

CONDUCTION PIPE

BARE STEEL, VARNISHED OR GALVANIZED



VILLACERO

TODO EN ACERO

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Steel pipe with longitudinal welding and coupling for the conduction of water, steam, air and gas. Manufacturing process in cold or hot forming, under strict quality standards that ensure compliance with the requirements of national and international norms and standards. It has a high resistance to corrosion and is subjected to various tests such as: UT, Eddy Currents and Hydrostatic Test that ensure its quality. It has high resistance to elongation, supports structural movements and is easy to mold, thanks to its strength and malleability, it also does not require maintenance. Certificate with Certimex-Conagua.

CHARACTERISTICS

- Diameters from 15 to 100 mm (1/2 "to 4") in bare steel, galvanized or varnished pipe
- Diameters from 15 to 150 mm (1/2 "to 6") in bare steel and varnished pipe.
- On wall C-40, C-80.
- With standard lengths of 6.40 m.
- The finishes are smooth, beveled and threaded.
- Meets and exceeds standards NMX-B-177 and ASTM-A-53.

USES AND APPLICATIONS

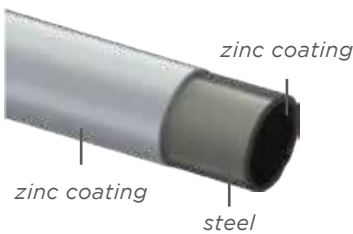
- Conduction of liquids and gases.
- Residential and industrial construction
- Construction of dams and drainages
- Warehouses, buildings, bridges,
- Hospitals and restaurants.

TECHNICAL INFORMATION

Dimensions and characteristics NMX-B-177 (ASTM-A-53), certificate Certimex CP-2186-2015 and CP-2187-2015..

DESIGNATION		SHEDULE	EXTERNAL DIAMETER		THICKNESS		HYDROSTATIC PRESSURE		WEIGHT		BARE WEIGHT	GALVANIZED WEIGHT	BARE WEIGHT	PACKING
mm	in		mm	in	mm	in	kg / cm2	lb / in2	kg / m	lb / ft	kg x 6.40 m	kg x 6.40 m	kgs x Bundle	pipes x Bundle
15	1/2	40	21.34	0.840	2.77	0.109	49	700	1.27	0.85	8.11	8.36	1030	127
		80	21.34	0.840	3.73	0.147	60	850	1.62	1.09	10.37	10.68	1317	127
20	3/4	40	26.67	1.050	2.87	0.113	49	700	1.68	1.13	10.78	11.10	1369	127
		80	26.67	1.050	3.91	0.154	60	850	2.20	1.48	14.05	14.47	1784	127
25	1	40	33.40	1.315	3.38	0.133	49	700	2.50	1.68	16.01	16.49	1457	91
		80	33.40	1.315	4.55	0.179	60	850	3.24	2.17	20.70	21.33	1884	91
32	1 1/4	40	42.16	1.660	3.56	0.140	70	1000	3.39	2.27	21.67	22.32	1972	91
		80	42.16	1.660	4.85	0.191	105	1500	4.46	3.00	28.57	29.43	1743	61
40	1 1/2	40	48.26	1.900	3.68	0.145	70	1000	4.05	2.72	25.91	26.69	2358	91
		80	48.26	1.900	5.08	0.200	105	1500	5.41	3.63	34.62	35.66	2112	61
50	2	40	60.33	2.375	3.91	0.154	162	2300	5.44	3.66	34.83	35.87	2124	61
		80	60.33	2.375	5.54	0.218	176	2500	7.48	5.03	47.88	49.32	1772	37
65	2 1/2	40	73.03	2.875	5.16	0.203	176	2500	8.63	5.80	55.23	56.89	2044	37
80	3	40	88.90	3.500	5.49	0.216	155	2200	11.29	7.58	72.23	74.39	1372	19
100	4	40	114.30	4.500	6.02	0.237	134	1900	16.07	10.80	102.87	105.96	1955	19
150	6	40	168.28	6.625	7.11	0.280	105	1500	28.27	18.99	180.90	186.32	1809	10

Note: Tolerances in outer diameter and thickness based on corresponding standards.



