

HYDRAULIC AND INSTRUMENTATION APPLICATIONS

STAINLESS STEEL AND HIGH NICKEL ALLOYS SEAMLESS TUBULAR SOLUTIONS



Tubacex: A Global Leader in Seamless Stainless and High Nickel Alloys Pipes and Tubes

Continuous innovation during the last 30 years has allowed the Companies of the Tubacex Group to become world leaders in the supply of seamless tubes made of stainless steel and nickel alloys.

Worldwide presence

Through our commercial offices

Competitiveness

Thanks to our lean manufacturing process

Service

Cooperation with our customers

Flexibility

In materials chemical composition & deliveries

Reliability

Of a fully integrated company



The Tubacex Group has become one of the world's main seamless stainless steel and nickel alloy tubular solutions providers.

Founded in 1963, Tubacex brings the experience of a world leader combined with a strong R&D effort which is needed to fulfill the future needs of the industry.

The Tubacex Group, exporting into more than 100 countries worldwide, has a share of around 15% of the world market of seamless stainless steel tubular solutions, with a total workforce of around 2,400 employees. The headquarters are located in Llodio, 25 Km (15 miles) from the seaport city of Bilbao, in northern Spain.

The Tubacex Group's integrated production process includes a steel making plant, several extrusion and cold finishing mills, trepanning facilities, fitting and special components producers and wide network of service centers which provide a wide range of added value operations to the group's portfolio.

Hydraulic & Instrumentation Tubes from Tubacex Group

Hydraulic & Instrumentation Tubes are important components in hydraulic and instrumentation systems to protect and partner with other components, devices or instruments to secure the safe and trouble-free operations of oil and gas plants, petrochemical processing, power generation and other critical industrial applications.

Consequently, demand on the quality of tubes is very high.

Tubacex Group has high competence in the development and manufacturing of these precision tube products. Our experience journey started in 1962 in Austria and continues with the newly established Innovation Centre in Spain and Production Footprint in Asia.

- Bright Annealed
 - Reduce contamination with smart surface
- Controlled Hardness
 Effective sealing with ferrules
- End Capped
 Maintain high cleanliness
- Fixed Lengths
 Efficient work planning & material control
- **High Roundness**Effective sealing at connections
- **High Cleanliness**Reduce contamination-risks in the system
- 100% Eddy-Current and / or Hydrostatic Tested Secure high & consistent quality
- 100% PMI Tested Eliminate risk & hazards
- Controlled Dimensional Tolerances
 Secure high performance with other components in the system
- Dual Grade & Specification Marked & Certified Conform to a large variety of technical requirements

Instrumentation & Control Lines | Safety Systems
Sampling & Analyzer Lines | Hydraulic Systems
Pneumatic Lines | Process Impulse Lines
Signal Transmission Lines | Subsea Equipment
Fuel & CNG Lines | Compressors



