

PIPE AND PIPE FITTINGS

Pipe Connections.—Wrought-iron pipe is usually connected by screwed, flanged or leaded joints. Pipe varying from $\frac{1}{8}$ inch to 15 inches, inclusive, is regularly threaded on the ends and connected by threaded couplings. Sizes of $1\frac{1}{4}$ inch and larger are also frequently connected by drilled flanges bolted together,

Dimensions and Weight of Standard Pipe
(National Tube Co.)

Nominal Size	Diameters		Thickness	Weight per Foot, Pounds		Threads per Inch	Couplings		
	External	Internal		Plain Ends	Threads and Couplings		Diameter	Length	Weight, Pounds
$\frac{1}{8}$	0.405	0.269	0.068	0.244	0.245	27	0.562	$\frac{7}{8}$	0.029
$\frac{1}{4}$	0.540	0.364	0.088	0.424	0.425	18	0.685	1	0.043
$\frac{3}{8}$	0.675	0.493	0.091	0.567	0.568	18	0.848	$1\frac{1}{8}$	0.070
$\frac{1}{2}$	0.840	0.622	0.109	0.850	0.852	14	1.024	$1\frac{3}{8}$	0.116
$\frac{3}{4}$	1.050	0.824	0.113	1.130	1.134	14	1.281	$1\frac{5}{8}$	0.209
1	1.315	1.049	0.133	1.678	1.684	$11\frac{1}{2}$	1.576	$1\frac{7}{8}$	0.343
$1\frac{1}{4}$	1.660	1.380	0.140	2.272	2.281	$11\frac{1}{2}$	1.950	$2\frac{1}{8}$	0.535
$1\frac{1}{2}$	1.900	1.610	0.145	2.717	2.731	$11\frac{1}{2}$	2.218	$2\frac{3}{8}$	0.743
2	2.375	2.067	0.154	3.652	3.678	$11\frac{1}{2}$	2.760	$2\frac{5}{8}$	1.208
$2\frac{1}{2}$	2.875	2.469	0.203	5.793	5.819	8	3.276	$2\frac{7}{8}$	1.720
3	3.500	3.068	0.216	7.575	7.616	8	3.948	$3\frac{1}{8}$	2.498
$3\frac{1}{2}$	4.000	3.548	0.226	9.109	9.202	8	4.591	$3\frac{3}{8}$	4.241
4	4.500	4.026	0.237	10.790	10.889	8	5.091	$3\frac{5}{8}$	4.741
$4\frac{1}{2}$	5.000	4.506	0.247	12.538	12.642	8	5.591	$3\frac{7}{8}$	5.241
5	5.563	5.047	0.258	14.617	14.810	8	6.296	$4\frac{1}{8}$	8.091
6	6.625	6.065	0.280	18.974	19.185	8	7.358	$4\frac{3}{8}$	9.554
7	7.625	7.023	0.301	23.544	23.769	8	8.358	$4\frac{5}{8}$	10.931
8	8.625	8.071	0.277	24.696	25.000	8	9.358	$4\frac{7}{8}$	13.905
8	8.625	7.981	0.322	28.554	28.809	8	9.358	$4\frac{7}{8}$	13.905
9	9.625	8.941	0.342	33.907	34.188	8	10.358	$5\frac{1}{8}$	17.236
10	10.750	10.192	0.279	31.201	32.000	8	11.721	$6\frac{1}{8}$	29.877
10	10.750	10.136	0.307	34.240	35.000	8	11.721	$6\frac{1}{8}$	29.877
10	10.750	10.020	0.365	40.483	41.132	8	11.721	$6\frac{1}{8}$	29.877
11	11.750	11.000	0.375	45.557	46.247	8	12.721	$6\frac{1}{8}$	32.550
12	12.750	12.090	0.330	43.773	45.000	8	13.958	$6\frac{1}{8}$	43.096
12	12.750	12.000	0.375	49.562	50.706	8	13.958	$6\frac{1}{8}$	43.096
13	14.000	13.250	0.375	54.568	55.824	8	15.208	$6\frac{1}{8}$	47.150
14	15.000	14.250	0.375	58.573	60.375	8	16.446	$6\frac{1}{8}$	59.483
15	16.000	15.250	0.375	62.579	64.500	8	17.446	$6\frac{1}{8}$	63.224

the joint being made by a gasket between the flange faces. The flanges are attached to the pipe in various ways. The most common method for sizes from $1\frac{1}{4}$ inch to 15 inches, inclusive, is to screw the flanges onto the pipe sections. For sizes larger than 6 inches, peened flanges are often used. The peened flange is shrunk onto the end of the pipe, and the latter is then peened over or expanded into a recess in the flange face, after which the flange is sometimes faced off in a lathe. Steel