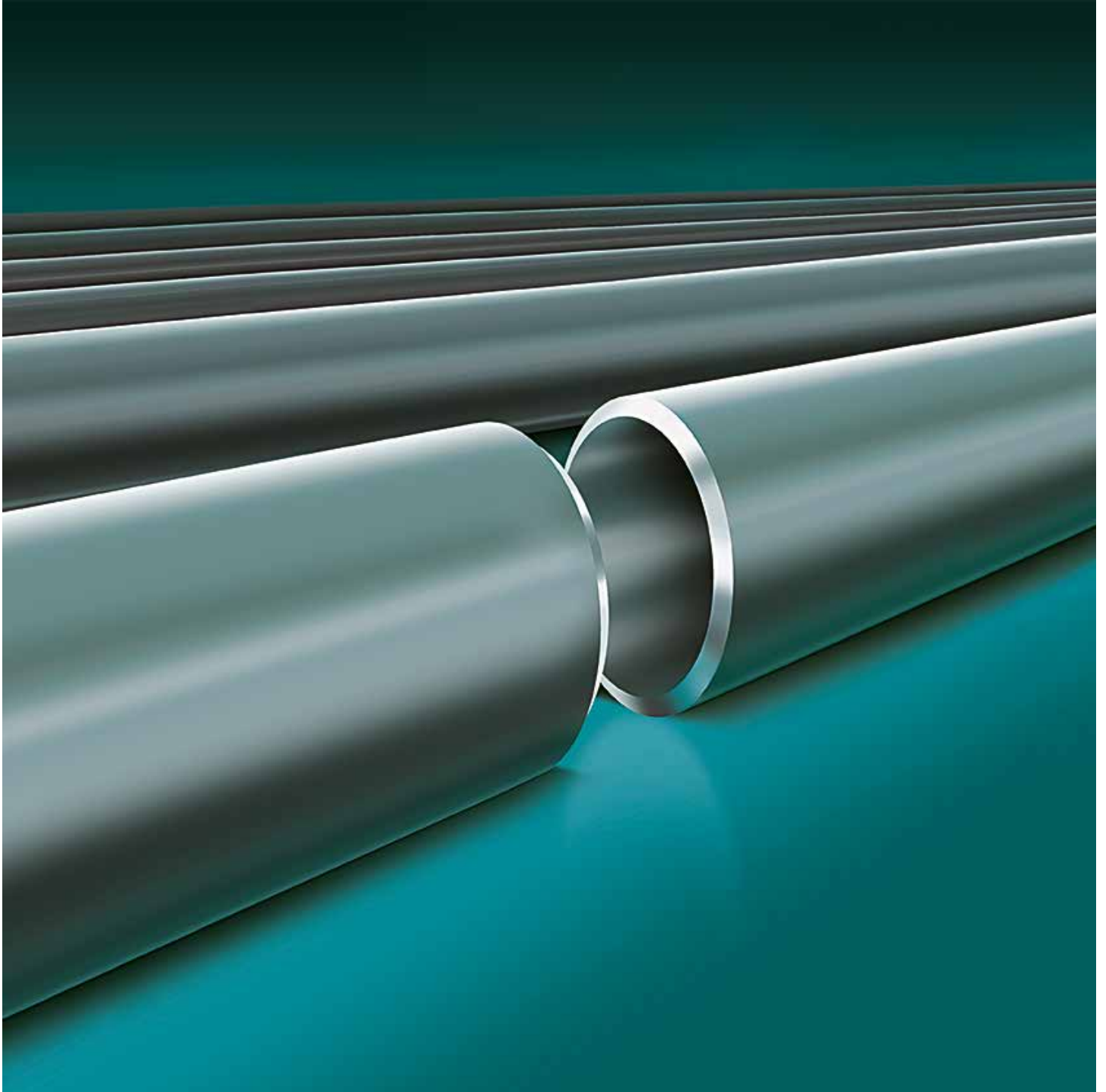


# sicam<sup>®</sup>



LINE  
**LP** IPES

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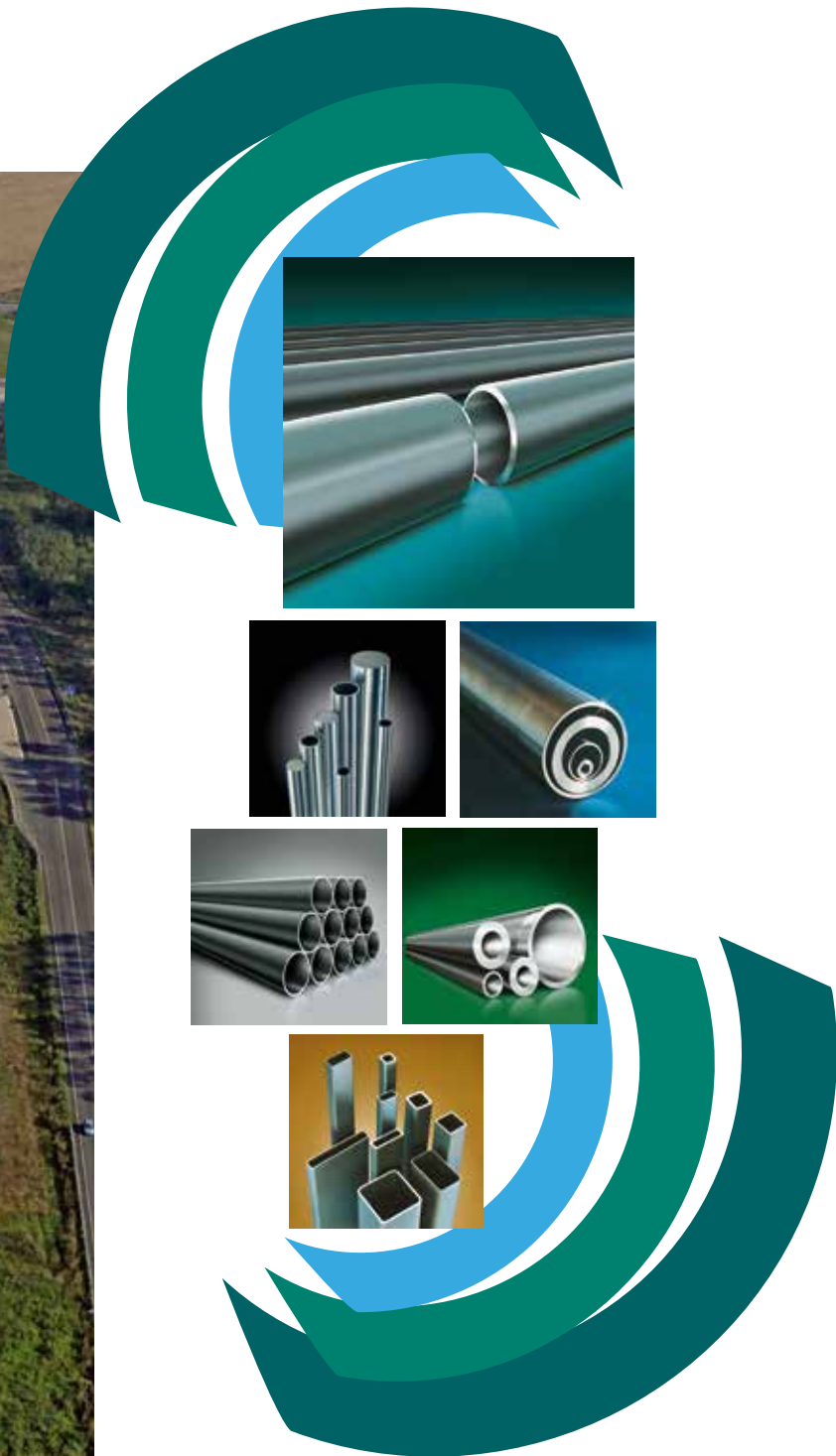
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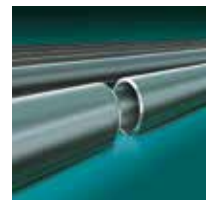


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## LINE PIPES

### APPLICATIONS

Pipes for the construction of pipelines for water, liquid hydrocarbons, natural gas and for the construction of chemical and industrial plants, refineries etc.

