



CLASS 150

CLASS 300

CLASS 600

POINT OF WELD	S I Z E	O.D.		THK [min.]	DIA. OF HUB	LENGTH THROUGH HUB			DRILLING		(RTJ FACE)	
		O	C			THREAD SLIP-ON SOCKET	LAP JOINT	WELD NECK	B.C. DIA.	QTY. & SIZE	HEIGHT (E)	DIA. [min.] (K)
		X	Y	Y	Y	Y	Y	Y	Y			
0.840	1/2	3.50	0.44	1.19	0.62	0.62	1.88	2.38	4	0.625	...	...
1.050	3/4	3.88	0.50	1.50	0.62	0.62	2.06	2.75	4	0.625	...	...
1.315	1	4.25	0.56	1.94	0.69	0.69	2.19	3.12	4	0.625	0.250	2.50
1.660	1 1/4	4.62	0.62	2.31	0.81	0.81	2.25	3.50	4	0.625	0.250	2.88
1.900	1 1/2	5.00	0.69	2.56	0.88	0.88	2.44	3.88	4	0.625	0.250	3.25
2.375	2	6.00	0.75	3.06	1.00	1.00	2.50	4.75	4	0.750	0.250	4.00
2.875	2 1/2	7.00	0.88	3.56	1.12	1.12	2.75	5.50	4	0.750	0.250	4.75
3.500	3	7.50	0.94	4.25	1.19	1.19	2.75	6.00	4	0.750	0.250	5.25
4.000	3 1/2	8.50	0.94	4.81	1.25	1.25	2.81	7.00	8	0.750	0.250	6.06
4.500	4	9.00	0.94	5.31	1.31	1.31	3.00	7.50	8	0.750	0.250	6.75
5.563	5	10.00	0.94	6.44	1.44	1.44	3.50	8.50	8	0.875	0.250	7.62
6.625	6	11.00	1.00	7.56	1.56	1.56	3.50	9.50	8	0.875	0.250	8.62
8.625	8	13.50	1.12	9.69	1.75	1.75	4.00	11.75	8	0.875	0.250	10.75
10.750	10	16.00	1.19	12.00	1.94	1.94	4.00	14.25	12	1.000	0.250	13.00
12.750	12	19.00	1.25	14.38	2.19	2.19	4.50	17.00	12	1.000	0.250	16.00
14.000	14	21.00	1.38	15.75	2.25	3.12	5.00	18.75	12	1.125	0.250	16.75
16.000	16	23.50	1.44	18.00	2.50	3.44	5.00	21.25	16	1.125	0.250	19.00
18.000	18	25.00	1.56	19.88	2.69	3.81	5.50	22.75	16	1.250	0.250	21.50
20.000	20	27.50	1.69	22.00	2.88	4.06	5.69	25.00	20	1.250	0.250	23.50
24.000	24	32.00	1.88	26.12	3.25	4.38	6.00	29.50	20	1.375	0.250	28.00

POINT OF WELD	S I Z E	O.D.		THK [min.]	DIA. OF HUB	LENGTH THROUGH HUB			DRILLING		(RTJ FACE)	
		O	C			THREAD SLIP-ON SOCKET	LAP JOINT	WELD NECK	B.C. DIA.	QTY. & SIZE	HEIGHT (E)	DIA. [min.] (K)
		X	Y	Y	Y	Y	Y	Y	Y			
3.75	1/2	3.75	0.56	1.50	0.88	0.88	2.06	2.62	4	0.625	0.219	2.00
4.62	3/4	4.62	0.62	1.88	1.00	1.00	2.25	3.25	4	0.750	0.250	2.50
4.88	1	4.88	0.69	2.12	1.06	1.06	2.44	3.50	4	0.750	0.250	2.75
5.25	1 1/4	5.25	0.75	2.50	1.06	1.06	2.56	3.88	4	0.750	0.250	3.12
6.12	1 1/2	6.12	0.81	2.75	1.19	1.19	2.69	4.50	4	0.875	0.250	3.56
6.50	2	6.50	0.88	3.31	1.31	1.31	2.75	5.00	8	0.750	0.312	4.25
7.50	2 1/2	7.50	1.00	3.94	1.50	1.50	3.00	5.88	8	0.875	0.312	5.00
8.25	3	8.25	1.12	4.62	1.69	1.69	3.12	6.62	8	0.875	0.312	5.75
9.00	3 1/2	9.00	1.19	5.25	1.75	1.75	3.19	7.25	8	0.875	0.312	6.25
10.00	4	10.00	1.25	5.75	1.88	1.88	3.38	7.88	8	0.875	0.312	6.88
11.00	5	11.00	1.38	7.00	2.00	2.00	3.88	9.25	8	0.875	0.312	8.25
12.50	6	12.50	1.44	8.12	2.06	2.06	3.88	10.62	12	0.875	0.312	9.50
15.00	8	15.00	1.62	10.25	2.44	2.44	4.38	13.00	12	1.000	0.312	11.88
17.50	10	17.50	1.88	12.62	2.62	3.75	4.62	15.25	16	1.125	0.312	14.00
20.50	12	20.50	2.00	14.75	2.88	4.00	5.12	17.75	16	1.250	0.312	16.25
23.00	14	23.00	2.12	16.75	3.00	4.38	5.62	20.25	20	1.250	0.312	18.00
25.50	16	25.50	2.25	19.00	3.25	4.75	5.75	22.50	20	1.250	0.312	20.00
28.00	18	28.00	2.38	21.00	3.50	5.12	6.25	24.75	24	1.375	0.312	22.62
30.50	20	30.50	2.50	23.12	3.75	5.50	6.38	27.00	24	1.375	0.375	25.00
36.00	24	36.00	2.75	27.62	4.19	6.00	6.62	32.00	24	1.625	0.438	29.50