- On-shore Installations
- · Off-shore Installations
- Vessels



- Oil Refining
- · Chemical Processing
- Petrochemical Processing



- Automotive & Rail
- Aerospace
- Marine & Shipbuilding



- Thermal Power Plants
- Nuclear Power Plants
- Renewal Energy Solutions

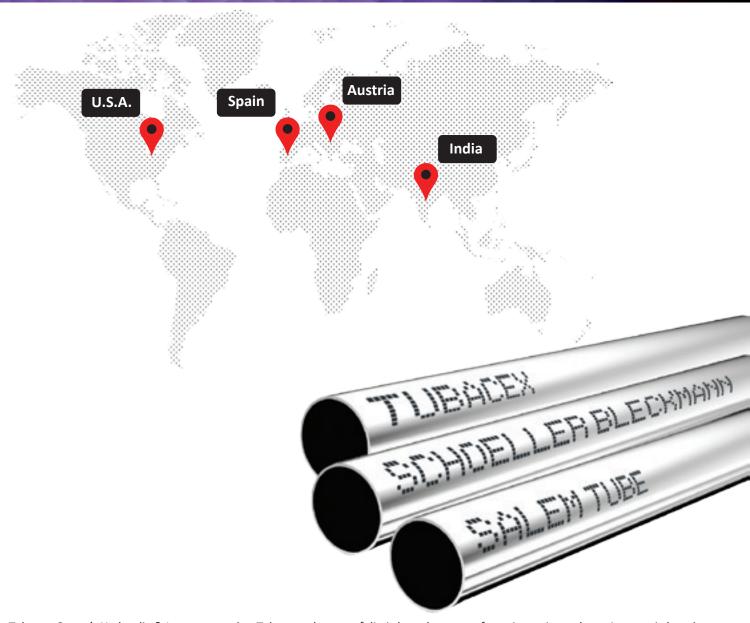


- Desalination Plants
- Water Treatment Plants



- Medical & Pharmaceutical
- Pulp & Paper
- Food Processing

Production Footprint



Tubacex Group's Hydraulic & Instrumentation Tubes product portfolio is based on manufacturing units at these 4 strategic locations.

Ternitz, Austria

High precision tubes are produced in Ternitz by state-of-the-art technology. This highly famous unit, Schoeller-Bleckmann, has its roots date back to 1924.

• Greenville, Pennsylvania, U.S.A.

High precision tubes are produced in Greenville by advanced manufacturing and testing technologies. This highly reliable unit, Salem Tube, has maintained a reputation as a premier supplier for more than 40 years.

• Umbergaon, India

High precision tubes are produced in Umbergaon by proven technologies. This newly modernized unit, Tubacex Prakrash, fully applies the renowed Tubacex Production System (TxPS) which stands for High Productivity and Quality.

Llodio, Spain

High precision tubes are produced in Llodio by proven technology that delivers high quality products consistently. This unit, Tubacex Tubos Inoxidables, is well recognized by the industries for a wide range of tubular products.

High Pressure Product Line





Salem Tube has its position as a specialized supplier of tubes in the market by continuously evolving its High Added Value and innovative tubing portfolio. Growth into more demanding market segments is at the very core of the recent launch of medium and high pressure tubing: a product used to transport fluids and gases under extreme pressures.

The characteristic surrounding these products are very stringent as the materials are constantly exposed to working pressures of up to 60,000 PSI. Additionally, the product is designed to withstand some of the most demanding and harsh environments. As a consequence, tube producers are to focus on a number of critical design criteria. Exact properties must be built into the design to address, not only safety and security, but also the ability to partner with valves and fittings.

This industry dictates five specific Outside Diameter sizes that corresponds to 14 different internal diameters directly related to specific pressure applications. Medium and high pressure tubing is recognized not only for the aforementioned characteristics, but also for specific wall to outside diameter ratios. The resulting product must allow a cone and threading to be cut into the ends so that it can fit flawlessly into the matching valves and fittings.

Nominal OD size	OD tolerance	ID tolerance	Service Rating
1/4" (6.35 mm) HP		0.079" / 0.083" (2.00 mm/2.10 mm)	60,000 psi
1/4" (6.35 mm) Medium		0.104" / 0.109" (2.64 mm/2.77 mm)	20,000 psi
3/8" (9.52 mm) HP		0.121" / 0.125"(3.07 mm/3.17 mm)	60,000 psi
3/8" (9.52 mm) Medium		0.198" / 0.203"(5.03 mm/5.16 mm)	20,000 psi
9/16" (14.3mm) HP 9/16" (14.3mm) HP 9/16" (14.3mm) Medium 9/16" (14.3mm) Medium	0.552" / 0.563" (14.0 mm/14.3 mm) 0.552" / 0.563" (14.0 mm/14.3 mm)	0.182" / 0.187" (4.62 mm/4.75 mm) 0.245" / 0.250" (6.22 mm/6.35 mm) 0.307" / 0.312" (7.79 mm/7.92 mm) 0.354" / 0.359" (8.99 mm/9.12 mm)	60,000 psi 40,000 psi 20,000 psi 15,000 psi
3/4" (19.1 mm) HP	0.740" / 0.750" (18.9 mm/19.1 mm)	0.245" / 0.250" (6.22 mm/6.35 mm)	66,000 psi
3/4" (19.1 mm) Medium		0.432" / 0.437" (10.9 mm/11.1 mm)	20,000 psi
3/4" (19.1 mm) Medium		0.510" / 0.515" (12.9 mm/13.1 mm)	15,000 psi
1" (25.4mm) HP	0.990" / 1.000"(25.1 mm/25.4 mm)	0.432" / 0.437"(10.9 mm/11.1 mm)	43,000 psi
1" (25.4mm) Medium		0.557" / 0.562"(14.1 mm/14.3 mm)	20,000 psi
1" (25.4mm) Medium		0.682" / 0.687"(17.3 mm/17.5 mm)	15,000 psi

