



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)		
					THREAD SLIP-ON SOCKET	LAP JOINT	WELD NECK	B.C. DIA.	QTY. & SIZE	HEIGHT	DIA. [min.]	
					X	Y	Y	(E)	(K)			
21.3	1/2	88.9	11.2	30.2	15.7	15.7	47.8	60.5	4	15.9	...	...
26.7	3/4	98.6	12.7	38.1	15.7	15.7	52.3	69.9	4	15.9	...	...
33.4	1	108.0	14.2	49.3	17.5	17.5	55.6	79.2	4	15.9	6.4	63.5
42.2	1 1/4	117.3	15.7	58.7	20.6	20.6	57.2	88.9	4	15.9	6.4	73.2
48.3	1 1/2	127.0	17.5	65.0	22.4	22.4	62.0	98.6	4	15.9	6.4	82.6
60.3	2	152.4	19.1	77.7	25.4	25.4	63.5	120.7	4	19.1	6.4	101.6
73.0	2 1/2	177.8	22.4	90.4	28.4	28.4	69.9	139.7	4	19.1	6.4	120.7
88.9	3	190.5	23.9	108.0	30.2	30.2	69.9	152.4	4	19.1	6.4	133.4
101.6	3 1/2	215.9	23.9	122.2	31.8	31.8	71.4	177.8	8	19.1	6.4	153.9
114.3	4	228.6	23.9	134.9	33.3	33.3	76.2	190.5	8	19.1	6.4	171.5
141.3	5	254.0	23.9	163.6	36.6	36.6	88.9	215.9	8	22.2	6.4	193.5
168.3	6	279.4	25.4	192.0	39.6	39.6	88.9	241.3	8	22.2	6.4	218.9
219.1	8	342.9	28.4	246.1	44.5	44.5	101.6	298.5	8	22.2	6.4	273.1
273.1	10	406.4	30.2	304.8	49.3	49.3	101.6	362.0	12	25.4	6.4	330.2
323.9	12	482.6	31.8	365.3	55.6	55.6	114.3	431.8	12	25.4	6.4	406.4
355.6	14	533.4	35.1	400.1	57.2	79.2	127.0	476.3	12	28.6	6.4	425.5
406.4	16	596.9	36.6	457.2	63.5	87.4	127.0	539.8	16	28.6	6.4	482.6
457.2	18	635.0	39.6	505.0	68.3	96.8	139.7	577.9	16	31.8	6.4	546.1
508.0	20	698.5	42.9	558.8	73.2	103.1	144.5	635.0	20	31.8	6.4	596.9
609.6	24	812.8	47.8	663.4	82.6	111.3	152.4	749.3	20	34.9	6.4	711.2

