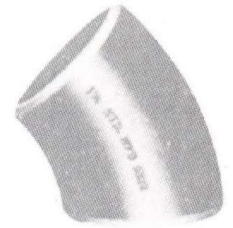
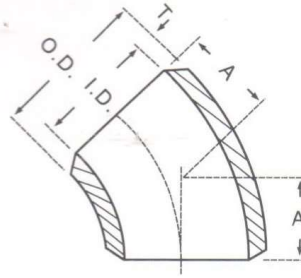


45° ELBOWS LONG RADIUS

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	15	.840 21	.62 16	.622 15.80	.109 2.77	.08 .04	- -	- -	- -	- -	- -	- -	- -	- -	- -
3/4	20	1.050 27	.44 11	.824 20.93	.113 2.87	.08 .04	.742 18.85	.154 3.91	.16 .07	- -	- -	- -	.434 11.02	.308 7.82	0.17 .08
1	25	1.315 33	.88 22	1.049 26.24	.133 3.38	.25 11	.957 24.31	.179 4.55	.28 .13	.815 20.70	.250 6.35	.38 .17	.599 15.21	.358 9.09	.40 .18
1 1/4	32	1.660 42	1.00 25	1.380 35.05	.140 3.56	.33 .15	1.278 32.46	.191 4.85	.44 .20	1.160 29.46	.250 6.35	.50 .23	.896 22.76	.382 9.70	.55 .25
1 1/2	40	1.900 48	1.12 29	1.610 40.89	.145 3.68	.47 .21	1.500 38.10	.200 5.08	.60 .27	1.338 34.0	.281 7.14	1.00 .45	1.100 27.94	.400 10.16	1.15 .52
2	50	2.375 60	1.38 35	2.067 52.50	.154 3.91	.78 .35	1.939 49.25	.218 5.54	1.05 .47	1.687 42.85	.344 8.74	1.75 .79	1.503 38.18	.436 11.07	2.13 .96
2 1/2	65	2.875 73	1.75 44	2.469 62.71	.203 5.16	1.66 .75	2.323 59.00	.276 7.01	1.91 .86	2.125 53.98	.375 9.53	3.00 1.35	1.771 44.98	.552 14.02	3.75 1.7
3	80	3.500 89	2.00 51	3.068 77.93	.216 5.49	2.25 1.01	2.900 73.66	.300 7.62	3.08 1.39	2.624 66.65	4.38 11.13	4.5 2.0	2.300 58.42	.600 15.24	5.75 2.6
3 1/2	90	4.000 102	2.25 57	3.548 90.12	.226 5.74	3.16 1.42	3.364 85.45	.318 8.08	4.75 2.14	- -	- -	- -	*2.728 69.29	*.636 16.15	8.65 3.9
4	100	4.500 114	2.50 64	4.026 102.26	.237 6.02	4.25 1.91	3.826 97.18	.337 8.56	5.88 2.65	3.428 87.33	.531 13.49	9.5 4.3	3.152 80.06	.674 17.12	10.7 4.8
5	125	5.563 141	3.12 79	5.047 128.19	.258 6.55	7.25 3.26	4.813 122.25	.375 9.53	10.0 4.65	4.313 109.55	.625 15.88	4.3 7.65	4.063 103.20	.750 19.05	19 8.6
6	150	6.625 168	3.75 95	6.065 154.05	.280 7.11	11.5 5.18	5.761 146.33	.432 10.97	16.7 7.5	5.187 131.8	.719 18.26	30 13.5	4.897 124.38	.864 21.95	32 14.4
8	200	8.625 219	5.00 127	7.981 202.72	.322 8.18	22.5 10	7.625 193.68	.500 12.70	34 15	6.813 173.05	.906 23.01	64 29	6.875 174.63	.875 22.23	60 27
10	250	10.750 273	6.25 150	10.02 254.5	.365 9.27	39 18	9.750 247.65	.500 12.70	53 24	8.500 215.9	1.125 28.58	135 61	- -	- -	- -
12	300	12.750 324	7.50 190	12.00 304.8	.375 9.53	59 27	11.750 298.45	.500 12.70	74 33	10.126 257.2	1.312 33.32	230 104	- -	- -	- -
14	350	14.000 356	8.75 222	13.25 336.6	.375 9.53	74 33	13.00 330.2	.500 12.70	95 43	11.188 284.2	1.406 35.71	278 125	- -	- -	- -
16	400	16.000 406	10.00 254	15.25 387.4	.375 9.53	101 46	15.00 381.0	.500 12.70	131 59	12.812 325.4	1.594 40.49	415 187	- -	- -	- -
18	450	18.000 457	11.25 286	17.25 438.2	.375 9.53	128 5	17.00 431.8	.500 12.70	170 77	- -	- -	- -	- -	- -	- -
20	500	20.000 508	12.50 318	19.25 489.0	.375 9.53	155 70	19.00 482.6	.500 12.70	205 92	- -	- -	- -	- -	- -	- -
22	550	22.000 559	13.50 343	21.25 539.8	.375 9.53	197 89	21.00 533.4	.500 12.70	260 117	- -	- -	- -	- -	- -	- -
24	600	24.000 610	15.00 381	23.25 590.6	.375 9.53	223 100	23.00 584.2	.500 12.70	295 133	- -	- -	- -	- -	- -	- -
26	650	26.000 660	16.00 406	25.25 641.4	.375 9.53	275 124	25.00 635.0	.500 12.70	365 164	- -	- -	- -	- -	- -	- -
30	750	30.000 762	18.50 470	29.25 743.0	.375 9.53	367 165	29.00 736.6	.500 12.70	475 214	- -	- -	- -	- -	- -	- -
36	900	36.000 914	22.25 565	35.25 895.4	.375 9.53	531 239	35.00 889.0	.500 12.70	706 318	- -	- -	- -	- -	- -	- -
42 ^Δ	1100	42.000 1067	26.00 860	41.25 1047.8	.375 9.53	710 320	41.00 1041.4	.500 12.70	950 428	- -	- -	- -	- -	- -	- -

* NPS 3-12 (DN 90) XXS is not specified in ASME/ANSI B36.10M

Δ Produced from x-rayed, stress relie ved 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
MILLIMETRES

POUNDS
KILOGRAMS