### NORMS

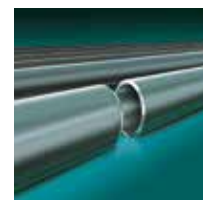
Line pipes are according to the following norms:  
API 5L (ISO3183) (seamless and welded pipes)  
ASTM A53 / ASME SA53 (seamless and welded pipes)

### MANUFACTURING METHODS

Seamless pipes, hot rolled or cold finished with following heat treatment.

ERW pipes up to dia 24" and SAW pipes for the other sizes.





## STEELS TABLE

### CHEMICAL ANALYSIS AND MECHANICAL PROPERTIES

NORM	GRADE	EXECUTION	CHEMICAL ELEMENTS (% on mass)											Yield strength Rt0.5 (Mpa)	Tensile strength Rm (Mpa)
			C max.	Mn max.	P max.	S max.	V max.	Nb max.	Ti max.	Cu max.	Ni max.	Cr max.	Mo max.		
API 5L PSL 1	A	S	0.22	0.90	0.030	0.030	-	-	-	0.50	0.50	0.50	0.15	210	335
		W	0.22	0.90			-	-	-						
	B	S	0.28	1.20			a,b	a,b	b					245	415
		W	0.26	1.20			a,b	a,b	b						
	X42	S	0.28	1.30			b	b	b					290	415
		W	0.26	1.30			b	b	b						
	X46	S	0.28	1.40			b	b	b					320	435
		W	0.26	1.40			b	b	b						
	X52	S	0.28	1.40			b	b	b					360	460
		W	0.26	1.40			b	b	b						
	X56	S	0.28	1.40			b	b	b					390	490
		W	0.26	1.40			b	b	b						
	X60	S	0.28	1.40			b	b	b					415	520
		W	0.26	1.40			b	b	b						
	X65	S	0.28	1.40			b	b	b					450	535
		W	0.26	1.45			b	b	b						
X70	S	0.28	1.40	b	b	b	485	570							
	W	0.26	1.65	b	b	b									
ASTM A53	A	S	0.25	0.95	0.05	0.045	0.08*	-	-	0.40*	0.40*	0.40*	0.15*	205	330
		W (ERW)	0.25	0.95	0.05	0.045	0.08*	-	-	0.50*	0.40*	0.40*	0.15*		
	B	S	0.30	1.20	0.05	0.045	0.08*	-	-	0.40*	0.40*	0.40*	0.15*	240	415
		W (ERW)	0.30	1.20	0.05	0.045	0.08*	-	-	0.50*	0.40*	0.40*	0.15*		

a Nb + V ≤ 0.06 %  
b Nb + V + Ti ≤ 0.15 %

S = seamless pipes  
W = welded pipes

\* V + Cu + Ni + Cr + Mo < 1.00 %

**Note: the yield and tensile strength values stated in the table here above are the minimum requirements foreseen by the norm, that does not foresee maximum values.**

## LINE PIPES FOR HIGH TEMPERATURES

### APPLICATIONS

These pipes are suitable for bending and are used for the constructions of plants and equipments subject to high temperatures and pressures.

### MANUFACTURING METHODS

Seamless pipes, hot rolled or cold drawn/cold finished with following heat treatment. The ASTM A335/ASME SA335 and EN 10216-2 norms require heat treatment also for the hot rolled pipes. The welded pipes are manufactured according to EN 10217-2.

### NORMS

Pipes suitable for high temperatures are according to the following norms:

ASTM A 106 / ASME SA 106 (Seamless pipes)

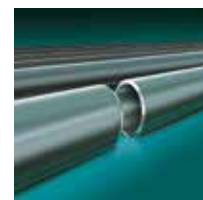
ASTM A 335 / ASME SA 335 (Seamless pipes)

EN 10216-2 (Seamless pipes)

EN 10217-2 (Welded pipes)







# STEELS TABLE

## CHEMICAL ANALYSIS AND MECHANICAL PROPERTIES

NORM	GRADE	CHEMICAL ELEMENTS (% on mass)																Yield strength (Mpa)	Tensile strength (Mpa)	Elongation %
		C		Mn		Si		P	S	Cr		Mo		V		Ni	Cu			
		min.	max.	min.	max.	min.	max.	max.	max.	min.	max.	min.	max.	min.	max.	max.	max.			
ASTM A106 ASME SA 106	A	-	0.25	0.27	0.93	-	0.10	0.035	0.035	-	0.40	-	0.15	-	0.08	0.40	0.40	205	330	35
	B	-	0.30	0.29	1.06	-	0.10	0.035	0.035	-	0.40	-	0.15	-	0.08	0.40	0.40	240	415	30
	C	-	0.35	0.29	1.06	-	0.10	0.035	0.035	-	0.40	-	0.15	-	0.08	0.40	0.40	275	485	30
ASTM A 335 ASME SA 335	P1	0.10	0.20	0.30	0.80	0.10	0.50	0.025	0.025	-	-	0.44	0.65	-	-	-	-	205	380	30
	P2	0.10	0.20	0.30	0.61	0.10	0.30	0.025	0.025	0.50	0.81	0.44	0.65	-	-	-	-	205	380	30
	P5	-	0.15	0.30	0.60	-	0.50	0.025	0.025	4.00	6.00	0.45	0.65	-	-	-	-	205	415	30
	P9	-	0.15	0.30	0.60	0.25	1.00	0.025	0.025	8.00	10.00	0.90	1.10	-	-	-	-	205	415	30
	P11	0.05	0.15	0.30	0.60	0.50	1.00	0.025	0.025	1.00	1.50	0.44	0.65	-	-	-	-	205	415	30
	P12	0.05	0.15	0.30	0.61	-	0.50	0.025	0.025	0.80	1.25	0.44	0.65	-	-	-	-	220	415	30
	P15	0.05	0.15	0.30	0.60	1.15	1.65	0.025	0.025	-	-	0.44	0.65	-	-	-	-	205	415	30
	P21	0.05	0.15	0.30	0.60	-	0.50	0.025	0.025	2.65	3.35	0.80	1.06	-	-	-	-	205	415	30
	P22	0.05	0.15	0.30	0.60	-	0.50	0.025	0.025	1.90	2.60	0.87	1.13	-	-	-	-	205	415	30
	P91*	0.08	0.12	0.30	0.60	0.20	0.50	0.020	0.010	8.00	9.50	0.85	1.05	0.18	0.25	0.40	-	415	585	20
P92"	0.07	0.13	0.30	0.60	-	0.50	0.020	0.010	8.50	9.50	0.30	0.60	0.15	0.25	0.40	-	440	620	20	
EN 10216-2	P195GH (+N) <sup>1</sup>	-	0.13	-	0.70	-	0.35	0.025	0.020	-	0.30	-	0.08	-	0.02	0.30	0.30	T ≤ 16 195	320-440	27
	P235GH (+N) <sup>1</sup>	-	0.16	-	1.20	-	0.35	0.025	0.020	-	0.30	-	0.08	-	0.02	0.30	0.30	T ≤ 16 235	360-500	25
																		16 < T ≤ 40 225		
40 < T ≤ 60 215																				
EN 10217-2	P265GH (+N) <sup>1</sup>	-	0.20	-	1.40	-	0.40	0.025	0.020	-	0.30	-	0.08	-	0.02	0.30	0.30	T ≤ 16 265	410-570	23
																		16 < T ≤ 40 255		
																		40 < T ≤ 60 245		

**Note: the impact test is optional for tubes according to EN 10216-2 and EN 10217-2, therefore it has to be explicitly required in the purchase order (Min. 28 J at - 10° C or Min. 40 J at 0°C on the longitudinal sample).**

**The yield strength, tensile strength and elongation values stated in the table here above are the minimum requirements foreseen by the norm, that does not foresee maximum values.**

T=tube w.t. in mm - the minimum elongation values refer to longitudinal samples.