POINT OF WELD	S I Z E	O.D.	THK [min.]	DIA. OF HUB	LENGTH THROUGH HUB			DRILLING		(RTJ FACE)		
					THREAD SLIP-ON SOCKET	LAP JOINT	WELD NECK	B.C. DIA.	QTY. & SIZE	HEIGHT	DIA. [min.]	
					X	Y	Y	(E)	(K)			
95.3	1/2	95.3	14.2	38.1	22.4	22.4	52.3	66.5	4	15.9	5.6	50.8
117.3	3/4	117.3	15.7	47.8	25.4	25.4	57.2	82.6	4	19.1	6.4	63.5
124.0	1	124.0	17.5	53.8	26.9	26.9	62.0	88.9	4	19.1	6.4	69.9
133.4	1 1/4	133.4	19.1	63.5	26.9	26.9	65.0	98.6	4	19.1	6.4	79.2
155.4	1 1/2	155.4	20.6	69.9	30.2	30.2	68.3	114.3	4	22.2	6.4	90.4
165.1	2	165.1	22.4	84.1	33.3	33.3	69.9	127.0	8	19.1	7.9	108.0
190.5	2 1/2	190.5	25.4	100.1	38.1	38.1	76.2	149.4	8	22.2	7.9	127.0
209.6	3	209.6	28.4	117.3	42.9	42.9	79.2	168.1	8	22.2	7.9	146.1
228.6	3 1/2	228.6	30.2	133.4	44.5	44.5	81.0	184.2	8	22.2	7.9	158.8
254.0	4	254.0	31.8	146.1	47.8	47.8	85.9	200.2	8	22.2	7.9	174.8
279.4	5	279.4	35.1	177.8	50.8	50.8	98.6	235.0	8	22.2	7.9	209.6
317.5	6	317.5	36.6	206.2	52.3	52.3	98.6	269.7	12	22.2	7.9	241.3
381.0	8	381.0	41.1	260.4	62.0	62.0	111.3	330.2	12	25.4	7.9	301.8
444.5	10	444.5	47.8	320.5	66.5	95.3	117.3	387.4	16	28.6	7.9	355.6
520.7	12	520.7	50.8	374.7	73.2	101.6	130.0	450.9	16	31.8	7.9	412.8
584.2	14	584.2	53.8	425.5	76.2	111.3	142.7	514.4	20	31.8	7.9	457.2
647.7	16	647.7	57.2	482.6	82.6	120.7	146.1	571.5	20	31.8	7.9	508.0
711.2	18	711.2	60.5	533.4	88.9	130.0	158.8	628.7	24	34.9	7.9	574.5
774.7	20	774.7	63.5	587.2	95.3	139.7	162.1	685.8	24	34.9	9.5	635.0
914.4	24	914.4	69.9	701.5	106.4	152.4	168.1	812.8	24	41.3	11.1	749.3

POINT OF WELD	S I Z E	O.D.	THK [min.]	DIA. OF HUB	LENGTH THROUGH HUB			DRILLING		(RTJ FACE)		
					THREAD SLIP-ON SOCKET	LAP JOINT	WELD NECK	B.C. DIA.	QTY. & SIZE	HEIGHT	DIA. [min.]	
					X	Y	Y	(E)	(K)			
95.3	1/2	95.3	14.2	38.1	22.4	22.4	52.3	66.5	4	15.9	5.6	50.8
117.3	3/4	117.3	15.7	47.8	25.4	25.4	57.2	82.6	4	19.1	6.4	63.5
124.0	1	124.0	17.5	53.8	26.9	26.9	62.0	88.9	4	19.1	6.4	69.9
133.4	1 1/4	133.4	20.6	63.5	28.4	28.4	66.5	98.6	4	19.1	6.4	79.2
155.4	1 1/2	155.4	22.4	69.9	31.8	31.8	69.9	114.3	4	22.2	6.4	90.4
165.1	2	165.1	25.4	84.1	36.6	36.6	73.2	127.0	8	19.1	7.9	108.0
190.5	2 1/2	190.5	28.4	100.1	41.1	41.1	79.2	149.4	8	22.2	7.9	127.0
209.6	3	209.6	31.8	117.3	46.0	46.0	82.6	168.1	8	22.2	7.9	146.1
228.6	3 1/2	228.6	35.1	133.4	49.3	49.3	85.9	184.2	8	25.4	7.9	158.8
273.1	4	273.1	38.1	152.4	53.8	53.8	101.6	215.9	8	25.4	7.9	174.8
330.2	5	330.2	44.5	189.0	60.5	60.5	114.3	266.7	8	28.6	7.9	209.6
355.6	6	355.6	47.8	222.3	66.5	66.5	117.3	292.1	12	28.6	7.9	241.3
419.1	8	419.1	55.6	273.1	76.2	76.2	133.4	349.3	12	31.8	7.9	301.8
508.0	10	508.0	63.5	342.9	85.9	111.3	152.4	431.8	16	34.9	7.9	355.6
558.8	12	558.8	66.5	400.1	91.9	117.3	155.4	489.0	20	34.9	7.9	412.8
603.3	14	603.3	69.9	431.8	93.7	127.0	165.1	527.1	20	38.1	7.9	457.2
685.8	16	685.8	76.2	495.3	106.4	139.7	177.8	603.3	20	41.3	7.9	508.0
743.0	18	743.0	82.6	546.1	117.3	152.4	184.2	654.1	20	44.5	7.9	574.5
812.8	20	812.8	88.9	609.6	127.0	165.1	190.5	723.9	24	44.5	9.5	635.0
939.8	24	939.8	101.6	717.6	139.7	184.2	203.2	838.2	24	50.8	11.1	749.3

