

# Steel Pipes for Pressure Lines and Flow Applications.



Seamless PIPES acc. to ASTM / ASME/ API

# BIANCO GROUP



Provedora de Tubos Occidental, s.l., provides the complete range of dimensions and Steel grades for the needs of your Projects of piping, we maintain a stock of about 12.000 Tns of Steel pipes throughout our three main warehouses in Spain, located in Tarragona, Madrid and Vitoria.

We belong to the BIANCO GROUP, which means for us to have access directly over 350.000 Tns of piping materials.

Thanks to our policy of coordinated purchase and relationships with the pipe mills, we can ensure the perfect sourcing strategy for all your projects, giving you the advantage you just need in terms of price or delivery time.

Since the establishment of the first warehouse of the Bianco Group in 1958, we kept growing in business figures, in number of companies and most importantly, growing in confidence with our customers.

More than 80.000 satisfied customers over the world can witness that for our Company the customer's needs are always our priority.

Give us the chance to take part in your next Project quotation, we will be happy to prove by action that our main interest is to find the solutions you need for your Project in pipes and fittings.

Welcome to our PROTUBSA , we remain at your service anytime!



PROTUBSA in SPAIN (EUROPE)



BIANCO GROUP HEAD QUARTER in ITALY

# Applications and services.



## EXPERIENCE IN PROJECTS:

THERMOSOLAR PLANTS – POWER PLANTS – NATURAL GAS FACILITIES- REFINERY- OIL FIELDS  
ENGINEERING COMPANIES- EPC SUPPLIES –OFFSHORE STATIONS - LNG PROCESSING  
MIDSTREAM & DOWSTREAM – CHEMICAL –PETROCHEMICAL – WATER WORKS-DESALINATION.



# Steel grades for supply:

SEAMLESS CARBON STEEL PIPES (SMLS CS PIPES)						BW CS FITTINGS				UNIFIED NUMBERING SYSTEM
API / ISO		ASTM / ASME		EN			ASTM / ASME			
STANDARD	GRADE	STANDARD	GRADE	STANDARD	STEEL No.	STEEL NAME	GRADE	STANDARD	'GRADE	
51/3183	B/L245	A/SA106	B	10216-2	1.0425	P235GH / P265GH	10253-2	A/SA234	WPB	K03006
				10208-2	1.0457	L245NB	10253-2			
51/3183	X42/L290	A/SA106	C	10208-2	1.0429	L290NB	10253-2	A/SA234	WPC	K03501
51/3183	X52/L360	...	...	10208-2	1.0582	L360NB	10253-2	...	...	...
51/3183	X60/L415	...	...	10208-2	1.8972	L415NB	10253-2	...	...	...
51/3183	X65/L450	...	...	10208-2	1.8952	L450QB	10253-2	...	...	...

SEAMLESS LOW TEMPERATURE CARBON STEEL PIPES (SMLS LTCS PIPES)						BW LTCS FITTINGS				UNIFIED NUMBERING SYSTEM
API / ISO		ASTM / ASME		EN			ASTM / ASME			
STANDARD	GRADE	STANDARD	GRADE	STANDARD	STEEL No.	STEEL NAME	GRADE	STANDARD	'GRADE	
5L/3183	X52/L360	A/SA333	6	10216-4	1.0453	P265NL	10253-2	A/SA 420	WPL6	K03006

SEAMLESS ALLOY STEEL PIPES [SMLS AS PIPES]						BW AS FITTINGS				UNIFIED NUMBERING SYSTEM
ASTM		ASME		EN			ASTM / ASME			
STANDARD	GRADE	STANDARD	GRADE	STANDARD	STEEL No.	STEEL NAME	GRADE	STANDARD	'GRADE	
...	...	...	...	10216-2	1.5415	16MO3	10253-2	...	...	...
A335	P5	SA335	P5	10216-2	1.7362	X11CrMo5+NT	10253-2	A/SA234	WPS	K41545
A335	P91	SA335	P91	10216-2	1.7386	X11CrMo9-1+NT	10253-2	A/SA234	WP9	550400
A335	P11	SA335	P11	10216-2	1.7338	10CrMo5-5	10253-2	A/SA234	WP11	K11597
A335	P22	SA335	P22	10216-2	1.7380	10vRMO9-10	10253-2	A/SA234	WP22	K21590
A335	P91	SA335	P91	10216-2	1.4903	X10CrMovnB9-1	10253-2	A/SA234	WP91	K91560

