



GEOSTEEL

Ingeniería Inteligente



TUBERÍAS LISA HDPE

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Estas tuberías lisas son producidas de Polietileno de Alta densidad que sirve para conducir fluidos a presión como líquidos y gases.

VENTAJAS:

- Es resistente a la abrasión y corrosión.
- Estabilidad a la intemperie
- Escasa pérdida por roce
- Atóxico
- Bajo efecto de incrustación
- Bajo peso
- Larga vida útil
- Es flexible y se adapta a la superficie del suelo.



*Están diseñadas para conducir fluidos a presión.

*Fabricadas desde 32mm hasta 2,000mm de diámetro, en normas ISO 4427:2008. Y ASTM F-714:2012.

USOS:



*Plantas de extracción e solventes.



*Desagües.



*Rack de tuberías.



*Conducciones presurizadas.



*Conducción de gas (por llegar a altas presiones – 200 psi).



*Emisarios submarinos.



*Transportes hidráulicos relaves, otros.

ESPECIFICACIONES PARA TUBOS SEGÚN ASTM F714

Presión de Trabajo			SDR 32.5		SDR 26		SDR 21		SDR 17		SDR 15.5	
			51 PSI		64 PSI		80 PSI		100 PSI		110 PSI	
			63 PSI		80 PSI		100 PSI		125 PSI		138 PSI	
Diam. Nominal mm	Diam. Prom. pulg	Diam. Exterior mm	Diám. Int. mm	Esp. mm	Diám. Int. mm	Esp. mm	Diám. Int. mm	Esp. mm	Diám. Int. mm	Esp. mm	Diám. Int. mm	Esp. mm
Ø pulg (mm)	Promedio	Promedio	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN
1/2"	0.840"	21.34	17.08	1.57	17.08	1.57	17.08	1.57	17.08	1.57	17.08	1.57
3/4"	1.050"	26.70	22.44	1.57	22.44	1.57	22.44	1.57	22.4	1.57	22.1	1.73
1"	1.315"	33.40	29.11	1.57	29.11	1.57	29.1	1.60	28.3	1.96	27.9	2.16
1 1/4"	1.660"	42.20	37.91	1.57	37.8	1.63	37.0	2.01	36.1	2.49	35.6	2.72
1 1/2"	1.900"	48.30	44.0	1.57	43.4	1.85	42.6	2.29	41.5	2.84	40.9	3.12
2"	2.375"	60.30	55.4	1.85	54.5	2.31	53.4	2.87	52.0	3.56	51.4	3.89
3"	3.500"	88.90	82.0	2.74	80.6	3.43	79.0	4.24	76.8	5.23	75.6	5.74
4"	4.500"	114.30	105.8	3.51	104.0	4.39	101.6	5.44	98.7	6.73	97.3	7.37
6"	6.625"	168.28	155.9	5.18	153.0	6.48	149.6	8.00	145.3	9.91	143.2	10.85
8"	8.625"	219.08	203.0	6.73	199.2	8.43	194.7	10.44	189.2	12.68	186.4	14.12
10"	10.750"	273.05	253.0	8.41	248.3	10.49	242.7	13.00	235.9	16.05	232.4	17.63
12"	12.750"	323.85	300.1	9.96	294.5	12.45	287.9	15.42	279.7	19.05	275.6	20.90
14"	14.000"	355.60	329.5	10.95	323.4	13.67	316.1	16.94	307.1	20.93	302.6	22.94
16"	16.000"	406.40	376.6	12.50	369.6	15.62	361.3	19.35	351.0	23.90	345.9	26.21
18"	18.000"	457.20	423.6	14.07	415.8	17.58	406.4	21.77	394.9	26.90	389.1	29.49
20"	20.000"	508.00	470.7	15.62	462.0	19.53	451.6	24.18	438.8	29.87	432.3	32.77
22"	22.000"	558.80	517.8	17.20	508.1	21.49	496.6	26.62	482.7	32.87	475.6	36.04
24"	24.000"	609.60	564.8	18.75	554.3	23.44	541.8	29.03	526.6	35.86	518.8	39.32
26"	26.000"	660.40	611.9	20.32	600.5	25.40	587.0	31.45	570.4	38.84	562.0	42.60
28"	28.000"	711.20	659.0	21.89	646.7	27.36	632.2	33.86	614.3	41.83	605.2	45.87
30"	30.000"	762.00	706.1	23.44	692.9	29.31	677.3	36.30	658.2	44.83	648.5	49.15
32"	32.000"	812.80	753.1	25.02	739.1	31.27	722.4	38.71	702.1	47.80	691.6	52.45
34"	34.000"	863.60	800.2	26.57	785.3	33.22	767.6	41.12	745.9	50.80	734.9	55.73
36"	36.000"	914.40	847.2	28.14	831.5	35.18	812.7	43.54	789.8	53.80	778.1	59.00

