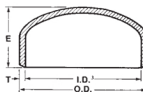


# CAPS

Standard, Extra Strong,  
Schedule 160,  
Double Extra Strong  
Carbon and ferritic alloy steel,  
ASTM A-234  
ASME/ANSI B16.9



NPS	Outside Diameter at Bevel O.D. DN	STANDARD WEIGHT			EXTRA STRONG			SCHEDULE 160			DOUBLE EXTRA STRONG			
		Wall Thickness T	Nominal Length <sup>1</sup> E	Approx. Weight	Wall Thickness T	Nominal Length <sup>1</sup> E	Approx. Weight	Wall Thickness T	Nominal Length <sup>1</sup> E	Approx. Weight	Wall Thickness T	Nominal Length <sup>1</sup> E	Approx. Weight	
1/2	.840	.109	1.0	.1	.147	1.0	.09	-	-	-	-	-	-	
15	21	2.77	25	05	3.73	25	04	-	-	-	-	-	-	
3/4	1.050	.113	1.0	.1	.154	1.0	.1	-	-	-	-	-	-	
20	27	2.87	25	05	3.91	25	05	-	-	-	-	-	-	
1	1.315	.133	1.5	.2	.179	1.5	.2	.250	1.5	.4	.38	1.5	1.0	
25	33	3.38	38	08	4.55	38	09	6.35	38	2	9.09	38	45	
1 1/4	1.660	.140	1.5	.3	.191	1.5	.4	.250	1.5	5	.382	1.5	1.5	
32	42	3.56	38	14	4.85	38	18	6.35	38	2	9.70	38	68	
1 1/2	1.900	.145	1.5	.4	.200	1.5	.5	.281	1.5	6	.400	1.5	2.5	
40	48	3.68	38	18	5.08	38	23	7.14	38	3	10.16	38	1.1	
2	2.375	.154	1.5	.6	.218	1.5	.8	.344	1.75	1.25	.436	1.75	3.0	
2 1/2	2.75	.153	1.5	.6	.218	1.5	.8	.374	1.75	1.25	.466	1.75	3.0	
50	60	3.91	38	27	5.54	38	36	8.74	44	8	11.07	44	1.4	
2 1/2	2.75	.203	1.5	.9	.276	1.5	1.0	.375	2.0	1.75	.552	2.0	4.0	
65	73	5.16	38	41	7.01	38	45	9.53	51	8	14.02	51	1.8	
3	3.500	.216	2.0	1.4	.300	2.0	2.0	4.38	2.5	2.9	.600	2.5	6.0	
80	89	5.49	51	64	7.62	51	91	11.13	64	1.3	15.24	64	2.7	
3 1/2	4.000	.226	2.5	2.2	.318	2.5	2.8	-	-	-	<sup>16</sup> .636	3.0	7.5	
90	102	5.74	64	1.0	8.08	64	1.3	-	-	-	<sup>16</sup> 16.15	76	3.4	
4	4.500	.237	2.5	3.0	.337	2.5	3.5	.531	3.0	5.9	.674	3.0	9.0	
100	114	8.02	64	21.4	13.58	64	1.8	13.49	76	187	2.7	37.12	76	4.1
5	5.563	.255	3.0	4.5	.375	3.0	5.5	.625	3.5	10	.750	3.5	13.5	
125	141	6.55	78	2.0	9.53	76	2.6	15.88	89	4.5	19.05	89	5.1	
6	6.625	.280	3.5	7.2	.432	3.5	9.2	.719	4.0	15	.864	4.0	18	
150	168	7.11	89	3.3	10.97	89	4.2	18.26	102	6.8	21.95	102	8.2	
8	8.625	.322	4.0	12.0	.500	4.0	15	.906	5.0	31	.875	5.0	26	
200	219	8.18	102	5.4	12.70	102	6.8	23.01	127	14	22.23	127	12	
10	10.750	.365	5.0	18	.500	5.0	25	1.125	6.0	57	-	-	-	
250	273	9.27	122	8.2	12.70	122	11.3	28.58	152	26	30.0	152	20	
12	12.750	.375	6.0	27	.500	6.0	35	1.312	7.0	95	-	-	-	
300	324	9.53	152	12	12.70	152	16	33.32	178	43	-	-	-	
14	14.000	.375	6.5	33	.500	6.5	43	1.406	7.5	130	-	-	-	
350	356	9.53	165	15	12.70	165	20	35.71	191	59	-	-	-	
16	16.000	.375	7.0	42	.500	7.0	54	1.594	8.0	165	-	-	-	
400	405	9.53	178	19	12.70	178	25	40.49	203	75	-	-	-	
18	18.000	.375	8.0	55	.500	8.0	73	-	-	-	-	-	-	
450	457	9.53	203	25	12.70	203	33	-	-	-	-	-	-	
20	20.000	.375	9.0	68	.500	9.0	90	-	-	-	-	-	-	
500	508	9.53	229	31	12.70	229	41	-	-	-	-	-	-	
22	22.000	.375	10.0	86	.500	10.0	110	-	-	-	-	-	-	
550	559	9.53	254	39	12.70	254	50	-	-	-	-	-	-	
24	24.000	.375	10.5	96	.500	10.5	127	-	-	-	-	-	-	
600	610	9.53	267	46	12.70	267	58	-	-	-	-	-	-	
26	26.000	.375	11.0	110	.500	11.0	145	-	-	-	-	-	-	
650	660	9.53	267	50	12.70	267	66	-	-	-	-	-	-	
30	30.000	.375	10.5	132	.500	10.5	175	-	-	-	-	-	-	
750	762	9.53	267	80	12.70	267	79	-	-	-	-	-	-	
36	36.000	.375	10.5	192	.500	10.5	235	-	-	-	-	-	-	
900	914	9.53	267	87	12.70	267	107	-	-	-	-	-	-	
42	42.000	.375	12.0	225	.500	12.0	295	-	-	-	-	-	-	
1100	1067	9.53	305	102	12.70	305	134	-	-	-	-	-	-	