Pressure tubing is created from seamless starting hollows and will be processed to the final dimensions by cold drawn production and hydrogen bright annealing methods. By design the tensile strengthh of the pressure tube is significantly higher than that of same size annealed product, tubes must complete the cycle in a semi harden condition to achieve the desired outcome.

Tubes are produced in accordance with either customer specific specifications, or to an internal specification that meets the industry standards for 300 series austenitc stainless steel. Final applications for medium and high pressure tubes are where higher strength and corrosion resistance are important.

Chemical composition of the material must conform to current ASTM A213-A269 specifications for the following grades: Type 304/304L and 316/316L (Type 317/317L to ASTM A213 only)

Tubacex Service Solutions

TSS TUBÂCEX





Tubacex Service Solutions (TSS), the service arm of Tubacex Group, maintains a stock program that includes a wide range of Hydraulic & Instrumentation Tubes.

Spain

Tubes with OD from 6 to 42 mm in various steel grades are stocked in this semi-automatic distribution centre centrally located in Spain for efficient distribution to Europe, Asia and other parts of the world.

France

Tubes with OD from 6 to 42 mm in various steel grades are stocked in this strategic location to serve a selection of important European markets.

• Austria

Tubes with OD from 6 to 42 mm in various steel grades are stocked in this strategic location to serve a selection of important European markets.

Houston, U.S.A.

Tubes in 304/L and 316/L in imperial sizes with OD from 1/8" to 1" are stocked in this central location to provide high service level to the oil & gas, petrochemical and general industries.

Brazil

Tubes in selected steel grades and size range stocked for the regional market.

• India

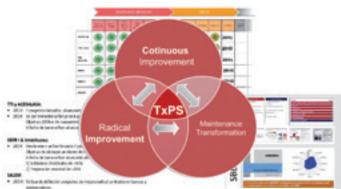
Tubes in selected steel grades and size range are stocked in this central Asian location. Thanks to its close proximity to the well-connected Mumbai port, we are able to offer high service level to the Asia Pacific region, Middle East and South Africa.

Dubai

Tubes in selected steel grades and size range stocked for the regional market.

Service is the other main driver of the Tubacex Group's vision. This means excellent service in the existing portfolio, along with the development of new value added services that con complement and enrich the Tubacex Group's product portfolio.









Excellent service in the existing portfolio- Tubacex Production System

TxPS, the acronym of Tubacex Production System, is the standard Management System for the entire Tubacex Group focused on:

- Implementing an continuous improvement system in all areas
- Involving all personnel from all areas
- Ensuring that the improvements are sustained over time

TxPS is based on action on three levels: yearly management plan, daily management and specific action for radical improvement.

New Services to develop and complete our offer - Tubacex Services

To further increase our service capabilities we are developing final added value operations for small niches:

- Final treatments
- Special packages
- Others

The Group has developed a new unit called Tubacex Services, with resources devoted exclusively to the development of those added value operations to the Group's portfolio. This unit is already developing specialized process as Shot peening in a new mill in Santander (north of Spain).

Global Service Center Network - Tubacex Service Solutions

In addition, the group network of service centers in Europe, America and Asia offers availability and proximity service to our customers through companies such as Cotubes, Tubos Mecánicos, MIS and Tubacex America.

Quality and Approvals

Tubacex Group holds several approvals as a manufacturer of seamless tube and pipe, and can deliver tubular products in accordance with most international standards.

Management system certificates

ISO 9001

API Q1

Approvals and other certifications*

- Approved manufacturer according to TÜV, Lloyd's register, DNV, Germanischer Lloyd's, BV, Norsok etc.
- PED 97/23/EC
- AD2000, werkblatt W0
- JIS Mark scheme
- ASME Quality system as material organization for ferrous and non ferrous material
- * Not valid for all production units. Please contact your local sales office for detailed information.

