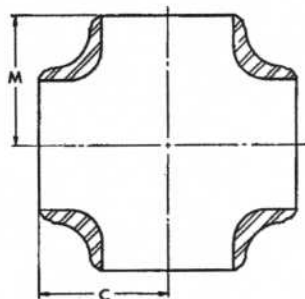


**CROSS**



dimensions: All dimensions in inches and are in accordance with ASA B16.9 and MSS-SP-48 where established.

pressure-temperature rating: Identical with those of seamless pipe of same size, thickness, and material grade.

footnotes: \*Pipe schedule numbers in accordance with ASA B36.10.  
 ▲This size and thickness does not correspond with any schedule number.

**standard  
extra strong**

nominal pipe size		center to end of run C	center to end of branch M	standard		extra strong	
run	branch			pipe schedule number	weight (approx) lb	pipe schedule number	weight (approx) lb
1¼	¾	1⅞	1⅞	40	1.1	80	1.3
	1	1⅞	1⅞	40	1.2	80	1.5
	1¼	1⅞	1⅞	40	1.5	80	1.8
1½	¾	2¼	2¼	40	1.6	80	2.0
	1	2¼	2¼	40	1.7	80	2.1
	1¼	2¼	2¼	40	1.9	80	2.3
	1½	2¼	2¼	40	2.3	80	2.8
2	1	2½	2	40	2.5	80	3.2
	1¼	2½	2¼	40	2.6	80	3.3
	1½	2½	2⅝	40	2.9	80	3.6
	2	2½	2½	40	3.3	80	4.1
2½	1	3	2¼	40	4.3	80	5.4
	1¼	3	2½	40	4.4	80	5.5
	1½	3	2⅝	40	4.6	80	5.8
	2	3	2¾	40	4.8	80	5.9
	2½	3	3	40	5.8	80	7.1
3	1	3⅝	2⅝	40	6.2	80	8.0
	1¼	3⅝	2¾	40	6.3	80	8.1
	1½	3⅝	2⅞	40	6.5	80	8.3
	2	3⅝	3	40	6.7	80	8.5
	2½	3⅝	3¼	40	7.2	80	8.9
	3	3⅝	3⅝	40	8.2	80	10.3
3½	1½	3¾	3⅝	40	8.5	80	11.1
	2	3¾	3¾	40	8.5	80	11.2
	2½	3¾	3½	40	9.2	80	11.8
	3	3¾	3⅞	40	9.5	80	12.2
	3½	3¾	3¾	40	10.8	80	13.8
4	1½	4⅞	3⅞	40	11.0	80	14.4
	2	4⅞	3½	40	11.1	80	14.4
	2½	4⅞	3¾	40	11.5	80	15.0
	3	4⅞	3⅞	40	11.9	80	15.4
	3½	4⅞	4	40	12.4	80	15.9
	4	4⅞	4⅞	40	13.9	80	17.8