\* 0.030 ≤ N ≤ 0.070, Al ≤ 0.020, 0.060 ≤ Cb ≤ 0.10, Ti ≤ 0.010, Zr ≤ 0.010 (% on mass).

" 0.030 ≤ N ≤ 0.070, Al ≤ 0.020, 0.040 ≤ Cb ≤ 0.090, 1.50 ≤ W ≤ 2.00, 0.001 ≤ B ≤ 0.006, Ti ≤ 0.010, Zr ≤ 0.010 (% on mass).

<sup>1</sup> Al ≥ 0.020, Nb ≤ 0.010, Ti ≤ 0.030, Cr + Cu + Mo + Ni ≤ 0.70 (% on mass).

## LINE PIPES FOR LOW TEMPERATURES

### APPLICATIONS

These pipes are used for the construction of pipelines, equipments and tanks subject to low temperatures.

### MANUFACTURING METHODS

Seamless or welded pipes, hot rolled or cold finished. The ASTM A333/ASME SA333 and EN 10216-4 norms always foresee a suitable following heat treatment.

### NORMS

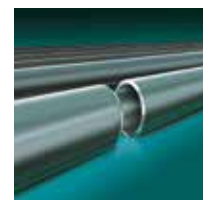
Pipes suitable for low temperatures are according to the following norms:

ASTM A 333 / ASME SA 333 (seamless and welded pipes)

EN 10216-4 (Seamless pipes)

EN 10217-4 (Welded pipes)





# STEELS TABLE

## CHEMICAL ANALYSIS AND MECHANICAL PROPERTIES

NORM	GRADE	EXECUTION	CHEMICAL ELEMENTS (% on mass)																Yield strength R <sub>t0.5</sub> (Mpa)	Tensile strength R <sub>m</sub> (Mpa)	Elongation. %	Impact test average value	
			C	Mn		P	S	Si		Ni		Cr		Cu		Al		V					Mo
			max.	min.	max.	max.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	max.					max.
ASTM A 333 / ASME SA 333	1	SoW	0.30	0.40	1.06	0.025	0.025	-	-	-	-	-	-	-	-	-	-	-	205	380	35	18 J min. -45°C	
	3	SoW	0.19	0.31	0.64	0.025	0.025	0.18	0.37	3.18	3.82	-	-	-	-	-	-	-	240	450	30	18 J min. -100°C	
	4	S	0.12	0.50	1.05	0.025	0.025	0.08	0.37	0.47	0.98	0.44	1.01	0.40	0.75	0.04	0.30	-	-	240	415	30	18 J min. -100°C
	6	SoW	0.30	0.29	1.06	0.025	0.025	0.10	-	-	-	-	-	-	-	-	-	-	-	240	415	30	18 J min. -45°C
	7	SoW	0.19	-	0.90	0.025	0.025	0.13	0.32	2.03	2.57	-	-	-	-	-	-	-	-	240	450	30	18 J min. -75°C
	8	SoW	0.13	-	0.90	0.025	0.025	0.13	0.32	8.40	9.60	-	-	-	-	-	-	-	-	515	690	22	18 J min. -195°C
	9	SoW	0.20	0.40	1.06	0.025	0.025	-	-	1.60	2.24	-	-	0.75	1.25	-	-	-	-	315	435	28	18 J min. -75°C
	10 <sup>1</sup>	SoW	0.20	1.15	1.50	0.035	0.015	0.10	0.35	-	0.25	-	0.15	-	0.15	-	0.06	0.12	0.05	450	550	22	18 J min. -60°C
	11 <sup>2</sup>	SoW	0.10	-	0.60	0.025	0.025	-	0.35	35.0	37.0	-	0.50	-	-	-	-	-	0.50	240	450	18	18 J min. -195°C
EN 10216-4 EN 10217-4	P215NL <sup>3</sup> (+N)	-	0.15	0.40	1.20	0.025	0.020	-	0.35	-	0.30	-	0.30	-	0.30	0.020	-	0.02	0.08	215	360-480	25	40 J min. -40°C
	P255QL <sup>3</sup> (+QT)	-	0.17	0.40	1.20	0.025	0.020	-	0.35	-	0.30	-	0.30	-	0.30	0.020	-	0.02	0.08	255	360-490	23	45 J min. -40°C
	P265NL <sup>3</sup> (+N)	-	0.20	0.60	1.40	0.025	0.020	-	0.40	-	0.30	-	0.30	-	0.30	0.020	-	0.02	0.08	265	410-570	24	40 J min. -40°C

**Note: the yield strength, tensile strength and elongation values stated in the table here above are the minimum requirements foreseen by the norm, that does not foresee maximum values.**

S = Seamless pipes  
W = Welded pipes

The minimum foreseen values for elongation and impact test refer to standard longitudinal samples.

<sup>1</sup> C<sub>b</sub> ≤ 0.05%

<sup>2</sup> C<sub>o</sub> ≤ 0.50%

<sup>3</sup> Nb ≤ 0.010%, Ti ≤ 0.040%

## DIMENSIONAL TABLES ACCORDING TO ASTM, ASME AND API NORMS

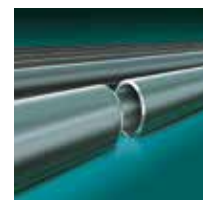
Pipes according to the following norms follow the dimensional table foreseen by ASME B36.10M specification:

API 5L  
ASTM A 53 / ASME SA 53  
ASTM A 106 / ASME SA 106

ASTM A 335 / ASME SA 335  
ASTM A 333 / ASME SA 333

### SIZES FOR LINE PIPES

Nominal O.D.	O.D.		W.T.		Mass		Designation	
	inches	inches mm	inches	mm	lb/ft	Kg/m	Class	Schedule
<b>1/8</b>	0.405	<b>10.3</b>	0.068	1.73	0.24	0.37	STD	40
			0.095	2.41	0.31	0.47	XS	80
<b>1/4</b>	0.540	<b>13.7</b>	0.088	2.24	0.42	0.63	STD	40
			0.119	3.02	0.54	0.80	XS	80
<b>3/8</b>	0.675	<b>17.1</b>	0.091	2.31	0.057	0.84	STD	40
			0.126	3.20	0.74	1.10	XS	80
<b>1/2</b>	0.840	<b>21.3</b>	0.109	2.77	0.85	1.27	STD	40
			0.147	3.73	1.09	1.62	XS	80
			0.188	4.78	1.31	1.95	-	160
			0.294	7.47	1.71	2.55	XXS	-
<b>3/4</b>	1.050	<b>26.7</b>	0.113	2.87	1.13	1.69	STD	40
			0.154	3.91	1.47	2.20	XS	80
			0.219	5.56	1.94	2.90	-	160
			0.308	7.82	2.44	3.64	XXS	-
<b>1</b>	1.315	<b>33.4</b>	0.133	3.38	1.68	2.50	STD	40
			0.179	4.55	2.17	3.24	XS	80
			0.250	6.35	2.84	4.24	-	160
			0.358	9.09	3.66	5.45	XXS	-
<b>1 1/4</b>	1.660	<b>42.2</b>	0.140	3.56	2.27	3.39	STD	40
			0.191	4.85	3.00	4.47	XS	80
			0.250	6.35	3.76	5.61	-	160
			0.382	9.70	5.21	7.76	XXS	-
<b>1 1/2</b>	1.900	<b>48.3</b>	0.145	3.68	2.72	4.07	STD	40
			0.200	5.08	3.63	5.41	XS	80
			0.281	7.14	4.86	7.25	-	160
			0.400	10.15	6.41	9.56	XXS	-