Safety and environmental responsibility

Tubacex Group is highly engaged with the environment and it is ISO 14001 certified. Additionally Occupational Health and Safety is also a key element of our culture. The company is OHSAS 18001 certified.





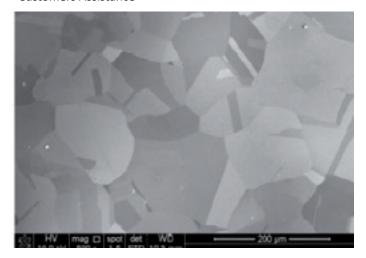
The Tubacex Group's Vision remarks the aspiration of becoming a global supplier, benchmark in the development of innovative tubular solutions in advanced materials. Creativity and Innovation, along with customer satisfaction, are the values behind this vision.

The Tubacex Group has made a significant effort in innovation in recent years, which is constantly being reflected in results and in the sales figure.

The Group has a corporate innovation unit called Tubacex Innovación, with human and technical resources devoted exclusively to Innovation activities, consisting of product R&D projects and development projects for the different industrial plans of the Group's companies, in which technological development is required.

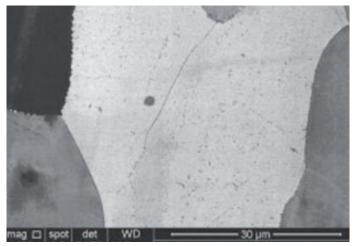
Tubacex Innovation

- •Steel Portfolio Management
- R&D Projects Management
- •New Products Development
- •Known grades. Performance Improvement. New requirements
- Participation in Industrialization Projects
- Participation in Continuous Improvement Projects
- •Investigation and analysis of Metallurgical claims
- Heat treatments design
- Group Laboratories Standarization
- •Technical support to Sales and Engineering
- Customers Assistance









Important approvals with potential customers have also been obtained, which will enable sales of high value-added products to increase in the future. Since 2008, and more notably in the past two years, we have entered all of the strategic sectors that were defined as targets, namely: OCTG, umbilical offshore tubes, ultra supercritical boilers and recently, fertilizers. This has been possible thanks not only to R&D activities, but also to significant investment in recent years, in excess of €150M, and the improved processes in all of the Group's plants.

A milestone in 2014 was the opening of a new laboratory specifically devoted to R&D, which is located in the Zamudio Scientific and Technology Park (Bizkaia). This new laboratory will accelerate the development of the R&D unit, in skills such as metallurgical and metallographic knowledge, which is key for the development of new materials and processes. The creation of the new laboratory will act as a base for the future growth of the R&D capacities of the Tubacex Group, enabling closer collaboration with customers in the development of new solutions for the energy sector.

Grades and Standards

Steel grades

Tubasay					Elements (Typical Values) in %				PRE	Mechanical properties at room temperature min values acc. to int. standards				
Tubacex Grade	Grade	UNS	Steel Name	Steel No.									Tensile R _{m min} [MPa]	
TX C01	TP304 TP304L	\$30400 \$30403	X5 Cr Ni 18 10 X2 Cr Ni 19 11 X2 Cr Ni 18 9	1.4301 1.4306 1.4307	max. 0.03	18.5	10.2	_	-	_	90	205	515	40
TX C20	TP316 TP316L	S31600 S31603	X5 Cr Ni Mo 17 12 2 X2 Cr Ni Mo 17 13 2	1.4401 1.4404	_	17.0	12.0	2.2	_	24	90	205	515	40
TX C21	TP316 TP316L	S31600 S31603	X5 Cr Ni Mo 17 12 2 X2 Cr Ni Mo 17 12 2	_	max. 0.03	16.5	12.0	2.7	_	25	80	207	517	40
TX C30	TP316Ti	S31635	X6 Cr Ni Mo Ti 17 12 2	1.4571	0.06	17.0	12.0	2.2	Ti ≥ 5x(C+N)	23	90	205	515	35
TX T09	TP321 TP321H	S32100 S32109	X6 Cr Ni Ti 18 10 X12 Cr Ni Ti 18 9	1.4541 1.4878	0.06	17.5	11.0	_	Ti ≥ 5x(C+N)	_	90	210	515	40
TX D05	2205	S31803 S32205	X2 Cr Ni Mo N 22 5 3	1.4462	max. 0.03	22.5	5.5	3.0	N 0.17	35	28	450	680	40
TX D07	2507	S32750	X2 Cr Ni Mo N 25 7 4	1.4410	max. 0.03	25.5	7.0	3.5	N 0.28	41	32	550	800	20
TX K03	Alloy 825	N08825	Ni Cr 21 Mo	2.4858	max. 0.025	21.5	40	2.7	Cu 1.7; Ti 0.8	28	240	241	586	30
TX K06	TP904L	N08904	X1 Ni Cr Mo Cu N 25 20	5 1.4539	max. 0.02	20.0	25.0	4.5	Cu 1.4; N 0.06	36	190	230	530	35
TX K14	6Moly	S31254	X1 Cr Ni Mo Cu N 20 18	7 1.4547	max. 0.02	20.0	18.0	6.25	Cu 0.75; N 0.2	42	210	300	650	35
TX K16	Alloy 625	N06625	Ni Cr 22 Mo 9 Nb	2.4856	max. 0.03	21.5	min. 58	9.0	Nb 3.65	46	200	276	690	30
_	Alloy 400	N04400	Ni Cu 30 Fe	2.4360	max. 0.3	_	min. 63	_	Cu 31	_	_	195	585	32

