

PIPE DIMENSIONS AND PROPERTIES

SEE TEXT ON PAGE 137

ABBREVIATIONS:

STD—Standard; L—Light Gauge; XS—Extra Strong; XXS—Double Extra Strong; API—American Petroleum Institute; S—Gas Distribution; A—American Railway Engineering and Mechanics Ins. Co.

Nom. Pipe Size	WALL THICKNESS			DIMENSIONS			WEIGHTS			AREAS				PROPERTIES				Approx Weight of Welding Rods lb.
	Iron Pipe Size	Sch. No.	Other	Outside Diam.	Inside Diam.	Wall Thkn.	Plain End Pipe lb. per ft.	Water Pipe in.	Surface		Cross-Sectional		Moment of Inertia	Section of Modulus	Radius of Gyration			
									Outside ft. per ft.	Inside ft. per ft.	Flow	Metal						
1/8	STD	40	API	.405	.307	.049	.186	.032	.106	.0804	.0740	.0548	.0009	.0044	.1270	—		
	XS	80	API	.405	.289	.068	.244	.025	.106	.0705	.0568	.0720	.0011	.0053	.1215	—		
				.405	.215	.095	.314	.016	.106	.0563	.0364	.0925	.0012	.0060	.1146	—		
1/4	STD	105		.540	.410	.065	.330	.057	.141	.1073	.1320	.0970	.0028	.0103	.1695	—		
	XS	40	API	.540	.364	.088	.424	.045	.141	.0955	.1041	.1250	.0033	.0123	.1628	—		
	XS	80	API	.540	.302	.119	.535	.031	.141	.0794	.0716	.1574	.0038	.0139	.1547	—		
3/8	STD	105		.675	.545	.065	.423	.101	.177	.1427	.2333	.1245	.0059	.0174	.2160	—		
	XS	40	API	.675	.493	.091	.567	.083	.177	.1295	.1910	.1670	.0073	.0216	.2090	—		
	XS	80	API	.675	.423	.126	.738	.061	.177	.1106	.1405	.2173	.0086	.0255	.1991	.04		
1/2		55		.840	.710	.065	.538	.171	.220	.1859	.3959	.1583	.0120	.0285	.2750	—		
	105			.840	.674	.083	.671	.154	.220	.1765	.3568	.1974	.0143	.0340	.2693	—		
	40	API		.840	.622	.109	.850	.132	.220	.1637	.3040	.2503	.0171	.0407	.2613	—		
3/4	XS	80	API	.840	.546	.147	1.087	.101	.220	.1433	.2340	.3200	.0201	.0478	.2505	.05		
	160			.840	.464	.188	1.311	.073	.220	.1215	.1691	.3856	.0222	.0528	.2399	.1		
	XXS			.840	.252	.294	1.714	.022	.220	.0660	.0499	.5043	.0242	.0577	.2192	.2		
1		55		1.050	.920	.065	.684	.288	.275	.2409	.6648	.2011	.0245	.0467	.3490	—		
	105	L		1.050	.884	.083	.857	.266	.275	.2314	.6138	.2522	.0297	.0566	.3430	—		
	40	API		1.050	.824	.113	1.130	.230	.275	.2168	.5330	.3326	.0370	.0705	.3337	—		
1	XS	80	API	1.050	.742	.154	1.473	.187	.275	.1948	.4330	.4335	.0448	.0853	.3214	.05		
	160			1.050	.612	.219	1.944	.127	.275	.1602	.2942	.5717	.0528	.1005	.3038	.1		
	XXS			1.050	.434	.308	2.440	.063	.275	.1137	.1479	.7180	.0579	.1103	.2840	.2		
1		55		1.315	1.185	.065	.868	.478	.344	.3102	1.1029	.2552	.0500	.0760	.4425	—		
	105			1.315	1.097	.109	1.404	.409	.344	.2872	.9448	.4129	.0756	.1150	.4282	—		
	40	API		1.315	1.049	.133	1.678	.374	.344	.2740	.8640	.4939	.0873	.1328	.4205	.08		
1	XS	80	API	1.315	.957	.179	2.171	.311	.344	.2520	.7190	.6388	.1056	.1606	.4066	.1		
	160			1.315	.815	.250	2.840	.226	.344	.2134	.5217	.8364	.1252	.1903	.3868	.3		
	XXS			1.315	.599	.358	3.659	.122	.344	.1570	.2818	1.0760	.1405	.2136	.3613	.4		
1 1/4		55		1.660	1.530	.065	1.107	.796	.434	.4006	1.8381	.3257	.1037	.1250	.5644	—		
	105	L		1.660	1.442	.109	1.806	.708	.434	.3775	1.6330	.5314	.1606	.1934	.5499	—		
	40	API		1.660	1.380	.140	2.272	.647	.434	.3620	1.4950	.6885	.1947	.2346	.5397	.1		
1 1/4	XS	80	API	1.660	1.278	.191	2.996	.555	.434	.3556	1.2830	.8815	.2418	.2913	.5237	.2		
	160			1.660	1.160	.250	3.764	.457	.434	.3029	1.0570	1.1070	.2833	.3421	.5063	.3		
	XXS			1.660	.896	.382	5.214	.273	.434	.2331	.6305	1.5340	.3411	.4110	.4716	.5		
1 1/2		55		1.900	1.770	.065	1.274	1.066	.497	.4634	2.4610	.3751	.1579	.1662	.6492	—		
	105	L		1.900	1.682	.109	2.085	.963	.497	.4403	2.2219	.6139	.2469	.2599	.6344	—		
	40	API		1.900	1.610	.145	2.717	.882	.497	.4213	2.0361	.8001	.3099	.3262	.6226	.1		
1 1/2	XS	80	API	1.900	1.500	.200	3.631	.765	.497	.3927	1.7672	1.0689	.3912	.4118	.6052	.2		
	160			1.900	1.338	.281	4.858	.609	.497	.3503	1.4060	1.4299	.4823	.5077	.5809	.4		
	XXS			1.900	1.100	.400	6.408	.412	.497	.2903	.9502	1.8859	.5678	.5977	.5489	.6		

(CONTINUED FROM PRECEDING PAGE)