**CROSS**

nominal pipe size		center to end of run C	center to end of branch M	standard		extra strong	
run	branch			pipe schedule number	weight (approx) lb	pipe schedule number	weight (approx) lb
5	2	4 $\frac{7}{8}$	4 $\frac{1}{8}$	40	17.2	80	23.1
	2 $\frac{1}{2}$	4 $\frac{7}{8}$	4 $\frac{1}{4}$	40	17.7	80	23.6
	3	4 $\frac{7}{8}$	4 $\frac{3}{8}$	40	17.9	80	23.8
	3 $\frac{1}{2}$	4 $\frac{7}{8}$	4 $\frac{1}{2}$	40	18.2	80	24.2
	4	4 $\frac{7}{8}$	4 $\frac{5}{8}$	40	18.8	80	24.8
	5	4 $\frac{7}{8}$	4 $\frac{7}{8}$	40	21.6	80	28.2
6	2 $\frac{1}{2}$	5 $\frac{5}{8}$	4 $\frac{3}{4}$	40	25.8	80	36.4
	3	5 $\frac{5}{8}$	4 $\frac{7}{8}$	40	26.0	80	36.5
	3 $\frac{1}{2}$	5 $\frac{5}{8}$	5	40	26.3	80	36.8
	4	5 $\frac{5}{8}$	5 $\frac{1}{8}$	40	26.6	80	37.1
	5	5 $\frac{5}{8}$	5 $\frac{3}{8}$	40	27.7	80	38.2
	6	5 $\frac{5}{8}$	5 $\frac{5}{8}$	40	31.5	80	43.4
8	3	7	6	40	47.4	80	68
	3 $\frac{1}{2}$	7	6	40	47.6	80	68
	4	7	6 $\frac{1}{8}$	40	47.8	80	68
	5	7	6 $\frac{3}{8}$	40	48.4	80	69
	6	7	6 $\frac{5}{8}$	40	49.4	80	70
	8	7	7	40	57	80	79
10	4	8 $\frac{1}{2}$	7 $\frac{1}{4}$	40	80	60*	105
	5	8 $\frac{1}{2}$	7 $\frac{1}{2}$	40	80	60*	105
	6	8 $\frac{1}{2}$	7 $\frac{5}{8}$	40	81	60*	106
	8	8 $\frac{1}{2}$	8	40	83	60*	110
	10	8 $\frac{1}{2}$	8 $\frac{1}{2}$	40	96	60*	123
12	5	10	8 $\frac{1}{2}$	▲	116	▲	149
	6	10	8 $\frac{5}{8}$	▲	117	▲	150
	8	10	9	▲	118	▲	153
	10	10	9 $\frac{1}{2}$	▲	123	▲	155
	12	10	10	▲	139	▲	174
14	6	11	9 $\frac{3}{8}$	30*	134	▲	174
	8	11	9 $\frac{3}{4}$	30*	136	▲	176
	10	11	10 $\frac{1}{8}$	30*	138	▲	178
	12	11	10 $\frac{5}{8}$	30*	144	▲	186
	14	11	11	30*	168	▲	214
16	6	12	10 $\frac{3}{8}$	30*	172	40*	226
	8	12	10 $\frac{3}{4}$	30*	172	40*	226
	10	12	11 $\frac{1}{8}$	30*	176	40*	230
	12	12	11 $\frac{5}{8}$	30*	182	40*	234
	14	12	12	30*	188	40*	240
	16	12	12	30*	216	40*	274
18	8	13 $\frac{1}{2}$	11 $\frac{3}{4}$	▲	224	▲	290
	10	13 $\frac{1}{2}$	12 $\frac{1}{8}$	▲	226	▲	292
	12	13 $\frac{1}{2}$	12 $\frac{3}{8}$	▲	228	▲	296
	14	13 $\frac{1}{2}$	13	▲	234	▲	300
	16	13 $\frac{1}{2}$	13	▲	236	▲	304
	18	13 $\frac{1}{2}$	13 $\frac{1}{2}$	▲	278	▲	352
20	8	15	12 $\frac{3}{4}$	20*	276	30*	358
	10	15	13 $\frac{1}{8}$	20*	278	30*	360
	12	15	13 $\frac{3}{8}$	20*	282	30*	362
	14	15	14	20*	284	30*	364
	16	15	14	20*	290	30*	370
	18	15	14 $\frac{1}{2}$	20*	298	30*	380
	20	15	15	20*	348	30*	438
24	10	17	15 $\frac{1}{8}$	20*	422	▲	544
	12	17	15 $\frac{3}{8}$	20*	424	▲	546
	14	17	16	20*	426	▲	548
	16	17	16	20*	432	▲	554
	18	17	16 $\frac{1}{2}$	20*	436	▲	558
	20	17	17	20*	442	▲	562
	24	17	17	20*	488	▲	610

\*Schedule number of run only.