.24	2.24		3.02	3.02					
			0.387	0.499	0.499			0.644	0.644		0.809	0.809					
3/8"	17.15		1.24	1.65	1.65			2.31	2.31		3.20	3.20					
			0.494	0.640	0.640			0.858	0.858		1.12	1.12					
1/2"	21.34	1.65	1.65	2.11	2.11			2.77	2.77		3.73	3.73				4.75	7.47
		0.814	0.814	1.02	1.02			1.29	1.29		1.64	1.64				1.97	2.59
3/4"	26.67	1.65	1.65	2.11	2.11			2.87	2.87		3.91	3.91				5.54	7.82
		1.03	1.03	1.30	1.30			1.71	1.71		2.23	2.23				2.93	3.69
1"	33.40	1.65	1.65	2.77	2.77			3.38	3.38		4.55	4.55				6.35	9.09
		1.31	1.31	2.12	2.12			2.54	2.54		3.29	3.29				4.30	5.53
1 1/4"	42.16	1.65	1.65	2.77	2.77			3.56	3.56		4.85	4.85				6.35	9.70
		1.67	1.67	2.73	2.73			3.44	3.44		4.53	4.53				5.69	7.88
1 1/2"	48.26	1.65	1.65	2.77	2.77			3.68	3.68		5.08	5.08				7.14	10.16
		1.93	1.93	3.16	3.16			4.11	4.11		5.49	5.49				7.35	9.70
2"	60.33	1.65	1.65	2.77	2.77			3.91	3.91		5.54	5.54				8.71	11.07
		2.42	2.42	3.99	3.99			5.52	5.52		7.60	7.60				11.29	13.65
2 1/2"	73.03	2.11	2.11	3.05	3.05			5.16	5.16		7.01	7.01				9.53	14.02
		3.75	3.75	5.34	5.34			8.77	8.77		11.59	11.59				15.15	20.72
3"	88.90	2.11	2.11	3.05	3.05			5.49	5.49		7.62	7.62				11.13	15.24
		4.59	4.59	6.56	6.56			11.47	11.47		15.51	15.51				21.67	28.11
3 1/2"	101.60	2.11	2.11	3.05	3.05			5.74	5.74		8.08	8.08					16.15
		5.26	5.26	7.43	7.43			13.78	13.78		18.92	18.92					34.56
4"	114.30	2.11	2.11	3.05	3.05			6.02	6.02	7.14	8.56	8.56		11.13		13.49	17.12
		5.93	5.93	8.50	8.50			16.32	16.32	19.16	22.64	22.64		28.75		34.05	41.66
4 1/2"	127.00							6.27	6.27		9.02	9.02					18.03
								18.65	18.65		26.65	26.65					49.20
5"	141.30	2.77	2.77	3.40	3.40			6.55	6.55		9.53	9.53		12.70		15.88	19.05
		9.61	9.61	11.74	11.74			22.10	22.10		31.44	31.44		40.90		49.94	58.32
6"	168.28	2.77	2.77	3.40	3.40		6.35	7.11	7.11		10.97	10.97		14.27		18.24	21.95
		11.48	11.48	14.04	14.04		25.33	28.69	28.69		43.21	43.21		55.03		68.53	80.43
8"	219.08	2.77	2.77	3.76	3.76	6.35	7.04	8.18	8.18	10.31	12.70	12.70	15.06	18.24	20.62	23.01	22.23
		15.00	15.00	20.27	20.27	33.82	37.38	42.49	42.49	53.90	64.58	64.58	76.94	90.23	102.47	111.16	109.57
9"	244.48							8.69			12.70						
								51.31			73.71						
10"	273.05	3.40	3.40	4.19	4.19	6.35	7.80	9.27	12.70	12.70	15.06	18.24	21.41	25.40	28.58	25.40	
		22.96	22.96	28.21	28.21	42.41	51.81	61.23	61.23	82.79	82.79	97.29	116.38	134.91	157.51	174.95	154.41
11"	298.45							9.53			12.70						
								68.94			90.87						
12"	323.85	3.96	4.19	4.57	4.57	6.35	8.38	9.53	10.31	14.27	12.70	17.45	21.41	25.40	28.58	33.32	25.40
		31.72	33.54	36.54	36.54	50.48	66.20	75.00	80.94	110.62	98.95	133.88	162.14	189.82	211.31	242.40	189.82
14"	355.60	3.96	4.78	6.35	7.92	9.53	9.53	11.13	15.06	12.70	19.05	23.80	27.76	31.75	35.71		
		34.87	41.99	55.53	68.95	82.58	82.58	96.00	128.42	109.04	160.54	197.74	227.89	257.47	286.04		
16"	406.40	4.19	4.78	6.35	7.92	9.53	9.53	12.70	16.66	12.70	21.41	26.19	30.94	36.50	40.46		
		42.40	48.07	63.61	79.03	94.71	94.71	125.20	162.59	125.50	206.40	249.34	290.88	338.07	370.74		
18"	457.20	4.19	4.78	6.35	7.92	11.10	9.53	14.27	19.05	12.70	23.80	29.36	34.93	39.67	45.24		
		47.53	54.15	71.69	89.10	124.00	106.83	158.27	209.00	141.36	258.29	314.54	369.34	414.75	466.67		
20"	508.00	4.78	5.54	6.35	9.53	12.70	9.53	15.06	20.62	12.70	26.19	32.51	38.10	44.45	49.99		
		60.23	69.70	79.76	118.95	157.51	118.95	196.90	251.65	157.51	315.97	387.07	448.30	515.94	573.31		
24"	609.60	5.54	6.35	6.35	9.53	14.27	9.53	17.45	24.59	12.70	30.94	38.89	46.02	52.37	59.51		
		83.80	95.92	95.92	143.20	212.72	143.20	258.74	360.21	189.82	448.31	556.96	649.44	730.72	819.71		





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