ESPECIFICACIONES PARA TUBOS SEGÚN ASTM F714

Presión de Trabajo	PE 80	SDR 41		SDR 33		SDR 26		SDR 21		SDR 17	
	PE 100	PN 3.2 (46.4 PSI)		PN 4 (58 PSI)		PN 5 (72.5 PSI)		PN 6 (87 PSI)		PN 8 (116 PSI)	
		PN 4 (72.5 PSI)		PN 5 (72.5 PSI)		PN 6 (87 PSI)		PN 8 (116 PSI)		PN 10 (145 PSI)	
Diám. Nominal mm	Diám. Prom. pulg	Diám. Int. mm	Esp. mm	Diám. Int. mm	Esp. mm	Diám. Int. mm	Esp. mm	Diám. Int. mm	Esp. mm	Diám. Int. mm	Esp. mm
Ø pulg (mm)	Promedio	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN
16		-	-	-	-	-	-	-	-	-	-
20	1/2"	-	-	-	-	-	-	-	-	-	-
25	3/4"	-	-	-	-	-	-	-	-	-	-
32	1"	-	-	-	-	-	-	-	-	27.4	2.00
40	1 1/4"	-	-	-	-	-	-	35.4	2.00	34.4	2.40
50	1 1/2"	-	-	-	-	45.4	2.00	44.4	2.40	43.2	3.00
63	2"	-	-	-	-	57.2	2.50	56.2	3.00	54.4	3.80
75	2 1/2"	-	-	-	-	68.4	2.90	66.8	3.60	64.8	4.50
90	3"	-	-	-	-	82.0	3.50	80.2	4.30	77.8	5.40
110	4"	-	-	-	-	100.4	4.20	98.0	5.30	95.2	6.60
125	5"	-	-	-	-	114.2	4.80	111.6	6.00	108.4	7.40
140	5 1/2"	-	-	-	-	127.8	5.40	125.0	6.70	121.4	8.30
160	6"	-	-	-	-	146.0	6.20	142.8	7.70	138.8	9.50
180	7"	-	-	-	-	164.6	6.90	160.8	8.60	156.2	10.70
200	8"	-	-	-	-	182.8	7.70	178.6	9.60	173.6	11.90
225	9"	-	-	-	-	205.8	8.60	201.0	10.80	195.2	13.40
250	10"	-	-	-	-	228.6	9.60	223.6	11.90	217.2	14.80
280	11"	-	-	-	-	256.2	10.70	250.2	13.40	243.2	16.60
315	12"	297.8	7.70	293.4	9.70	288.0	12.10	281.8	15.00	273.6	18.70
355	14"	335.6	8.70	330.8	10.90	324.8	13.60	317.6	16.90	308.2	21.10
400	16"	378.2	9.80	372.6	12.30	366.0	15.30	357.6	19.10	347.6	23.70
450	18"	425.6	11.00	419.4	13.80	411.8	17.20	402.4	21.50	391.0	26.70
500	20"	472.6	12.30	466.0	15.30	457.6	19.10	447.2	23.90	434.4	29.70
560	22"	529.6	13.70	521.8	17.20	512.6	21.40	501.0	26.70	486.6	33.20
630	24"	595.8	15.40	587.2	19.30	576.6	24.10	563.8	30.00	547.4	37.40
710	28"	671.4	17.40	661.8	21.80	649.8	27.20	635.2	33.90	617.0	42.10
800	32"	756.6	19.60	745.8	24.50	732.4	30.60	715.8	38.10	695.4	47.40
900	36"	851.4	22.00	839.0	27.60	823.4	34.40	805.4	42.90	782.4	53.30
1000	40"	945.8	24.50	933.0	30.60	915.6	38.20	894.8	47.70	869.2	59.30

