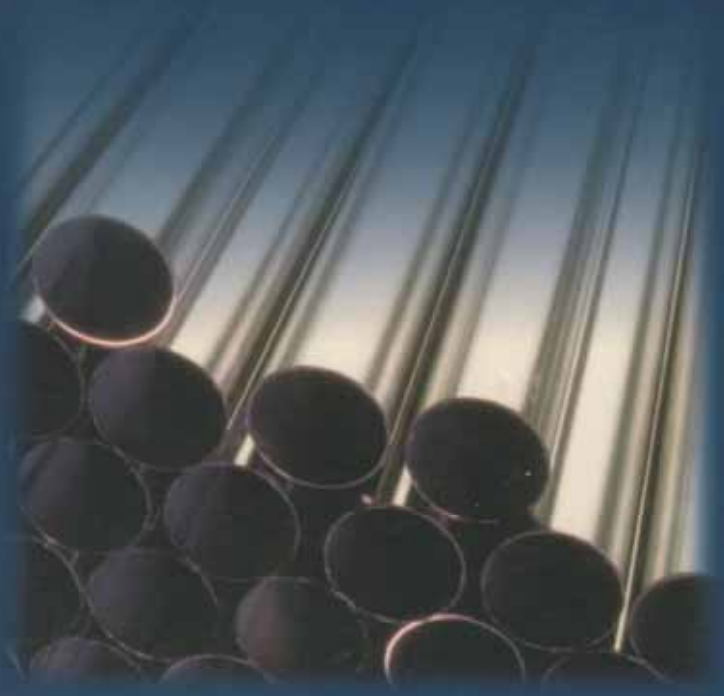
SITINDUSTRIE
STAINLESS STEEL
TUBES, PIPES & FITTINGS



SITINDUSTRIE STAINLESS STEEL TUBES, PIPES and FITTINGS

More than 35.000 tons/year

SITINDUSTRIE started manufacturing stainless steel tubes and pipes in 1968 with the creation of S.LT.A.I. one of the first company's to develop longitudinal welding technology in a market dominated, up to that point in time, by seamless tube. The idea was correct, as for more than thirty-five years SITINDUSTRIE have held a leading role in the welded stainless steel piping sector.

Today, the different European plants of the ***SITINDUSTRIE STAINLESS STEEL DIVISION*** *can offer a wide range of welded stainless steel tubes and pipes complimented by a full range of stainless steel and special alloy fittings.*

The ***SITINDUSTRIE STAINLESS STEEL DIVISION*** *Is today appreciated for the high quality of its products (each mill has a Quality Assurance System certified EN ISO 9001:2000 by Lloyd's Register), predominantly for medium and high grade applications. The main sectors are food & dairy, pulp & paper, chemical & petrochemical, power and desalination industries, shipbuilding, general equipment and heat-exchangers where we can offer either welded stainless steel or seamless copper alloy tubes.*

Tubes, pipes and fittings are highly corrosion resistant and are distributed by a dynamic and efficient sales & marketing department, both nationally and in all major international markets. Large warehouses of raw materials and finished products (welded stainless steel tubes, pipes and fittings) ensure rapid service and compliance with delivery deadlines.

Close co-operation amongst the units enables SITINDUSTRIE to present itself to the market as a flexible and reliable partner capable of meeting the widest variety of customers' requirements in terms of products, size range and technical specifications.

SITINDUSTRIE GROUP

The ***SITINDUSTRIE STAINLESS STEEL DIVISION*** *is part of the SITINDUSTRIE Group, a private international group belonging to the Bocciolone family, Italian entrepreneurs of Valduggia (VC) which has been operating for almost 50 years in various business areas : non ferrous metals (copper and copper alloy tubes, copper bars), stainless steel tubes and fittings, industrial valves, carbon steel castings, steelworks.*

With 15 manufacturing units and more than 1400 personnel, the SITINDUSTRIE Group have a total turnover of more than 300 million euro per year.

PRODUCTION RANGE

SITINDUSTRIE STAINLESS STEEL DIVISION manufactures:

LONGIT4JDINALLY WELDED STAINLESS STEEL AND NICKEL ALLOY TUBES AND PIPES

The product range starts from external diameter of 6 mm up to 1600 mm;
Thickness are from 0,30 mm up to 25,00 mm.

LONGITUDINALLY WELDED STAINLESS STEEL RECTANGUALR TUBES

The product range starts from external dimensions of mm 150x 100 up to mm 300x 100;

Thickness are from 3,00 mm up to 6,00 mm.

LONGITUDINALLY WELDED STAINLESS STEEL SQUARE TUBES

The product range starts from external dimensions of mm 150x 150up to mm 200x200;
Thickness are from 3,00 mm up to 6,00 mm

LONGITUDINALLY WELDED AND RE-DRAWN STAINLESS L AND NICKEL ALLOY TUBES

The product range starts from external diameter of 5 mm up to 70 mm;
Thickness are from 0,30 mm up to 2,5 mm.
Longitudinally welded stainless steel tubes can be re-drawn and also expanded and U-BENT after heat treatment.

FITTINGS

Elbows and Equal Tees manufactured either from pipes or from sheets;

The product range starts from external diameter of 3/8" up to 24"; Thickness are from 2 mm up to 25 mm.

PRODUCTION	O.D. (mm)	THICKNESS (MM)
Longitudinally welded stainless steel and nickel alloy pipes and tubes	***6,00 - 1600***	***0,30 – 25,00***
Longitudinally welded stainless steel rectangular tubes	***150 x 100 – 300 x 100***	***3,00 – 6,00***
Longitudinally welded stainless steel square tubes	***150 x 150 – 200 x 200***	***3,00 – 6,00***
Longitudinally welded stainless steel and nickel alloy re-drawn tubes	***5,00 – 70,00***	***0,30 – 2,50***
Fittings (elbows and tees)	***60,30 – 609,60***	***2,00 – 25,00***

MATERIALS

MATERIAL	USA	AFNOR	DIN	EUROPEAN NORM prEN 10217-7		
	TYPE/UNS			SYMBOLICAL	NUMERICAL	
STAINLESS STEEL	304	TS Z 6 CN 18-09	WST 1.430	X5CrNi18-10	1.4301	Austenitic
	304L			X2CrNi18-9	1.4307	
	304L	TS Z 2 CN 18-10				
	304L		WST 1.4306	X2CrNi19-11	1.4306	
	316	TS Z 6 CND 17-11	WST 1.4401	X5CrNiMo17-12-2	1.4401	
	316L	TS Z 2 CND 17-11	WST 1.4404	X5CrNiMo17-12-2	1.4404	
					1.4432	
			WST 1.4435	X2CrNiMo18-14-3	1.4435	
			WST 1.4436	X3CrNiMo17-13-3	1.4436	
	316Ti	TS Z 6 CNDT 17-12	WST 1.4571	X6CrNiMoTi17-12-2	1.4571	
	317L		WST 1.4438		1.4438	
	321	TS Z 6 CNT 18-10	WST 1.4541	X6CrNiTi18-10	1.4541	
	309S	X15CrNi24-13	WST 1.4833			
	310S	X8CrNi25-20	WST 1.4845			
	904L	X2NiCrMoCu25-20	WST 1.4539	X1NiCrMoCu25-20-5	1.4539	
						Super Austenitic
	S 31254		WST 1.4547	X1NiCrMoCuN20-18-7	1.4547	
	S 31803	X3CrNiMoN22-5	WST 1.4462	X2CrMoN22-5-3	1.4462	Ferritic/Austenitic
	S 32760			X2CrNiMoCuWN25-7-4	1.4501	
	409		WST 1.4512			Ferritic
	430		WST 1.4016			
SPECIAL ALLOYS	N02200		WST 2.4066			Nickel 200
	N2201		WST 2.4068			Nickel 201
	N04400		WST 2.4360			Monel 400
	N06600		WST 2.4816			Inconel 600
	N06601		WST 2.4851			Inconel 601
	N06625					Inconel 625
	N08800		WST 1.4876			Incoly 800
	N08825		WST 2.4858			Incoly 825
	N10001					Hastelloy B
	N10665					Hastelloy B-2
	N10276					Hastelloy C276

Other grades (such as S32750, S32550, S32205, titanium,…) available on request

MAIN FABRICATION STANDARDS

Application/Standard	ASTM	ASME	DIN	AFNOR	BS	EN
Corrosion	A 269-A 312 A 358-A 409 A 778-A 790	SA312-SA 409 SA 790	17455-17457 PK1 17457 PK2	NF A 49-147 NF A 49-244		Pr 10217-7
Food & dairy	A 270		11850-17457	NF A 49-249	1864-4825	
Heat exchanger	A 249 – A 688 A 789	SA 249 – SA 688 SA 789	17457 PK1 17457 PK2-28181	NF A 49-247	3059-3606	
Structural	A 554- A 778		17455	NF A 49-147	6323 Pt.8	
Ornamental	A554		17455	NF A 49-647		
Others					4127 (domestic water service)	
Fittings	A 403	SA 403				