POINT OF WELD	S I Z E	O.D.		THK [min.]	DIA. OF HUB	LENGTH THROUGH HUB			DRILLING		(RTJ FACE)		RAISED FACE DIA.	
		O	C			THREAD SLIP-ON SOCKET	LAP JOINT	WELD NECK	B.C. DIA.	QTY. & SIZE	HEIGHT (E)	DIA. [min.] (K)		
		X	Y	Y	Y	Y	Y	Y	Y					
3.75	1/2	3.75	0.56	1.50	0.88	0.88	2.06	2.62	4	0.625	0.219	2.00	1/2	1.38
4.62	3/4	4.62	0.62	1.88	1.00	1.00	2.25	3.25	4	0.750	0.250	2.50	3/4	1.69
4.88	1	4.88	0.69	2.12	1.06	1.06	2.44	3.50	4	0.750	0.250	2.75	1	2.00
5.25	1 1/4	5.25	0.81	2.50	1.12	1.12	2.62	3.88	4	0.750	0.250	3.12	1 1/4	2.50
6.12	1 1/2	6.12	0.88	2.75	1.25	1.25	2.75	4.50	4	0.875	0.250	3.56	1 1/2	2.88
6.50	2	6.50	1.00	3.31	1.44	1.44	2.88	5.00	8	0.750	0.312	4.25	2	3.62
7.50	2 1/2	7.50	1.12	3.94	1.62	1.62	3.12	5.88	8	0.875	0.312	5.00	2 1/2	4.12
8.25	3	8.25	1.25	4.62	1.81	1.81	3.25	6.62	8	0.875	0.312	5.75	3	5.00
9.00	3 1/2	9.00	1.38	5.25	1.94	1.94	3.38	7.25	8	1.000	0.312	6.25	3 1/2	5.50
10.75	4	10.75	1.50	6.00	2.12	2.12	4.00	8.50	8	1.000	0.312	6.88	4	6.19
13.00	5	13.00	1.75	7.44	2.38	2.38	4.50	10.50	8	1.125	0.312	8.25	5	7.31
14.00	6	14.00	1.88	8.75	2.62	2.62	4.62	11.50	12	1.125	0.312	9.50	6	8.50
16.50	8	16.50	2.19	10.75	3.00	3.00	5.25	13.75	12	1.250	0.312	11.88	8	10.62
20.00	10	20.00	2.50	13.50	3.38	4.38	6.00	17.00	16	1.375	0.312	14.00	10	12.75
22.00	12	22.00	2.62	15.75	3.62	4.62	6.12	19.25	20	1.375	0.312	16.25	12	15.00
23.75	14	23.75	2.75	17.00	3.69	5.00	6.50	20.75	20	1.500	0.312	18.00	14	16.25
27.00	16	27.00	3.00	19.50	4.19	5.50	7.00	23.75	20	1.625	0.312	20.00	16	18.50
29.25	18	29.25	3.25	21.50	4.62	6.00	7.25	25.75	20	1.750	0.312	22.62	18	21.00
32.00	20	32.00	3.50	24.00	5.00	6.50	7.50	28.50	24	1.750	0.375	25.00	20	23.00
37.00	24	37.00	4.00	28.25	5.50	7.25	8.00	33.00	24	2.000	0.438	29.50	24	27.25