Nom. Pipe Size	WALL THICKNESS		DIMENSIONS				WEIGHTS		AREAS				PROPERTIES				Approx. Weight of Welding Rods																																																														
	Iron Pipe Size	Sch. No.	Other	Outside Diam.	Inside Diam.	Wall Thkn.	Plain End Pipe	Water In Pipe	Surface		Cross-Sectional		Moment of Inertia	Section Modulus	Radius of Gyration																																																																
									Outside ft. ² per ft.	Inside ft. ² per ft.	Flow	Metal																																																																			
2	STD	40	API	2.375	2.067	1.54	3.65	1.45	.622	.540	3.355	1.075	.666	.561	.787	2																																																															
																	XS	80	API	2.375	1.939	.218	5.02	1.28	.622	.507	2.953	1.477	.868	.731	.766	3																																															
																																	XXS	160	API	2.375	1.875	.250	5.67	1.20	.622	.492	2.761	1.669	.955	.805	.756	4																															
																																																	5S	10S	L	2.875	2.344	.344	7.46	.97	.622	.442	2.235	2.195	1.164	.980	.728	6															
																																																																	40	API	2.875	1.503	.436	9.03	.77	.622	.393	1.774	2.656	1.312	1.104	.703	8
	XS	160	API	2.875	2.635	.120	3.53	2.36	.753	.690	5.453	1.038	.988	.687	.976																																																																
																XXS	80	API	2.875	2.469	.203	5.79	2.07	.753	.646	4.788	1.704	1.530	1.064	.947																																																	
																															5S	10S	API	3.500	3.188	.156	5.58	3.46	.916	.835	7.982	1.639	2.298	1.313	1.184																																		
																																														40	API	3.500	3.124	.188	6.65	3.32	.916	.818	7.565	1.538	1.956	1.538	1.338	1.142																			
																																																													XS	80	API	3.500	3.068	.216	7.58	3.20	.916	.802	7.393	2.228	3.017	1.724	1.164				
																																																																												XXS	160	API	3.500
5S	10S	L	4.000	3.624	.188	9.65	2.94	.916	.769	6.780	2.842	3.892	2.282	1.136																																																																	
															40	API	4.000	3.548	.226	10.25	2.86	.916	.761	6.605	3.016	3.892	2.282	1.136																																																			
																													XS	80	API	4.000	3.500	.250	14.31	2.34	.687	5.404	4.214	5.044	2.882	2.094	1.094																																				
																																												XXS	160	API	4.000	2.624	.438	18.58	1.80	.916	4.155	5.466	5.993	3.424	1.047	1.047																					
																																																											5S	10S	L	4.500	3.834	.083	3.47	5.00	1.047	1.004	11.545	1.021	1.960	.980	1.385						
																																																																										40	API	4.500	3.760	.120	4.97
XS	80	API	4.500	3.564	.318	12.51	3.65	1.047	.880	8.888	3.678	6.280	3.140	1.307																																																																	
															XXS	160	API	4.500	2.728	.636	22.85	2.53	1.047	.716	8.845	6.721	9.848	4.924																																																			
																													5S	10S	L	4.500	4.334	.083	3.92	6.39	1.178	1.135	14.752	1.152	2.810	1.249	1.562																																				
																																												40	API	4.500	4.260	.120	5.61	6.18	1.115	1.178	14.253	1.651	3.962	1.761	1.550																						
																																																										XS	80	API	4.500	4.250	.125	5.84	6.15	1.178	1.113	14.186	1.718	4.019	1.829	1.548							
																																																																									XXS	160	API	4.500	4.062	.219	10.02
5S	10S	L	4.500	4.188	.156	7.24	5.97	1.178	1.096	13.775	2.129	5.029	2.235	1.537																																																																	
															40	API	4.500	4.124	.188	8.56	5.80	1.178	1.082	13.357	2.547	5.850	2.600	1.525																																																			
																													XS	80	API	4.500	4.000	.250	11.35	5.45	1.178	1.049	12.566	3.338	7.560	3.360	1.505																																				
																																												XXS	160	API	4.500	3.938	.281	12.67	5.27	1.178	1.031	12.180	3.724	8.332	3.703																						
																																																										5S	10S	L	4.500	3.876	.312	14.00	5.12	1.178	1.013	11.799	4.105	9.045	4.020	1.482							
																																																																									40	API	4.500	3.826	.337	14.98	4.98
XS	80	API	4.500	3.624	.438	16.98	4.47	1.178	.949	10.315	5.589	11.648	5.177	1.444																																																																	
															XXS	160	API	4.500	3.500	.500	21.36	4.16	1.178	.916	9.621	6.283	12.771	5.676																																																			
																													5S	10S	L	4.500	3.438	.531	22.52	4.02	1.178	.900	9.283	3.783	13.275	5.900	1.425																																				
																																												40	API	4.500	3.152	.674	27.54	3.38	1.178	.826	7.803	8.101	15.284	6.793	1.374																						
																																																										XS	80	API	5.563	5.345	.109	6.35	9.72	1.456	1.399	22.438	1.868	7.126	2.562								
																																																																								XXS	160	API	5.563	5.295	.134	7.77	9.54
5S	10S	L	5.563	5.251	.156	9.02	9.39	1.456	1.375	21.656	2.650	9.699	3.487																																																																		
														40	API	5.563	5.187	.188	10.80	9.16	1.456	1.358	21.131	3.175	11.485	4.129																																																					
																											XS	80	API	5.563	5.125	.219	12.51	8.94	1.456	1.342	20.006	3.677	13.145	1.891																																							
																																									XXS	160	API	5.563	5.047	.258	14.62	8.66	1.456	1.321	20.006	4.300	15.162	1.878																									
																																																							5S	10S	L	5.563	5.001	.281	15.86	8.52	1.456	1.309	19.643	4.663	16.305	1.870											
																																																																					40	API	5.563	4.939	.312	17.51	8.31	1.456	1.276	18.194	5.147
XS	80	API	5.563	4.875	.344	19.19	8.09	1.456	1.276	18.666	5.640	19.281	6.932																																																																		
														XXS	160	API	5.563	4.813	.375	20.78	7.87	1.456	1.260	18.194	6.112	20.669																																																					
																											5S	10S	L	5.563	4.753	.500	27.04	7.08	1.456	1.195	16.353	7.953	25.737	9.253																																							
																																									40	API	5.563	4.713	.625	32.96	6.32	1.456	1.129	14.610	9.696	30.040	10.800																										
																																																						XS	80	API	5.563	4.633	.750	38.55	5.62	1.456	1.064	12.966	11.340	33.628	12.090												
																																																																				XXS	160	API	5.563	4.063	4.063	38.55	5.62	1.456	1.064	12.966	11.340

▲ 3/4" pipe size with 0.636" wall, though not defined in B36.10-1959, is commercially considered double extra strong in this size.