QUALITY SYSTEM

*SITINDUSTRIE **Quality System** has been accredited and certified in each unit by **Lloyd's Register**. See certificates attached.*
*The reference Code for the Quality System is **EN ISO 9001:2000.***
In each unit the Q.A. Manager reports directly to the General Manager and has the authority to stop the production when there is infringement of the Quality Assurance requirements. The effectiveness of the Q.A. system is enforced by periodical quality reports, internal audits and systematic internal and external training measures for employees.
The Quality System is applied to all jobs.
Additionally the mills have received homologations from the following world-wide inspection Bodies:

TUV	*R.I.NA.*	*UDT*
LLOYD'S REGISTER of SHIPPING	*AQUAP*	*STOOMWEZEN*
DWT NORSKE VERITAS	*BUREAU VERTAS*	*NOSROK*
GERMANISCHER LLOYD		

TEST FACILITIES (main subjects)

Non Destructive testing methods:

- *eddy current test according to SEP 1914, SEP 1925, ASTM A 1016, ASTM A 999, EN 10246*
- *radiographic examination according to ASME VIII § UW-51, EN 1435*
- *radioscopic examination according to ASME Vlll § UW-51 on CD Rom*
- *visual examination*
- *liquid penetrant test according to ASTM E 165 type II method A*
- *hydrostatic test*
- *pneumatic test*
- *PM.I*

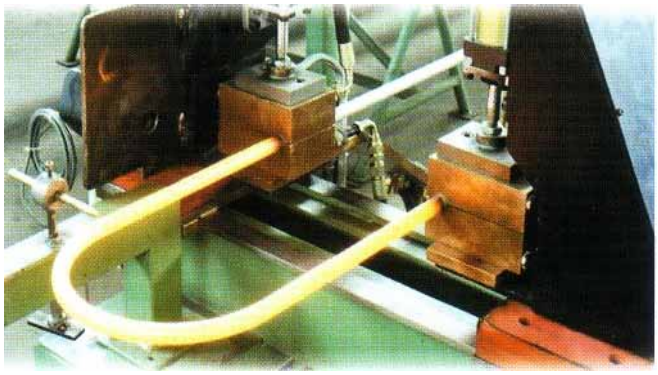
Laboratory equipped for:

- *mechanical and technological test*
- *mechanical test at high temperature*
- *hardness test*
- *impact test at low temperatures and at environment temperature*
- *corrosion test according to ASTM A 262 practice A, B, C, D, E*
- *corrosion test according to ASTM G 48 practice A, B*
- *corrosion test according to EN ISO 365112 A*
- *macrographic and micrographic examinations*
- *measure of the content of ferrite*

FINISHING

Execution, dimensional tolerances and marking are made in accordance with the above mentioned international standards. With regard to the surface finishing, on customer's request, we can offer:
• pickled
• annealed
• brushed
• polished grit 180 - 220 -320- 400 - 500
• inside polished
• mirror polished

The stainless steel pipes are longitudinally welded on a continuous cycle profiling line having GTAW (Gas Tungsten Arc Welding) or, for thicker tubes, PAW (Plasma Arc Welding) and filler metal can be added during the process.



MAIN APPLICATIONS

CORROSION RESISTANC

The SITINDUSTRIE STAINLESS STEEL DIVISION has developed advanced methods for the manufacture of pipes and fittings with high corrosion resistance. Throughout the years, the Division has acquired a wealth of experience supplying products for some of the most important worldwide projects. Many nuclear power stations in Europe, for example, have been supplied with pipes and fittings from the Sitindustrie Group.

Sitindustrie's welded stainless steel corrosion resistant pipes can be manufactured either from quarto plate or from coils. They can be produced either by continuous welding line, rolling machine or press.

OUTSIDE DIAMETER *mm 6,00 = 1.600*
WALL THICKNESS *mm 0,50 = 25,00*
AREA OF INTEREST *off- shore & on-shore, oil & gas, shipyard, power plants...*

FOOD INDUSTRY

These type of tubes are manufactured exclusively from stainless steel cold-rolled, heat-treated strip (finished grade 28) and the manufacturing process has been studied to meet the specific requirements of the food industry.

OUTSIDE DIAMETER *Standard mm 18,00 = 20,4*
WALL THICKNESS *Standard mm 1,00 = 2,00*
AREA OF INTEREST *Food industry, in particular for transport and process of milk, beer, soft drinks , wine, spirits...*

HEAT EXCHANGER

The SITINDUSTRIE STAINLESS STEEL DIVISION can offer a complete and wide range of tubes & pipes highly resistant to gas and fluid corrosion at high temperatures whilst maintaining the requested mechanical characteristics.

The main applications are: condensers, evaporators, boilers and super-heaters used in the most critical areas of such fundamental plants as conventional and nuclear power stations, petroleum, refineries; chemical and petrochemical plants, sugar mills,...

After heat treatment the tubes can be both expanded and U-bent. The tubes are always Eddy-Current tested, during welding and off line at the end of the production cycle.

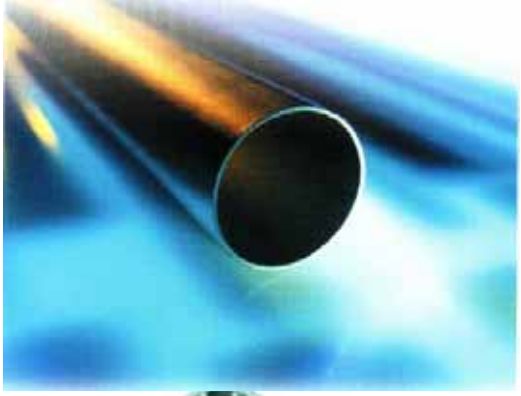
Furthermore, in this sector, the Sitindustrie Group can offer, through its Non Ferrous Metals Division, its exclusively high grade ***seamless copper base heat exchanger tubes*** *(please contact us for more details).*

OUTSIDE DIAMETER *standard mm 12,00 = 50,80*
Imperial sizes 1/2" = 2"
WALL THICKNESS *standard mm 0,50 = 2,77*
AREA OF INTEREST *heat exchangers, condensers and air coolers, power plants, petroleum refineries, chemical & petrochemical plants...*

TUBE SIZES

Outside diameter		WALL THICKNESS													
mm		0,40	0,50	0,60	0,70	0,80	0,90	1,00	1,20	1,50	1,60	2,00	2,50	2,60	3,00
	ins	0,016	0,020	0,024	0,028	0,031	0,035	0,039	0,047	0,059	0,063	0,079	0,098	0,102	0,118
		WEIGHT (kg/m)													
6	0,236	0,056	0,069	0,081	0,093	0,104	0,115	0,125	0,144						
6,35	0,250	0,060	0,073	0,086	0,099	0,111	0,123	0,134	0,155						
7,14	0,281	0,068	0,083	0,098	0,113	0,127	0,141	0,154	0,178						
8	0,315	0,076	0,094	0,111	0,128	0,144	0,160	0,175	0,204						
8,73	0,344	0,083	0,103	0,122	0,141	0,159	0,176	0,194	0,226						
9,53	0,375	0,091	0,113	0,134	0,155	0,175	0,194	0,214	0,250						
10	0,394		0,119	0,141	0,163	0,184	0,205	0,225	0,264						
11,1	0,43		0,133	0,158	0,182	0,206	0,230	0,253	0,297						
12	0,472		0,144	0,171	0,198	0,224	0,250	0,275	0,325	0,394	0,417				
12,7	0,500		0,153	0,182	0,210	0,238	0,266	0,293	0,346	0,421	0,445				
14	0,551		0,169	0,201	0,233	0,264	0,295	0,326	0,385	0,470	0,497	0,601			
14,29	0,563		0,173	0,206	0,238	0,270	0,302	0,333	0,393	0,480	0,508	0,615			
15	0,591		0,182	0,216	0,251	0,284	0,318	0,351	0,415	0,507	0,537	0,651			
15,88	0,625		0,193	0,230	0,266	0,302	0,338	0,373	0,441	0,540	0,572	0,695			
16	0,630		0,194	0,231	0,268	0,304	0,340	0,376	0,445	0,545	0,577	0,701			
17,2	0,677		0,209	0,249	0,289	0,329	0,367	0,406	0,481	0,590	0,625	0,761			
18	0,709		0,219	0,261	0,303	0,345	0,385	0,426	0,505	0,620	0,657	0,801			
19,05	0,750		0,232	0,277	0,322	0,366	0,409	0,452	0,536	0,659	0,699	0,854			
20	0,787				0,338	0,385	0,430	0,476	0,565	0,695	0,737	0,901			
21,3	0,839				0,361	0,411	0,460	0,508	0,604	0,744	0,789	0,967	1,177	1,217	
22	0,866				0,373	0,425	0,476	0,526	0,625	0,770	0,817	1,002	1,221	1,263	
22,22	0,875				0,377	0,429	0,480	0,531	0,632	0,778	0,826	1,013	1,234	1,277	
23	0,906				0,391	0,445	0,498	0,551	0,655	0,808					
25	0,484				0,426	0,485	0,543	0,601	0,715	0,883	0,937	1,152	1,409	1,458	
25,4	1,000				0,433	0,493	0,552	0,611	0,727	0,898	0,954	1,172	1,434	1,484	
26,9	1,059				0,459	0,523	0,586	0,649	0,772	0,954	1,014	1,247	1,527	1,582	
28	1,102				0,479	0,545	0,611	0,676	0,805	0,995	1,058	1,302			
29	1,142				0,496	0,565	0,633	0,701	0,835	1,033	1,098	1,352			
30	1,181				0,514	0,585	0,656	0,726	0,865	1,070	1,138	1,402	1,722	1,784	2,028
31,75	1,250				0,544	0,620	0,695	0,770	0,918	1,136	1,208	1,490	1,831	1,898	2,160
32	1,260				0,549	0,625	0,701	0,776	0,925	1,146	1,218	1,502	1,847	1,914	2,178
33	1,299						0,723	0,801	0,956	1,183					

Other dimensions available on request.