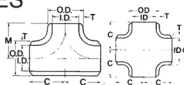
- See page 5 for Dimensional Tolerances.
- This size not covered in ASME/ANSI B36.10M dimensions of wrought steel pipe.
- For inside diameter, refer to page 6.

These fittings are also available in other sizes and/or wall thicknesses.

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

# STRAIGHT TEES & CROSSES\*

Standard Weight and Extra Strong  
Carbon and ferritic alloy steel,  
ASTM A-234, ASME/ANSI B16.9



NPS	Outside Diameter DN	Centre to End, Run, C	Centre to End, Outlet M	STANDARD WEIGHT			EXTRA STRONG					
				Inside Diameter I.D.	Wall Thickness T	Approx. Weight Tee	Approx. Weight Cross	Inside Diameter I.D.	Wall Thickness T	Approx. Weight Tee	Approx. Weight Cross	
1/2	.840	1.00	1.00	.622	.109	.25	-	.546	.147	.34	-	
15	21	26	25	15.90	.277	.11	-	13.49	.76	187	-	
3/4	1.050	1.12	1.12	.824	.113	.37	-	.742	.154	.44	-	
20	27	29	29	20.93	2.87	.17	-	18.85	3.91	.2	-	
1	1.315	1.50	1.50	1.049	.133	.63	-	.957	.179	.8	-	
25	33	38	38	26.64	3.38	.28	-	24.31	4.55	.36	-	
1 1/4	1.660	1.88	1.88	1.380	.140	1.25	1.60	1.278	.191	1.6	2.20	
32	42	48	48	35.05	3.56	.57	.72	32.46	4.85	.73	.99	
1 1/2	1.900	2.25	2.25	1.610	1.145	1.5	2.10	1.500	.200	2.0	2.60	
40	48	55	55	40.88	3.68	.68	1.30	38.10	5.08	.9	1.17	
2	2.375	2.50	2.50	2.067	.154	2.0	2.55	1.939	.218	3.0	3.25	
50	60	64	64	52.50	3.91	.9	1.15	49.25	5.54	1.3	1.48	
2 1/2	2.875	3.00	3.00	2.469	.203	4.0	3.40	2.323	.276	5.7	4.15	
65	73	76	76	62.71	5.16	1.8	1.53	59.00	7.01	2.6	1.87	
3	3.500	3.38	3.38	3.068	.216	6.0	4.10	2.900	.300	7.7	6.20	
80	89	86	86	77.93	5.49	2.7	1.85	73.66	7.62	3.5	2.79	
3 1/2	4.000	3.75	3.75	3.548	.226	7.5	5.65	3.364	.318	10.0	9.50	
90	102	95	95	90.12	5.74	3.4	2.54	85.45	8.08	4.5	4.28	
4	4.500	4.12	4.12	4.026	.237	10.2	9.25	3.826	.337	14	12.7	
100	114	105	105	102.3	6.02	4.6	4.16	97.18	8.56	6.3	5.72	
5	5.563	4.88	4.88	5.047	.258	16	11.20	4.813	.375	23	18.0	
125	141	125	125	128.2	6.55	7.3	5.04	122.2	9.53	10.4	9.1	
6	6.625	5.62	5.62	6.065	.280	23.5	25.0	5.761	.432	38.2	31.5	