Nominal O.D.	O.D.		W.T.		Mass		Designation	
	inches	mm	inches	mm	lb/ft	Kg/m	Class	Schedule
<b>2</b>	2.375	<b>60.3</b>	0.109	2.77	2.64	3.93	-	10
			0.125	3.18	3.00	4.51	-	30
			0.141	3.58	3.36	5.01	-	-
			0.154	3.91	3.65	5.44	STD	40
			0.172	4.37	4.05	6.03	-	-
			0.188	4.78	4.39	6.54	-	-
			0.218	5.54	5.02	7.48	XS	80
			0.250	6.35	5.67	8.45	-	-
			0.281	7.14	6.28	9.36	-	-
			0.344	8.74	7.46	11.11	-	160
			0.436	11.07	9.03	13.44	XXS	-
<b>2 ½</b>	2.875	<b>73</b>	0.109	2.77	3.22	4.80	-	-
			0.125	3.18	3.67	5.51	-	-
			0.141	3.58	4.12	6.13	-	-
			0.156	3.96	4.53	6.74	-	-
			0.172	4.37	4.97	7.40	-	-
			0.188	4.78	5.40	8.04	-	-
			0.203	5.16	5.79	8.63	STD	40
			0.216	5.49	6.13	9.14	-	-
			0.250	6.35	7.01	10.44	-	-
			0.276	7.01	7.66	11.41	XS	80
			0.375	9.53	10.01	14.92	-	160
						0.552	14.02	13.69
<b>3</b>	3.500	<b>88.9</b>	0.125	3.18	4.51	6.72	-	-
			0.141	3.58	5.06	7.53	-	-
			0.156	3.96	5.57	8.29	-	-
			0.172	4.37	6.11	9.11	-	-
			0.188	4.78	6.65	9.92	-	30
			0.216	5.49	7.58	11.29	STD	40
			0.250	6.35	8.68	12.93	-	-
			0.281	7.14	9.66	14.40	-	-
			0.300	7.62	10.25	15.27	XS	80
			0.438	11.13	14.32	21.33	-	160
			0.600	15.24	18.58	27.68	XXS	-

## DIMENSIONAL TABLES ACCORDING TO ASTM, ASME AND API NORMS

Pipes according to the following norms follow the dimensional table foreseen by ASME B36.10M specification:

API 5L  
ASTM A 53 / ASME SA 53  
ASTM A 106 / ASME SA 106

ASTM A 335 / ASME SA 335  
ASTM A 333 / ASME SA 333

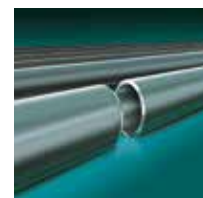
Nominal O.D.	O.D.		W.T.		Mass		Designation	
	inches	mm	inches	mm	lb/ft	Kg/m	Class	Schedule

<b>3 ½</b>	4.000	<b>101.6</b>	0.156	3.96	6.40	9.53	-	-
			0.172	4.37	7.03	10.48	-	-
			0.188	4.78	7.65	11.41	-	30
			0.226	5.74	9.11	13.57	STD	40
			0.250	6.35	10.01	14.92	-	-
			0.281	7.14	11.16	16.63	-	-
			0.318	8.08	12.50	18.63	XS	80

<b>4</b>	4.500	<b>114.3</b>	0.156	3.96	7.24	10.78	-	-
			0.172	4.37	7.95	11.85	-	-
			0.188	4.78	8.66	12.91	-	30
			0.203	5.16	9.32	13.89	-	-
			0.219	5.56	10.01	14.91	-	-
			0.237	6.02	10.79	16.07	STD	40
			0.250	6.35	11.35	19.60	-	-
			0.281	7.14	12.66	18.87	-	-
			0.312	7.92	13.96	20.78	-	-
			0.337	8.56	14.98	22.32	XS	80
			0.438	11.13	19.00	28.32	-	120
			0.531	13.49	22.51	33.54	-	160
			0.674	17.12	27.54	41.03	XXS	-

<b>5</b>	5.563	<b>141.3</b>	0.156	3.96	9.01	13.41	-	-
			0.188	4.78	10.79	16.09	-	-
			0.219	5.56	12.50	18.61	-	-
			0.258	6.56	14.62	21.77	STD	40
			0.281	7.14	15.85	23.62	-	-
			0.312	7.92	17.50	26.05	-	-
			0.344	8.74	19.17	28.57	-	-
			0.375	9.53	20.78	30.97	XS	80
			0.500	12.70	27.04	40.28	-	120
			0.625	15.88	32.96	49.14	-	160
			0.750	19.05	38.55	57.43	XXS	-

<b>6</b>	6.625	<b>168.3</b>	0.172	4.37	11.85	17.67	-	-
			0.188	4.78	12.92	19.27	-	-



Nominal O.D.	O.D.		W.T.		Mass		Designation	
	inches	mm	inches	mm	lb/ft	Kg/m	Class	Schedule

<b>6</b>	6.625	<b>168.3</b>	0.203	5.16	13.92	20.76	-	-
			0.219	5.56	14.98	22.31	-	-
			0.250	6.35	17.02	25.36	-	-
			0.280	7.11	18.97	28.26	STD	40
			0.312	7.92	21.04	31.32	-	-
			0.344	8.74	23.08	34.39	-	-
			0.375	9.53	25.03	37.31	-	-
			0.432	10.97	28.57	42.56	XS	80
			0.500	12.70	32.71	48.73	-	-
			0.562	14.27	36.39	54.20	-	120
			0.625	15.88	40.05	59.69	-	-
			0.712	18.26	45.35	67.56	-	160
			0.750	19.05	47.06	70.11	-	-
			0.864	21.95	53.16	79.22	XXS	-
0.875	22.23	53.73	80.07	-	-			

<b>8</b>	8.625	<b>219.1</b>	0.188	4.78	16.94	25.26	-	-
			0.203	5.16	18.26	27.22	-	-
			0.219	5.56	19.66	29.28	-	-
			0.250	6.35	22.36	33.31	-	20
			0.277	7.04	24.70	36.81	-	30
			0.312	7.92	27.70	41.24	-	-
			0.322	8.18	28.55	42.55	STD	40
			0.344	8.74	30.42	45.34	-	-
			0.375	9.53	33.04	49.25	-	-
			0.406	10.31	35.64	53.08	-	60
			0.438	11.13	38.30	57.08	-	-
			0.500	12.70	43.39	64.64	XS	80
			0.562	14.27	48.40	72.08	-	-
			0.594	15.09	50.95	75.92	-	100
			0.625	15.88	53.40	79.58	-	-
			0.719	18.26	60.71	79.58	-	120
			0.750	19.05	63.08	93.98	-	-
			0.812	20.62	67.76	100.92	-	140
			0.875	22.23	72.42	107.92	XXS	-
0.906	23.01	74.69	111.27	-	160			
1.000	25.40	81.44	121.33	-	-			

## DIMENSIONAL TABLES ACCORDING TO ASTM, ASME AND API NORMS

Pipes according to the following norms follow the dimensional table foreseen by ASME B36.10M specification:

