

CAÑERÍA ASTM A53 Gr. A-B

20" a 26"

Diámetro Nominal Cañería IPS ²⁾	Identificación IPS ²⁾ Número Schedule		Dimensiones			Pesos		Superficies		Secciones		Momento Inercia	Módulo Resistente	Radio Giro	Presión Prueba A	Presión Prueba B
			Diámetros		Espesor	Cañería ³⁾	Agua en ⁴⁾ la Cañería	Exterior ⁵⁾	Interior ⁶⁾	Transversales						
			Exterior	Interior						Fluido ⁷⁾	Metal ⁸⁾					
mm	mm	mm	kgf/m	kgf/m	m ² /m	m ² /m	cm ²	cm ²	m ⁴	cm ²	cm	kgf/cm ²	kgf/cm ²			
20	STD	10	508	495.3	6.35	78.55	192.68	1.5959	1.5560	1926.8	100.07	31485.1	1240	17.74	31.7	36.6
			508	493.72	7.14	88.19	191.45	1.5959	1.5511	1914.5	112.35	35263.7	1387	17.71	35.9	41.5
			508	492.16	7.92	97.67	190.24	1.5959	1.5462	1902.4	124.43	38905.6	1532	17.68	39.4	46.5
			508	490.52	8.74	107.6	188.97	1.5959	1.5410	1889.7	137.8	47725.3	1682	17.65	43.7	50.7
		508	488.96	9.52	117.02	187.77	1.5959	1.5361	1877.7	149.09	46323.2	1824	17.63	47.9	55.6	
		508	487.38	10.31	126.53	186.56	1.5959	1.5311	1865.6	161.20	49932.3	1966	17.60	51.4	59.9	
		508	485.74	11.13	136.37	185.31	1.5959	1.5260	1853.1	173.74	53641.5	2112	17.57	55.6	64.8	
		508	484.18	11.91	145.7	184.12	1.5959	1.5211	1841.2	185.62	57135.1	2249	17.54	59.9	66.9	
	XS	30	508	482.6	12.7	155.12	182.92	1.5959	1.5161	1829.2	197.62	60639.3	2387	17.52	63.4	73.9
			508	477.82	15.09	183.42	179.32	1.5959	1.5011	1793.2	233.67	71032.8	2797	17.44	82.4	88.0
			508	466.76	20.62	247.83	171.11	1.5959	1.4664	1711.1	315.72	93913.6	3697	17.25	102.8	120.4
			508	455.62	26.19	311.17	163.4	1.5959	1.4314	1630.4	396.43	115373.0	4542	17.06	131.0	152.8
		508	442.92	32.54	381.53	153.08	1.5959	1.3915	1540.8	486.05	137990.4	5433	16.85	162.7	189.4	
		508	431.8	38.1	441.49	146.44	1.5959	1.3565	1464.4	562.45	156259.7	6152	16.67	190.1	197.2	
		508	419.1	44.45	508.11	135.95	1.5959	1.3166	1379.5	647.32	175467.4	6908	16.46	197.2	197.2	
		508	407.98	50.01	564.81	130.73	1.5959	1.2817	1307.3	719.55	190911.6	7516	16.29	197.2	197.2	
24	STD	10	609.6	596.9	6.35	94.46	279.83	1.9151	1.8752	2798.3	120.34	54748.7	1796	21.33	26.8	31.0
			609.6	595.32	7.14	106.08	278.35	1.9151	1.8703	2783.5	135.14	61320.2	2012	21.30	29.6	34.5
			609.6	593.76	7.92	117.51	276.89	1.9151	1.8654	2768.9	149.71	67757.4	2223	21.27	33.1	38.7
			609.6	592.12	8.74	129.5	275.37	1.9151	1.8602	2753.7	164.98	74470.3	2443	21.25	36.6	42.3
		609.6	590.56	9.52	140.88	273.92	1.9151	1.8553	2739.2	179.47	80804.1	2651	21.22	39.4	46.5	
		609.6	588.98	10.31	152.37	272.45	1.9151	1.8503	2724.5	194.11	87168.2	2860	21.19	43.0	50.0	
		609.6	587.34	11.13	164.26	270.94	1.9151	1.8452	2709.4	209.26	93720.0	3075	21.16	46.5	54.2	
		609.6	585.78	11.91	175.54	269.50	1.9151	1.8403	2695.0	223.63	99901.5	3278	21.14	49.3	57.7	
	XS	30	609.6	584.2	12.7	186.94	268.05	1.9151	1.8353	2680.5	238.15	106112.1	3481	21.11	52.8	62.0
			609.6	581.06	14.27	209.5	265.17	1.9151	1.8255	2651.7	266.89	118306.0	3881	21.05	59.2	69.0
			609.6	574.64	17.48	255.24	259.35	1.9151	1.8053	2593.5	325.16	142629.3	4679	20.94	72.5	84.5
			609.6	561.94	23.83	344.23	248.01	1.9151	1.7654	2480.1	438.53	188401.1	6181	20.73	99.3	115.5
		609.6	560.38	24.61	355.02	246.64	1.9151	1.7605	2466.4	452.28	193813.8	6359	20.70	102.1	119.7	
		609.6	547.68	30.96	441.78	235.58	1.9151	1.7206	2355.8	562.81	236226.0	7750	20.49	128.9	150.0	