Tolerances

Metric sizes

316/316L

OD<6mm, tolerances according to ASTM A632

Size OD,mm	Tolerances OD,mm	Wall thickness %
<4.76-2.38	+0.08/-0	+/-10

304/304L, 316/316L, 316Ti

OD 6-42 mm EN 10305-1

Size OD,mm	Tolerances OD,mm	Wall thickness %
6-30	+/-0.08	+/-10
32-40	+/-0.15	+/-10
42	+/-0.20	+/-10

UNS S31254

Size OD,mm	Tolerances OD,mm	Wall thickness %
6-25	+/-0.13	+/-10

Imperial sizes

316/316L

OD<0.2362" (< 6 mm) according to ASTM A632

Size OD, inch	Tolerances OD, inch	Wall thickness %
<0.2362"-0.1874" (<6-4.76 mm)	+0.00394"/-0 (+0.10/-0 mm)	+/-10
<0.1874"-0.0937 (<4.76-2.38 mm) +0.00315"/-0 (+0.08/-0 mm)	+/-10
<0.0937" (<2.38 mm)	+0.00197"/-0 (+0.05/-0 mm)	+/-10

316/316L

OD 0.25" to 1" (6.35-25.4 mm) according to EN 10305-1

Size OD, inch	Tolerances OD, inch	Wall thickness %
0.25" to 1" (6.35-25.4 mm)	+/-0.00315" (+/-0.08 mm)	+/-10

UNS N08904

Size OD, inch	Tolerances OD, inch	Wall thickness %
≤1" (≤25.4 mm)	+/-0.00394" (+/-0.10 mm)	+/-10

UNS S32750 and S31254

Size OD, inch	Tolerances OD, inch	Wall thickness %
≤0.75" (≤19.05 mm)	+/-0.00512" (+/-0.13 mm)	+/-10

Standards

304/304L (1.4306) and 316/316L (1.4404) ASTM A213 A269

ASME SA213
PED 97/23/EC EN 10216-5 TC1
OD <6 mm acc to A632
NACE MR0175/ISO 15156
AD2000-Merkblatt W2/W10

UNS S31254 (1.4547)

ASTM A213 A269 ASME SA213 PED 97/23/EC EN 10216-5 TC1 NACE MR0175/ISO 15156 UNS S32750 (1.4410)

ASTM A789 PED 97/23/EC EN 10216-5 TC1 NACE MR0175/ISO 15156

316Ti (1.4571)

PED 97/23/EC EN 10216-5 TC1 AD2000-Merkblatt W2/W10 UNS N08904 (1.4539)