SEAMLESS STAINLESS STEEL PIPES (SMLS SS PIPES)						BW SS FITTINGS				UNIFIED NUMBERING SYSTEM
ASTM		ASME		EN			ASTM / ASME			
STANDARD	GRADE	STANDARD	GRADE	STANDARD	STEEL No.	STEEL NAME	GRADE	STANDARD	'GRADE	
A312	TP304	SA312	TP304	10216-5	1.4301	X3CrNi18-10	10253-4	A/SA403	WP304	S30400
A312	TP304L	SA312	TP304L	10216-5	1.4306	X2CrNi19-11	10253-4	A/SA403	WP304L	S30403
A312	TP304LN	SA312	TP304LN	10216-5	1.4311	X2CrNi18-10	10253-4	A/SA403	WP304LN	S30453
A312	TP304H	SA312	TP304H	10216-5	1.4948	X6CrNi18-10	10253-4	A/SA403	WP304H	S30409
A312	TP301L	SA312	TP301L	10216-5	1.4335	X1CrNi25-21	10253-4	A/SA403	WP301L	S30100
A312	TP316	SA312	TP316	10216-5	1.4401	X3CrNiMo17-12-2	10253-4	A/SA403	WP316	S31600
A312	TP316 (Mo+)	SA312	TP316 (Mo+)	10216-5	1.4436	X3CrNiMo17-13-3	10253-4	A/SA403	WP316 (Mo+)	...
A312	TP316 Cb/Nb	SA312	TP316 Cb/Nb	10216-5	1.4580	X6cCrNiMoNb17-12-2	10253-4	A/SA403	WP316Cb/Nb	...
A312	TP 316L	SA312	TP 316L	10216-5	1.4404	X2CrNiMo17-12-2	10253-4	A/SA403	WP316L	S31603
A312	TP316L (Mo+)	SA312	TP316L (Mo+)	10216-5	1.4435	X2CrNiMo18-14-3	10253-4	A/SA403	WP316L (Mo+)	...
A312	TP316LN	SA312	TP316LN	10216-5	1.4406	X2CrNiMo17-12-2 *	10253-4	A/SA403	WP316LN	S31653
A312	TP316LN (Mo+)	SA312	TP316LN (Mo+)	10216-5	1.4429	X2CrNiMo17-13-3	10253-4	A/SA403	WP316LN (Mo+)	...
A312	TP316H	SA312	TP316H	10216-5	1.4919	X8cRnImO17-12 **	10253-4	A/SA403	WP316H	S31609
A312	TP316Ti	SA312	TP316Ti	10216-5	1.4571	X6CrNiMoTi17-12-2	10253-4	A/SA403	WP316Ti	S31635
A312	TP321	SA312	TP321	10216-5	1.4541	X6CrNiTi18-10	10253-4	A/SA403	WP321	S32100
A312	TP321H	SA312	TP321H	10216-5	1.4948	X6CrNi18-10	10253-4	A/SA403	WP321H	S32109
A312	TP347	SA312	TP347	10216-5	1.4550	X6CrNiNb18-10	10253-4	A/SA403	WP347	S34700
A312	TP347H	SA312	TP347H	10216-5	1.4550	X8CrNiNb18-11 **	10253-4	A/SA403	WP347H	S34709
A312***	TP904L	SA312***	TP904L	10216-5	1.4539	X1NiCrMoCu25-20-5	10253-4	A/SA403	WP904L	N08904

\* = according to DIN 17006

\* = according to UNI

\* = ASTM/AMSE/A/SA312 refers to UNS N08904 only

DUPLEXES LIFER DUPLEX STEEL PIFES						BW DUPLEX/SUPER DUPLEX FITTINGS				UNIFIED NUMBERING SYSTEM
ASTM		ASME		EN			ASTM / ASME			
STANDARD	GRADE	STANDARD	GRADE	STANDARD	STEEL No.	STEEL NAME	GRADE	STANDARD	'GRADE	
A790	S31803	SA790	S31803	10216-5	1.4462	X2CrNiMoN22-5-3	10253-4	A/SA815	S31803	S31803
A790	S32205	SA790	S32205	10088-3	1.4462	X2CrNiMoN22-5-3	10253-4	A/SA815	S32205	S32205
A790	S32550	SA790	S32550	10216-5	1.4507	X2 CrNiMoCuN25-6-3	10253-4	A/SA815	S32250	S32250
A790	S32750	SA790	S32750	10216-5	1.4410	X2CrNiMoN25-7-4	10253-4	A/SA815	S32750	S32750
A790	S32760	SA790	S32760	10216-5	1.4501	X2CrNiMoCuwn25-7-4	10253-4	A/SA815	S32760	S32760