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Nom. Pipe Size	WALL THICKNESS		DIMENSIONS			WEIGHTS		AREAS				PROPERTIES				Approx. Weight of Welding Rods lb.	
	Iron Pipe Size	Sch. No.	Other	Outside Diam.	Inside Diam.	Wall Thkn.	Plain End Pipe lb. per ft.	Water in Pipe in.	Surface		Cross-Sectional		Moment of Inertia in. ⁴	Section Modulus in. ³	Radius of Gyration in.		
									Outside ft. ² per ft.	Inside ft. ² per ft.	Flow in. ²	Metal in. ²					
6	SS 10S	L API		6.625	6.407	.109	7.59	14.0	1.73	1.68	32.24	2.23	11.84	3.57	2.30	—	
				6.625	6.357	.134	9.29	13.7	1.66	31.75	2.73	14.38	4.34	2.29	4		
				6.625	6.249	.188	12.93	13.3	1.64	30.70	3.60	19.71	5.95	2.28	6		
				6.625	6.187	.219	15.02	13.1	1.73	30.10	4.41	22.66	6.84	2.27	8		
				6.625	6.125	.250	17.02	12.8	1.73	29.50	5.01	25.55	7.71	2.26	1.0		
				6.625	6.071	.277	18.86	12.6	1.73	28.95	5.54	28.00	8.46	— 2.25	1.1		
	STD	40	API		6.625	6.065	.280	18.97	12.5	1.73	1.59	28.90	5.58	28.14	8.50	2.24	1.1
					6.625	6.001	.312	21.05	12.3	1.73	28.28	6.19	30.91	9.33	2.23	1.3	
					6.625	5.937	.344	23.09	12.0	1.73	27.68	6.79	33.51	10.14	2.22	1.6	
					6.625	5.875	.375	25.10	11.8	1.73	27.10	7.37	36.20	10.90	2.21	1.8	
					6.625	5.761	.432	28.57	11.3	1.73	26.07	8.40	40.49	12.22	2.19	2.2	
					6.625	5.625	.500	32.79	10.8	1.73	24.85	9.63	45.60	13.78	2.16	3.0	
8	XS	API		6.625	5.501	.562	36.42	10.3	1.73	1.47	23.77	10.74	49.91	15.07	2.15	3.2	
				6.625	5.187	.719	45.34	9.2	1.73	21.13	13.34	59.03	17.82	2.10	5.1		
				6.625	4.897	.864	53.16	8.1	1.73	18.83	15.64	66.33	20.02	2.06	5.8		
				8.625	8.407	.109	9.91	24.0	2.26	2.20	55.51	2.92	26.44	6.13	3.01	—	
				8.625	8.329	.148	13.40	23.6	2.26	2.18	54.49	3.94	35.45	8.22	3.00	4	
				8.625	8.249	.188	16.90	23.2	2.26	2.16	53.43	5.00	44.42	10.30	2.98	7	
	STD	40	API		8.625	8.219	.203	18.30	23.1	2.26	2.15	53.05	5.38	47.65	11.05	2.98	8
					8.625	8.187	.219	19.64	22.9	2.26	2.15	52.63	5.80	51.32	11.90	2.97	1.0
					8.625	8.125	.250	22.36	22.5	2.26	2.13	51.85	6.58	57.74	13.39	2.96	1.2
					8.625	8.071	.277	24.70	22.2	2.26	2.12	51.17	7.26	63.35	14.69	2.95	1.3
					8.625	8.001	.312	27.72	21.8	2.26	2.10	50.28	8.15	70.60	16.37	2.94	1.6
					8.625	7.981	.322	28.55	21.6	2.26	2.09	50.03	8.40	72.49	16.81	2.94	1.7
10	XS	API		8.625	7.937	.344	30.40	21.4	2.26	2.08	49.49	8.94	76.81	17.81	2.93	1.9	