TUBE SIZES

Outside diameter		WALL THICKNESS												
mm		0,90	1,00	1,20	1,50	1,60	2,00	2,50	2,60	3,00	3,20	3,60	4,00	5,00
	ins	0,035	0,039	0,047	0,059	0,063	0,079	0,098	0,102	0,118	0,126	0,142	0,157	0,197
		WEIGHT (kg/ m)												
33,7	1,327		0,819	0,977	1,209	1,286	1,588	1,953	2,025	2,306	2,444			
34	T,339		0,826	0,986	1,221	1,298	1,603							
35	1,378		0,851	1,016	1,258	1,338	1,653	2,035	2,109	2,404				
36	1,417	0,791	0,876	1,046										
37	1,457	0,814	0,901	1,076	1,333	1,418	1,753							
38,1	1,500	0,838	0,929	1,109	1,375	1,462	1,808	2,229	2,317	2,637				
40	1,575	0,881	0,977	1,166	1,446	1,538	1,903	2,348	2,435	2,779				
41	1,614	0,904	1,002	1,196	1,484	1,579	1,953	2,410	2,500	2,855				
42	1,654	0,926	1,027	1,226	1,521	1,619	2,003	2,473	2,565	2,930				
42,4	1,669	0,935	1,037	1,238	1,536	1,635	2,023	2,498	2,591	2,960	3,141	3,498		
43	1,693	0,949	1,052	1,256	1,559	1,659	2,053							
44,5	1,752		1,089	1,301	1,615	1,719	2,128	2,629	2,728	3,117	3,309	3,687		
45	1,772		1,102	1,316	1,634	1,739	2,153	2,661	2,760	3,155	3,349	3,732		
48,3	1,902		1,184	1,415	1,758	1,871	2,319	2,867	2,975	3,403	3,614	4,029		
50	1,969		1,227	1,466	1,822	1,939	2,404	2,974	3,086	3,531				
50,8	2,000		1,247	1,490	1,852	1,971	2,444	3,024	3,138	3,591				
51	2,008		1,252	1,496	1,859	1,979	2,454	3,036	3,151	3,606				
52	2,047		1,277	1,526	1,897	2,019	2,504	3,099	3,216	3,681				
53	2,087		7,302	1,556	1,934	2,059	2,554							
54	2,126		1,327	1,587	1,972	2,099	2,604	3,224	3,346	3,831				
57	2,244		1,402	1,677	2,085	2,220	2,754	3,412	3,542	4,056	4,311	4,814	5,308	
60,3	2,374		1,485	1,776	2,209	2,352	2,920	3,618	3,757	4,304	4,575	5,171	5,639	
63,5			1,565	1,872	2,329	2,480	3,080	3,819	3,965	4,545	4,832	5,400	5,960	
69	2,7T7		1,703	2,037	2,535	2,700	3,355							
70	2,756		1,728	2,067	2,573	2,740	3,405	4,226	4,388	5,033				
73	2,874		1,803	2,157	2,686	2,861	3,556	4,413	4,583	5,258	5,593	6,256	6,911	8,514
76,1	2,996		1,881	2,251	2,802	2,985	3,711	4,607	4,785	5,491	5,841	6,535	7,222	8,902
83	3,268		2,053	2,458	3,061	3,261	4,056							
84	3,307		2,078	2,488	3,099	3,301	4,107	5,102	5,299	6,085				
85	3,346		2,103	2,518	3,136	3,341	4,157	5,165	5,365	6,160				
86,9	3,421	.	2,151	2,575	3,208	3,417	4,252							
88,9	3,500		2,201	2,635	3,283	3,498	4,352	5,409	5,618	6,453	6,867	7,689	8,504	10,504
90	3,543		2,229	2,668	3,324	3,542	4,407							
43	3,661		2,304	2,758	3,437	3,662	4,557	5,665	5,885	6,761				
94	3,701		2,329	2,788	3,474	3,702	4,607	5,728	5,951	6,836				
1 01,6	4,000			3,017	3,760	4,006	4,988	6,204	6,445	7,407	7,885	8,834	9,776	12,094

Other dimensions available on request.

TUBE SIZES

Outside dameter		WALL THICKNESS											
		1,20	1,50	1,60	2,00	2,50	2,60	3,00	3,20	3,60	4,00	5,00	6,00
mm	ins	0,047	0,059	0,063	0,079	0,098	0,102	0,118	0,126	0,142	0,157	0,197	0,236
		WIEIGHT (kg/ m) (kg/ m) WEIGHT (kg/ m)Wall ()											
103	4,055		3,812	4,062	5,058								
104	4,044		3,850	4,103	5,108	6,354	6,602	7,587					
108	4,252	3,209	4,000	4,263	5,308	6,604	6,862	7,888	8,397	9,411	10,417	12,896	
114,3	4,500	3,398	4,237	4,515	5,624	6,999	7,272	8,361	8,902	9,979	11,048	13,684	16,271
123	4,843		4,564	4,864	6, 060								
127	5,000		4,714	5,024	6,260								
124	5,074		4,789	5, 104	6,360	7,919	8,229	9,465	10,080	11,304	12,520		
133	5,236		4,939	5,264	6,560	8 ,169	8,490	9,766	10,401	11,665	12,921		
139,7	5,500		5,191	5,533	6,896	8,589	8,926	10,269	10,937	12,269	13,592	16,864	
153	6,024		5,690	6,066	7,562	9,421	9,792	11,268					
154	6,063		5,728	6,106	7,612	9,484	9,857	11,343	12,083	13,558	15,024		
156	6,142				7,712	9,609	9,987	11,493	12,244	13,738	15,224		
154	6,260				7,863	9,797	10,182	11,719	12,484	14,008	15,525		
168,3	6,626				8,328	10,379	10,788	12,417	13,229	14,847	16,456	20,445	24,384
174	7,047				8,864	11,049	11,484	13,221	14,087	15,811	17,528	21,785	25,992
193,7	7,626				9,600	11,969	12,441	14,325	15,264	17,136	19,000	23,625	28,200
204	8,031				10,116	12,6 14	13,112	15,099	16,090	18,065	20,032	24,915	29,748
20b	8,110				10,216	12,739	13,242	15,249	16,250	18,245	20,232	25,165	30,048
219,1	8,626				10,872	13,559	14,095	16,233	17,300	19,426	21,544	26,805	32,016
244,5	4,626				12, 144	15,149	15,749	18,141	19,335	21,716	24,088	29,985	35,832
254	10,000				12,620	15,744	16,367	18,855	20,096	22,572	25,040	31,175	37,262
256	10,079				12,720	15,869	16,497	19,005	20,256	22,752	25,240	31,425	37,560
273	10,748				13,572	16,933	17,604	20,282	21,619	24,285	26,943	33,554	40,114
323,9	12,752				16,121	20,120	20,918	24,106	25,697	28,873	32,041	39,926	47,761
355,6	14,000				17,708	22,104	22,982	26,487	28,237	31,731	35,216	43,895	52,524
406,4	16,000				20,252	25,284	26,289	30,303	32,308	36,310	40,304	50,255	60,156
457,2	E8,000				22 ,796	28,464	29,596	34,120	36,378	40,889	45,393	56,615	67,788
508	20,000				25,340	31,644	32, 904	37,936	40,449	45,469	50,481	62 ,976	75,420
610	24,076				30,449	38,030	39,544	45,598	48,622	54,663	60,697	75,746	90,745
711	27,442							53,185	56,715	63,768	70,813	88,391	105,919
873	32,008							60,847	64,888	72,963	81,029	101,162	121,244
914	35,484										91,146	13,807	136,418
1016	40,000										101, 362	126,577	151,742
1220	48,031										121,795	152,118	182,391

Other dimensions available on request.