API 5L  
ASTM A 53 / ASME SA 53  
ASTM A 106 / ASME SA 106

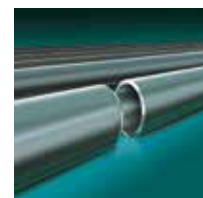
ASTM A 335 / ASME SA 335  
ASTM A 333 / ASME SA 333

Nominal O.D.	O.D.		W.T.		Mass		Designation	
	inches	mm	inches	mm	lb/ft	Kg/m	Class	Schedule

10	10.750	273	0.250	6.35	28.04	41.77	-	20
			0.279	7.09	31.20	46.51	-	-
			0.307	7.80	34.24	51.03	-	30
			0.344	8.74	38.23	56.98	-	-
			0.365	9.27	40.48	60.31	STD	40
			0.438	11.13	48.24	71.90	-	-
			0.500	12.70	54.74	81.55	XS	60
			0.562	14.27	61.15	91.08	-	-
			0.594	15.09	64.43	96.01	-	80
			0.625	15.88	67.58	100.73	-	-
			0.719	18.26	77.03	114.75	-	100
			0.812	20.62	86.18	128.38	-	-
			0.844	21.44	89.29	133.06	-	120
			0.875	22.23	92.28	137.52	-	-
			0.938	23.83	98.30	146.48	-	-
			1.000	25.40	104.13	155.15	XXS	140
			1.125	28.58	115.64	172.33	-	160
1.250	31.75	126.83	188.97	-	-			

12	12.750	323.9	0.250	6.35	33.38	49.73	-	20
			0.281	7.14	37.42	55.77	-	-
			0.312	7.92	41.45	61.71	-	-
			0.330	8.38	43.77	65.20	-	30
			0.344	8.74	45.58	67.93	-	-
			0.375	9.53	49.56	73.88	STD	-
			0.406	10.31	53.52	79.73	-	40
			0.438	11.13	57.59	85.84	-	-
			0.500	12.70	65.42	97.46	XS	-
			0.562	14.27	73.15	108.96	-	60
			0.625	15.88	80.93	120.62	-	-
			0.688	17.48	88.63	132.08	-	80
			0.750	19.05	96.12	143.21	-	-
			0.812	20.62	103.53	154.24	-	-
			0.844	21.44	107.32	159.91	-	100
			0.875	22.23	110.97	165.37	-	-
			0.938	23.83	118.33	176.33	-	-





Nominal O.D.	O.D.		W.T.		Mass		Designation	
inches	inches	mm	inches	mm	lb/ft	Kg/m	Class	Schedule

<b>12</b>	12.750	<b>323.9</b>	1.000	25.40	125.49	186.97	XXS	120
			1.062	26.97	132.57	197.48	-	-
			1.125	25.58	139.67	208.14	-	140
			1.250	31.75	153.53	228.74	-	-
			1.312	33.32	160.27	238.76	-	160

<b>14</b>	14.000	<b>355.6</b>	0.281	7.14	41.17	61.35	-	-
			0.312	7.92	45.61	67.90	-	20
			0.344	8.74	50.17	74.76	-	-
			0.375	9.53	54.57	81.33	STD	30
			0.406	10.31	58.94	87.79	-	-
			0.438	11.13	63.54	94.55	-	40
			0.469	11.91	67.78	100.94	-	-
			0.500	12.70	72.09	107.39	XS	-
			0.562	14.27	80.66	120.11	-	-
			0.594	15.09	85.05	126.71	-	60
			0.625	15.88	89.28	133.03	-	-
			0.688	17.48	97.81	145.75	-	-
			0.750	19.05	106.13	158.10	-	80
			0.812	20.62	114.37	170.33	-	-
			0.875	22.23	122.65	182.75	-	-
			0.938	23.83	130.85	194.96	-	100
			1.000	25.40	138.84	206.83	-	-
			1.062	26.97	146.74	218.57	-	-
			1.094	27.79	150.79	224.65	-	120
1.125	28.58	154.69	230.48	-	-			
1.250	31.75	170.21	253.56	-	140			
1.406	35.71	189.11	281.70	-	160			

<b>16</b>	16.000	<b>406.4</b>	0.281	7.14	47.17	70.30	-	-
			0.312	7.92	52.27	77.83	-	20
			0.344	8.74	57.52	85.71	-	-
			0.375	9.53	62.58	93.27	STD	30
			0.406	10.31	67.62	100.70	-	-
			0.438	11.13	72.80	108.49	-	-
			0.469	11.91	77.79	115.86	-	-

## DIMENSIONAL TABLES ACCORDING TO ASTM, ASME AND API NORMS

Pipes according to the following norms follow the dimensional table foreseen by ASME B36.10M specification:

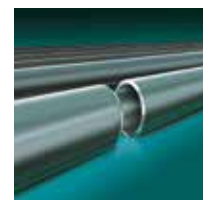
API 5L  
ASTM A 53 / ASME SA 53  
ASTM A 106 / ASME SA 106

ASTM A 335 / ASME SA 335  
ASTM A 333 / ASME SA 333

Nominal O.D.	O.D.		W.T.		Mass		Designation	
	inches	mm	inches	mm	lb/ft	Kg/m	Classe	Schedule

16	16.000	406.4	0.500	12.70	82.77	123.30	XS	40
			0.562	14.27	92.66	137.99	-	-
			0.625	15.88	102.63	152.93	-	-
			0.656	16.66	107.50	160.12	-	60
			0.688	17.48	112.51	167.65	-	-
			0.750	19.05	122.15	181.97	-	-
			0.812	20.62	131.71	196.16	-	-
			0.875	22.23	141.34	210.60	-	-
			0.938	23.83	150.89	224.82	-	-
			1.000	25.40	160.20	238.64	-	-
			1.031	26.16	164.82	245.56	-	100
			1.062	26.97	169.43	252.35	-	-
			1.125	28.58	178.72	266.28	-	-
			1.188	30.18	187.93	280.00	-	-
			1.219	30.96	192.43	286.64	-	120
			1.250	31.75	196.91	293.33	-	-
1.438	36.53	223.64	333.19	-	140			
1.594	40.49	245.25	365.35	-	160			

18	18.000	457	0.281	7.14	53.18	79.21	-	-
			0.312	7.92	58.94	87.71	-	20
			0.344	8.74	64.87	96.61	-	-
			0.375	9.53	70.59	105.16	STD	-
			0.406	10.31	76.29	113.57	-	-
			0.438	11.13	82.15	122.38	-	30
			0.469	11.91	87.81	130.72	-	-
			0.500	12.70	93.45	139.15	XS	-
			0.562	14.27	104.67	155.80	-	40
			0.625	15.88	115.98	172.74	-	-
			0.688	17.48	127.21	189.46	-	-
			0.750	19.05	138.17	205.74	-	60
			0.812	20.62	149.06	221.89	-	-
			0.875	22.23	160.03	238.34	-	-
			0.938	23.83	170.92	254.55	-	80
			1.000	25.40	181.56	270.34	-	-
			1.062	26.97	192.11	286.00	-	-



Nominal O.D.	O.D.		W.T.		Mass		Designation	
inches	inches	mm	inches	mm	lb/ft	Kg/m	Class	Schedule

<b>18</b>	18.000	<b>457</b>	1.125	28.58	202.75	301.94	-	-
			1.156	29.36	207.96	309.62	-	100
			1.188	30.18	213.31	317.66	-	-
			1.250	31.75	223.61	332.95	-	-
			1.375	34.93	244.14	363.56	-	120
			1.562	39.67	274.22	408.26	-	140
			1.781	45.24	308.50	459.37	-	160