				8.625	7.875	.375	33.10	21.1	2.26	2.06	48.69	9.74	83.10	19.27	2.92	2.1	
				8.625	7.813	.406	35.66	20.8	2.26	2.04	47.95	10.48	88.75	20.58	2.91	2.3	
				8.625	7.749	.438	38.33	20.4	2.26	2.03	47.16	11.27	94.75	21.97	2.90	2.7	
				8.625	7.625	.500	43.39	19.8	2.26	2.01	45.67	12.76	105.70	24.51	2.88	3.6	
				8.625	7.437	.594	50.93	18.8	2.26	1.95	43.44	14.99	121.48	28.17	2.85	4.6	
	STD	40	API		8.625	7.375	.625	53.40	18.5	2.26	1.93	42.72	15.71	126.49	29.33	2.84	5.1
					8.625	7.187	.719	60.69	17.6	2.26	1.88	40.57	17.86	140.67	32.62	2.81	6.7
					8.625	7.001	.812	67.79	16.7	2.26	1.83	38.50	19.93	153.74	35.65	2.78	7.3
					8.625	6.875	.875	72.42	16.1	2.26	1.80	37.13	21.30	161.98	37.56	2.76	8.0
					8.625	6.813	.906	74.71	15.8	2.26	1.78	36.46	21.97	165.94	38.48	2.76	8.2
					10.750	10.482	.134	15.19	37.4	2.81	2.74	86.29	4.47	62.94	11.71	3.75	6
10	XS	API		10.750	10.420	.165	18.65	36.9	2.81	2.73	85.26	5.50	76.81	14.29	3.74	8	
				10.750	10.374	.188	21.12	36.7	2.81	2.72	84.56	6.20	86.54	16.10	3.74	1.0	
				10.750	10.344	.203	22.86	36.5	2.81	2.71	84.05	6.71	93.26	17.35	3.73	1.1	
				10.750	10.312	.219	24.63	36.2	2.81	2.70	83.52	7.24	100.46	18.69	3.72	1.2	
				10.750	10.250	.250	28.04	35.9	2.81	2.68	82.50	8.26	113.52	21.12	3.71	1.4	
				10.750	10.192	.279	31.20	35.3	2.81	2.66	81.58	9.18	125.88	23.42	3.70	1.7	
	STD	40	API		10.750	10.136	.307	34.24	35.0	2.81	2.65	80.69	10.07	137.44	25.57	3.69	2.0
					10.750	10.062	.344	38.26	34.5	2.81	2.63	79.51	11.25	152.27	28.33	3.68	2.4
					10.750	10.020	.365	40.48	34.1	2.81	2.62	78.85	11.91	160.82	29.90	3.67	2.7
					10.750	9.974	.438	48.28	33.2	2.81	2.58	76.57	14.91	188.71	35.13	3.65	3.6
					10.750	9.750	.500	54.74	32.3	2.81	2.55	74.66	16.10	211.94	39.43	3.63	4.5
					10.750	9.562	.594	64.40	31.1	2.81	2.50	71.81	18.95	245.21	45.62	3.60	6.0
10	XS	API		10.750	9.312	.719	77.00	29.5	2.81	2.44	68.10	22.66	286.43	53.29	3.56	8.3	
				10.750	9.250	.750	80.10	29.1	2.81	2.42	67.20	23.56	296.16	55.10	3.54	8.5	
				10.750	9.062	.844	89.27	27.9	2.81	2.37	64.49	26.27	324.54	60.38	3.52	9.0	
				10.750	8.875	.875	92.28	27.6	2.81	2.36	63.62	27.14	333.46	62.04	3.50	9.8	
				10.750	8.750	1.000	104.13	26.1	2.81	2.29	60.13	30.63	367.81	68.43	3.46	1.3	
				10.750	8.500	1.125	115.65	24.6	2.81	2.22	56.75	34.01	399.42	74.31	3.43	1.5	
	STD	40	API		10.750	8.250	1.250	126.82	23.2	2.81	2.16	53.45	37.31	428.17	79.66	3.39	1.7