ASTM A213 A269 ASME SA213 PED 97/23/EC EN 10216-5 TC1 NACE MR0175/ISO 15156 AD2000-Merkblatt W2/W10

Dimension and Pressure

Maximum Allowable Working Pressure (MAWP) According to ASME B31.3 (2014)										
Outside Diameter	Wall Thickness (mm)	Imperial Sizes	Weight (kg/m)	304/304L TX C01 1.4306 (bar)	316/316L 2% Mo. TX C20 1.4404 (har)	316/316L 2.5% Mo. TX C21 (bar)	316Ti TX C30 1.4571 (bar)	321/321H TX T09 1.4541 (bar)	904L N08904 TX K06 1.4539	6Moly S31254 TX K14 1.4547
6	1.0	OD WI Gauge	0.125	470	470	470	470	470	486	705
6	1.5		0.123	738	738	738	738	738	764	1107
6.35	0.71	1/4" 0.028" 22 BWG	0.100	301	301	301	301	301	312	453
6.35	0.89	1/4" 0.035" 20 BWG	0.122	386	386	386	386	386	400	580
6.35	1.24	1/4" 0.049" 18 BWG 1/4" 0.065" 16 BWG	0.159	562	562	562	<u>562</u> 770	562	582 797	843
6.35 7.94	1.65 0.89	1/4" 0.065" 16 BWG 5/16" 0.035" 20 BWG	0.194 0.157	770 303	770 303	770 303	303	770 303	313	1155 454
7.94	1.24	5/16" 0.049" 18 BWG	0.208	437	437	437	437	437	452	655
7.94	1.65	5/16" 0.065" 16 BWG	0.260	602	602	602	602	602	623	903
	1.0		0.175	341	341	341	341	341	353	511
8	2.0		0.244	537 738	537 738	537 738	537 738	537 	556 764	806 1107
9.53	0.89	3/8" 0.035" 20 BWG	0.193	248	248	248	248	248	257	373
9.53	1.24	3/8" 0.049" 18 BWG	0.257	356	356	356	356	356	369	534
9.53	1.65	3/8" 0.065" 16 BWG	0.326	491	491	491	491	491	508	736
9.53	2.11	3/8" 0.083" 14 BWG 3/8" 0.095" 14 BWG	0.391	653 767	653 767	653 767	653 767	653 767	676 794	980 1151
10	1.0	3/8 U.U93 14 BWG	0.430	267	267	267	267	267	277	401
10	1.5		0.319	417	417	417	417	417	432	626
10	2.0		0.400	580	580	580	580	580	598	870
	1.0		0.275	220	220	220	220		228	330
12	2.0		0.394	341 470	341 470	<u>341</u> 470	341 470	<u>341</u> 470	<u>353</u> 486	511 705
12.7	0.89	1/2" 0.035" 20 BWG	0.263	183	183	183	183	183	190	275
12.7	1.24	1/2" 0.049" 18 BWG	0.356	261	261	261	261	261	270	391
12.7	1.65	1/2" 0.065" 16 BWG	0.456	356	356	356	356	356	368	533
12.7 14	2.11 1.0	1/2" 0.083" 14 BWG	0.559 0.325	468 187	468 187	468 187	468 187	468 187	485 193	702 280
14	1.5		0.323	288	288	288	288	288	298	432
14	2.0		0.600	395	395	395	395	395	409	593
14	2.5		0.720	508	508	508	508	508	526	763
	1.0		0.350	174	174	174	174	174	180	261
15 15	2.0		0.506 0.650	267 366	267 366	<u>267</u> 366	267 366	<u>267</u> 366	<u>277</u> 379	401 549
15.88	1.24	5/8" 0.049" 18 BWG	0.454	205	205	205	205	205	212	308
15.88	1.65	5/8" 0.065" 16 BWG	0.588	279	279	279	279	279	288	418
16	1.0		0.375	162	162	162	162	162	168	244
<u>16</u> 16	2.0		0.544	249 341	249 341	<u>249</u> 341	341	<u>249</u> 341	<u>258</u> 353	374 511
16	2.5		0.700	437	437	437	437	437	452	655
18	1.0		0.425	144	144	144	144	144	149	215
18	1.5		0.619	220	220	220	220	220	228	330
18	2.0		0.800	300	300	300	300	300	310	449
18 19.05	2.5 0.89	3/4" 0.035" 20 BWG	0.966 0.405	383 120	383 120	383 120	383 120	383 120	396 124	574 180
19.05	1.24	3/4" 0.049" 18 BWG	0.553	169	169	169	169	169	175	254
19.05	1.65	3/4" 0.065" 16 BWG	0.718	229	229	229	229	229	237	344
19.05	2.11	3/4" 0.083" 14 BWG	0.895	299	299	299	299	299	309	448
19.05 19.05	2.41	3/4" 0.095" 13 BWG 3/4" 0.109" 12 BWG	1.000 1.130	345 403	345 403	<u>345</u> 403	<u>345</u> 403	<u>345</u> 403	<u>357</u> 417	518 604
20	1.5	5/ T 0.105 12 BWG	0.694	197	197	197	197	197	204	295
20	1.6		0.737	211	211	211	211	211	218	316
20	2.0		0.900	267	267	267	267	267	277	401
20	2.5		1.094	341	341	341	341	341	353	511
20	3.0		1.271 0.769	417 178	417	417	417	417 178	432	626 267
22	2.0		1.000	241	178 	<u>178</u> 241	178 241	241	<u>184</u> 250	362
24	2.0		1.102	220	220	220	220	220	228	330
24	3.0		1.578	341	341	341	341	341	353	511