150	168	143	143	154.0	7.11	10.7	11	146.3	10.97	17	14	
8	8.625	7.00	7.00	7.00	.881	32.2	44.8	41.5	7.625	50.0	67	52.0
200	218	178	178	202.7	8.18	20	19	193.7	12.70	30	24	
10	10.750	8.50	8.50	10.02	.365	74.2	72	9.750	.500	110	85.0	
250	273	216	216	254.5	9.27	34	32	247.6	12.70	50	38	
12	12.750	10.0	10.0	12.00	.375	126	96	11.750	.500	165	130	
300	324	254	254	304.8	9.53	56.70	43	298.4	12.70	74	59	
14	14.000	11.0	11.0	13.25	.375	159	121	13.00	.500	225	145	
350	356	275	275	338.6	9.53	73.5	54	330.2	12.70	101	85	
16	16.000	12.0	12.0	15.25	.375	220	145	15.00	.500	265	180	
400	406	305	305	387.4	9.53	99.0	65	381.0	12.70	119	81	
18	18.000	13.5	13.5	17.25	.375	295	170	17.00	.500	358	210	
450	457	343	343	438.2	9.53	132.8	77	431.8	12.70	161	95	
20	20.000	15.0	15.0	19.25	.375	363	195	19.00	.500	358	210	
500	508	381	381	489.0	9.53	163.4	88	482.6	12.70	161	95	
22	22.000	16.5	16.5	21.25	.375	449	-	21.00	.500	540	-	
550	559	419	419	539.8	9.53	202	-	533.4	12.70	243	-	
24	24.000	17.0	17.0	23.25	.375	515	230	23.00	.500	625	300	
600	610	432	432	590.6	9.53	259	103	584.2	12.70	281	135	
26	26.000	19.5	19.5	25.25	.375	655	-	25.00	.500	840	-	
650	660	495	495	641.4	9.53	295	-	635.0	12.70	378	-	
30	30.000	22.0	22.0	29.25	.375	1010	-	29.00	.500	1175	-	
750	762	559	559	743.0	9.53	455	-	736.6	12.70	529	-	
36	36.000	24.5	24.5	35.25	.375	1450	-	35.00	.500	1650	-	
900	914	673	673	895.4	9.53	653	-	889.0	12.70	743	-	
42	42.000	30.0	30.0	41.25	.375	1730	-	41.00	.500	1970	-	
1100	1067	762	711	1048	9.53	779	-	1041	12.70	887	-	

Tees size 20 NPS (DN 500) and smaller, and Crosses size 16 NPS (DN 400) and smaller, are normally furnished as seamless. Larger size non-seamless Tees and Crosses are produced from X-rayed, stress-relieved pipe. Weights are 100% radiographed in accordance with the requirements of ASME Boiler & Pressure Vessel Code.

\*Reduced outlet crosses available on request. These fittings are also available in other sizes and/or wall thicknesses.

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

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