<b>20</b>	20.000	<b>508</b>	0.281	7.14	59.18	88.19	-	-
			0.312	7.92	65.60	97.67	-	-
			0.344	8.74	72.21	107.60	-	-
			0.375	9.53	78.60	117.15	STD	20
			0.406	10.31	84.96	126.53	-	-
			0.438	11.13	91.51	136.37	-	-
			0.469	11.91	97.83	145.70	-	-
			0.500	12.70	104.13	155.12	XS	30
			0.562	14.27	116.67	173.74	-	-
			0.594	15.09	123.11	183.42	-	40
			0.625	15.88	129.33	192.71	-	-
			0.688	17.48	141.90	211.44	-	-
			0.750	19.05	154.19	229.70	-	-
			0.812	20.62	166.40	247.83	-	60
			0.875	22.23	178.72	266.29	-	-
			0.938	23.83	190.96	284.52	-	-
			1.000	25.40	202.92	302.28	-	-
			1.031	26.19	208.87	311.17	-	80
			1.062	26.97	214.80	319.92	-	-
			1.125	28.58	226.78	337.89	-	-
			1.188	30.18	238.68	355.61	-	-
			1.250	31.75	250.31	372.88	-	-
			1.281	32.54	256.10	381.53	-	100
1.312	33.32	261.86	390.03	-	-			
1.375	34.93	273.51	407.49	-	-			
1.500	38.10	296.37	441.49	-	120			

## DIMENSIONAL TABLES ACCORDING TO ASTM, ASME AND API NORMS

Pipes according to the following norms follow the dimensional table foreseen by ASME B36.10M specification:

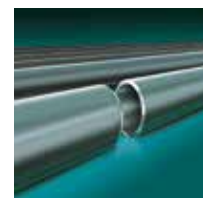
API 5L  
ASTM A 53 / ASME SA 53  
ASTM A 106 / ASME SA 106

ASTM A 335 / ASME SA 335  
ASTM A 333 / ASME SA 333

Nominal O.D.	O.D.		W.T.		Mass		Designation	
	inches	inches	mm	inches	mm	lb/ft	Kg/m	Class

<b>22</b>	22.000	<b>559</b>	0.281	7.14	65.18	97.17	-	-
			0.312	7.92	72.27	107.63	-	-
			0.344	8.74	79.56	118.60	-	-
			0.375	9.53	86.61	129.13	STD	20
			0.406	10.31	93.63	139.50	-	-
			0.438	11.13	100.86	150.37	-	-
			0.469	11.91	107.85	160.68	-	-
			0.500	12.70	114.81	171.09	XS	30
			0.562	14.27	128.67	191.69	-	-
			0.625	15.88	142.68	212.69	-	-
			0.688	17.48	156.60	233.43	-	-
			0.750	19.05	170.21	253.65	-	-
			0.812	20.62	183.75	273.76	-	-
			0.875	22.23	197.41	294.25	-	60
			0.938	23.83	211.00	314.49	-	-
			1.000	25.40	224.28	334.23	-	-
			1.062	26.97	237.48	353.84	-	-
			1.125	28.58	250.81	373.83	-	80
			1.188	30.18	264.06	393.57	-	-
			1.250	31.75	277.01	412.81	-	-
1.312	33.32	289.88	431.94	-	-			
1.375	34.93	302.88	451.42	-	100			
1.438	36.53	315.79	470.66	-	-			
1.500	38.10	328.41	489.41	-	-			
1.625	41.28	253.61	527.02	-	120			

<b>24</b>	24.000	<b>610</b>	0.375	9.53	94.62	141.12	STD	20
			0.406	10.31	102.31	152.47	-	-
			0.438	11.13	110.22	164.37	-	-
			0.469	11.91	117.86	175.66	-	-
			0.500	12.70	125.49	187.06	XS	-
			0.562	14.27	140.68	209.64	-	30
			0.625	15.88	156.03	232.66	-	-
			0.688	17.48	171.29	255.41	-	40
			0.750	19.05	186.23	277.61	-	-
			0.812	20.62	201.09	299.69	-	-
			0.875	22.23	216.10	322.21	-	-
			0.938	23.83	231.03	344.46	-	-



Nominal O.D.	O.D.		W.T.		Mass		Designation	
	inches	mm	inches	mm	lb/ft	Kg/m	Class	Schedule

<b>24</b>	24.000	<b>610</b>	0.969	24.61	238.35	355.26	-	60
			1.000	25.40	245.64	366.17	-	-
			1.062	26.97	260.17	387.76	-	-
			1.125	28.58	274.84	409.77	-	-
			1.188	30.18	289.44	431.52	-	-
			1.219	30.96	296.58	442.08	-	80
			1.250	31.75	303.71	452.74	-	-
			1.312	33.32	317.91	473.84	-	-
			1.375	34.93	332.25	495.35	-	-
			1.438	36.53	346.50	516.80	-	-
			1.500	38.10	360.45	537.33	-	-
			1.531	38.89	367.39	547.71	-	100
			1.562	39.67	374.31	557.43	-	-
1.812	46.02	429.39	640.03	-	120			

<b>26</b>	26.000	<b>660</b>	0.375	9.53	102.63	152.87	STD	-
			0.406	10.31	110.98	165.18	-	-
			0.438	11.13	119.57	178.09	-	-
			0.469	11.91	127.88	190.34	-	-
			0.500	12.70	136.17	202.72	XS	20
			0.562	14.27	152.68	227.23	-	-
			0.625	15.88	169.38	252.24	-	-
			0.688	17.48	185.99	276.96	-	-
			0.750	19.05	202.25	301.10	-	-
			0.812	20.62	218.43	325.12	-	-
			0.875	22.23	234.79	349.62	-	-
			0.938	23.83	251.07	373.84	-	-
			1.000	25.40	267.00	397.49	-	-

<b>28</b>	28.000	<b>711</b>	0.375	9.53	110.64	164.85	STD	-
			0.406	10.31	119.65	178.15	-	-
			0.438	11.13	128.93	192.09	-	-
			0.469	11.91	137.90	205.32	-	-
			0.500	12.7	146.85	218.69	XS	20
			0.562	14.27	164.69	245.18	-	-
			0.625	15.88	182.73	271.21	-	30
			0.688	17.48	200.68	298.95	-	-
			0.750	19.05	218.27	325.06	-	-

## DIMENSIONAL TABLES ACCORDING TO ASTM, ASME AND API NORMS

Pipes according to the following norms follow the dimensional table foreseen by ASME B36.10M specification:

API 5L

ASTM A 53 / ASME SA 53

ASTM A 106 / ASME SA 106

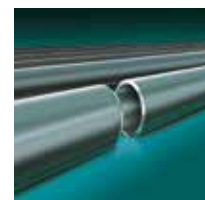
ASTM A 335 / ASME SA 335

ASTM A 333 / ASME SA 333

Nominal O.D.	O.D.		W.T.		Mass		Designation	
	inches	inches	mm	inches	mm	lb/ft	Kg/m	Class

28	28.000	711	0.812	20.62	235.78	351.05	-	-
			0.875	22.23	253.48	377.58	-	-
			0.938	23.83	271.10	403.81	-	-
			1.000	25.40	288.36	429.44	-	-
			0.406	10.31	128.32	191.11	-	-
			0.438	11.13	138.29	206.09	-	-
			0.469	11.91	147.92	220.30	-	-
			0.500	12.70	157.53	234.67	XS	20
			0.562	14.27	176.69	263.12	-	-
			0.625	15.88	196.08	292.18	-	30
			0.688	17.48	215.38	320.93	-	-
			0.750	19.05	234.29	349.02	-	-
			0.812	20.62	253.12	376.98	-	-
			0.875	22.23	272.17	405.54	-	-
			0.938	23.83	291.14	433.78	-	-
1.000	25.40	309.72	461.38	-	-			

