

Pipe Selection Guide as per ANSI B36.19 Standard

Nominal Bore Pipe Size in			Schedule 5S		Schedule 10S		Schedule 40S		Schedule 80S	
N.B in inch.	N.B in mm	mm	Wall Thickness in mm	Weight kg/mtr.	Wall Thickness in mm	Weight kg/mtr.	Wall Thickness in mm	Weight kg/mtr.	Wall Thickness in mm	Weight kg/mtr.
1/4"	8	13.72	1.24	0.380	1.65	0.499	2.24	0.644	3.02	0.809
3/8"	10	17.15	1.40	0.544	1.65	0.640	2.31	0.858	3.20	1.118
1/2"	15	21.30	1.65	0.815	2.11	1.016	2.77	1.288	3.73	1.645
3/4"	20	26.70	1.65	1.034	2.11	1.298	2.87	1.710	3.91	2.228
1"	25	33.40	1.65	1.312	2.77	2.125	3.38	2.541	4.55	3.287
1 1/4"	32	42.20	1.65	1.674	2.77	2.732	3.56	3.441	4.85	4.531
1 1/2"	40	48.30	1.65	1.926	2.77	3.155	3.68	4.108	5.08	5.493
2"	50	60.30	1.65	2.424	2.77	3.992	3.91	5.524	5.54	7.601
2 1/2"	65	73.00	2.11	3.747	3.05	5.345	5.16	8.769	7.01	11.589
3"	80	88.90	2.11	4.585	3.05	6.557	5.49	11.466	7.62	15.509
3 1/2"	90	101.60	2.11	5.260	3.05	7.526	5.74	13.778	8.08	18.921
4"	100	114.30	2.11	5.930	3.05	8.496	6.02	16.322	8.56	22.685
5"	125	141.30	2.77	9.610	3.40	11.740	6.55	22.101	9.52	31.444
6"	150	168.30	2.77	11.480	3.40	14.037	7.11	28.694	10.97	43.211
8"	200	219.08	2.77	15.000	3.76	20.290	8.18	43.230	12.70	65.670
10"	250	273.50	3.40	22.950	4.19	28.200	9.27	61.220	12.70	82.780
12"	300	232.90	3.96	31.710	4.57	36.530	9.53	74.990	12.70	98.920

Table of Gauges

Gauge No	8	10	12	14	16	18	19	20	22
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S.W.G. (Standard Wire Gauge)

Inch	0.160	0.128	0.104	0.080	0.064	0.048	0.040	0.036	0.028
mm	4.064	3.251	2.642	2.032	1.626	1.219	1.016	0.914	0.711

B.W.G. (Birmingham Wire Gauge)

Inch	0.165	0.134	0.109	0.083	0.065	0.049	0.042	0.035	0.028
mm	4.191	3.404	2.769	2.108	1.651	1.245	1.067	0.889	0.711

HYDROSTATIC TEST

The Test Pressure shall be determined by the following equation

$$P = \frac{2 St}{D}$$

Where **P** = Hydrostatic Test pressure in psl

S= allowable fiber stress (60 percent of the specified minimum yield strength for carbon and ferrite alloy Steel and 50 percent of the specified minimum Yield strength for austenitic alloy steel) in psl.

t = specified wall thickness in inches/mm

D= specified or calculated outside diameter in inches/mm

The maximum hydrostatic test pressure shall not exceed 2,500 psl for nominal sizes 3 inches & under or 2,800 psl for nominal sizes over 3 inches.