ANSI SIZES

ANSI B36.19 / B36.10												
D.N	N.B	O.D	5S		10S		10		20		30	
	inches	mm	W.T.	Kg / m	W.T.	Kg / m	W.T.	Kg / m	W.T.	Kg / m	W.T.	Kg / m
6	1/8	10,2			1,24	0,279						
8	1/4	13,7			1,65	0,499						
10	3/8	17,1			1,65	0,640						
15	1/2	21,3	1,65	0,814	2,11	1,016	2,11	1,016	-	-		
20	3/4	2b,7	1,65	1,034	2,11	1,298	2,11	1,298	-	-		
25	1	33,4	1,65	1,312	2,77	2,125	2,77	2,125	-	-		
32	1 1/4	42,2	1,65	1,674	2,77	2,732	2,77	2,732	-	-		
40	1 1/2	48,3	1,65	1,926	2,77	3,155	2,77	3,155	-	-		
50	2	60,3	1,65	2,424	2,77	3,992	2,77	3,992	-	-		
65	2 1/2	73	2,11	3,747	3,05	5,345	3,05	5,345	-	-		
80	3	88,9	2,11	4,585	3,05	6,557	3,05	6,557	-	-		
90	3 1/2	101,6	2,11	5,256	3,05	7,526	3,05	7,526	-	-		
100	4	114,3	2,11	5,927	3,05	8,496	3,05	8,496	-	-		
125	5	141,3	2,77	9,609	3,40	11,740	3,40	11,740	-	-		
150	6	168,3	2,77	11,480	3,40	14,037	3,40	14,03	-	-		
200	8	219,1	2,77	15,003	3,76	20,272	3,76	20,27	6,35	33,825	7,04	37,379
250	10	273	3,40	22,957	4,19	28,208	4,19	28,20	6,35	42,406	7,80	51,807
300	12	323,9	3,96	31,720	4,57	36,536	4,57	36,53	6,35	50,484	8,38	66,197
350	14	355,6	3,96	34,868	4,78	41,990	6,35	55,532	7,92	68,951	9,53	82,583
400	16	406,4	4,19	42,199	4,78	48,070	6,35	63,610	7,92	79,025	9,53	94,706
450	18	457,2	4,19	47,529	4,78	54,151	6,35	71,68	7,92	89,100	11,13	124,318
500	20	508	4,78	60,231	5,54	69,702	6,35	79,764	9,53	118,950	12,70	157,509
550	22	558	4,78	66,216	5,54	76,638	6,35	87,71	9,53	130,882	12,70	173,410
600	24	609,6	5,54	83,796	6,35	95,919	6,35	95,91	9,53	143,195	14,27	212,724
650	26	660,4	-	-	-	-	7,920	129,3	12,70	205,974		
700	28	711,2	6,35	112,074	7,92	139,472	7,92	139,4	12,70	222,129	15,88	276,484
750	30	762	6,35	120,151	7,92	149,547	7,92	149,5	12,70	238,283	15,88	296,684
800	32	812,8	-	-	-	-	7,92	159,6	12,70	254,438	15,88	316,883
850	34	863,6	-	-	-	-	7,92	169,6	12,70	270,593	15,88	337,083
900	36	914,4	6,35	144,384	-	-	7,92	179,7	12,70	286,748	15,88	357,283
	38	965,2			-	-	-		-	-		
	40	1016	6,35	160,538	-	-	-		-	-		
1000	42	1066,8	-	-	-	-	-		-	-		
	44	1118	-	-	-	-	-		-	-		
	46	1168	-	-	-	-	-		-	-		
	48	1219,2	-	-	-	-	-		-	-		

Other dimensions available on request.

ANSI SIZES

ANSI B36.19 / B36.10												
D.N	N.B	O.D	40S/STD		40		60		80S/XS		80	
	inches	mm	W.T.	Kg / m	W.T.	Kg / m	W.T.	Kg / m	W.T.	Kg / m	W.T.	Kg / m
6	1/8	10,2	1,73	0,369	1,73	0,369			2,41	0,473	2,41	0,473
8	1/4	13,7	2,24	0,644	2,24	0,644			3,02	0,809	3,02	0,809
10	3/8	17,1	2,31	0,858	2,31	0,858			3,20	1,118	3,20	1,118
15	1/2	21,3	2,77	1,288	2,77	1,288			3,73	1,645	3,73	1,645
20	3/4	2b,7	2,87	1,710	2,87	1,710			3,91	2,228	3,91	2,228
25	1	33,4	3,38	2,541	3,38	2,541			4,55	3,287	4,55	3,287
32	1 1/4	42,2	3,56	3,441	3,56	3,441			4,85	4,531	4,85	4,531
40	1 1/2	48,3	3,68	4,108	3,68	4,108			5,08	5,493	5,08	5,493
50	2	60,3	3,91	5,524	3,91	5,524			5,54	7,601	5,54	7,601
65	2 1/2	73	5,16	8,769	5,16	8,769			7,01	71,589	7,01	11,589
80	3	88,9	5,49	11,466	5,49	11,466			7,62	15,509	7,62	15,509
90	3 1/2	101,6	5,74	13,778	5,74	13,778			8,08	18,921	8,08	18,921
100	4	114,3	6,02	16,322	6,02	16,322			8,56	22,665	8,56	22,665
125	5	141,3	6,55	22,101	6,55	22,101			9,53	31,444	9,53	31,444
150	6	168,3	7,11	28,694	7,11	28,694			10,91	42,991	10,91	42,991
200	8	219,1	8,18	43,198	8,18	43,198	10,31	53,897	12,70	65,630	12,70	65,630
250	10	273	9,27	61,229	9,27	61,229	12,70	82,793	12,70	82,793	15,06	97,289
300	12	323,9	9,53	75,007	10,31	80,944	14,27	110,619	12,70	98,948	17,45	133,881
350	14	355,6	9,53	82,583	11,13	96,002	15,06	128,418	12,70	109,045	19,05	160,538
400	16	406,4	9,53	94,706	12,70	125,200	16,66	162,586	12,70	125,200	21,41	206,396
450	18	457,2	9,53	106,828	14,27	158,268	19,05	209,003	12,70	141,355	23,80	258,286
500	20	508	9,53	118,950	15,06	185,889	20,62	251,646	12,70	157,509	26,19	315,970
550	22	558	9,53	130,882	15,90	215,830	22,22	298,102	12,70	173,410	28,60	379,127
600	24	609,6	9,53	143,195	17,45	258,739	24,59	360,210	12,70	189,819	30,94	448,310
650	26	660,4	9,53	155,318					12,70	205,974		
700	28	711,2	9,53	167,440					12,70	222,129		
750	30	762	9,53	179,563					12,70	238,283		
800	32	812,8	9,53	191,685	17,48	348,111			12,70	254,438		
850	34	863,6	9,53	203,808	17,48	370,346			12,70	270,593		
900	36	914,4	9,53	215,930	19,05	427,093			12,70	286,748		
	38	965,2	9,53	228,053					12,70	302,903		
	40	1016	9,53	240,175					12,70	319,057		
1000	42	1066,8	9,53	252,298					12,70	335,212		
	44	1118	9,53	264,516					12,70	351,494		
	46	1168	9,53	276,447					12,70	367,395		
	48	1219,2	9,53	288,665					12,70	383,677		

Other dimensions available on request.

HEAT EXCHANGERS

Outside		WALL THICKNESS									
mm		0,70	0,80	0,90	1,00	1,20	1,50	1,60	2,00	2,50	2,60
	ins	0,028	0,031	0,035	0,039	0,047	0,059	0,063	0,079	0,098	0,102
		WEIGHT (kg/m)									
12	0,472	0,198	0,224	0,250	0,275	0,325	0,394	0,417			
12,7	0,500	0,210	0,238	0,266	0,293	0,346	0,421	0,445			
14	0,551	0,233	0,264	0,295	0,326	0,385	0,470	0,497	0,601		
14,29	0,563	0,238	0,270	0,302	0,333	0,393	0,480	0,508	0,615		
15	0,591	0,251	0,284	0,318	0,351	0,415	0,507	0,537	0,651		
15,88	0 625	0 266	0,302	0,338	0,373	0,441	0,540	0,572	0,695		
16	0,630	0,268	0,304	0,340	0,376	0,445	0,545	0,577	0,701		
17,2	0,677	0,289	0,329	0,367	0,406	0,481	0,590	0,625	0,761		
18	0,709	0,303	0,345	0,385	0,426	0,505	0,620	0,657	0,801		
19,05	0,750	0,322	0,366	0,409	0,452	0,536	0,659	0,699	0,854		
20	0,787	0,338	0,385	0,430	0,476	0,565	0,695	0,737	0,901		
21,3	0,839	0,361	0,411	0,460	0,508	0,604	0,744	0,789	0,967	1,177	1,217
22	0,866	0,373	0,425	0,476	0,526	0,625	0,770	0,817	1,002	1,221	1,263
22,22	0,875	0,377	0,429	0,480	0,531	0,632	0,778	0,826	1,013	1,234	1,277
23	0,906	0,391	0,445	0,498	0,551	0,655	0,808				
25	0,984	0,426	0,485	0,543	0,601	0,715	0,883	0,937	1,152	1,409	1,458
25,4	1,000	0,433	0,493	0,552	0,611	0,727	0,898	0,954	1,172	1,434	1,484
26,9	1,059	0,459	0,523	0,586	0,649	0,772	0,954	1,014	1,247	1,527	1,582
28	7,102	0,479	0,545	0,611	0,676	0,805	0,995	1,058	1,302		
29	1,742	0,496	0,565	0,633	0,701	0,835	1,033	1,098	1,352		
30	1,781	0,514	0,585	0,656	0,726	0,865	1,070	1,138	1,402	1,722	1,784
31,75	1,250	0,544	0,620	0,695	0,770	0,918	1,136	1,208	1,490	1,831	1,898
32	1,260	0,549	0,625	0,701	0,776	0,925	1,146	1,218	1,502	1,847	1,914
33	1,299			0,723	0,801	0,956	1,183				
33,7	1,327			0,739	0,819	0,977	1,209	1,286	1,588	1,953	2,025
34	1,339			0,746	0,826	0,986	1,221	1,298	1,603		
35	1,378			0,768	0,851	1,016	1,258	1,338	1,653	2,035	2,109
36	1,417			0,791	0,876	1,046					
37	1,457			0,814	0,901	1,076	1,333	1,418	1,753		
38,1	1,500			0,838	0,929	1,109	1,375	1,462	1,808	2,229	2,311
40	1,575			0,881	0,977	1,166	1,446	1,538	1,903	2,348	2,435
41	1,614			0,904	1,002	1,196	1,484	1,579	1,953	2,410	2,500
42	1,654			0,926	1,027	1,226	1,521	1,619	2,003	2,473	2,565
42,4	1,669			0,935	1,037	1,238	1,536	1,635	2,023	2,498	2,591
43	1,693			0,949	1,052	1,256	1,559	1,659	2,053		
44,5	1,752				1,089	1,301	1,615	1,719	2,128	2,629	2,728
45	1,772				1,102	1,316	1,634	1,739	2,153	2,661	2,760
48,3	1,902				1,184	1,415	1,758	1,871	2,319	2,867	2, 975
50	1,96 9				1 227	1 466	1,822	1,939	2,404	2,974	3,086
50,8	2,000				1,247	1,490	1,852	1,971	2,444	3,024	3,138
51	2,008				1,252	1,496	1,859	1,979	2,454	3,036	3,151
52	2,047				1,277	1,526	1,897	2,019	2,504	3,099	3,216
53	2,087				1,302	1,556	1,934	2,059	2,554		
54	2,126				1,327	1,587	1,972	2,099	2,604	3,224	3,346
57	2,244				1,402	1,677	2,085	2,220	2,754	3,412	3,542
60,3	2,374				1,485	1,776	2,209	2,352	2,920	3,618	3,757
63,5	2,500				1,565	1,872	2,329	2,480	3,080	3,819	3,965

