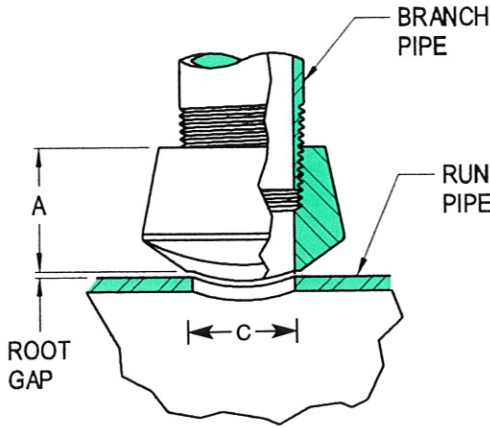


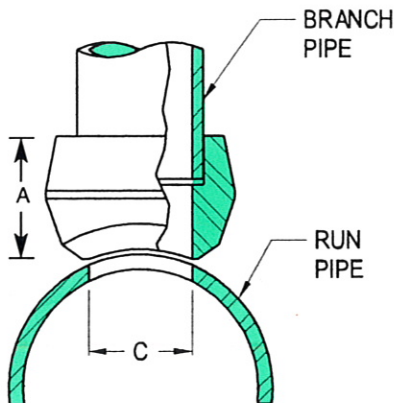
Threaded Outlets



Outlet Size NPS	Dimensions					
	Class 3000			Class 6000		
	A	C	Weight	A	C	Weight
1/8	3/4	.328	0.07	1-1/8	.157	0.15
1/4	3/4	.438	0.12	1-1/8	.250	0.30
3/8	13/16	.563	0.16	1-1/8	.359	0.30
1/2	1	.703	0.21	1-1/4	.464	0.42
3/4	1-1/16	.906	0.36	1-7/16	.612	0.71
1	1-5/16	1.141	0.59	1-9/16	.815	1.25
1-1/4	1-5/16	1.469	0.84	1-5/8	1.160	1.53
1-1/2	1-3/8	1.688	1.00	1-11/16	1.338	1.91
2	1-1/2	2.188	1.72	2-1/16	1.687	4.83
2-1/2	1-13/16	2.563	2.90	2-11/16	2.125	6.19
3	2	3.188	4.24	2-11/16	2.624	7.36
3-1/2	2-1/8	3.688	4.40	-	-	-
4	2-1/4	4.188	6.91	3-5/16	3.438	14.02
5	2-5/8	5.275	9.46	3-11/16	4.313	20.03
6	2-11/16	6.313	14.03	4-1/8	5.187	29.36

For Class 3000 - Figure No. 03502
 For Class 6000 - Figure No. 06502

Socket-Weld Outlets

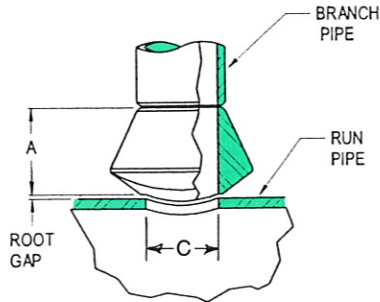


Outlet Size NPS	Dimensions					
	Class 3000			Class 6000		
	A	C	Weight	A	C	Weight
1/8	3/4	.269	0.07	1-1/8	.157	0.15
1/4	3/4	.364	0.12	1-1/8	.250	0.30
3/8	13/16	.493	0.16	1-1/8	.359	0.30
1/2	1	.622	0.27	1-1/4	.464	0.48
3/4	1-1/16	.824	0.36	1-7/16	.612	0.81
1	1-5/16	1.049	0.59	1-9/16	.815	1.30
1-1/4	1-5/16	1.380	0.84	1-5/8	1.160	1.54
1-1/2	1-3/8	1.610	1.00	1-11/16	1.338	1.97
2	1-1/2	2.067	1.53	2-1/16	1.687	5.01
2-1/2	1-13/16	2.469	2.66	2-11/16	2.125	6.19
3	2	3.068	3.72	2-11/16	2.624	7.36
3-1/2	2-1/8	3.548	4.40	-	-	-
4	2-1/4	4.026	7.05	3-5/16	3.438	14.02
5	2-5/8	5.047	9.46	3-11/16	4.313	20.03
6	2-11/16	6.065	14.03	4-1/8	5.187	29.36

