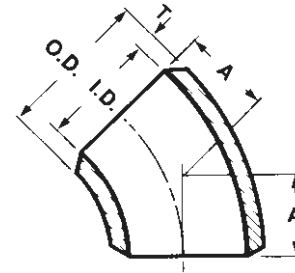


45° SEAMLESS ELBOWS LONG RADIUS

Standard Weight,
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 Nominal 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	.62	.622	.109	.08	-	-	-	-	-	-	-	-	-
	15	21	16	15.80	2.77	.04	-	-	-	-	-	-	-	-	-
3/4		1.050	.44	.824	.113	.08	.742	.154	.16	-	-	-	.434	.308	0.17
	20	27	11	20.93	2.87	.04	18.85	3.91	.07	-	-	-	11.02	7.82	.08
1		1.315	.88	1.049	.133	.25	.957	.179	.28	.815	.250	.38	.599	.358	.40
	25	33	22	26.24	3.38	.11	24.31	4.55	.13	20.70	6.35	.17	15.21	9.09	.18
1 1/4		1.660	1.00	1.380	.140	.33	1.278	.191	.44	1.160	.250	.50	.896	.382	.55
	32	42	25	35.05	3.56	.15	32.46	4.85	.20	29.46	6.35	.23	22.76	9.70	.25
1 1/2		1.900	1.12	1.610	.145	.47	1.500	.200	.60	1.338	.281	1.00	1.100	.400	1.15
	40	48	29	40.89	3.68	.21	38.10	5.08	.27	34.0	7.14	.45	27.94	10.16	.52
2		2.375	1.38	2.067	.154	.78	1.939	.218	1.05	1.687	.344	1.75	1.503	.436	2.13
	50	60	35	52.50	3.91	.35	49.25	5.54	.47	42.85	8.74	.79	38.18	11.07	.96
2 1/2		2.875	1.75	2.469	.203	1.66	2.323	.276	1.91	2.125	.375	3.00	1.771	.552	3.75
	65	73	44	62.71	5.16	.75	59.00	7.01	.86	53.98	9.53	1.35	44.98	14.02	1.7
3		3.500	2.00	3.068	.216	2.25	2.900	.300	3.08	2.624	.438	4.5	2.300	.600	5.75
	80	89	51	77.93	5.49	1.01	73.66	7.62	1.39	66.65	11.13	2.0	58.42	15.24	2.6
3 1/2		4.000	2.25	3.548	.226	3.16	3.364	.318	4.75	-	-	-	*2.728	*.636	8.65
	90	102	57	90.12	5.74	1.42	85.45	8.08	2.14	-	-	-	69.29	16.15	3.9
4		4.500	2.50	4.026	.237	4.25	3.826	.337	5.88	3.428	.531	9.5	3.152	.674	10.7
	100	114	64	102.26	6.02	1.91	97.18	8.56	2.65	87.33	13.49	4.3	80.06	17.12	4.8
5		5.563	3.12	5.047	.258	7.25	4.813	.375	10.0	4.313	.625	4.3	4.063	.750	19
	125	141	79	128.19	6.55	3.26	122.25	9.53	4.65	109.55	15.88	7.65	103.20	19.05	8.6
6		6.625	3.75	6.065	.280	11.5	5.761	.432	16.7	5.187	.719	30	4.897	.864	32
	150	168	95	154.05	7.11	5.18	146.33	10.97	7.5	131.8	18.26	13.5	124.38	21.95	14.4
8		8.625	5.00	7.981	.322	22.5	7.625	.500	34	6.813	.906	64	6.875	.875	60
	200	219	127	202.72	8.18	10	193.68	12.70	15	173.05	23.01	29	174.63	22.23	27
10		10.750	6.25	10.02	.365	39	9.750	.500	53	8.500	1.125	135	-	-	-
	250	273	150	254.5	9.27	18	247.65	12.70	24	215.9	28.58	61	-	-	-
12		12.750	7.50	12.00	.375	59	11.750	.500	74	10.126	1.312	230	-	-	-
	300	324	190	304.8	9.53	27	298.45	12.70	33	257.2	33.32	104	-	-	-
14		14.000	8.75	13.25	.375	74	13.00	.500	95	11.188	1.406	278	-	-	-
	350	356	222	336.6	9.53	33	330.2	12.70	43	284.2	35.71	125	-	-	-
16		16.000	10.00	15.25	.375	101	15.00	.500	131	12.812	1.594	415	-	-	-
	400	406	254	387.4	9.53	46	381.0	12.70	59	325.4	40.49	187	-	-	-
18		18.000	11.25	17.25	.375	128	17.00	.500	170						
	450	457	286	438.2	9.53	5	431.8	12.70	77						
20		20.000	12.50	19.25	.375	155	19.00	.500	205						
	500	508	318	489.0	9.53	70	482.6	12.70	92						
22		22.000	13.50	21.25	.375	197	21.00	.500	260						
	550	559	343	539.8	9.53	89	533.4	12.70	117						
24		24.000	15.00	23.25	.375	223	23.00	.500	295						
	600	610	381	590.6	9.53	100	584.2	12.70	133						
26		26.000	16.00	25.25	.375	275	25.00	.500	365						
	650	660	406	641.4	9.53	124	635.0	12.70	164						
30		30.000	18.50	29.25	.375	367	29.00	.500	475						
	750	762	470	743.0	9.53	165	736.6	12.70	214						
36		36.000	22.25	35.25	.375	531	35.00	.500	706						
	900	914	565	895.4	9.53	239	889.0	12.70	318						
42 ^A		42.000	26.00	41.25	.375	710	41.00	.500	950						
	1100	1067	860	1047.8	9.53	320	1041.4	12.70	428						

* NPS 3-1/2 (DN 90) XXS is not specified in ASME/ANSI B36.10M.

^A 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