Other dimensions available on request.

DAIRY TUBES

Din sizes

O.D mm	O.D ins	WALL THICKNESS 1,00	1,50	2,00
		0,039	0,059	0,079
		WEIGHT (kg/m)		
12	0,472	0,275	0,394	
13	0,512		0,432	
14	0,551			0,601
18	0,709	0,426	0,620	
19	0,748		0,657	
20	0,787			0,901
22	0,866	0,526	0,770	
23	0,906		0,808	
24	0,945			1,102
28	1,102	0,676	0,995	
29	1,142		1,033	
30	1,181			1,402
34	1,339	0,826	1,221	
35	1,378		1,258	

O.D mm	O.D ins	WALL THICKNESS 1,00	1,50	2,00
		0,039	0,059	0,079
		WEIGHT (kg/m)		
36	1,417			1,703
40	1,575	0,977	1,446	
41	1,614		1,484	
42	1,654			2,003
52	2,047	1,277	1,897	
53	2,087		1,934	
54	2,126			2, 604
70	2,756		2,573	3,405
85	3,346		3,136	4,157
104	4,094			5,108
129	5,079			6,360
154	6,063			7,612
204	8,031			10,176

Other dimensions available on request.

Imperial sizes

BWG		20	19	18	17	16	15	14	13	12	11	10
mm		0,91	1,06	1,24	1,47	1,65	1,83	2,11	2,41	2,77	3,05	3,40
	ins	WEIGHT (Kg/m)										
15.88	5/8	-	0,393	-	-	-	-	-	-	-	-	-
19.05	¾	0,413	0,477	0,553	0,647	0,719	0,789	0,895	-	-	-	-
25.4	1	0,558	0,646	0,750	0,881	0,981	1,080	1,231	-	-	-	-
31.75	1 ¼	0,703	0,815	0,947	1,115	1,244	1,371	1,566	1,771	2,010	2,192	-
38.1	1 ½	0,847	0,983	1,144	1,348	1,506	1,662	1,902	2,154	2,451	2,677	-
44.5	1 ¾	0,993	1,153	1,343	1,584	1,770	1,955	2,240	2,540	2,894	3,166	-
50.8	2	1,137	1,320	1,539	1,816	2,031	2,244	2,573	2,920	3,331	3,647	4,035
63.5	2 ½	-	-	1,933	2,283	2,555	2,826	3,244	3,687	4,212	4,617	5,117
76.2	3	-	-	2,327	2,751	3,080	3,408	3,915	4,453	5,093	5,587	6,198
88.9	3 ½	-	-	-	3,218	3,605	3,990	4,585	5,219	5,974	6,557	7,279
101.6	4	-	-	-	3,686	4,130	4,572	5,256	5,986	6,855	7,526	8,360
114.3	4 ½	-	-	-	4,153	4,654	5,154	5,927	6,752	7,736	8,496	9,442
127	5	-	-	-	-	-	-	6,598	7,519	8,617	9,466	10,523

Other dimensions available on request.

STRUCTURAL TUBES

mm		ins		WALL THICKNESS 3,00	4,00	5,00	6,00
				0,118	0,157	0,197	0,236
Side A	Side B	Side A	Side B	WEIGHT (kg/m)			
150	100	5,906	3,937	11,734	15,545	19,307	23,018
150	150	5,906	5,906	14,126	18,735	23,293	27,802
200	100	7,874	3,937	14,126	18,735	23,293	27,802
200	150	7,874	5,906	16,518	21,924	28,281	32,585
200	200	7,874	7,874	18,911	25,113	31,266	37,369
250	100	9,843	3,937	16,518	21,924	27,281	32,585
250	150	9,843	5,906	18,911	25,113	31,266	37,369
300	100	11,811	3,937	18,911	25,113	31,266	37,369

Other dimensions available on request.

RE-DRAWN TUBES

SITINDUSTRIE is also specialised in longitudinally welded stainless steel re-drawn precision tubes mainly used in the automotive, chemical, automation and pharmaceutical industries.

Manufactured from stainless steel or other alloys with a high content of nickel, the tubes are profiled and longitudinally TIG welded without the use of filler metal.

The welded and re-drawn tubes are manufactured with extremely tight dimensional tolerances and have a high resistance to corrosion. The operation of cold drawing by means of diameter and wall thickness reduction, ensure perfect material homogeneity, as well as a smooth outside diameter and internal bore without surface defects.

The roughness values and the dimensional tolerances are constantly checked and kept within very strict limits.

During manufacture, process samples are taken and subjected to mechanical and metallurgical tests in order to guarantee constantly high quality standard.

The tubes are always double Eddy Current tested, firstly during welding, and secondly off line at the end of the production cycle.

Stainless steel welded and redrawn precision tubes are supplied in accordance with the specification requested by the customer, in fact after welding these tubes are cold re-drawn to meet the specification of our customers.

PRODUCTIVE RANGE *diameter 5,0-70,0 mm, thickness 0,3 ÷ 2,5 mm*

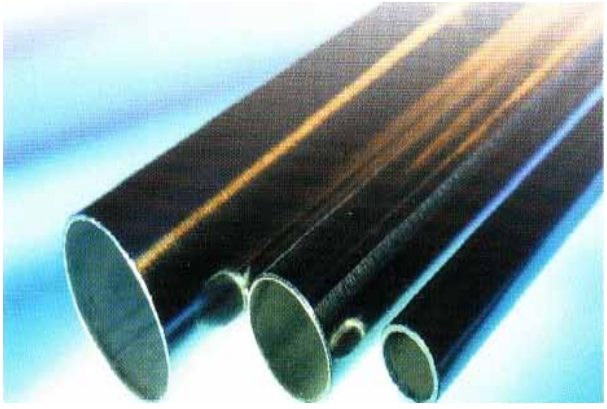
APPLICABLE STANDARDS *ASTM A 249, A 269, A 270,A 312, A 554, A 778, A 789, A 790*
DIN 11850, 11866, 17,455, 17457 PK 1, 17457 PK2
NF A 49-147,49-244, 49-247,49-647, 49-249

ANSI	WST.NR	AFNOR	DIN
304	1.4301	TS Z 6 CN 18 - 09	X5 CrNi 18 10
304L	1.4306	TS Z 2 CN 18- 10	X2 CrNi 19 11
316	1.4401	TS Z 2 CND 17- 11	X5 CrNiMo 17 12 2
316L	1.4404	T5 Z 2 CND 17 -12	X2 CrNiMo 17 13 2
	1.4435	Z 3 CND 1 - 12 -03	X2 CrNiMo 18 14 3
321	1.4541	TS Z 6 CNT 18 - 10	X6 CrNiTi 18 10
316Ti	1.4571	TS Z 6 CNDT 17 - 12	X6 CrNiMoTi 17 12 2
ALLOY 600	2.4816	N C 15 Fe	Ni Cr 15 Fe
ALLOY 601	2.4851	NC 23 Fe	Ni Cr 23 Fe
ALLOY 625	2.4856	N C 22 D Nb	Ni Cr 22 Mo 9 N6
ALLOY 800	1.4876	Z 8 CN 32 - 21	Ni Cr Al Ti 32 20
ALLOY 825	2.4958	Ni Fe 32 C 20 Du	Ni Cr 21 Mo