CLASS 900

CLASS 1500

CLASS 2500

POINT OF WELD	S I Z E	O.D.		THK [min.]	DIA. OF HUB	LENGTH THROUGH HUB			DRILLING		(RTJ FACE)	
		O	C			THREAD SLIP-ON	LAP JOINT	WELD NECK	B.C. DIA.	QTY. & SIZE	HEIGHT (E)	DIA. [min.] (K)
		X	Y	Y	Y	Y	Y	Y	Y			
0.840	1/2	4.75	0.88	1.50	1.25	1.25	2.38	3.25	4	0.875	0.219	2.00
1.050	3/4	5.12	1.00	1.75	1.38	1.38	2.75	3.50	4	0.875	0.250	2.50
1.315	1	5.88	1.12	2.06	1.62	1.62	2.88	4.00	4	1.000	0.250	2.75
1.660	1 1/4	6.25	1.12	2.50	1.62	1.62	2.88	4.38	4	1.000	0.250	3.12
1.900	1 1/2	7.00	1.25	2.75	1.75	1.75	3.25	4.88	4	1.125	0.250	3.56
2.375	2	8.50	1.50	4.12	2.25	2.25	4.00	6.50	8	1.000	0.312	4.88
2.875	2 1/2	9.62	1.62	4.88	2.50	2.50	4.12	7.50	8	1.125	0.312	5.00
3.500	3	9.50	1.50	5.00	2.12	2.12	4.00	7.50	8	1.000	0.312	6.12
4.500	4	11.50	1.75	6.25	2.75	2.75	4.50	9.25	8	1.250	0.312	7.12
5.563	5	13.75	2.00	7.50	3.12	3.12	5.00	11.00	8	1.375	0.312	8.50
6.625	6	15.00	2.19	9.25	3.38	3.38	5.50	12.50	12	1.250	0.312	9.50
8.625	8	18.50	2.50	11.75	4.00	4.50	6.38	15.50	12	1.500	0.312	12.12
10.750	10	21.50	2.75	14.50	4.25	5.00	7.25	18.50	16	1.500	0.312	14.25
12.750	12	24.00	3.12	16.50	4.62	5.62	7.88	21.00	20	1.500	0.312	16.50
14.000	14	25.25	3.38	17.75	5.12	6.12	8.38	22.00	20	1.625	0.438	18.38
16.000	16	27.75	3.50	20.00	5.25	6.50	8.50	24.25	20	1.750	0.438	20.62
18.000	18	31.00	4.00	22.25	6.00	7.50	9.00	27.00	20	2.000	0.500	23.38
20.000	20	33.75	4.25	24.50	6.25	8.25	9.75	29.50	20	2.125	0.500	25.50
24.000	24	41.00	5.50	29.50	8.00	10.50	11.50	35.50	20	2.625	0.625	30.38

POINT OF WELD	S I Z E	O.D.		THK [min.]	DIA. OF HUB	LENGTH THROUGH HUB			DRILLING		(RTJ FACE)	
		O	C			THREAD SLIP-ON SOCKET	LAP JOINT	WELD NECK	B.C. DIA.	QTY. & SIZE	HEIGHT (E)	DIA. [min.] (K)
		X	Y	Y	Y	Y	Y	Y	Y			
4.75	1/2	4.75	0.88	1.50	1.25	1.25	2.38	3.25	4	0.875	0.250	2.38
5.12	3/4	5.12	1.00	1.75	1.38	1.38	2.75	3.50	4	0.875	0.250	2.62
5.88	1	5.88	1.12	2.06	1.62	1.62	2.88	4.00	4	1.000	0.250	2.81
6.25	1 1/4											

ASME B16.5 Pipe Schedules (Fractional)