# Pipe dimensions for supply ANSI B36.10,B36.19:

## Carbon Steels & Alloy Steels

## Stainless Steels

Nominal Pipe Size (in dn)	Nominal Pipe Size (in inches)	Nominal Pipe Size (in mm)	Carbon Steels & Alloy Steels												
			Sch 10	Sch 20	Sch 30	STD	Sch 40	Sch 60	XS	Sch 80	Sch 100	Sch 120	Sch 140	Sch 160	XXS
8	1/4	13.7				2.24 0.63	2.24 0.63		3.02 0.80	3.02 0.80					
10	3/8	17.1				2.31 0.84	2.31 0.84		3.20 1.10	3.20 1.10					
15	1/2	21.3				2.77 1.27	2.77 1.27		3.73 1.62	3.73 1.62			4.78 1.95	7.47 2.55	
20	3/4	26.7				2.87 1.69	2.87 1.69		3.91 2.20	3.91 2.20			5.56 2.90	7.82 3.64	
25	1	33.4				3.38 2.50	3.38 2.50		4.55 3.24	4.55 3.24			6.35 4.24	9.09 5.45	
32	1 1/4	42.2				3.56 3.39	3.56 3.39		4.85 4.47	4.85 4.47			6.35 5.61	9.70 7.77	
40	1 1/2	48.3				3.68 4.05	3.68 4.05		5.08 5.41	5.08 5.41			7.25 7.34	9.56 9.13	
50	2	60.3				3.91 5.44	3.91 5.44		5.54 7.08	5.54 7.48			8.74 11.11	11.07 13.44	
65	2 1/2	73.0				5.16 8.63	5.16 8.63		7.01 11.41	7.01 11.41			9.53 14.92	14.02 20.39	
80	3	88.9				5.49 11.29	5.49 11.29		7.62 15.27	7.62 15.27			11.13 21.35	15.24 27.68	
90	3 1/2	101.6				5.74 13.57	5.74 13.57		8.08 18.63	8.08 18.63					
100	4	114.3				6.02 16.07	6.02 16.07		8.56 22.32	8.56 22.32		11.13 28.32		13.49 33.54	17.12 41.03
125	5	141.3				6.55 21.77	6.55 21.77		9.53 30.97	9.53 30.97		12.70 40.28		15.88 49.11	19.05 57.43
150	6	168.3				7.11 28.26	7.11 28.26		10.97 42.56	10.97 42.56		14.27 54.20		18.26 67.56	21.95 79.22
200	8	219.1	6.35 33.31	7.04 36.81	8.18 42.55	8.18 42.55	10.31 53.08	12.70 64.64	12.70 64.64	15.09 75.92	18.26 90.44	21.44 100.92	20.62 111.27	23.01 107.92	22.23
250	10	273.0	6.35 41.75	7.80 51.01	9.27 60.29	9.27 60.29	12.70 81.52	12.70 81.52	15.09 95.97	18.26 114.71	21.44 133.00	25.40 155.09	28.58 172.26	25.40 155.09	
300	12	323.9	6.35 49.73	8.38 65.20	9.53 73.88	10.31 79.73	14.27 108.96	12.70 97.46	17.48 132.08	21.44 159.91	25.40 186.97	28.58 208.14	33.32 238.76	25.40 186.97	
350	14	355.6	7.92 67.90	9.53 81.33	9.53 81.33	11.13 94.55	15.09 126.71	12.70 107.39	19.05 158.10	23.83 194.96	27.79 224.65	31.75 253.56	35.71 281.70		
400	16	406.4	7.92 77.83	9.53 93.27	9.53 93.27	12.70 123.30	16.66 160.12	12.70 123.30	21.44 203.53	26.19 245.56	30.96 286.64	36.53 333.19	40.49 365.36		
450	18	457.2	7.92 87.75	11.13 122.43	9.53 105.21	14.27 155.87	19.05 205.83	12.70 139.21	23.88 255.17	29.36 309.76	34.93 363.73	39.67 408.45	45.24 459.59		
500	20	508.0	9.53 117.15	12.70 155.12	9.53 117.15	15.09 183.42	20.62 247.83	12.70 155.12	26.19 311.17	32.54 381.53	38.10 441.49	44.45 508.11	50.01 564.81		
550	22	558.8	9.53 129.08	12.70 171.03	9.53 129.08	22.23 -	28.58 294.14	12.70 171.03	28.58 373.69	34.93 451.25	41.28 526.82	47.63 600.40	53.98 671.99		
600	24	609.6	9.53 141.02	14.27 209.50	9.53 141.02	17.48 255.24	24.61 355.02	12.70 186.94	30.96 441.78	38.89 547.33	46.02 639.58	52.37 719.63	59.54 807.63		
650	26	660.4	12.70 202.85		9.53 152.96			12.70 202.85							
700	28	711.2	12.70 218.76	15.88 272.29	9.53 164.90			12.70 218.76							
750	30	762.0	12.70 234.67	15.88 292.18	9.53 176.84			12.70 234.67							
800	32	812.8	12.70 250.58	15.88 312.07	9.53 188.78	17.48 342.83		12.70 250.58							
850	34	863.6	12.70 266.49	15.88 331.97	9.53 200.71	17.48 364.73		12.70 266.49							
900	36	914.4	12.70 282.40	15.88 351.86	9.53 212.65	17.48 386.62		12.70 282.40							
950	38	965.2			9.53 224.59			12.70 298.31							
1000	40	1016.0			9.53 236.53			12.70 314.22							
1050	42	1066.8			9.53 248.47			12.70 330.13							
1100	44	1117.8			9.53 260.45			12.70 346.10							
1150	46	1168.4			9.53 272.35			12.70 361.94							
1200	48	1219.2			9.53 284.28			12.70 377.85							