TUBE SIZES

Outside diameter		WALL THICKNESS							
mm		0,30	0,40	0,50	0,60	0,80	1,00	1,25	1,50
	ins	0,012	0,016	0,020	0,024	0,031	0,039	0,049	0,059
		WEIGHT (kg/m)							
6	0,236	0,043	0,056	0,069	0,081	0,105			
7	0,276	0,051	0,066	0,082	0,097	0,125			
8	0,315	0,058	0,076	0,094	0,112	0,145	0,176		
9	0,354	0,066	0,086	0,011	0,127	0,165	0,201		
10	0,394	0,073	0,097	0,119	0,142	0,185	0,226	0,275	
11	0,433	0,081	0,107	0,132	0,157	0,205	0,251	0,306	
12	0,472	0,088	0,117	0,145	0,172	0,225	0,276	0,338	
12,7	0,500	0,094	0,127	0,153	0,182	0,239	0,294	0,360	
13	0,512		0,127	0,157	0,187	0,245	0,302	0,369	
14	0,551		0,137	0,170	0,202	0,265	0,327	0,401	
15	0,591		0,147	0,182	0,217	0,286	0,352	0,432	0,509
15,88	0,625		0,156	0,193	0,230	0,303	0,374	0,460	0,542
16	0,630		0,157	0,195	0,232	0,306	0,377	0,463	0,547
18	0,709			0,199	0,262	0,346	0,427	0,526	0,622
19,05	0,750			0,233	0,278	0,367	0,454	0,559	0,662
20	0,787			0,245	0,293	0,860	0,478	0,589	0,697
22	0,866			0,270	0,323	0,426	0,528	0,652	0,773
24	0,945			0,295	0,353	0,466	0,578	0,715	0,848
25	0,984					0,487	0,603	0,746	0,886
25,4	1,000					0,495	0,613	0,759	0,901
26	1,024					0,507	0,628	0,778	0,924
28	1,102					0,547	0,679	0,840	0,999
30	1,181					0,587	0,729	0,903	1,074
31,75	1,250					0,622	0,773	0,958	1,140
32	1,260					0,627	0,779	0,966	1,150
34	1,339						0,829	1,029	1,225
36	1,417						0,880	1,092	1,301
40	1,575						0,980	1,217	1,451
45	1,772						1,106	1,374	1,640
50	1,969						1,231	1,531	1,282
50	2,000						1,252	1,557	1,858

Other dimensions available on request.



FITTINGS

SITINDUSTRIE unit manufactures a wide range of stainless steel fittings specific to various sectors: chemical & petrochemical, off-shore / on Shore, oil & gas, food & dairy, nuclear, cryogenic.

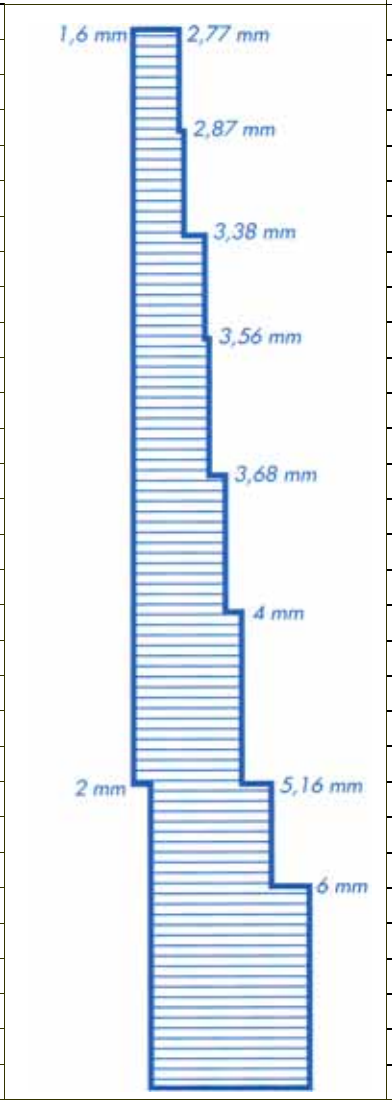
PRODUCTIVE RANGE	DIAMETERS	THICKNESS
ELBOWS MANUFACTURED FROM PIPES	3/8" to 12"	Up to SCH 405
WELDED ELBOWS MANUFACTURED FROM SHEETS	6" to 24"	2 to 25 mm
EOUAL TEES MANUFACTURED FROM PIPES	1" to 8"	Up to SCH 405
WELDED TEES MANUFACTURED FROM SHEETS	10" f0 24"	-

BASE MATERIALS *Austenitic steels (304, 304L, 316, 316L,321,316 Ti...)*
Ferritic-austenitc steels (UNS S 31803, UNS S 32750...)
Specials alloys

APPLICABLE STANDARDS: *DIN 2605, 2615, 2609*
ASTMA774, A815, A403, 8366

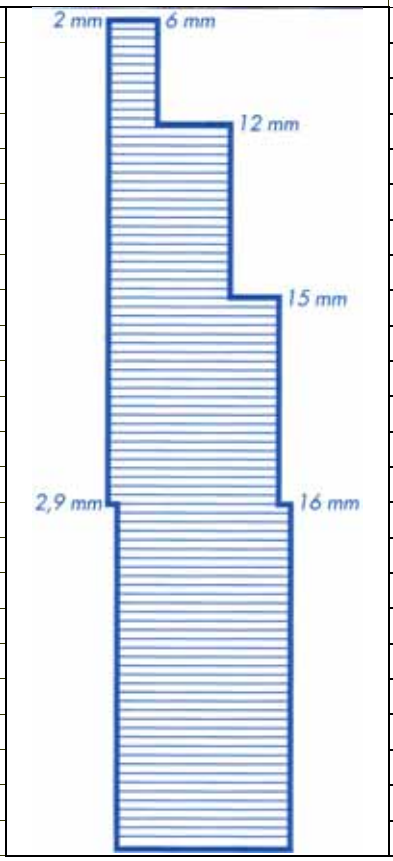
90° ELBOWS SIZES

ISO-90° ELBOWS - Mod 3 d					Manufacturing Programme	ANSI - 90° ELBOWS – B36 -19					
ND	D	a	F	Weight	0 1 2 3 4 5 6	NB	SCH	D	a	F	Weight
15	21,3	1,6	38	0,03		1/2	5S	21,3	1,65	38	0,06
		2		0,04			10S		2,11		0,06
		2,6		0,05			40S		2,77		0,08
20	26,9	1,6	28,5	0,05		3/4	5S	26,7	1,65	28,5	0,06
		2		0,06			10S		2,71		0,07
		2,6		0,08			40S		2,87		0,09
25	33,7	1,6	38	0,18			5S	33,4	1,65	38,1	0,09
		2		0,21			IOS		2,77		0,14
		3,2		0,36			40S		3,38		0,16
32	42,4	1,6	47,5	0,13		1 1/4	5S	42,2	1,65	47,6	0,17
		2		0,15			10S		2,77		0,23
		2,6		0,20			40S		3,56		0,25
		3,2		0,25							
40	48,3	1,6	57	0,18		1 1/2	5S	48,3	1,65	57,2	0,19
		2		0,21			IOS		2,77		0,31
		2,6		0,29			40S		3,68		0,40
		3,2		0,36							
50	60,3	1,6	76	0,25			5S	60,3	1,65	76,2	0,31
		2		0,35			10S		2,77		0,51
		2,9		0,48			40S		3,91		0,71
		3,6		0,56							
		4		0,70							
65	76,1	2	95	0,56		2112	5S	73	2,11	95,3	0,60
		2,9		0,82			10S		3,05		0,85
		3,6		1,20			40S		5,16		1,40
80	88,9	2	114,5	0,78			5S	88,9	2,71	114,3	0,90
		2,9		1,16			10S		3,05		1,20
		4		1,80			40S		5,49		2,20
100	114,3	2	152,5	1,35			5S	174,3	2,1 1	152,4	1,50
		2, 9		2,01			10S		3,05		2,20
		4,5		3,20			40S		6,02		4,16



D =Diameter **a=Thickness** **F= Radius**

90° ELBOWS SIZES

ISO-90° ELBOWS - Mod 3 d					Manufacturing Programme	ANSI - 90° ELBOWS – B36 -19					
ND	D	a	F	Weight	0 1 2 3 4 5 6	NB	SCH	D	a	F	Weight
125	139,7	2	190,5	2,07		5	5S	141,3	2,77	190,5	2,95
		2,9	190,5	3,10			10S		3,4	190,5	3,60
		3,2	190,5	3,24			40S		6,55	190,5	6,55
150	168,3	2	228,5	3,30		6	5S	168,3	2,77	228,6	4,05
		2,9	228,5	4,27			10S		3,4	228,6	5,40
		3,2	228,5	4,71			40S		7,11	228,6	10,90
200	219,1	2	305,0	5,50		8	5S	219,1	2,77	304,8	6,91
		2,9	305,0	8,20			10S		3,76	304,8	10,60
		4	305,0	10,60			40S		8,18	304,8	21,50
250	273	2	381,0	8,25		10	5S	273,1	3,4	381,0	14,50
		2,9	381,0	12,40			10S		4,19	381,0	19,50
		4	381,0	16,50			40S		9,27	381,0	38,50
300	323,9	2	457,0	11,70		12	5S	323,9	3,96	457,2	23,10
		2,9	457,0	17,75			10S		4,57	457,2	27,20
		4	457,0	23,40			40S		9,53	457,2	59,36
350	355,6	2,9	533,5	22,00		14	5S	355,6	3,96	533,4	28,96
		4	533,5	30,00			10S		4,77	533,4	36,20
400	406,4	2,9	609,5	29,00			STD		9,53	533,4	70,20
		4	609,5	39,10		16	5S	406,4	4,19	609,6	40,05
450	457,2	4	686,0	48,00			10S		4,77	609,6	47,60
500	508	4	762,0	60,00			STD		9,53	609,6	91,50
		6	762,0	89,50		18		457,2		685,8	
600	610	4	914,0	86,00		20		208,0		762,0	
		6	914,0	129,00		24		609,6		914,4	