ESPECIFICACIONES PARA TUBOS SEGÚN NTP ISO 4427-2

		SDR 13.6		SDR 11		SDR 9		SDR 7.4		SDR 6	
Presión de Trabajo	PE 80	PN 10 (145 PSI)		PN 12.5 (181 PSI)		PN 16 (232 PSI)		PN 20 (290 PSI)		PN 25 (362.6 PSI)	
	PE 100	PN 12.5 (181 PSI)		PN 16 (232 PSI)		PN 20 (290 PSI)		PN 25 (362.6 PSI)		---	
Diám. Nominal mm	Diám. Prom. pulg	Diám. Int. mm	Esp. mm	Diám. Int. mm	Esp. mm	Diám. Int. mm	Esp. mm	Diám. Int. mm	Esp. mm	Diám. Int. mm	Esp. mm
Ø pulg (mm)	Promedio	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN
16		-	-	-	-	11.4	2.00	10.6	2.30	9.2	3.00
20	1/2"	-	-	15.4	2.00	14.6	2.30	13.2	3.00	12.2	3.40
25	3/4"	20.4	2.00	19.6	2.30	18.2	3.00	17.0	3.50	15.4	4.20
32	1"	26.4	2.40	25.2	3.00	23.8	3.60	22.0	4.40	19.8	5.40
40	1 1/4"	33.0	3.00	31.6	3.70	29.8	4.50	27.6	5.50	25.0	6.70
50	1 1/2"	41.6	3.70	39.6	4.60	37.4	5.60	34.6	6.90	31.4	8.30
63	2"	52.4	4.70	50.0	5.80	47.0	7.10	43.8	8.60	39.6	10.50
75	2 1/2"	62.4	5.60	59.8	6.80	56.2	8.40	52.0	10.30	47.2	12.50
90	3"	75.0	6.70	71.6	8.20	67.4	10.10	62.6	12.30	56.6	15.00
110	4"	91.8	8.10	87.8	10.00	82.6	12.30	76.4	15.10	69.4	18.30
125	5"	104.4	9.20	99.6	11.40	93.8	14.00	87.0	17.10	79.0	20.80
140	5 1/2"	117.0	10.30	111.8	12.70	105.2	15.70	97.4	19.20	88.4	23.30
160	6"	133.8	11.80	127.6	14.60	120.4	17.90	111.6	21.90	101.2	26.60
180	7"	150.4	13.30	143.6	16.40	135.4	20.10	125.6	24.60	114.0	29.90
200	8"	167.4	14.70	159.6	18.20	150.4	22.40	139.4	27.40	126.6	33.20
225	9"	188.2	16.60	179.6	20.50	169.2	25.20	157.0	30.80	142.4	37.40
250	10"	209.2	18.40	199.8	22.70	188.4	27.90	174.4	34.20	158.4	41.50
280	11"	234.4	20.60	223.8	25.40	210.8	31.30	195.4	38.30	177.4	46.50
315	12"	263.6	23.20	251.8	28.60	237.2	35.20	219.8	43.10	199.6	52.30
355	14"	297.2	26.10	283.8	32.20	267.4	39.70	248.0	48.50	225.0	59.00
400	16"	335.0	29.40	319.8	36.30	301.4	44.70	279.4	54.70	-	-
450	18"	376.8	33.10	359.8	40.90	339.0	50.30	314.4	61.50	-	-
500	20"	418.8	36.80	399.8	45.40	377.0	55.80	-	-	-	-
560	22"	469.0	41.20	448.0	50.80	422.2	62.50	-	-	-	-
630	24"	527.8	46.30	503.8	57.20	475.0	70.30	-	-	-	-
710	28"	594.8	52.20	567.8	64.50	535.2	79.30	-	-	-	-
800	32"	670.4	58.80	640.0	72.60	603.2	89.30	-	-	-	-
900	36"	754.0	66.20	720.0	81.70	-	-	-	-	-	-
1000	40"	840.2	72.50	801.2	90.20	-	-	-	-	-	-