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Nom. Pipe Size	WALL THICKNESS		DIMENSIONS			WEIGHTS			AREAS				PROPERTIES				Approx. Weight of Welding Rods lb.
	Iron Pipe Size	Sch. No.	Other	Outside Diam.	Inside Diam.	Wall Thkn.	Plain End Pipe lb. per ft.	Water in Pipe lb. per ft.	Surface		Cross-Sectional		Moment of Inertia in. ⁴	Section Modulus in. ³	Radius of Gyration in.		
									Outside ft.	Inside ft.	Flow in. ²	Metal in. ²					
12	5S 10S	L API		12.750	12.438	.156	21.0	52.6	3.34	3.26	121.5	6.17	122.4	19.2	4.45	.8	
				12.750	12.390	.180	24.2	52.2	3.34	3.24	120.6	7.11	140.4	22.0	4.44	1.0	
				12.750	12.344	.203	27.2	52.0	3.34	3.23	119.9	7.99	157.2	24.7	4.43	1.3	
				12.750	12.312	.219	29.3	51.7	3.34	3.22	119.1	8.52	167.6	26.3	4.43	1.4	
				12.750	12.250	.250	33.4	51.3	3.34	3.21	118.0	9.84	192.3	30.2	4.42	1.7	
				12.750	12.188	.281	37.4	50.6	3.34	3.19	116.7	11.01	214.1	33.6	4.41	2.0	
	30	API	API	12.750	12.126	.312	41.5	50.1	3.34	3.17	115.5	12.19	236.0	37.0	4.40	2.4	
				12.750	12.090	.330	43.8	49.7	3.34	3.16	114.8	12.88	248.5	39.0	4.39	2.6	
				12.750	12.062	.344	45.5	49.7	3.34	3.16	114.5	13.46	259.0	40.7	4.38	2.8	
				12.750	12.000	.375	49.6	48.9	3.34	3.14	113.1	14.58	279.3	43.8	4.37	3.0	
				12.750	11.938	.406	53.6	48.5	3.34	3.13	111.9	15.74	300.3	47.1	4.37	3.5	
				12.750	11.874	.438	57.5	48.2	3.34	3.11	111.0	16.95	321.0	50.4	4.35	4.3	
STD	API	API	12.750	11.750	.500	65.4	46.9	3.34	3.08	108.4	19.24	361.5	56.7	4.33	5.3		
			12.750	11.626	.562	73.2	46.0	3.34	3.04	106.2	21.52	400.5	62.8	4.31	6.4		
			12.750	11.500	.625	80.9	44.9	3.34	3.01	103.8	23.81	438.7	68.8	4.29	7.5		
			12.750	11.374	.688	88.6	44.0	3.34	2.98	101.6	26.07	475.7	74.6	4.27	8.6		
			12.750	11.250	.750	96.2	43.1	3.34	2.94	99.4	28.27	510.7	80.1	4.25	10		
			12.750	11.062	.844	107.3	41.6	3.34	2.90	96.1	31.57	562.2	88.2	4.22	11		
XXS	API	API	12.750	11.000	.875	110.9	41.1	3.34	2.88	95.0	32.64	578.5	90.7	4.21	12		
			12.750	10.750	1.000	125.5	39.3	3.34	2.81	90.8	36.91	641.7	100.7	4.17	15		
			12.750	10.500	1.125	139.7	37.5	3.34	2.75	86.6	41.08	700.7	109.9	4.13	18		
			12.750	10.250	1.250	153.6	35.8	3.34	2.68	82.5	45.16	755.5	118.5	4.09	20		
			12.750	10.126	1.312	160.3	34.9	3.34	2.65	80.5	47.14	781.3	122.6	4.07	22		
			12.750	10.000	1.375	167.2	34.0	3.34	2.62	78.5	49.14	807.2	126.6	4.05	24		
14	5S 10S	API		14.000	13.688	.156	23.0	63.7	3.67	3.58	147.2	6.78	162.6	23.2	4.90	.9	
				14.000	13.624	.188	27.7	63.1	3.67	3.57	145.8	8.16	194.6	27.8	4.88	1.1	
				14.000	13.580	.210	30.9	62.8	3.67	3.55	144.8	9.10	216.2	30.9	4.87	1.4	
				14.000	13.562	.219	32.2	62.6	3.67	3.55	144.5	9.48	225.1	32.2	4.87	1.5	
				14.000	13.500	.250	36.7	62.1	3.67	3.54	143.0	10.82	256.0	36.6	4.86	1.8	
				14.000	13.438	.281	41.2	61.5	3.67	3.52	141.8	12.11	285.2	40.7	4.85	2.2	
	STD	API	API	14.000	13.376	.312	45.7	60.9	3.67	3.50	140.5	13.42	314.4	44.9	4.84	2.6	
				14.000	13.312	.344	50.2	60.3	3.67	3.48	139.2	14.76	344.3	49.2	4.83	3.1	
				14.000	13.250	.375	54.6	59.7	3.67	3.47	137.9	16.05	372.8	53.2	4.82	3.6	
				14.000	13.124	.438	63.4	58.5	3.67	3.44	135.3	18.66	429.6	61.4	4.80	4.5	
				14.000	13.062	.469	67.8	58.0	3.67	3.42	134.0	19.94	456.8	65.3	4.79	5.2	
				14.000	13.000	.500	72.1	57.4	3.67	3.40	132.7	21.21	483.8	69.1	4.78	5.8	
XS	API	API	14.000	12.812	.594	85.0	55.8	3.67	3.35	128.9	25.02	563.1	80.4	4.74	7.6		
			14.000	12.750	.625	89.3	55.3	3.67	3.34	127.7	26.26	588.5	84.1	4.73	8.2		
			14.000	12.500	.750	106.1	51.2	3.67	3.27	122.7	31.22	687.5	98.2	4.69	9.4		
			14.000	12.250	.875	122.7	51.1	3.67	3.21	117.9	36.08	780.1	111.4	4.65	13		
			14.000	12.124	.938	130.8	50.0	3.67	3.17	115.4	38.49	825.1	117.9	4.63	15		
			14.000	12.000	1.000	138.8	49.0	3.67	3.14	113.1	40.84	868.0	124.0	4.61	16		
120	API	API	14.000	11.812	1.094	150.8	47.5	3.67	3.09	109.6	44.36	930.2	132.9	4.58	18		
			14.000	11.750	1.125	154.7	47.0	3.67	3.08	108.4	45.50	950.3	135.8	4.57	20		
			14.000	11.500	1.250	170.2	45.0	3.67	3.01	103.9	50.07	1027.5	146.8	4.53	22		
			14.000	11.250	1.375	185.4	43.1	3.67	2.94	99.4	54.54	1099.5	157.1	4.49	26		
			14.000	11.188	1.406	189.1	42.6	3.67	2.93	98.3	55.63	1116.9	159.6	4.48	27		
			14.000	11.000	1.500	200.2	41.2	3.67	2.88	95.0	58.90	1166.5	166.6	4.45	31		
140	API	API	14.000	10.000	2.000	256.3	34.0	3.67	2.62	78.5	75.40	1394.9	199.3	4.30	50		
			14.000	9.750	2.125	269.5	32.3	3.67	2.55	74.7	79.28	1442.1	206.0	4.26	55		
			14.000	9.600	2.200	277.3	31.4	3.67	2.51	72.4	81.56	1468.8	209.8	4.24	58		
			14.000	9.000	2.500	307.1	27.6	3.67	2.36	63.6	90.32	1563.7	223.4	4.16	71		