For Class 3000 - Figure No. 13502
 For Class 6000 - Figure No. 16502

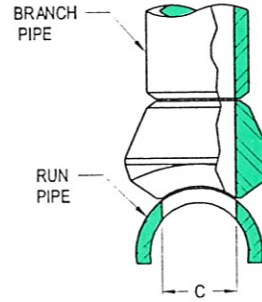
DIMENSIONS IN INCHES
 WEIGHTS IN POUNDS

Standard and Extra Heavy Butt-Weld Outlet



For Standard - Figure No. 45502
For Extra Heavy - Figure No. 48502

Schedule 160 and Double Extra Heavy Butt-Weld Outlet



For Schedule 160 - Figure No. 52502
For XXH - Figure No. 53502

Outlet Size Inches	Dimensions									
	Standard			Extra Heavy			SCH160	XXH		
	A	C	Weight	A	C	Weight	A	C	C	Weight
1/8	5/8	.269	.08	5/8	.215	.10				
1/4	5/8	.364	.08	5/8	.302	.08				
3/8	3/4	.493	.15	3/4	.423	.15				
1/2	3/4	.622	.18	3/4	.546	.20	1-1/8	.466	.252	.23
3/4	7/8	.824	.25	7/8	.742	.31	1-1/4	.614	.434	.65
1	1-1/16	1.049	.50	1-1/16	.957	.55	1-1/2	.815	.599	.78
1-1/4	1-1/4	1.380	.80	1-1/4	1.278	.90	1-3/4	1.160	.896	1.16
1-1/2	1-5/16	1.610	1.00	1-5/16	1.500	1.10	2	1.338	1.100	1.60
2	1-1/2	2.067	1.75	1-1/2	1.939	1.75	2-3/16	1.689	1.503	1.95
2-1/2	1-5/8	2.469	2.50	1-5/8	2.323	2.28	2-7/16	2.125	1.771	3.02
3	1-3/4	3.068	3.82	1-3/4	2.900	3.50	2-7/8	2.624	2.300	5.75
3-1/2	1-7/8	3.548	5.10	1-7/8	3.364	4.75				
4	2	4.026	6.20	2	3.826	5.00	3-7/16	3.438	3.152	9.56
5	2-1/4	5.047	8.00	2-1/4	4.813	8.50	3-11/16	4.313	4.063	12.65
6	2-3/8	6.065	11.50	3-1/16	5.761	15.00	4-1/8	5.189	4.897	25.25
8	2-3/4	7.981	22.00	3-7/8	7.625	35.00	*			
10	3-1/16	10.020	37.00	3-11/16	9.750	46.00	*			
12	3-3/8	12.000	44.00	4-1/16	11.750	63.00	*			
14	3-1/2	13.250	63.00	3-15/16	13.000	72.00	*			
16	3-11/16	15.250	76.00	4-3/16	15.000	102.00	*			
18	3-13/16	17.250	100.00	4-3/8	17.000	130.00	*			
20	4	19.250	112.00	4-11/16	19.000	163.00	*			
24	4-9/16	23.250	210.00	5-1/2	23.000	271.00	*			
26	4-11/16	25.250	245.00	5-3/4	25.000	325.00	*			
30	5-3/8	29.250	375.00				*			
36	5-3/8	35.250	498.00				*			
48	5-13/16	47.250	1125.00				*			

* For outlet sizes larger than 6" and "A" dimensions larger than 2-1/2", refer to Heavy Wall Chart

DIMENSIONS IN INCHES
WEIGHTS IN POUNDS

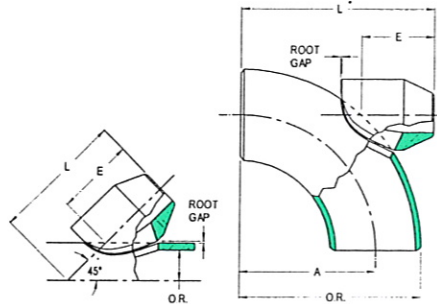
Lateral and Elbow Connections**

(** For 90 Degree Long Radius Pipe Elbows)