D =Diameter a=Thickness F= Radius

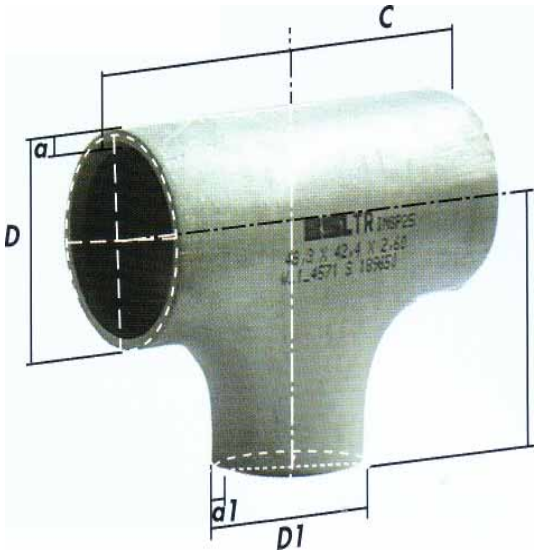
ANSI –ELBOWS 90° S.R. – B16-9-MSS SP43										
NB	D		F		WALL THICKNESS : a				WEIGHT	
					SCH 10S		SCH 40S		SCH 10S	SCH 40S
	inch	mm	inch	mm	inch	mm	inch	mm		
6	6.625	168,3	6	152,4	0.134	3,4	0.280	7,11	3,45	7,19
8	8.625	219,1	8	203,2	0.148	3,76	0.322	8,18	6,61	4,39
10	10.750	273,05	10	25,4	0.165	4,19	0.365	9,27	1,48	5,39
12	12.750	323,9	12	304, 8	0.180	4,57	-		7,82	
14	14.000	355,6	14	355,6	0.188	4,77	-		3,83	
16	16.000	406,4	16	406,4	0.188	4,77	-		1,12	
1S	18.000	457,2	18	457,2	0.188	4,77	-		9,38	
20	20.000	508	20	508	0.218	5,54	-		6,47	
24	24.000	609,6	24	609,6	0.250	6,35	-		3,21	

UNEQUAL TEES SIZES

WALL THICKNESS : a																			
NB		D		D1		SCH 10S				SCH 40S				C		M		WEIGHT	
						a		a1		a		a1						SCH 10S	SCH 40S
D	D1	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		
2	1	2.375	60,32	1.315	33,4	0,109	2,77	0.109	2,77	0.154	3,91	0.133	3,37	2.500	63,5	2.000	50,8	0,73	1,14
2	1 ½	2.375	60,32	1.900	48,26	0,109	2,77	0.109	2,77	0.154	3,91	0.145	3,68	2.500	63,5	2.375	60,3	0,77	1,23
3	1 ½	3.500	88,9	1.900	48,26	0,120	3,05	0.109	2,77	0.216	5,48	0.145	3,68	3.375	85,7	2.875	73	1,61	2,98
3	2	3.500	88,9	2.375	60,32	0,120	3,05	0.109	2,77	0.216	5,48	0.154	3,91	3.375	85,7	3.000	76,2	1,63	3,01
4	2	4.500	114,3	2.375	60,32	0,120	3,05	0.109	2,77	0.237	6,02	0.154	3,91	4.125	104,8	3.500	88,9	2,54	5,09
4	3	4.500	114,3	3.500	88,9	0,120	3,05	0.120	3,05	0.237	6,02	0.216	5,49	4.125	104,8	3.875	98,4	2,61	5,28
6	3	6.625	168,3	3.500	88,9	0,134	3,4	0.120	3,05	0.280	7,11	0.216	5,49	5.625	142,9	4.875	123,8	5,76	11,94
6	4	6.625	168,3	4.500	114,3	0,134	3,4	0.120	3,05	0.280	7,11	0.237	6,02	5.625	142,9	5.125	130,2	5,86	12,12
8	4	8.625	219,1	4.500	114,3	0,148	3,76	0.120	3,05	0.322	8,17	0.237	6,02	7.000	177,8	6.125	155,6	9,81	21,29
8	6	8.625	219,1	6.625	168,3	0,148	3,76	0.134	3,4	0.322	8,17	0.280	7,11	7.000	177,8	6.625	168,3	9,91	21,6

Additional manufacturing capability from 10" to 24"

MAIN RUN: D1										
BRANCH : D	4	5	6	8	10	12	14	16	18	20
10	10	10S	10S 40S	10S 40S						
12		10S 40S	10S 40S	10S	10S 40S					
14			10S 40S	0S 0S	10S 40S	10S 40S				
16			10S 40S	10S 40S	10S 40S	10S 40S	10S 40S			
18				10S	10S	10S 40S	10S 40S	10S 40S		
20			10S	10S	10S	10S 40S	10S	10S 40S	10S 40S	
24					10S	10S	10S	10S	10S	10S



BSL T.R.

COMPANY BACKGROUND

BSL T.R., *located in Soissons-France, was founded in 1967. Throughout the years it has followed the French nuclear industry growing, which made it internationally known.*

BSL T.R. *manufactures a complete range of longitudinally welded stainless steel and super alloys stainless steel tubes complimented by a wide range of stainless steel fittings.*

The stainless steel corrosion resistant tube and pipe production of BSL T.R. is mainly dedicated to various sectors: chemical and petrochemical, off-shore/on-shore, oil and gas, energy, nuclear, cryogenic.

PRODUCTIVE RANGE

PRODUCTIVE RANGE	DIAMETERS	THICKNESS
WELDED PIPES	1" to 48"	1,5 to 25 mm
ELBOWS MANUFACTURED FROM PIPES	3/8" to 12"	Up to SCH 40S
WELDED ELBOWS MANUFACTURED FROM SHEETS	6" to 24"	2 to 25 mm
EQUAL TEES MANUFACTURED FROM PIPES	1" to 8"	Up to SCH 40S
WELDED TEES MANUFACTURED FROM SHEETS	10" to 24"	-

SITINDUSTRIE STAINLESS STEEL TUBES, PIPES AND FITTINGS

BSL T.R. S.A.
TUBES ET RACCORDS

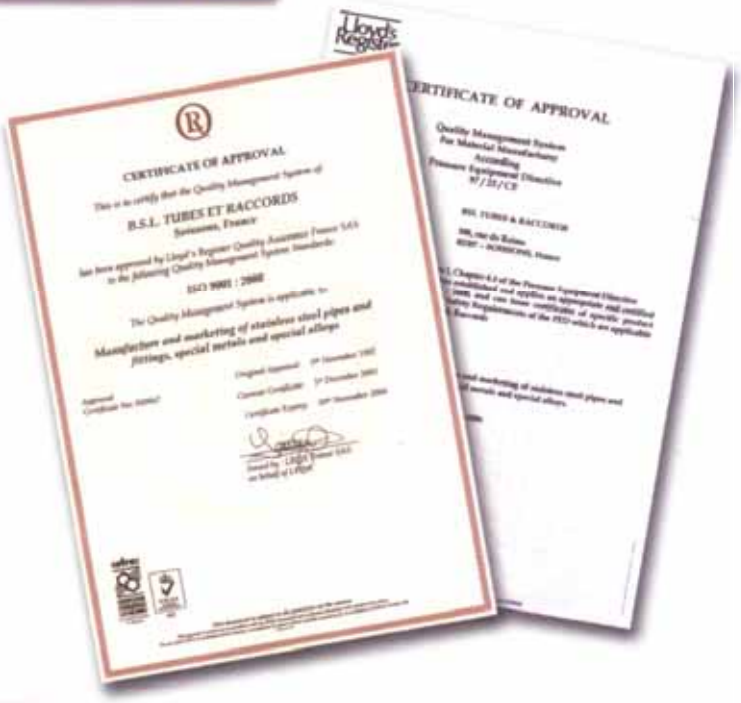
QUALITY

The quality management system of ***BSL T.R.*** *has been approved by Lloyd's Register Quality Assurance to the following Quality Management standards:* ***NF EN ISO 9001:2000***

The approval certificate n° is ***920847***

In addition BSL T.R. holds approvals certifications from many relevant inspection authorities and Bodies such as:

- *TÜV*
- *Lloyd's Register of Shipping*
- *Det Norske Veritas*
- *R.I.NA.*
- *Norsok and ELF Atochem.*



MATERIALS

- *AUSTENITIC*
- *SUPERAUSTENITIC*
- *FERRITIC/AUSTENITIC*
- *FERRITIC*
- *SPECIAL ALLOYS*

Other grades are available on request

APPLICABLE STANDARDS

ASTM *A 269, A 312, A 358, A 409, A 554, A 778, A 790, A 928, B 673, B 705, B 725 (fittings: A 403, A 774, A 815, B 366)*