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Nom. Size In.	WALL THICKNESS		DIMENSIONS			WEIGHTS			AREAS				PROPERTIES				Approx. Weight of Welding Rods lb.
	Iron Pipe Size	Sch. No.	Other	Outside Diam.	Inside Diam.	Wall Thkn.	Plain End Pipe lb. per ft.	Water in Pipe lb. per ft.	Surface		Cross-Sectional		Moment of Inertia In. ⁴	Section Modulus In. ³	Radius of Gyration In.		
									Outside ft. ² per ft.	Inside ft. ² per ft.	Flow In. ²	Metal In. ²					
16	5S 10S	API		16.000	15.670	.165	28	83.5	4.19	4.10	192.9	8.21	257	32.2	5.60		
				16.000	15.624	.188	32	83.0	4.19	4.09	191.7	9.34	292	36.5	5.59		
	10	API		16.000	15.562	.219	37	82.5	4.19	4.07	190.2	10.86	338	42.3	5.58		
				16.000	15.500	.250	42	82.1	4.19	4.06	189.0	12.40	385	48.1	5.57		
	STD	API		16.000	15.438	.281	47	81.2	4.19	4.04	187.0	13.90	430	53.8	5.56		
				16.000	15.376	.312	52	80.4	4.19	4.03	185.7	15.38	473	59.2	5.55		
	XS	API		16.000	15.312	.344	57	80.0	4.19	4.01	184.1	16.94	519	64.9	5.54		
				16.000	15.250	.375	63	79.1	4.19	4.00	182.6	18.41	562	70.3	5.53		
	60	API		16.000	15.124	.438	73	78.2	4.19	3.96	180.0	21.42	650	81.2	5.51		
				16.000	15.062	.469	78	77.0	4.19	3.94	178.2	22.88	691	86.3	5.49		
	100	API		16.000	15.000	.500	83	76.5	4.19	3.93	176.7	24.35	732	91.5	5.48		
				16.000	14.750	.625	103	74.1	4.19	3.86	170.9	30.19	893	111.7	5.44		
	120	API		16.000	14.688	.656	108	73.4	4.19	3.85	169.4	31.62	933	116.6	5.43		
				16.000	14.500	.750	122	71.5	4.19	3.80	165.1	35.93	1047	130.9	5.40		
	140	API		16.000	14.312	.844	137	69.7	4.19	3.75	160.9	40.19	1157	144.7	5.37		
				16.000	14.000	1.000	160	66.7	4.19	3.66	153.9	47.12	1331	166.4	5.31		
160	API		16.000	13.938	1.031	165	66.0	4.19	3.65	152.6	48.49	1366	170.7	5.30			
			16.000	13.562	1.219	192	62.6	4.19	3.55	144.5	56.60	1556	194.6	5.24			
180	API		16.000	13.500	1.250	197	62.1	4.19	3.53	143.1	57.92	1586	198.3	5.23			
			16.000	13.124	1.438	224	58.6	4.19	3.44	135.3	65.79	1761	220.1	5.17			
5S 10S	API		18.000	17.670	.165	31	106.2	4.71	4.63	245.2	9.24	368	40.8	6.31			
			18.000	17.624	.188	36	105.7	4.71	4.61	243.9	10.52	417	46.4	6.30			
STD	API		18.000	17.500	.250	47	104.6	4.71	4.58	241.0	13.96	550	61.1	6.28			
			18.000	17.438	.281	49	104.0	4.71	4.56	240.0	14.49	570	63.4	6.27			
30	API		18.000	17.376	.312	59	102.7	4.71	4.55	237.1	17.34	678	75.4	6.25			
			18.000	17.312	.344	65	102.0	4.71	4.53	235.4	19.08	744	82.6	6.24			
XS	API		18.000	17.250	.375	71	101.2	4.71	4.51	233.7	20.76	807	89.6	6.23			
			18.000	17.188	.406	76	100.6	4.71	4.50	232.0	22.44	869	96.6	6.22			
60	API		18.000	17.124	.438	82	99.5	4.71	4.48	229.5	24.95	963	107.0	6.21			
			18.000	17.062	.469	88	99.0	4.71	4.47	228.6	25.83	993	110.3	6.20			
100	API		18.000	17.000	.500	93	98.2	4.71	4.45	227.0	27.49	1053	117.0	6.19			
			18.000	16.876	.562	105	97.2	4.71	4.42	224.0	30.85	1177	130.9	6.17			
120	API		18.000	16.750	.625	116	95.8	4.71	4.39	220.5	34.15	1290	143.2	6.14			
			18.000	16.500	.750	138	92.5	4.71	4.32	213.8	40.64	1515	168.3	6.10			
140	API		18.000	16.124	.938	171	88.4	4.71	4.22	204.2	50.28	1835	203.9	6.04			
			18.000	16.000	1.000	182	87.2	4.71	4.19	201.1	53.41	1935	215.0	6.02			
160	API		18.000	15.688	1.156	208	83.7	4.71	4.11	193.3	61.18	2182	242.3	5.97			
			18.000	15.500	1.250	224	81.8	4.71	4.06	188.7	65.78	2319	257.7	5.94			
STD	API		18.000	15.250	1.375	244	79.2	4.71	3.99	182.7	71.82	2498	277.5	5.90			
			18.000	15.000	1.500	265	76.6	4.71	3.93	176.7	77.75	2668	296.5	5.86			
XS	API		18.000	14.876	1.562	274	75.3	4.71	3.89	173.8	80.66	2750	303.5	5.84			
			18.000	14.438	1.781	309	71.0	4.71	3.78	163.7	90.75	3020	335.5	5.77			
5S 10S	API		20.000	19.634	.188	40	131.0	5.24	5.14	302.4	11.70	574	57.4	7.00			
			20.000	19.564	.218	46	130.2	5.24	5.12	300.6	13.55	663	66.3	6.99			
STD	API		20.000	19.500	.250	53	130.0	5.24	5.11	299.0	15.52	759	75.9	6.98			
			20.000	19.438	.281	59	128.6	5.24	5.09	296.8	17.41	846	84.6	6.97			
30	API		20.000	19.376	.312	66	127.7	5.24	5.07	294.9	19.30	935	93.5	6.96			
			20.000	19.312	.344	72	127.0	5.24	5.06	292.9	21.24	1026	102.6	6.95			
XS	API		20.000	19.250	.375	79	126.0	5.24	5.04	291.1	23.12	1113	111.3	6.94			
			20.000	19.188	.406	85	125.4	5.24	5.02	289.2	24.99	1200	120.0	6.93			
100	API		20.000	19.124	.438	92	125.1	5.24	5.01	288.0	26.95	1290	129.0	6.92			
			20.000	19.062	.469	98	123.6	5.24	4.99	285.4	28.78	1373	137.3	6.91			
120	API		20.000	19.000	.500	104	122.8	5.24	4.97	283.5	30.63	1457	145.7	6.90			
			20.000	18.812	.594	123	120.4	5.24	4.92	277.9	36.21	1706	170.6	6.86			

