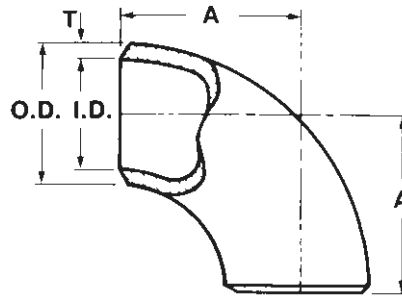


90° SEAMLESS ELBOW

LONG RADIUS

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



NPS DN	Outside Diameter at Bevel O.D.	Centre to End A	STANDARD WEIGHT			EXTRA STRONG			SCHEDULE 160			DOUBLE EXTRA STRONG		
			Inside Diameter I.D.	Wall Thickness T	Approx. Weight	Inside Diameter I.D.	Wall Thickness T	Approx. Weight	Inside Diameter I.D.	Wall Thickness T	Approx. Weight	Inside Diameter I.D.	Wall Thickness T	Approx. Weight
1/2	.840	1.50	.622	0.109	0.2	.546	.147	0.2	-	-	-	-	-	-
15	21	38	15.80	2.77	0.09	13.87	3.73	.09	-	-	-	-	-	-
3/4	1.050	(1)1.12	.824	0.113	0.3	.742	.154	0.2	-	-	-	-	-	-
20	27	29	20.93	2.87	0.14	18.85	3.91	.09	-	-	-	-	-	-
1	1.315	1.50	1.049	0.133	0.4	.957	.179	0.5	0.815	.250	0.6	.599	.358	0.8
25	33	38	26.64	3.38	0.18	24.31	4.55	0.23	20.7	6.35	0.27	15.21	9.09	0.36
1 1/4	1.660	1.88	1.380	0.140	0.5	1.278	.191	0.7	1.160	.250	1.0	.896	.382	1.4
32	42	48	35.05	3.56	0.23	32.46	4.85	0.32	29.5	6.35	0.45	22.76	9.70	0.63
1 1/2	1.900	2.25	1.610	0.145	0.75	1.500	.200	1.0	1.338	.281	1.8	1.100	.400	2.0
40	48	57	40.89	3.68	0.34	38.10	5.08	0.45	34.0	7.14	0.81	27.94	10.16	0.90
2	2.375	3.0	2.067	0.154	1.5	1.939	.218	2.0	1.687	.344	3.2	1.503	.436	3.8
50	60	76	52.50	3.91	0.68	49.25	5.54	0.9	42.9	8.74	1.44	38.18	11.07	1.71
2 1/2	2.875	3.75	2.469	0.203	3.0	2.323	.276	4.0	2.125	.375	6.0	1.771	.552	7.1
65	73	95	62.71	5.16	1.35	59.00	7.01	1.8	54.0	9.53	2.70	44.98	14.02	3.20
3	3.500	4.50	3.068	0.216	4.5	2.900	.300	6.0	2.624	.438	9.0	2.300	.600	11.2
80	89	114	77.93	5.49	2.03	73.66	7.62	2.7	66.7	11.13	4.05	58.42	15.24	5.04
(2)3 1/2	4.000	5.25	3.548	0.226	6.2	3.364	.318	8.5	-	-	-	(2)2.728	(2).636	16.2
90	102	133	90.12	5.74	2.8	85.45	8.08	3.83	-	-	-	69.29	16.15	7.3
4	4.500	6.00	4.026	0.237	8.5	3.826	.337	12	3.438	.531	19	3.152	.674	21.2
100	114	152	102.26	6.02	3.8	97.18	8.56	5.4	87.3	13.49	8.5	80.06	17.12	9.5
5	5.563	7.50	5.047	0.258	14.2	4.813	.375	20	4.313	.625	33	4.063	.750	38
125	141	190	128.19	6.55	6.4	122.25	9.53	9.0	109.6	15.88	15	103.20	19.05	17
6	6.625	9.00	6.065	0.280	23	5.761	.432	32	5.187	.719	59	4.897	.864	63
150	168	229	154.05	7.11	10.4	146.33	10.97	14	131.8	18.26	27	124.38	21.95	28
8	8.625	12.00	7.981	0.322	45	7.625	.500	68	6.813	.906	127	6.875	.875	120
200	219	305	202.72	8.18	20	193.68	12.70	31	173.05	23.01	57	174.63	22.23	54
10	10.750	15.00	10.02	0.365	78	9.750	.500	112	8.500	1.125	270			
250	273	381	254.5	9.27	35	247.65	12.70	50	215.90	28.58	122			
12	12.750	18.00	12.00	0.375	118	11.750	.500	150	10.126	1.312	460			
300	324	457	304.8	9.53	53	298.45	12.70	68	257.20	33.53	207			
14	14.000	21.0	13.25	0.375	147	13.00	.500	192	11.188	1.406	563			
350	356	533	336.6	9.53	66	330.2	12.70	86	284.18	35.71	253			
16	16.000	24.0	15.25	0.375	202	15.00	.500	258	12.812	1.594	825			
400	406	610	386.1	9.53	91	381.0	12.70	116	325.42	40.49	371			
18	18.000	27.0	17.25	0.375	256	17.00	.500	326						
450	457	686	438.2	9.53	115	431.8	12.70	147						
20	20.000	30.0	19.25	0.375	310	19.00	.500	420						
500	508	62	489.0	9.53	139	482.6	12.70	189						
22	22.000	33.0	21.25	0.375	394	21.00	.500	520						
550	559	838	539.8	9.53	177	533.4	12.70	234						
24	24.000	36.0	23.25	0.375	446	23.00	.500	606						
600	616	914	590.6	9.53	201	584.2	12.70	273						
26	26.000	39.0	25.25	0.375	550	25.00	.500	729						
650	660	991	641.4	9.53	247	635.0	12.70	328						
30	30.000	45.0	29.25	0.375	736	29.00	.500	953						
750	762	1143	743.0	9.53	331	736.6	12.70	429						
36	36.000	54.0	35.25	0.375	1062	35.00	.500	1412						
900	914	1372	895.4	9.53	478	889.0	12.70	635						
42 ^Δ	42.000	63.0	41.25	0.375	1370	41.00	.500	1890						
1100	1067	1600	1047.8	9.53	616	1041.1	12.70	820						

(1) May be furnished as 1.5 in (38mm) at the manufacturer's option.

(2) 3-1/2XXS is not specified in ASME/ANSI B36.10M.

(Δ) Produced from X-rayed, stress-relieved welded pipe. Welds are 100% radiographed in accordance with the requirements of ASME Boiler & Pressure Vessel Code.

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

INCHES	POUNDS
MILLIMETRES	KILOGRAMS