Physical and chemical requirements

REQUIREMENTS	ASTM-A53	
	NMX-B-177	
	GRADE A	GRADE B
Minimum tensile strength kg / cm2 (lb / in2)	3375 (48,000)	4219 (60,000)
Minimum Yield Point, kg / cm2 (lb / in2)	2109 (30,000)	2461 (35,000)
% Minimum elongation in 50mm (2 ")	Calculate	

MAXIMUM%	Grade A	Grade B
Carbon	0.250	0.300
Manganese	0.950	1.200
Phosphorus	0.050	0.050
Sulfur	0.045	0.045
Copper	0.400	0.400
Nickel	0.400	0.400
Chrome	0.400	0.400
Molybdenum	0.150	0.150
Vanadium	0.080	0.080

Dimensions and characteristics of the pipe for cople ASTM A-865

DESIGNATION		OUTSIDE DIAMETER		THICKNESS		HYDROSTATIC PRESSURE		WEIGHT				PACKAGING	
mm	in	mm	in	mm	in	kg / cm ²	lb / in ²	lb / ft	lb / ft	kg x 6.40 m	lb x 21 ft	kgs x bundle	pipes x bundle
15	1/2	26.67	1.050	4.37	0.172	70	1000	1.61	1.61	15.38	33.90	1399	91
20	3/4	33.40	1.315	5.21	0.205	70	1000	2.43	2.43	23.17	51.08	2108	91
25	1	40.03	1.576	5.33	0.210	70	1000	3.07	3.07	29.21	64.40	1782	61
32	1 1/4	48.26	1.900	5.46	0.215	100	1420	3.87	3.87	36.89	81.33	1365	37
40	1 1/2	55.88	2.200	6.22	0.245	100	1420	5.12	5.12	48.77	107.53	1756	36
50	2	69.85	2.750	7.11	0.280	100	1420	7.39	7.39	70.42	155.26	1408	20

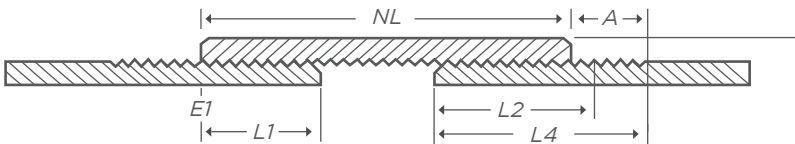
Dimensions and characteristics of the thread in the std pipe and in cople - ANSI B1.20.1

PIPE				THREADS								COPLES					
DESIGNATION		EXTERNAL DIAMETER		THRE-ADS	EXTREME OF PIPE HAND TIGHT		EFFECTIVE LENGTH		TOTAL LENGTH		DIAMETER OF THE STEP IN THE PLANE HAND-TIGHTENED		EXTERNAL DIAMETER		LENGTH		NUMBER OF THREADS TIGHTENED BY HAND
NPS		D			L1		L2		L4		E1		W		NL		
mm	in	mm	in		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
15	1/2	21.34	0.840	14	8.13	0.320	13.56	0.534	19.85	0.782	19.77	0.778	27	1.063	38	1 1/2	5
20	3/4	26.67	1.050	14	8.61	0.339	13.86	0.546	20.15	0.794	25.12	0.989	33.35	1.313	39 2/3	1 9/16	5
25	1	33.40	1.315	11 1/2	10.16	0.400	17.34	0.683	25.01	0.985	31.46	1.239	40.03	1.576	49 1/5	1 15/16	5
32	1 1/4	42.16	1.660	11 1/2	10.67	0.420	17.95	0.707	25.62	1.009	40.22	1.583	48.26	1.900	50 4/5	2	5
40	1 1/2	48.26	1.900	11 1/2	10.67	0.420	18.38	0.724	26.04	1.025	46.29	1.822	55.88	2.200	50 4/5	2	5 1/2
50	2	60.33	2.375	11 1/2	11.07	0.436	19.22	0.757	26.88	1.058	58.33	2.296	69.85	2.750	52 2/5	2 1/16	5 1/2
65	2 1/2	73.03	2.875	8	17.32	0.682	28.89	1.138	39.91	1.571	70.16	2.762	82.55	3.250	77 4/5	3 1/16	5 1/2
80	3	88.90	3.500	8	19.46	0.766	30.48	1.200	41.5	1.634	86.07	3.389	101.6	4.000	79 3/8	3 1/8	5 1/2
100	4	114.30	4.500	8	21.44	0.844	33.02	1.300	44.04	1.733	111.43	4.387	127	5.000	87 1/3	3 7/16	5

Coples

DESIGNACIÓN NPS		EXTERNAL DIAMETER		LENGTHS		NUMBER OF THREADS TIGHTENED BY HAND
		W		NL		
		mm	in	mm	in	
15	1/2	27	1.063	38	1 1/2	5
20	3/4	33	1.313	48	1 9/16	5
25	1	40	1.576	49	1 15/16	5
32	1 1/4	48	1.900	50	2	5
40	1 1/2	56	2.200	50	2	5 1/2
50	2	70	2.750	52	2 1/16	5 1/2

Threading Chart



Nomenclature of specifications corresponding to the above tables



PROCESSES CERTIFIED
UNDER ISO 9001: 2015 STANDARD
ISO 2754 - Plant TUNA



PROCESSES CERTIFIED
UNDER THE Q1 API NORM ed. 9
Q1-2621- Plant TUNA



CONAGUA CERTIFICATE
CERTIMEX CMX-CP-2540-2017



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