3000 & 6000 TD & SW also available

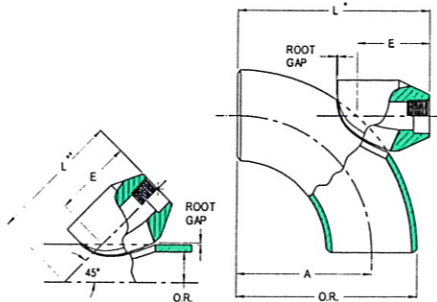
For Standard - Figure No. 45510

For XH - Figure No. 48510



or Standard - Figure No. 45520

For XH - Figure No. 48520



Outlet Size NPS	Dimensions		
	Standard	Extra Heavy	Weight
1/4	1-5/8	1-5/8	0.49
3/8	1-5/8	1-5/8	0.50
1/2	1-5/8	1-5/8	0.52
3/4	1-7/8	1-7/8	1.00
1	2-1/4	2-1/4	1.26
1-1/4	2-1/2	2-1/2	1.39
1-1/2	2-11/16	2-11/16	1.53
2	3-1/8	3-1/8	2.76
2-1/2	3-7/16	3-7/16	4.70
3	3-7/8	3-7/8	6.54
4	4-3/4	4-3/4	12.31
6	6-1/4	7-1/16	24.25
8	7-3/4	8-7/8	60.00
10	9-3/16	9-15/16	90.50
12	10-1/2	11-7/16	121.00

* $L = E + 1.414 (O.R)$ where O.R. is the outside radius

** $L = E + \sqrt{O.R.^2 - A^2}$

Heavy Wall Butt-Weld Outlets

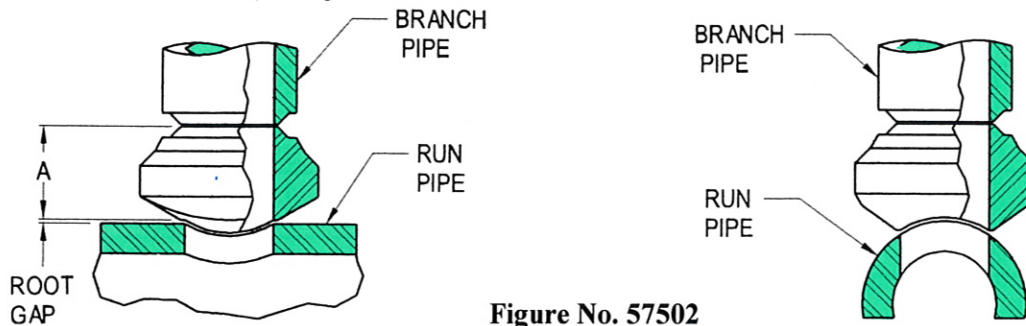


Figure No. 57502

Outlet Size NPS	"A" Dimension									
	Run Wall Nominal Thickness									
	3/4	1	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4	3
3	2-7/8	3-1/4	3-3/8	3-5/8	4-1/8	4-9/16	5	5-1/2	5-7/8	6-1/16
3-1/2	3-1/8	3-1/4	3-7/16	3-3/4	4-3/16	4-5/8	5-1/16	5-9/16	6	6-5/16
4	3-5/16	3-3/8	3-1/2	3-7/8	4-5/16	4-3/4	5-3/16	5-5/8	6-1/8	6-9/16
5	3-3/4	3-3/4	4	4-1/4	4-3/4	5-1/4	5-3/4	6-1/4	6-5/8	7-3/16
6	4-1/8	4-3/8	4-1/2	4-11/16	5-1/4	5-3/4	6-1/4	6-3/4	7-1/4	7-13/16
8	4-3/16	4-5/8	4-7/8	5-3/16	5-3/4	6-3/8	6-15/16	7-1/2	8-1/8	8-11/16
10	4-1/4	4-7/8	5	5-5/16	5-15/16	6-9/16	7-3/16	7-13/16	8-7/16	9-1/16
12	4-3/8	5-1/8	5-3/8	5-11/16	6-5/16	6-15/16	7-9/16	8-3/16	8-13/16	9-7/16
14	4-1/2	5-1/4	5-1/2	5-13/16	6-5/16	6-15/16	7-9/16	8-3/16	8-13/16	9-7/16
16	4-11/16	5-7/8	6	6-7/16	6-5/8	7-1/4	7-7/8	8-1/2	9-1/8	9-3/4
18	5-1/8	6-1/2	6-1/2	6-1/2	6-13/16	7-7/16	8-1/4	8-13/16	9-7/16	10-1/16
20	5-5/8	6-3/4	7	7-9/16	7-13/16	8-1/8	8-11/16	9-1/4	9-15/16	10-1/2
24	6-1/2	7-5/8	8	8-3/4	9	9-13/16	10-1/2	11	12-9/16	10-11/16

DIMENSIONS IN INCHES

WEIGHTS IN POUNDS