Stainless Steels					
Sch 5S	Sch 10S	Sch 40S	Sch 80S	Sch 160	XXS
1.65 0.50	2.24 0.64	3.02 0.81			
1.65 0.64	2.31 0.85	3.20 1.11			
1.65 0.81	2.11 1.01	2.77 1.28	3.73 1.64	4.78 1.97	7.47 2.58
1.65 1.03	2.11 1.30	2.87 1.71	3.91 2.23	5.56 2.94	7.82 3.69
1.65 1.31	2.77 2.12	3.38 2.54	4.55 3.28	6.35 4.29	9.09 5.52
1.65 1.67	2.77 2.73	3.56 3.44	4.85 4.53	6.35 5.69	9.70 7.88
1.65 1.92	2.77 3.15	3.68 4.10	5.08 5.49	7.14 7.34	10.16 9.68
1.65 2.42	2.77 3.98	3.91 5.51	5.54 7.58	8.74 11.26	11.07 13.62
2.11 3.74	3.05 5.33	5.16 8.75	7.01 11.56	9.53 15.12	14.02 20.66
2.11 4.58	3.05 6.54	5.49 11.44	7.62 15.48	11.13 21.63	15.24 28.05
3.05 7.51	5.74 13.75	8.08 18.88			
3.05 8.48	6.02 16.29	8.56 22.62	13.49 33.98	17.12 41.58	
3.40 11.72	6.55 22.06	9.53 31.38	15.88 49.77	19.05 58.20	
3.40 14.01	7.11 28.64	9.53 43.13	18.26 68.47	21.95 80.28	
3.76 20.23	8.18 43.12	12.70 65.51	23.01 112.76	22.23 109.37	
4.19 28.15	9.27 61.09	12.70 82.61			
	9.53 74.87	12.70 98.77			

**Example:**  
**6,02 : Wall thickness in mm**  
**16,07 : Weight in Kg/meter**





MILL TEST CERTIFICATES & TRACEABILITY, all products listed in this brochure can be supplied with full mill certification to EN10204 3.1 upon request. Some specific Steels Or because of technical request we can Supply the material with full mill certification EN10204 3.2. In addition, we are able to perform supplementary testing, as well as color coding, shipping marks and third party inspection. Full traceability of materials through our supply chain from our supplier to your point of delivery is always maintained.



ISO CERTIFICATION, Protubsa operates a Quality Management System approved by Lloyds Register of Quality Assurance to ISO 9001.



Our facilities have sufficient storage capacity to make partial deliveries within the deadlines you require. Additional services include custom cutting, plasma cutting, charter - first primer, girth welds and additional independent laboratory tests.



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