32	32.000	813	0.375	9.53	126.66	188.82	STD	-
			0.406	10.31	136.99	204.08	-	-
			0.438	11.13	147.64	220.08	-	-
			0.469	11.91	157.94	235.28	-	-
			0.500	12.70	168.21	250.64	XS	20
			0.562	14.27	188.70	281.07	-	-
			0.625	15.88	209.43	312.15	-	30
			0.688	17.48	230.08	342.91	-	40
			0.750	19.05	250.31	372.98	-	-
			0.812	20.62	270.47	402.92	-	-
			0.875	22.23	290.86	433.49	-	-
			0.938	23.83	311.17	463.75	-	-
			1.000	25.40	331.08	493.32	-	-
			1.062	26.97	350.90	522.77	-	-
			0.750	19.05	250.31	372.98	-	-
			0.812	20.62	270.47	402.92	-	-
			0.875	22.23	290.86	433.49	-	-
			0.938	23.83	311.17	463.75	-	-
			1.000	25.40	331.08	493.32	-	-
			1.062	26.97	350.90	522.77	-	-
1.125	28.58	370.96	552.85	-	-			



Nominal O.D.	O.D.		W.T.		Mass		Designation	
	inches	mm	inches	mm	lb/ft	Kg/m	Classe	Schedule

<b>32</b>	32.000	<b>813</b>	1.188	30.18	390.94	582.61	-	-
			1.250	31.75	410.51	611.68	-	-

<b>34</b>	34.000	<b>864</b>	0.375	9.53	134.67	200.31	STD	-
			0.406	10.31	145.67	217.05	-	-
			0.438	11.13	157.00	234.08	-	-
			0.469	11.91	167.95	250.26	-	-
			0.500	12.70	178.89	266.61	XS	20
			0.562	14.27	200.70	299.02	-	-
			0.625	15.88	222.78	332.12	-	30
			0.688	17.48	244.77	364.90	-	40
			0.750	19.05	266.33	396.93	-	-
			0.812	20.62	287.81	428.85	-	-
			0.875	22.23	309.55	461.45	-	-
			0.938	23.83	331.21	493.72	-	-
			1.000	25.40	352.44	525.27	-	-
			1.062	26.97	373.59	556.69	-	-
			1.125	28.58	394.99	588.79	-	-
1.188	30.18	416.31	620.56	-	-			
1.250	31.75	437.21	651.61	-	-			

<b>36</b>	36.000	<b>914</b>	0.375	9.53	142.68	212.56	STD	-
			0.406	10.31	154.34	229.76	-	-
			0.438	11.13	166.35	247.31	-	-
			0.469	11.91	177.97	264.94	-	-
			0.500	12.70	189.57	282.27	XS	20
			0.562	14.27	212.70	316.11	-	-
			0.625	15.88	236.13	351.70	-	30
			0.688	17.48	259.47	386.45	-	40
			0.750	19.05	282.35	420.42	-	-
			0.812	20.62	305.16	454.27	-	-
			0.875	22.23	328.24	488.86	-	-
			0.938	23.83	351.25	523.11	-	-
			1.000	25.40	373.80	556.59	-	-
			1.062	26.97	396.27	589.95	-	-
			1.125	28.58	419.02	624.03	-	-
1.188	30.18	441.69	657.77	-	-			
1.250	31.75	463.91	690.76	-	-			

## DIMENSIONAL TABLES ACCORDING TO ASTM, ASME AND API NORMS

Pipes according to the following norms follow the dimensional table foreseen by ASME B36.10M specification:

API 5L  
ASTM A 53 / ASME SA 53  
ASTM A 106 / ASME SA 106

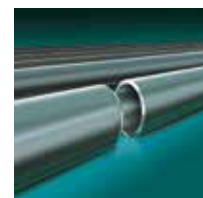
ASTM A 335 / ASME SA 335  
ASTM A 333 / ASME SA 333

Nominal O.D.	O.D.		W.T.		Mass		Designation	
	inches	mm	inches	mm	lb/ft	Kg/m	Class	Schedule

<b>38</b>	38.000	<b>965</b>	0.375	9.53	150.69	224.54	STD	-
			0.406	10.31	163.01	242.72	-	-
			0.438	11.13	175.71	261.80	-	-
			0.469	11.91	187.99	279.92	-	-
			0.500	12.70	200.25	298.24	XS	20
			0.562	14.27	224.71	334.56	-	-
			0.625	15.88	249.48	371.68	-	30
			0.688	17.48	274.16	408.43	-	40
			0.750	19.05	298.37	444.38	-	-
			0.812	20.62	322.50	480.21	-	-
			0.875	22.23	346.93	516.82	-	-
			0.938	23.83	371.28	553.08	-	-
			1.000	25.40	395.16	588.53	-	-
			1.062	26.97	418.96	623.87	-	-
			1.125	28.58	443.05	659.97	-	-
			1.188	30.18	467.06	695.73	-	-
1.250	31.75	490.61	730.69	-	-			

<b>40</b>	40.000	<b>1016</b>	0.375	9.53	158.70	236.53	STD	-
			0.406	10.31	171.68	255.69	-	-
			0.438	11.13	185.06	275.80	-	-
			0.469	11.91	198.01	294.90	-	-
			0.500	12.70	210.93	314.22	XS	20
			0.562	14.27	236.71	352.51	-	-
			0.625	15.88	262.83	391.65	-	30
			0.688	17.48	288.86	430.42	-	40
			0.750	19.05	314.39	468.34	-	-
			0.812	20.62	339.84	506.14	-	-
			0.875	22.23	365.62	544.78	-	-
			0.938	23.83	391.32	583.05	-	-
			1.000	25.40	416.52	620.48	-	-
			1.062	26.97	441.64	657.78	-	-
			1.125	28.58	467.08	695.92	-	-
			1.188	30.18	492.44	733.68	-	-
1.250	31.75	517.31	770.62	-	-			



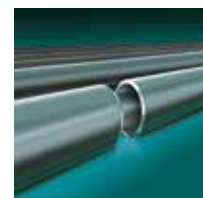


Nominal O.D.	O.D.		W.T.		Mass		Designation	
	inches	mm	inches	mm	lb/ft	Kg/m	Class	Schedule

<b>42</b>	42.000	<b>1067</b>	0.375	9.53	166.71	248.52	STD	-
			0.406	10.31	180.35	268.66	-	-
			0.438	11.13	194.42	289.80	-	-
			0.469	11.91	208.03	309.88	-	-
			0.500	12.70	221.61	330.19	XS	20
			0.562	14.27	248.72	370.45	-	-
			0.625	15.88	276.16	411.62	-	30
			0.688	17.48	303.55	452.40	-	40
			0.750	19.05	330.41	492.30	-	-
			0.812	20.62	357.19	532.07	-	-
			0.875	22.23	384.31	572.73	-	-
			0.938	23.83	411.35	613.02	-	-
			1.000	25.40	437.88	652.42	-	-
			1.062	26.97	464.32	691.70	-	-
			1.125	28.58	491.11	731.86	-	-
			1.188	30.18	517.82	771.64	-	-
1.250	31.75	544.01	810.55	-	-			

