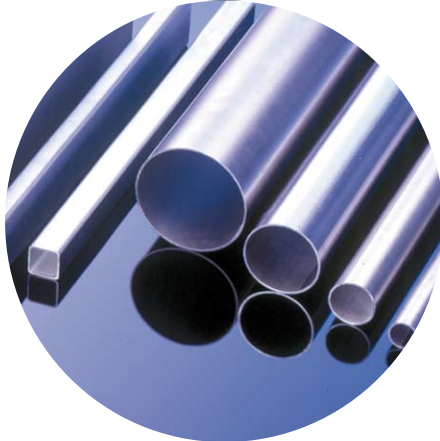
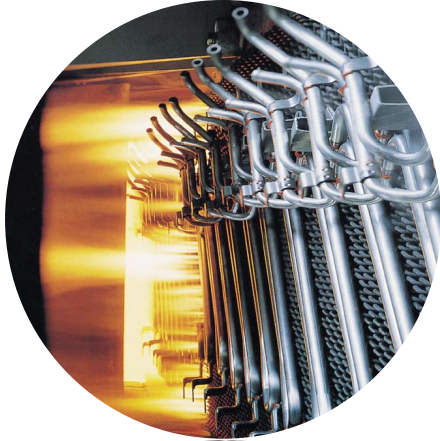




**STAINLESS
STEEL**

CUSTOMISED SOLUTIONS WORLDWIDE

BENTELER 
Distribution



CUSTOMISED SOLUTIONS WORLDWIDE

BENTELER 
Distribution

YOUR PARTNER FOR STAINLESS STEEL TUBES

Benteler Distribution Limited is extending its range of stainless steel tubes. Quality, service and reliability are three factors that we are proud of, add this to a professional sales team, full UK coverage and a competitive pricing policy you know you can be confident when ordering from us.

As well as stocks in the UK we can also access our group stock of 5000 tonnes in both welded and seamless. Giving us the ability to satisfy your requirements

We are wholly owned by Benteler, a global supplier of mild and stainless steel tubing. As well as supplying stainless tube we can offer a complete logistical service to suit your individual requirements. Our extensive cutting facilities allow us to supply tubes cut to tight tolerances, deburred and washed. In addition we are BSI approved. When you deal with Benteler Distribution you have the support of a company that supplies 900,000 tonnes of tube a year for many applications and markets.

PRODUCT RANGE

Seamless Hydraulic and Instrumentation Tube and Pipe

6mm – 219.1mm O/D
0.5mm – 12.7mm wall
Available in 304, 316 and 321 variants

Welded Process Tube and Pipe

6mm – 406.4mm O/D
1.0mm - 5.0mm wall
Available in 304, 316 and 321 variants

Welded Construction Tube and Pipe

8mm – 168.3mm O/D
1.0mm – 5mm wall
Available in 304

Welded Box Section

10 x 10mm – 250 x 150mm
1.0mm – 10mm wall
Available in 304 and 316 variants

Hollow Bar

36mm - 250mm O/D
Available in 304 and 316 variants

MANUFACTURING STANDARDS

Stock is manufactured according to standards

- American (ASTM)
- British Standard (BS)
- European (DIN/EN)

Other internationally recognised or bespoke standards can be offered on request

CALCULATION FOR THE WEIGHT OF STAINLESS TUBES

Weight = (D – T) x T x 0.02504 (Conversion factor for Stainless Steel)

D= Outside Diameter

T= Wall Thickness



COMPARATIVE SPECS

EN	ASTM	BS	DIN	NF	SS
1.4306	304L	304S11	-	Z3 CN 18-10	2352
1.4301	304	304S31	1.4031	Z7 CN 18-09	2333
1.4541	321	321S31	1.4541	Z6 CNT 18-10	2337
1.4404	316L	316S11	1.4404	Z3 CND 17-11-02	2348
1.4401	316	316S31	1.4401	Z7 CND 17-11-02	2347
1.4406	316LN	316S61	1.4406	Z3 CND 17-11 Az	-
1.4571	316Ti	320S31	1.4571	Z6 CNDT 17-12	2350