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Size	WALL THICKNESS	DIMENSIONS			WEIGHTS		AREAS				PROPERTIES			Approx. Weight of Welding Rods													
		Iron Pipe Size	Sch. No.	Other	Outside Diam.	Inside Diam.	Wall Thkn.	Plain End Pipe	Water in Pipe	Surface		Cross-Sectional	Moment of Inertia		Section Modulus	Radius of Gyration											
										Outside	Inside						Flow	Metal	in. ²	in. ⁴	in. ³	in.					
20	60				18.750	.625	129	119.5	4.91	276.1	38.04	178.7	6.85	12													
															20.000	18.376	.812	167	114.9	5.24	4.81	265.2	48.95	225.7	225.7	6.79	17
															20.000	18.000	1.000	203	110.3	5.24	4.71	254.5	59.69	270.2	270.2	6.73	24
															20.000	17.938	1.031	209	109.4	5.24	4.70	252.7	61.44	277.1	277.1	6.72	26
															20.000	17.500	1.250	250	104.3	5.24	4.58	240.5	73.63	324.9	324.9	6.64	31
															20.000	17.438	1.281	256	103.4	5.24	4.56	238.8	75.34	331.7	331.7	6.63	32
															20.000	17.000	1.500	296	98.3	5.24	4.45	227.0	87.18	375.5	375.5	6.56	43
															20.000	16.500	1.750	341	92.6	5.24	4.32	213.8	100.33	421.7	421.7	6.48	54
															20.000	16.062	1.969	379	87.8	5.24	4.20	202.6	111.54	458.7	458.7	6.41	64
															20.000	21.624	.188	44	159.1	5.76	5.66	367.3	12.88	766	69.7	7.71	1.8
															20.000	21.564	.218	51	158.2	5.76	5.65	365.2	14.92	885	80.4	7.70	2.4
															20.000	21.500	.250	58	157.4	5.76	5.63	363.1	17.18	1010	91.8	7.69	3.0
22	80			22.000	.281	65	156.5	5.61	19.17	361.0	25.48	102.8	7.68	3.6													
															22.000	21.438	.312	72	155.6	5.76	5.60	358.9	21.26	1250	113.6	7.67	4.3
															22.000	21.376	.344	80	154.7	5.76	5.58	356.7	23.40	1373	124.8	7.66	5.0
															22.000	21.250	.375	87	153.7	5.76	5.56	354.7	25.48	1490	135.4	7.65	5.8
															22.000	21.188	.406	94	152.9	5.76	5.55	352.6	27.54	1607	146.1	7.64	6.6
															22.000	21.124	.438	101	151.9	5.76	5.53	350.5	29.67	1725	156.8	7.62	7.5
															22.000	21.062	.469	108	150.9	5.76	5.51	348.4	31.72	1839	167.2	7.61	8.4
															22.000	21.000	.500	115	150.2	5.76	5.50	346.4	33.77	1953	177.5	7.61	9.3
															22.000	20.750	.625	143	146.6	5.76	5.43	338.2	41.97	2400	218.2	7.56	13
															22.000	20.500	.750	170	143.1	5.76	5.37	330.1	50.07	2829	237.2	7.52	18
															22.000	20.250	.875	197	139.6	5.76	5.30	322.1	58.07	3245	295.0	7.47	21
															22.000	20.000	1.000	224	136.2	5.76	5.24	314.2	65.97	3645	331.4	7.43	27
24	100			22.000	1.125	251	132.8	5.76	5.17	306.4	73.78	366.3	7.39	32													
															22.000	19.500	1.250	277	129.5	5.76	5.10	298.6	81.48	4400	400.0	7.35	38
															22.000	19.250	1.375	303	126.2	5.76	5.04	291.0	89.09	4758	432.6	7.31	45
															22.000	19.000	1.500	329	122.9	5.76	4.97	283.5	96.60	5103	463.9	7.27	52
															22.000	18.750	1.625	354	119.6	5.76	4.91	276.1	104.02	5432	493.8	7.23	58
															22.000	18.250	1.875	403	113.3	5.76	4.78	261.6	118.55	6054	550.3	7.15	74
															22.000	17.750	2.125	451	107.2	5.76	4.65	247.4	132.68	6626	602.4	7.07	90
															24.000	23.564	.218	55	188.9	6.28	6.17	436.1	16.29	1152	96.0	8.41	2.6
															24.000	23.500	.250	63	187.9	6.28	6.15	435.0	18.67	1320	110.0	8.40	3.0
															24.000	23.438	.281	71	186.9	6.28	6.14	431.5	20.94	1472	122.7	8.38	3.9
															24.000	23.376	.312	79	185.9	6.28	6.12	430.0	23.20	1630	136.0	8.38	4.7
															24.000	23.312	.344	87	184.9	6.28	6.10	426.8	25.57	1789	149.1	8.36	5.5
24.000	23.250	.375	95	183.9	6.28	6.09	424.6	27.83	1942	161.9	8.35	6.0															
24.000	23.188	.406	102	182.9	6.28	6.07	422.3	30.09	2095	174.6	8.34	7.2															
24.000	23.124	.438	110	181.9	6.28	6.05	420.0	32.42	2252	187.7	8.33	8.2															
24.000	23.062	.469	118	180.9	6.28	6.04	417.7	34.67	2401	200.1	8.32	9.2															
24	120			24.000	.500	125	180.0	6.28	6.02	416.0	36.90	213.0	8.31	10													
															24.000	22.876	.562	141	178.0	6.28	5.99	411.0	41.40	2840	237.0	8.28	12
															24.000	22.750	.625	156	176.1	6.28	5.96	406.5	45.90	3137	261.4	8.27	15
															24.000	22.624	.688	171	174.1	6.28	5.92	402.0	50.39	3426	285.5	8.25	18
															24.000	22.500	.750	186	172.1	6.28	5.89	397.6	54.78	3705	308.8	8.22	20
															24.000	22.126	.937	231	166.6	6.28	5.79	384.5	67.89	4521	376.8	8.16	24
															24.000	22.062	.969	238	165.6	6.28	5.78	382.3	70.11	4657	388.1	8.15	25
															24.000	22.000	1.000	246	164.8	6.28	5.76	380.1	72.26	4788	399.0	8.14	27
															24.000	21.562	1.219	297	158.2	6.28	5.64	365.2	87.24	5676	473.0	8.07	39
															24.000	21.500	1.250	304	157.4	6.28	5.63	363.1	89.34	5797	483.0	8.05	39
															24.000	21.000	1.500	361	150.2	6.28	5.50	346.4	106.03	6740	561.7	7.97	51
															24.000	20.938	1.531	367	149.3	6.28	5.48	344.3	108.07	6847	570.6	7.96	52
24	120			24.000	1.812	430	141.4	6.28	5.33	326.1	126.30	782.3	7.87	67													
															24.000	19.876	2.062	483	134.4	6.28	5.20	310.3	142.10	8623	718.9	7.79	86
															24.000	19.312	2.344	542	126.9	6.28	5.06	292.9	159.47	9458	788.2	7.70	110