		609.6	531.82	38.89	547.33	222.14	1.9151	1.6708	2221.4	397.27	285204.4	9357	20.22	162.0	188.7	
		609.6	517.56	46.02	639.58	210.38	1.9151	1.6260	2103.8	814.80	325656.2	10684	19.99	191.5	197.2	
140	609.6	504.86	52.37	719.63	200.19	1.9151	1.5861	2001.9	916.78	358975.7	11777	19.79	197.2	197.2		
		609.6	490.52	59.54	807.63	188.97	1.9151	1.5410	1889.7	1028.89	393693.0	12916	19.56	197.2	197.2	
		609.6	477.82	66.71	900.13	178.11	1.9151	1.4961	1781.1	1142.00	428410.3	14055	19.33	197.2	197.2	
		609.6	466.76	74.01	1000.00	168.00	1.9151	1.4512	1680.0	1255.11	463627.6	15194	19.10	197.2	197.2	
	160	609.6	455.62	81.28	1100.00	158.00	1.9151	1.4063	1580.0	1368.22	500044.9	16333	18.87	197.2	197.2	
		609.6	444.56	88.58	1200.00	148.00	1.9151	1.3614	1480.0	1481.33	537462.2	17472	18.64	197.2	197.2	
		609.6	433.50	95.88	1300.00	138.00	1.9151	1.3165	1380.0	1594.44	574879.5	18611	18.41	197.2	197.2	
		609.6	422.44	103.18	1400.00	128.00	1.9151	1.2716	1280.0	1707.55	612296.8	19750	18.18	197.2	197.2	
26	STD	10	660.4	647.7	6.35	102.42	329.49	2.0747	2.0348	3294.9	130.48	69776.2	2113	23.13	24.6	28.2
			660.4	646.12	7.14	115.02	327.88	2.0747	2.0298	3278.8	146.53	78175.1	2368	23.10	27.5	31.7
			660.4	644.56	7.92	127.43	326.30	2.0747	2.0249	3263.0	162.35	86407.3	2617	23.07	30.3	35.2
			660.4	642.92	8.74	140.45	324.64	2.0747	2.0198	3246.4	178.93	94997.6	2877	23.04	33.8	39.4
		660.4	641.36	9.52	152.8	323.07	2.0747	2.0149	3230.7	194.66	103108.0	3123	23.01	36.6	43.0	
		660.4	639.78	10.31	165.28	321.48	2.0747	2.0099	3214.8	210.56	111262.3	3370	22.99	39.4	46.5	
		660.4	638.14	11.13	178.2	319.83	2.0747	2.0048	3198.3	227.02	119662.7	3624	22.96	43.0	50.0	
		660.4	636.58	11.91	190.46	318.27	2.0747	1.9999	3182.7	242.64	127593.3	3864	22.93	45.8	53.5	
	XS	20	660.4	635	12.7	202.85	316.69	2.0747	1.9949	3166.9	258.42	135566.5	4106	22.90	48.6	57.0
			660.4	631.86	14.27	227.37	313.57	2.0747	1.9850	3135.7	289.66	151236.1	4580	22.85	54.9	64.1
			660.4	620.80	15.75	252.89	310.11	2.0747	1.9751	3105.5	320.90	165461.6	5054	22.80	61.8	73.0
			660.4	609.74	17.23	278.41	306.65	2.0747	1.9652	3065.3	352.14	179687.1	5528	22.75	69.7	84.9
		660.4	598.68	18.71	303.93	303.19	2.0747	1.9553	3035.1	383.38	193912.6	6002	22.70	78.6	99.8	
		660.4	587.62	20.19	329.45	300.00	2.0747	1.9454	3005.0	414.62	208138.1	6476	22.65	87.5	114.7	
		660.4	576.56	21.67	354.97	296.81	2.0747	1.9355	2964.8	445.86	222363.6	6950	22.60	96.4	130.6	
		660.4	565.50	23.15	380.49	293.62	2.0747	1.9256	2934.7	477.10	236589.1	7424	22.55	105.3	146.5	

1) Tamaño nominal cañería : NPS (Nominal Pipe Size)

2) IPS: Iron Pipe Size

3) Peso de la cañería (de acero) vacía por unidad de largo

4) Peso del agua que puede estar contenida en la cañería por unidad de largo (para otro fluido multiplicar por su densidad para obtener el peso correspondiente)

5) Superficie exterior de la cañería por unidad de largo = $\pi \cdot D_{ext}/1000$

6) Superficie interior de la cañería por unidad de largo = $\pi \cdot D_{int}/1000$

7) Area transversal del interior de la cañería = $\pi \cdot D_{int}^2/400$

8) Area transversal del anillo metálico que constituye la cañería = $\pi \cdot (D_{ext}^2 - D_{int}^2) / 400$