NOM. PIPE SIZE	POINT OF WELD	<u>5</u>		<u>10</u>		<u>20</u>		<u>30</u>		<u>40</u>		<u>STD</u>		<u>60</u>		<u>80</u>		<u>XS</u>		<u>100</u>		<u>120</u>		<u>140</u>		<u>160</u>		<u>XXS</u>		NOM. PIPE SIZE
		I.D.	N.W.	I.D.	N.W.	I.D.	N.W.	I.D.	N.W.	I.D.	N.W.	I.D.	N.W.	I.D.	N.W.	I.D.	N.W.	I.D.	N.W.	I.D.	N.W.	I.D.	N.W.	I.D.	N.W.	I.D.	N.W.	I.D.	N.W.	
1/2	0.840	0.710	0.065	0.674	0.083	...	...	...	...	0.622	0.109	0.622	0.109	...	...	0.546	0.147	0.546	0.147	...	...	...	...	...	...	0.464	0.188	0.252	0.294	1/2
3/4	1.050	0.920	0.065	0.884	0.083	...	...	...	...	0.824	0.113	0.824	0.113	...	...	0.742	0.154	0.742	0.154	...	...	...	...	...	...	0.612	0.219	0.434	0.308	3/4
1	1.315	1.185	0.065	1.097	0.109	...	...	...	...	1.049	0.133	1.049	0.133	...	...	0.957	0.179	0.957	0.179	...	...	...	...	...	...	0.815	0.250	0.599	0.358	1
1 1/4	1.660	1.530	0.065	1.442	0.109	...	...	...	...	1.380	0.140	1.380	0.140	...	...	1.278	0.191	1.278	0.191	...	...	...	...	...	...	1.160	0.250	0.896	0.382	1 1/4
1 1/2	1.900	1.770	0.065	1.682	0.109	...	...	...	...	1.610	0.145	1.610	0.145	...	...	1.500	0.200	1.500	0.200	...	...	...	...	...	...	1.338	0.281	1.100	0.400	1 1/2
2	2.375	2.245	0.065	2.157	0.109	...	...	...	...	2.067	0.154	2.067	0.154	...	...	1.939	0.218	1.939	0.218	...	...	...	...	...	...	1.687	0.344	1.503	0.436	2
2 1/2	2.875	2.709	0.083	2.635	0.120	...	...	...	...	2.469	0.203	2.469	0.203	...	...	2.323	0.276	2.323	0.276	...	...	...	...	...	...	2.125	0.375	1.771	0.552	2 1/2
3	3.500	3.334	0.083	3.260	0.120	...	...	...	...	3.068	0.216	3.068	0.216	...	...	2.900	0.300	2.900	0.300	...	...	...	...	...	...	2.624	0.438	2.300	0.600	3
3 1/2	4.000	3.834	0.083	3.760	0.120	...	...	...	...	3.548	0.226	3.548	0.226	...	...	3.364	0.318	3.364	0.318	...	...	...	...	...	...	...	...	...	...	3 1/2
4	4.500	4.334	0.083	4.260	0.120	...	...	...	...	4.026	0.237	4.026	0.237	...	...	3.826	0.337	3.826	0.337	...	...	3.624	0.438	...	...	3.438	0.531	3.152	0.674	4
5	5.563	5.345	0.109	5.295	0.134	...	...	...	...	5.047	0.258	5.047	0.258	...	...	4.813	0.375	4.813	0.375	...	...	4.563	0.500	...	...	4.313	0.625	4.063	0.750	5
6	6.625	6.407	0.109	6.357	0.134	...	...	...	...	6.065	0.280	6.065	0.280	...	...	5.761	0.432	5.761	0.432	...	...	5.501	0.562	...	...	5.187	0.719	4.897	0.864	6
8	8.625	8.407	0.109	8.329	0.148	8.125	0.250	8.071	0.277	7.981	0.322	7.981	0.322	7.813	0.406	7.625	0.500	7.625	0.500	7.437	0.594	7.187	0.719	7.001	0.812	6.813	0.906	6.875	0.875	8
10	10.750	10.482	0.134	10.420	0.165	10.250	0.250	10.136	0.307	10.020	0.365	10.020	0.365	9.750	0.500	9.562	0.594	9.750	0.500	9.312	0.719	9.062	0.844	8.750	1.000	8.500	1.125	8.750	1.000	10
12	12.750	12.438	0.156	12.390	0.180	12.250	0.250	12.090	0.330	11.938	0.406	12.000	0.375	11.626	0.562	11.374	0.688	11.750	0.500	11.062	0.844	10.750	1.000	10.500	1.125	10.126	1.312	10.750	1.000	12
14	14.000	13.688	0.156	13.500	0.250	13.376	0.312	13.250	0.375	13.124	0.438	13.250	0.375	12.812	0.594	12.500	0.750	13.000	0.500	12.124	0.938	11.812	1.094	11.500	1.250	11.188	1.406	...	...	14
16	16.000	15.670	0.165	15.500	0.250	15.376	0.312	15.250	0.375	15.000	0.500	15.250	0.375	14.688	0.656	14.312	0.844	15.000	0.500	13.938	1.031	13.562	1.219	13.124	1.438	12.812	1.594	...	...	16
18	18.000	17.670	0.165	17.500	0.250	17.376	0.312	17.124	0.438	16.876	0.562	17.250	0.375	16.500	0.750	16.124	0.938	17.000	0.500	15.688	1.156	15.250	1.375	14.876	1.562	14.438	1.781	...	...	18
20	20.000	19.624	0.188	19.500	0.250	19.250	0.375	19.000	0.500	18.812	0.594	19.250	0.375	18.376	0.812	17.938	1.031	19.000	0.500	17.438	1.281	17.000	1.500	16.500	1.750	16.062	1.969	...	...	20
24	24.000	23.564	0.218	23.500	0.250	23.250	0.375	22.876	0.562	22.624	0.688	23.250	0.375	22.062	0.969	21.562	1.219	23.000	0.500	20.938	1.531	20.376	1.812	19.876	2.062	19.312	2.344	...	...	24