(CONTINUED ON FOLLOWING PAGE)

(CONTINUED FROM PRECEDING PAGE)

In.	WALL THICKNESS			DIMENSIONS			WEIGHTS			AREAS				PROPERTIES			Approx. Weight of Welding Rods
	Iron Pipe Size	Sch. No.	Other	Outside Diam.	Inside Diam.	Wall Thkn.	Plain End Pipe	Water In Pipe	Surface		Cross-Sectional	Moment of Inertia	Section Modulus	Radius of Gyration			
									lb. per ft.	lb. per ft.					Outside	Inside	
32	10	API	.250	32.000	31.500	.250	85	337.8	8.38	8.25	779.2	3141	196.3	11.22	4.3		
		API	.281	32.000	31.438	.281	95	336.5	8.38	8.23	776.2	3525	220.3	11.21	5.2		
		API	.312	32.000	31.376	.312	106	335.2	8.38	8.21	773.2	3891	243.2	11.20	6.2		
	STD	API	.344	32.000	31.312	.344	116	333.8	8.38	8.20	770.0	4287	268.0	11.19	7.4		
		API	.375	32.000	31.250	.375	127	332.5	8.38	8.18	766.9	4656	291.0	11.18	8.5		
		API	.406	32.000	31.188	.406	137	331.2	8.38	8.16	764.0	5025	314.1	11.17	10		
	XS	API	.438	32.000	31.124	.438	148	329.8	8.38	8.15	760.8	5407	337.9	11.16	11		
		API	.469	32.000	31.062	.469	158	328.2	8.38	8.13	757.8	5775	360.9	11.15	12		
		API	.500	32.000	31.000	.500	168	327.2	8.38	8.11	754.7	6140	383.8	11.14	14		
	34	30		.625	32.000	30.750	.625	209	321.9	8.38	8.05	742.5	7578	473.6	11.09	20	
				.688	32.000	30.624	.688	230	319.0	8.38	8.02	736.6	8298	518.6	11.07	23	
				.750	32.000	30.500	.750	250	316.7	8.38	7.98	730.5	8990	561.9	11.05	27	
STD		API	1.000	32.000	30.000	1.000	331	306.4	8.38	7.85	706.8	11680	730.0	10.95	39		
		API	1.250	32.000	29.500	1.250	410	296.3	8.38	7.72	683.5	14398	899.9	10.88	56		
		API	1.500	32.000	29.000	1.500	489	286.3	8.38	7.59	660.5	16752	1047.0	10.80	76		
XS		API	.250	34.000	33.500	.250	90	382.0	8.90	8.77	881.2	3773	221.9	11.93	4.6		
		API	.281	34.000	33.438	.281	101	380.7	8.90	8.75	878.2	4230	248.8	11.92	6.1		
		API	.312	34.000	33.376	.312	112	379.3	8.90	8.74	874.9	4680	275.3	11.91	6.6		
STD		API	.344	34.000	33.312	.344	124	377.8	8.90	8.72	871.6	5147	302.8	11.90	7.8		
		API	.375	34.000	33.250	.375	135	376.2	8.90	8.70	867.8	5597	329.2	11.89	9.0		
		API	.406	34.000	33.188	.406	146	375.0	8.90	8.69	865.0	6047	355.7	11.87	10		
XS	API	.438	34.000	33.124	.438	157	373.6	8.90	8.67	861.7	6501	382.4	11.86	12			
	API	.469	34.000	33.062	.469	168	371.9	8.90	8.66	858.5	6945	408.5	11.86	13			
	API	.500	34.000	33.000	.500	179	370.8	8.90	8.64	855.3	7385	434.4	11.85	14			
36	30		.625	34.000	32.750	.625	223	365.0	8.90	8.57	841.9	9124	536.7	11.80	21		
			.688	34.000	32.624	.688	245	362.1	8.90	8.54	835.9	9992	587.8	11.78	25		
			.750	34.000	32.500	.750	266	359.5	8.90	8.51	829.3	10829	637.0	11.76	28		
	STD	API	1.000	34.000	32.000	1.000	353	348.6	8.90	8.38	804.2	14114	830.2	11.67	42		
		API	1.250	34.000	31.500	1.250	437	337.8	8.90	8.25	779.2	17246	1014.5	11.58	60		
		API	1.500	34.000	31.000	1.500	521	327.2	8.90	8.11	754.7	20247	1191.0	11.50	81		
	XS	API	.250	36.000	35.500	.250	96	429.1	9.42	9.29	989.7	4491	249.5	12.64	4.8		
		API	.281	36.000	35.438	.281	107	427.6	9.42	9.28	986.4	5023	279.1	12.63	5.9		
		API	.312	36.000	35.376	.312	119	426.1	9.42	9.26	982.9	5565	309.1	12.62	7.0		
	STD	API	.344	36.000	35.312	.344	131	424.6	9.42	9.24	979.3	6127	340.4	12.60	8.2		
		API	.375	36.000	35.250	.375	143	423.1	9.42	9.23	975.8	6664	370.2	12.59	9.5		
		API	.406	36.000	35.188	.406	154	421.6	9.42	9.21	972.5	7191	399.5	12.58	11		
XS	API	.438	36.000	35.124	.438	166	420.1	9.42	9.19	968.9	7737	429.9	12.57	12			
	API	.469	36.000	35.062	.469	178	418.2	9.42	9.18	965.5	8263	459.0	12.56	14			
	API	.500	36.000	35.000	.500	190	417.1	9.42	9.16	962.1	8785	488.1	12.55	15			
STD	API	.562	36.000	34.876	.562	213	413.8	9.42	9.13	955.3	9825	545.8	12.53	19			
	API	.625	36.000	34.750	.625	236	411.1	9.42	9.10	948.3	10872	604.0	12.51	22			
	API	.750	36.000	34.500	.750	282	405.3	9.42	9.03	934.7	12898	716.5	12.46	30			
XS	API	1.000	36.000	34.000	1.000	374	393.6	9.42	8.90	907.9	16851	936.2	12.38	44			
	API	1.250	36.000	33.500	1.250	464	382.1	9.42	8.77	881.3	20624	1145.8	12.29	64			
	API	1.500	36.000	33.000	1.500	553	370.8	9.42	8.64	855.3	24237	1346.5	12.21	86			
STD	API	.250	42.000	41.500	.250	112	586.4	10.99	10.86	1352.6	7126	339.3	14.73	57			
	API	.375	42.000	41.250	.375	167	579.3	10.99	10.80	1336.3	10827	506.1	14.71	11			
	API	.500	42.000	41.000	.500	222	572.3	10.99	10.73	1320.2	14037	668.4	14.67	18			
XS	API	.625	42.000	40.750	.625	276	565.4	10.99	10.67	1304.1	17373	827.3	14.62	26			
	API	.750	42.000	40.500	.750	330	558.4	10.99	10.60	1288.2	20689	985.2	14.59	35			
	API	1.000	42.000	40.000	1.000	438	544.8	10.99	10.47	1256.6	27080	1289.5	14.50	52			
STD	API	1.250	42.000	39.500	1.250	544	531.2	10.99	10.34	1225.3	33233	1582.5	14.41	74			
	API	1.500	42.000	39.000	1.500	649	517.9	10.99	10.21	1194.5	39181	1865.7	14.33	92			

Although 42" pipe is not covered by B36.10-1959, it is included herein as a matter of convenience.