TYPICAL CHEMICAL ANALYSIS

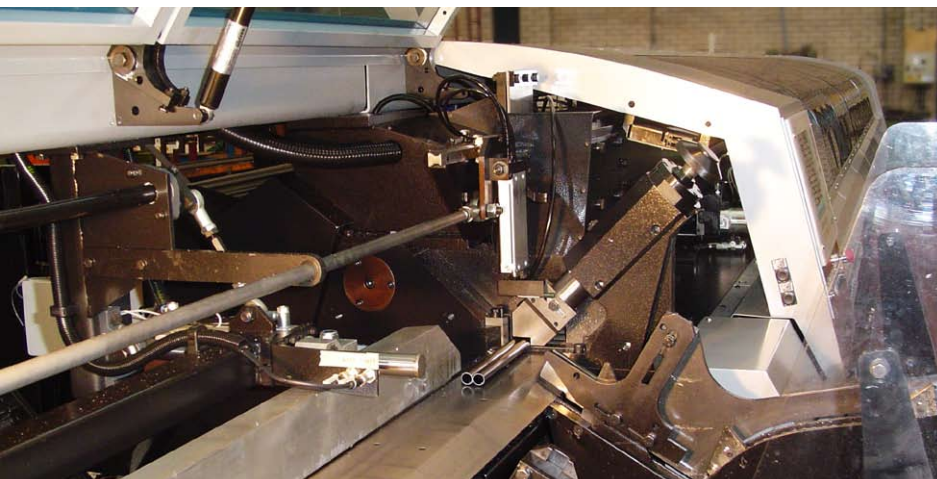
Steel Designations		Chemical composition, average %							
EN	ASTM	C	Si	Mn	S	Cr	Ni	Ti	Mo
1.4306	304L	0.035	0.75	2.0	0.03	18.0 - 20.0	8.0 - 13.0	-	-
1.4301	304	0.080	0.75	2.0	0.03	18.0 - 20.0	8.0 - 13.0	-	-
1.4541	321	0.080	0.75	2.0	0.03	17.0 - 20.0	9.0 - 13.0	5 x C - 0.6	-
1.4404	316L	0.035	0.75	2.0	0.03	16.0 - 18.0	10.0 - 15.0	-	2.0 - 3.0
1.4401	316	0.080	0.75	2.0	0.03	16.0 - 18.0	11.0 - 14.0	-	2.0 - 3.0
1.4406	316LN	0.035	0.75	2.0	0.03	16.0 - 18.0	11.0 - 14.0	-	2.0 - 3.0
1.4571	316Ti	0.080	0.75	2.0	0.03	16.0 - 18.0	10.5 - 13.5	5 x C min	2.0 - 3.0

TOLERANCES ACCORDING TO A269 (WELDED & SEAMLESS TUBE)

Outside Diameter	Tol. OD	Tol. Wall	Tol. Ovality
MM	MM	%	MM
Up to 12.7mm	±0.13mm	± 15%	-
12.7mm up to 38.1mm	± 0.13mm	± 10%	Max 1.65mm
38.1mm up to 88.9mm	± 0.25mm	± 10%	Max 2.41mm

TOLERANCES ACCORDING TO A312 (WELDED & SEAMLESS PIPE)

Outside Diameter	Tol. OD	Tol. Wall	Tol. Ovality
Nominal Pipe Size	MM	%	MM
3.18mm up to 38.1mm	+0.38/-0.79mm	-12.5%	-
38.1mm up to 101.6	± 0.79mm	-12.5%	Max 1.65mm
101.6mm up to 203.2mm	+1.58/-0.79mm	-12.5%	Max 2.41mm



APPLICATIONS:

- Automotive
- Construction
- Fluid Pipelines
- Dairy
- Hygienic
- Decorative
- Furniture
- Health Care
- Oil & Gas

SERVICES:

- Extensive Cutting, Deburring and washing facilities
- Polishing

OTHER PRODUCTS

- ASTM A269 Seamless and Welded Dairy Tubes in grades 304 & 316
- Square Section Welded Tubes – Grades 304, 316 & 316Ti descaled or dull polished
- Rectangular Section Welded Tubes – Grades 304, 316 & 316Ti descaled or dull polished
- ASTM A270 Sanitary (Hygienic) Welded Tubes – Grades 304 & 316 – Mirror polished on O/D
- Other products available on request

Hydraulic & Instrumentation Tube (Welded and Seamless)

	0.41	0.51	0.71	0.91	1	1.22	1.5	1.63	2	2.11	2.64	3.25
6												
6.35												
8												
9.53												
10												
12												
12.7												
14												
15												
15.88												
16												
18												
19.05												
20												
22												
22.23												
25												
25.4												
28												
30												
31.75												
32												
35												
38.1												
40												
41.28												
42												
44.45												
45												
50												
50.8												
54												
57												
60												
63.54												
70												
76.1												

Pipe Sizes ASTM A312/A790 dimensions to ANSI/ASME B36.19M and B36.10 Grades: 304/L and 316/L

NPS (inches)	O/D MM	Sch 10S (MM)	WT KG/M	Sch 40S (MM)	WT KG/M	Sch 80S (MM)	WT KG/M
0.50	21.30	2.11	1.01	2.77	1.29	3.73	1.64
0.75	26.70	2.11	1.30	2.87	1.71	3.91	2.23
1.00	33.40	2.77	2.12	3.38	2.53	4.55	3.28
1.50	48.30	2.77	3.15	3.68	4.11	5.08	5.48
2.00	60.30	2.77	3.98	3.91	5.52	5.54	7.58
3.00	88.90	3.05	6.54	5.49	11.45	7.62	15.48
4.00	114.30	3.05	8.48	6.02	16.29	8.56	22.63
6.00	168.30	3.40	14.03	7.11	28.65	10.97	43.15
8.00	219.10	3.76	20.24	8.18	43.14	12.70	65.54
10.00	273.10	4.19	28.17	9.27	61.15	12.70	82.69
12.00	323.90	4.57	36.50	9.53	74.91	12.70	98.81

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