ESPECIFICACIONES PARA TUBOS SEGÚN API 15LE

Presión de Trabajo			SDR 32.5		SDR 26		SDR 21		SDR 17		SDR 15.5	
			51 PSI		64 PSI		80 PSI		100 PSI		110 PSI	
			63 PSI		80 PSI		100 PSI		125 PSI		138 PSI	
Diam. Nominal mm	Diam. Prom. pulg	Diam. Exterior mm	Díam. Int. mm	Esp. mm	Díam. Int. mm	Esp. mm	Díam. Int. mm	Esp. mm	Díam. Int. mm	Esp. mm	Díam. Int. mm	Esp. mm
Ø pulg (mm)	Promedio	Promedio	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN
1/2"	0.840"	21.34	17.08	1.57	17.08	1.57	17.08	1.57	17.08	1.57	17.08	1.57
3/4"	1.050"	26.67	22.41	1.57	22.41	1.57	22.41	1.57	22.4	1.57	22.1	1.73
1"	1.315"	33.40	29.11	1.57	29.11	1.57	29.1	1.60	28.3	1.96	27.9	2.16
1 1/4"	1.660"	42.16	37.87	1.57	37.8	1.63	37.0	2.01	36.0	2.49	35.6	2.72
1 1/2"	1.900"	48.26	44.0	1.57	43.4	1.85	42.5	2.29	41.4	2.84	40.9	3.12
2"	2.375"	60.33	55.5	1.85	54.5	2.31	53.4	2.87	52.0	3.56	51.4	3.89
2 1/2"	2.875"	73.00	67.3	2.24	66.2	2.82	64.8	3.48	63.2	4.29	62.3	4.70
3"	3.500"	88.90	82.2	2.74	80.8	3.43	79.2	4.24	77.0	5.23	75.8	5.74
4"	4.500"	114.30	106.0	3.51	104.2	4.39	101.9	5.44	99.0	6.73	97.6	7.37
5"	5.563"	141.30	131.3	4.34	128.9	5.44	126.0	6.73	122.5	8.31	120.6	9.12
6"	6.625"	168.28	156.4	5.18	153.5	6.48	150.1	8.00	145.8	9.91	143.7	10.85
8"	8.625"	219.08	203.6	6.73	199.8	8.43	195.3	10.44	189.8	12.88	187.1	14.12
10"	10.750"	273.05	253.8	8.41	249.2	10.49	243.6	13.00	236.7	16.05	233.2	17.63
12"	12.750"	323.85	301.1	9.96	295.5	12.45	288.9	15.42	280.7	19.05	276.6	20.90
14"	14.000"	355.60	329.5	10.95	323.4	13.67	316.1	16.94	307.1	20.93	302.6	22.94
16"	16.000"	406.40	376.6	12.50	369.6	15.62	361.3	19.35	351.0	23.90	345.9	26.21
18"	18.000"	457.20	423.7	14.07	415.8	17.58	406.4	21.77	394.9	26.90	389.1	29.49
20"	20.000"	508.00	470.7	15.62	462.0	19.53	451.6	24.18	438.8	29.87	432.3	32.77
22"	22.000"	558.80	517.8	17.20	508.1	21.49	496.7	26.62	482.7	32.87	475.6	36.04
24"	24.000"	609.60	564.8	18.75	554.3	23.44	541.8	29.03	526.6	35.86	518.8	39.32
26"	26.000"	660.40	611.9	20.32	600.5	25.40	587.0	31.45	570.4	38.84	562.0	42.60
28"	28.000"	711.20	659.0	21.89	646.7	27.36	632.2	33.86	614.3	41.83	605.2	45.87
30"	30.000"	762.00	706.1	23.44	692.9	29.31	677.3	36.30	658.2	44.83	648.5	49.15
32"	32.000"	812.80	753.1	25.02	739.1	31.27	722.4	38.71	702.1	47.80	691.6	52.45
34"	34.000"	863.60	800.2	26.57	785.3	33.22	767.6	41.12	745.9	50.80	734.9	55.73
36"	36.000"	914.40	847.3	28.14	831.5	35.18	812.8	43.54	789.8	53.80	778.1	59.00

ESPECIFICACIONES PARA TUBOS SEGÚN NTP-ISO 8772

Diámetros		SDR 33		SDR 26		SDR 21	
		SN 2		SN 4		SN 8	
Díam. Nominal mm	Díam. Prom. pulg	Díam. Int. mm	Esp. mm	Díam. Int. mm	Esp. mm	Díam. Int. mm	Esp. mm
Ø mm	Nominal	MIN	MIN	MIN	MIN	MIN	MIN
110	4"	-	-	100.2	4.20	97.8	5.30
125	5"	-	-	114.0	4.80	111.2	6.00
160	6"	148.80	4.90	145.8	6.20	142.6	7.70
200	8"	185.80	6.20	182.6	7.70	178.4	9.60
250	10"	232.60	7.70	228.4	9.60	223.4	11.90
315	12"	293.2	9.70	287.8	12.10	281.4	15.00
355	14"	330.6	10.90	324.6	13.60	315.6	16.90
400	16"	372.4	12.30	365.8	15.30	355.6	19.10
450	18"	419.2	13.80	410.0	17.20	400.4	21.50
500	20"	465.8	15.30	455.6	19.10	445.2	23.90
630	24"	585.0	19.30	574.0	24.10	560.6	30.00
800	32"	743.2	24.50	729.2	30.60	711.8	38.10
1000	40"	929.2	30.60	911.6	38.20	889.8	47.70



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Ingeniería Inteligente

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