DIN *17455, 17457, 17457 PK1, 17457 PK2, 28181, (fittings: 2605, 2615, 2609)*

NF *A 49-147, 49-244, 49-247*

APPLICATIONS

- *POWER PLANTS*
- *OIL & GAS*
- *CHEMICAL & PETROCHEMICAL*
- *LNG PROJECT*

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SITINDUSTRIE STAINLESS STEEL
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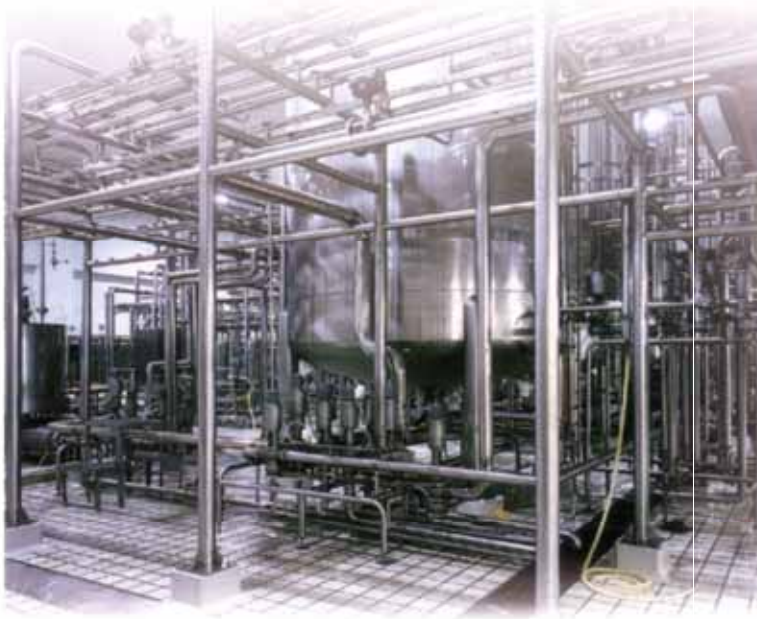
SITAI INOX

COMPANY BACKGROUND

SITAI INOX, *located in Prato Sesia (NO)-Italy, was founded in 1968. Over the years it has developed and improved by implementing internal operative strategies focusing on technological innovation, production organisation and quality control.*

SITAI INOX *plant is completely dedicated to longitudinally welded stainless steel corrosion-resistant tube production focused on various sectors: chemical & petrochemical, food & dairy, naval and decoration.*

It is organised for large mass-production and also manufactures a range of out of standards size tubes for special applications.



PRODUCTIVE RANGE

PRODUCTIVE RANGE	DIAMETERS	THICKNESS
LONGITUDINALLY WELDED STAINLESS STEEL PIPES	18 - 273	0,70-9,27
LONGITUDINALLY WELDED STAINLESS STEEL RECTANGULAR TUBES	150x100 – 300x100	3 - 6
LONGITUDINALLY WELDED STAINLESS STEEL SQUARE TUBES	150x150 – 200x200	3 - 6

SITINDUSTRIE STAINLESS STEEL TUBES, PIPES AND FITTINGS

SITAI INOX S.p.A.

QUALITY

The quality management system of ***SITAI INOX*** *has been approved by Lloyd's Register Quality Assurance to the following Quality Management standards:* ***UNI EN ISO 9001:2000***

It supports also the requirements of Annex 1, sect. 4.3 of ***PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC.***

The approval certificate n° is ***LRC 170355.***

In addition ***SITAI INOX*** *holds approval certifications from many relevant inspection authorities and Bodies such as TÜV, Lloyd's Register of Shipping, Det Norske Veritas, Germanischer Lloyd, R.I.NA., AQUAP, Bureau Veritas, ISPESL and UDT.*

MATERIALS

- *AUSTENITIC*
- *SUPERAUSTENITIC*
- *FERRITIC/AUSTENITIC*
- *FERRITIC*
- *SPECIAL ALLOYS*

Other grades are available on request

APPLICABLE STANDARDS

ASTM *A 249, A 269, A 270, A 312, A 358, A 409 A 554, A 668, A 778, A 789, A 790*
ASME *SA 249, SA 312, SA 688, SA 789, SA 790*
DIN *11850, 17455, 17457, 17457 PK1, 17457 PK2, 28181*
NF *A 49-147, 49-244, 49-247, 49-249, 49-647*
EN *pr 10217-7*

APPLICATIONS

- *FOOD AND DAIRY*
- *OIL & GAS*
- *CHEMICAL & PETROCHEMICAL*
- *HEAT EXCHANGER*
- *NAVAL*
- *ORNAMENTAL*

SITAI INOX is member of UNSIDER

www.sitindustrie.com

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SITINDUSTRIE STAINLESS STEEL
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ZWAHLEN & MAYR
ZM Tubes

COMPANY BACKGROUND

The Swiss company ***ZWAHLEN & MAYR*** *was founded in 1881 and is now publicly quoted on the Zürich Stock Exchange. In 1978 it acquired two production lines for tube manufacture, in order to diversify from its main activity: design, build and assembly of structural steelworks.*

At present the plant based in Aigle specialises in the production of longitudinally welded stainless steel tubes and longitudinally welded stainless steel re-drawn precision tubes.

The WELDED HEAT EXCHANGER TUBES are used in the most critical areas of fundamental plants such as conventional and nuclear power stations, petroleum refineries, chemical and petrochemical plants and sugar mills.

ZM TUBES *specialises in heat exchanger tubes and is able to produce up to 30 meters straight fixed lengths or U-bent tubes.*

The WELDED RE-DRAWN TUBES are mainly used in the automotive, chemical, automation and pharmaceutical industries. After welding these tubes are cold re-drawn to meet the specification of our customers. Austenitic and high nickel alloy materials are part of the production range.

PRODUCTIVE RANGE

PRODUCTIVE RANGE	DIAMETERS	THICKNESS
LONGITUDINALLY WELDED STAINLESS STEEL PIPES	12,00-63,50	0,70-3,00
LONGITUDINALLY WELDED STAINLESS STEEL AND NICKEL ALLOY RE-DRAWN TUBES	5,00-70,00	0,30-2,50

SITINDUSTRIE STAINLESS STEEL TUBES, PIPES AND FITTINGS

ZWAHLEN & MAYR S.A.
ZM TUBES

QUALITY

The quality management system of ***ZWAHLEN & MAYR*** *has been approved by Lloyd's Register Quality Assurance to the following Quality Management standards:* ***EN ISO 9001:2000***

The approval certificate n° is ***943175***

Additionally the plant is certified by:

- *TÜV AD 2000 W0*
- *TÜV PED 97/23/EC*
- *R.I.NA.*
- *AQUAP*
- *BASF*
- *AVENTIS*

MATERIALS

- *AUSTENITIC*
- *SUPERAUSTENITIC*
- *DUPLEX*
- *INCONEL*
- *INCOLLOY*

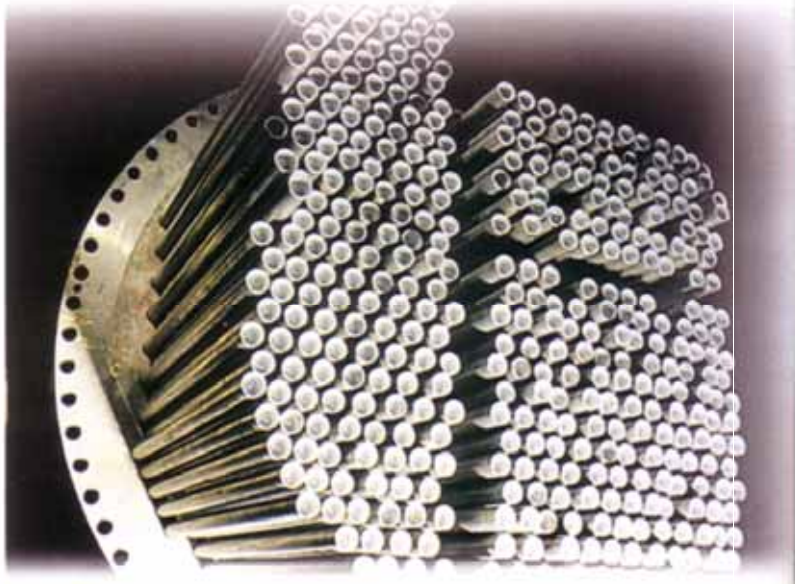
Other grades are available on request

APPLICABLE STANDARDS

ASTM *A 249, A 269, A 270,A 312, A 554, A 778, A 789, A 790, B 674, B704*
DIN *11850, 11866, 17455, 17457 PK1, 17457 PK2, 28181*
NF *A 49-147, 49-244, 49-247, 49-647, 49-249*

APPLICATIONS

- *HEAT EXCHANGER*
- *BOILER*
- *PHARMACEUTICAL*
- *AUTOMOTIVE*
- *PNEUMATIC*
- *INSTRUMENTATION*



www.sitindustrie.com

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SITINDUSTRIE STAINLESS STEEL
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LOCAL AREA RAPRESENTATIVES:

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