<b>44</b>	44.000	<b>1118</b>	0.375	9.53	174.72	260.50	STD	-
			0.406	10.31	189.03	281.62	-	-
			0.438	11.13	203.78	303.80	-	-
			0.469	11.91	218.04	324.80	-	-
			0.500	12.70	232.29	346.16	XS	20
			0.562	14.27	260.72	388.40	-	-
			0.625	15.88	289.53	431.59	-	30
			0.688	17.48	318.25	474.37	-	40
			0.750	19.05	346.43	516.26	-	-
			0.812	20.62	374.53	558.00	-	-
			0.875	22.23	403.00	600.69	-	-
			0.938	23.83	431.39	642.99	-	-
			1.000	25.40	459.24	684.37	-	-
			1.062	26.97	487.01	725.62	-	-
			1.125	28.58	515.14	767.80	-	-
			1.188	30.18	543.19	809.60	-	-
1.250	31.75	570.71	850.48	-	-			





W.T.																O.D.			
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20	22.2	25	28	30	32	36	40	45	50	55	60	65	70	80	90	100	1	2	3



WELDED PIPES  
(EN 10217)



BOTH WELDED  
(EN 10217)  
AND SEAMLESS PIPES  
(EN 10216)



SEAMLESS PIPES  
(EN 10216)

## STOCK FACILITY

### STEELGRADES

Our standard stock consists in the following steelgrades:

<b>API 5L PSL 1</b>	<b>Gr. B, Gr. X42, Gr. X52</b>
<b>ASTM A 53 / ASME SA 53</b>	<b>Gr. B</b>
<b>ASTM A 106 / ASME SA 106</b>	<b>Gr. B</b>
<b>ASTM A 333 / ASME SA 333</b>	<b>Gr. 6</b>
<b>ASTM A 335 / ASME SA 335</b>	<b>Gr. P11, Gr. P91</b>

Upon request it is possible to supply material in other steelgrades (see steels table).

### SIZES

Our standard stock consists only of **seamless pipes** in the following size ranges:

<b>API 5L PSL 1</b>	<b>O.D. from mm 13.7 to 610</b>
<b>ASTM A53 / ASME SA53</b>	<b>W.T. from mm 3.02 to 31.75</b>
<b>ASTM A106 / ASME SA106</b>	
<b>ASTM A333 / ASME SA333</b>	<b>O.D. from mm 13.7 to 610</b>
	<b>W.T. from mm 2.77 to 20.62</b>
<b>ASTM A335 / ASME SA335</b>	<b>O.D. from mm 21.3 to 273</b>
	<b>W.T. from mm 2.77 to 12.7</b>

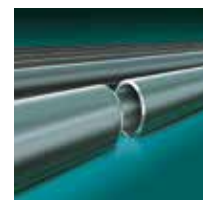
### CERTIFICATES

Mill test certificates (3.1 EN 10204) can be supplied with all deliveries. For all pipes without special surface treatments, traceability is granted by the manufacturer's paint marking.

### IMPACT TEST

It is possible to supply from stock material with **LONGITUDINAL IMPACT TEST AT 0°C OR - 10°C**, even if not foreseen by the product norms. Material with impact test at other temperatures can be supplied on request.





## SURFACE PROTECTIONS

Our standard stock consists of hot rolled pipes with temporary surface external coating and HOT DIP GALVANIZED (ASTM A53) pipes.

It is possible to supply pipes with the following protections / treatments:

normal or heavy bitumen coating  
polyethylene, epoxy resin, primer coating, sandblasting, pickling, oiling, ecc.

## LENGTHS

Tubes are available in:

single random lengths (4 – 8 m) and  
double random lengths (8 – 13 m)

## PIPE ENDS

Pipe ends are according to API 5L:

plain ends for pipes with O.D. < 60.3 mm

bevelled ends for pipes with O.D.  $\geq$  60.3 mm,

pipes with bevelled ends are supplied with plastic caps.

It is possible to supply pipes with threaded and coupled ends (thread according to ANSI B1.20.1 NPT; coupling NPT 3000).

## PACKING

Tubes are loose or in bundles tightened with iron strips or steel bands, according to sizes.

## DELIVERIES

Inland, through carriers.



**CERTIFICATE OF APPROVAL**

This is to certify that the Quality Management System of:

**S.I.C.A.M. S.p.A.**  
**Via Marziana, 21**  
**27020 Parona Lomellina (Pavia) – Italia**

has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standards:

**ISO 9001:2008**

The Quality Management System is applicable to:

Stockholding of carbon steel pipes and tubes, hollow sections, hollow bars, chrome plating bars and solid bars for Italian and foreign companies active in the mechanical and lift equipment industry, civil and industrial construction industry, in the field of cylinders, pneumatics and hydraulics and in the petrochemical and plant design industry.

**Transferring of traceability reference on the above mentioned product, upon client's demand**

This certificate is valid only in association with the certificate schedule bearing the same number which the locations applicable to this approval are listed.

Approval Certificate  
 No: LRC 0160006/QMS/UEJN

Original Approval: 12<sup>th</sup> December 1995

Current Certificate: 14<sup>th</sup> February 2014

Certificate Expiry: 11<sup>th</sup> December 2016

Ernesto de' Rossi  
 issued by: Lloyd's Register Quality Assurance Italy Srl  
 for and on behalf of Lloyd's Register Quality Assurance Limited



This document is subject to the provisions below:  
 Via Caltana, 89 - 20090 Vincovone (MI)  
 For and on behalf of Hagerford, Middlemarsh, Ditch Village, Epsom Down, Camerly, CV3 4FL, United Kingdom.  
 This approval is conditional on compliance with the 2008 assessment and certification conditions and monitoring by LRQA.  
 The use of the LRQA Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001

Lloyd's Register Quality Assurance, its affiliates and subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and their respective offices, employees and contractors, and Lloyd's Register Quality Assurance Limited (LRQA) and their respective offices, employees and contractors, shall not be held responsible for any loss, damage or injury resulting from any reliance on the information contained in this document or any other document issued by LRQA, its affiliates or subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and their respective offices, employees and contractors, unless the user can demonstrate that the information contained in this document or any other document issued by LRQA, its affiliates or subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and their respective offices, employees and contractors, was negligent or fraudulent.

**CERTIFICATO DI APPROVAZIONE**

Si certifica che il Sistema di Gestione per la Qualità di:

**S.I.C.A.M. S.p.A.**  
**Via Marziana, 21**  
**27020 Parona Lomellina (Pavia) - Italia**

è stato approvato dal Lloyd's Register Quality Assurance Italy Srl per conformità alle seguenti norme di gestione:

**UNI EN ISO 9001:2008**

Il Sistema di Gestione per la Qualità si applica a:

Commercializzazione con deposito di tubi in acciaio al carbonio, profilati cavi chiusi, barre forate, barre cromate e tondi, per aziende operanti nei settori dell'industria meccanica, della cilindrica, dell'oleodinamica e della pneumatica, dell'industria del petrolio, della petrolchimica e dell'impiantistica, delle costruzioni meccaniche, metalliche civili e industriali e del sollevamento, sia italiane che estere.

**Riporto di riferimenti di rintracciabilità sui prodotti sopra citati, su richiesta del cliente.**

La validità di questo certificato è vincolata all'allegato dello stesso numero che elenca le ubicazioni oggetto dell'approvazione.

Certificato di Approvazione  
 N.: LRC 0160006/QMS/AIT

Approvazione Originaria: 12 Dicembre 1995

Certificato Attuale: 14 Febbraio 2014

Settore EA: 17 - 29 - 31

Scadenza Certificato: 11 Dicembre 2016

Ernesto de' Rossi  
 issued by: Lloyd's Register Quality Assurance Italy Srl



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Questo documento è soggetto alle condizioni sotto riportate

Via Caltana 89 - 20090 Vincovone (MI)  
 L'approvazione è soggetta al mantenimento, da parte del cliente, delle condizioni del sistema alla norma nel suo funzionamento in parte del LRQA.

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Edition  
January 2016



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