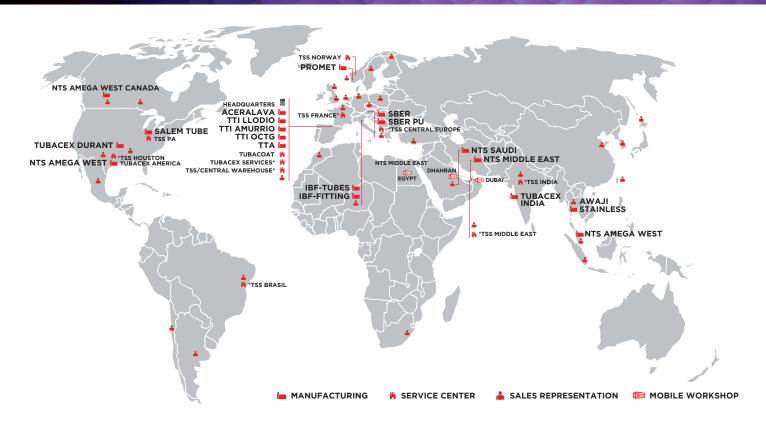
Dimension and Pressure

Maximum Allowable Working Pressure (MAWP) According to ASME B31.3 (2014)										
Outside Diameter	Wall Thickness	Imperial Sizes	Weight	304/304L TX C01 1.4306	316/316L 2% Mo. TX C20 1.4404	316/316L 2.5% Mo. TX C21	316Ti TX C30 1.4571	321/321H TX T09 1.4541	904L N08904 TX K06 1.4539	6Moly \$31254 TX K14 1.4547
(mm)	(mm)	OD WT Gauge	(Kg/m)	(bar)	(bar)	(bar)	(par)	(bar)	(bar)	(bar)
25	1.5		_0.877_	156	156	156	156	156	161	233
25			1.150	211	211	211	211	211	218	316
25	2.5		_1.407_	267	267	267	267	267	277	401
25	3.0		1.650	326	326	326	326	326	337	489
25	4.0		2.103	449	449	449	449	449	464	673
25.4	1.24	1" 0.049" 18 BWG	0.750	126	126	126	126	126	130	188
25.4	1.65	1" 0.065" 16 BWG	0.981	169	169	169	169	169	175	254
25.4	2.11	1" 0.083" 14 BWG	1.230	219	219	219	219	219	227	329
25.4	2.41	1" 0.095" 13 BWG	1.390	253	253	253	253	253	262	379
25.4	2.77	1" 0.109" 12 BWG	1.570	294	294	294	294	294	304	440
28	1.5		0.994	138	138	138	138	138	143	207
28	2.0		1.300	187	187	187	187	187	193	280
28	3.0		1.594	288	288	288	288	288	298	432
28	5.0		2.880	508	508	508	508	508	526	763
30	2.0		1.402	174	174	174	174	174	180	261
30	2.5		1.719	220	220	220	220	220	228	330
30	3.0		2.025	267	267	267	267	267	277	401
30	4.0		2.601	366	366	366	366	366	379	549
30	5.0		3.130	470	470	470	470	470	486	705
32	2.0		1.502	162	162	162	162	162	168	244
35	2.0		1.650	148	148	148	148	148	153	222
35	2.5		2.022	187	187	187	187	187	193	280
35	3.0		2.401	227	227	227	227	227	235	340
35	4.0		3.105	309	309	309	309	309	320	463
35	5.0		3.756	395	395	395	395	395	409	593
38	2.0		1.800	136	136	136	136	136	140	204
38	3.0		2.626	208	208	208	208	208	215	312
38	4.0		3.401	283	283	283	283	283	292	424
38	5.0		4.126		361	361	361	361	373	541
				361	442	442	442	442	457	663
38	6.0		4.808	442						
40	2.0		1.903	129	129	129	129	129	133	193
40	3.0		2.779	197	197	197	197	197	204	295
40	5.0		4.382	341	341	341	341	341	353	511
42	2.0		2.000	122	122	122	122	122	127	184
42	3.0		2.926	187	187	187	187	187	193	280