FLANGE WEIGHTS	NOM. PIPE SIZE	CLASS 150					CLASS 300					CLASS 600					CLASS 900					CLASS 1500					CLASS 2500					NOM. PIPE SIZE
		WELD NECK	SLIP-ON THRD	LAP JOINT	BLIND	SOCKET	WELD NECK	SLIP-ON THRD	LAP JOINT	BLIND	SOCKET	WELD NECK	SLIP-ON THRD	LAP JOINT	BLIND	SOCKET	WELD NECK	SLIP-ON THRD	LAP JOINT	BLIND	SOCKET	WELD NECK	SLIP-ON THRD	LAP JOINT	BLIND	SOCKET	WELD NECK	THRD	LAP JOINT	BLIND		
1/2	2	1	1	2	2	2	1.5	1.5	2	3	3	2	2	2	3	7	6	6	4	7	6	6	4	6.3	8	7	7	7	7	1/2		
3/4	2	1.5	1.5	2	2	3	2.5	2.5	3	3	3.5	3	3	3	3	7	6	6	6	7	6	6	6	6.3	9	9	8	10	10	3/4		
1	2.5	2	2	2	2	4	3	3	4	3	4	3.5	3.5	4	4	8.5	7.5	7.5	9	8.5	7.5	7.5	9	8	13	12	12	12	12	1		
1 1/4	2.5	2.5	2.5	3	3	5	4.5	4.5	6	4	5.5	4.5	4.5	6	6	10	10	10	10	10	10	10	10	11	20	18	17	18	18	1 1/4		
1 1/2	4	3	3	3	3	7	6.5	6.5	7	6	8	6.5	6.5	8	7	14	14	14	14	14	14	14	14	15	28	25	24	25	25	1 1/2		
2	6	5	5	4	5	8	7	7	8	7	10	8	8	10	9	24	22	21	25	24	22	21	25	24	42	38	37	39	39	2		
2 1/2	10	8	8	7	7	12	10	10	12	10	14	12	11	15	13	36	36	29	35	36	36	29	35	38	52	55	53	56	56	2 1/2		
3	11.5	9	9	9	8	18	13	14.5	16	13	18	15	14	20	16	29	31	25	32	48	...	38	48	...	94	83	80	86	86	3		
3 1/2	12	11	11	13	...	20	16	16	21	...	26	21	20	29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3 1/2
4	16.5	13	12	17	...	26.5	23.5	24	28	...	37	33	31	41	...	51	53	51	54	69	...	75	73	...	146	127	122	133	133	4		
5	21	15	13	20	...	36	29	26	37	...	68	63	63	68	...	86	83	81	87	132	...	138	142	...	244	210	204	223	223	5		
6	26	17	18	27	...	45	36	38	48	...	73	80	78	86	...	110	108	105	113	164	...	170	159	...	378	323	314	345	345	6		
8	42	28	28	47	...	69	56	55	79	...	112	97	112	139	...	187	172	188	197	273	...	286	302	...	576	485	471	533	533	8		
10	54	40	36	67	...	100	77	88	122	...	189	177	195	231	...	268	245	277	290	454	...	485	507	...	1068	925	897	1025	1025	10		
12	88	61	60	123	...	142	113	139	183	...	226	215	240	295	...	372	326	371	413	690	...	749	775	...	1608	1300	1262	1464	1464	12		
14	114	83	77	139	...	206	159	184	241	...	347	259	290	378	...	562	380	397	494	900	...	845	909	...	...	...	...	...	...	14
16	142	106	104	187	...	249	210	234	315	...	481	366	400	527	...	685	459	488	619	1143	...	1086	1229	...	...	...	...	...	...	16
18	165	109	146	217	...	306	253	305	414	...	555	476	469	665	...	924	647	670	880	1484	...	1402	1674	...	...	...	...	...	...	18
20	197	148	159	283	...	369	307	375	515	...	690	612	604	855	...	1164	792	868	1107	1817	...	1684	2124	...	...	...	...	...	...	20
24	268	204	195	415	...	579	490	530	800	...	977	876	866	1175	...	2107	1480	1659	2099	2875	...	2691	3432	...	...	...	...	...	...	24