Shaded Items Available In Stock
Design Pressure For Seamless Pipe / Tube acc. to ASME B31.3 (2014) 304.1.2. Si

Design Pressure For Seamless Pipe / Tube acc. to ASME B31.3 (2014) 304.1.2. Straight pipe under internal pressure. Valid for temperatures up to 37.78° C (100° F).





Currently the Tubacex Group is exporting into more than 100 countries worldwide from its manufacturing sites and warehouses. The company has 15 commercial offices and a wide network of agents in several countries that lead to a global presence.

MANUFACTURING COMPANIES

Acería de Álava, S.A. STEEL MELTING SHOP

Amurrio. SPAIN

Tubacex Tubos Inoxidables, S.A. HOT EXTRUSION PLANT

Llodio. SPAIN

COLD FINISHING PLANT OCTG FINISHING PLANT

Amurrio. SPAIN

Schoeller Bleckmann Edelstahlrohr, GmbH **COLD FINISHING PLANT** HOT EXTRUSION PLANT

SPECIAL TUBE PLANT

Ternitz. AUSTRIA

Salem Tube, Inc. **COLD FINISHING PLANT** Greenville. PA. USA

Tubacex Durant COLD FINISHING PLANT

Durant.OK.USA

IBF, S.p.a. **TUBES DIVISION** Vituone - Milano. ITALY **FITINGS DIVISION** San Nicolò - Piacenza. ITALY **Tubacex Prakash**

COLD FINISHING PLANT Umbergaon. INDIA

Tubacex Awaji

STAINLESS FITTINGS

Amphur Muang-Samutprakarn. **THAILAND**

Tubacex Taylor Accesorios, S.A. **BUTT WELDING FITTINGS**

Artzeniega. SPAIN

Tubacex Services, S.L. TUBE FINISHING SERVICES

Santander. SPAIN

Tubacoat

CERAMIC TUBE COATING

Santander. SPAIN

NTS Group

MACHINED PARTS **MANUFACTURING & REPAIR**

UAF USA CANADA **SINGAPORE NORWAY SAUDI ARABIA**

SERVICE & DISTRIBUTION COMPANIES

Tubacex Service Solutions, S.A.

STAINLESS STEEL LONG PRODUCTS DISTRIBUTION

Amurrio. SPAIN

Tubacex America, Inc. /

TSS Houston

STAINLESS STEEL LONG PRODUCTS

DISTRIBUTION

Houston. UNITED STATES

Metaux Inox Services, S.A.S. / **TSS France**

STAINLESS STEEL LONG PRODUCTS DISTRIBUTION

Satolas & Bonce. FRANCE

TSS Central Europe

STAINLESS STEEL LONG PRODUCTS DISTRIBUTION

Ternitz. AUSTRIA

TSS Brasil

STAINLESS STEEL LONG PRODUCTS

DISTRIBUTION

Sao Paolo. BRAZIL

TSS India

STAINLESS STEEL LONG PRODUCTS

DISTRIBUTION

Gandhidham. INDIA

TSS Middle East

STAINLESS STEEL LONG PRODUCTS

DISTRIBUTION

Dubai. UAE

Tubacex Upstream Technologies

OCTG Premium solutions

Leioa. SPAIN



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