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)		
					THREAD SLIP-ON SOCKET	LAP JOINT	WELD NECK	B.C. DIA.	QTY. & SIZE	HEIGHT	DIA. [min.]	
					X	Y	Y	(E)	(K)			
21.3	1/2	120.7	22.4	38.1	31.8	31.8	60.5	82.6	4	22.2	5.6	50.8
26.7	3/4	130.0	25.4	44.5	35.1	35.1	69.9	88.9	4	22.2	6.4	63.5
33.4	1	149.4	28.4	52.3	41.1	41.1	73.2	101.6	4	25.4	6.4	69.9
42.2	1 1/4	158.8	28.4	63.5	41.1	41.1	73.2	111.3	4	25.4	6.4	79.2
48.3	1 1/2	177.8	31.8	69.9	44.5	44.5	82.6	124.0	4	28.6	6.4	90.4
60.3	2	215.9	38.1	104.6	57.2	57.2	101.6	165.1	8	25.4	7.9	124.0
73.0	2 1/2	244.3	41.1	124.0	63.5	63.5	104.6	190.5	8	28.6	7.9	136.7
88.9	3	241.3	38.1	127.0	53.8	53.8	101.6	190.5	8	25.4	7.9	155.4
114.3	4	292.1	44.5	158.8	69.9	69.9	114.3	235.0	8	31.8	7.9	180.8
141.3	5	349.3	50.8	190.5	79.2	79.2	127.0	279.4	8	34.9	7.9	215.9
168.3	6	381.0	55.6	235.0	85.9	85.9	139.7	317.5	12	31.8	7.9	241.3
219.1	8	469.9	63.5	298.5	101.6	114.3	162.1	393.7	12	38.1	7.9	307.8
273.1	10	546.1	69.9	368.3	108.0	127.0	184.2	469.9	16	38.1	7.9	362.0
323.9	12	609.6	79.2	419.1	117.3	142.7	200.2	533.4	20	38.1	7.9	419.1
355.6	14	641.4	85.9	450.9	130.0	155.4	212.9	558.8	20	41.3	11.1	466.9
406.4	16	704.9	88.9	508.0	133.4	165.1	215.9	616.0	20	44.5	11.1	523.7
457.2	18	787.4	101.6	565.2	152.4	190.5	228.6	685.8	20	50.8	12.7	593.9
508.0	20	857.3	108.0	622.3	158.8	209.6	247.7	749.3	20	54.0	12.7	647.7
609.6	24	1041.4	139.7	749.3	203.2	266.7	292.1	901.7	20	66.7	15.9	771.7

POINT OF WELD	S I Z E	O.D.	THK [min.]	DIA. OF HUB	LENGTH THROUGH HUB			DRILLING		(RTJ FACE)		
					THREAD SLIP-ON SOCKET	LAP JOINT	WELD NECK	B.C. DIA.	QTY. & SIZE	HEIGHT	DIA. [min.]	
					X	Y	Y	(E)	(K)			
120.7	1/2	120.7	22.4	38.1	31.8	31.8	60.5	82.6	4	22.2	6.4	60.5
130.0	3/4	130.0	25.4	44.5	35.1	35.1	69.9	88.9	4	22.2	6.4	66.5
149.4	1	149.4	28.4	52.3	41.1	41.1	73.2	101.6	4	25.4	6.4	71.4
158.8	1 1/4	158.8	28.4	63.5	41.1	41.1	73.2	111.3	4	25.4	6.4	81.0
177.8	1 1/2	177.8	31.8	69.9	44.5	44.5	82.6	124.0	4	28.6	6.4	91.9
215.9	2	215.9	38.1	104.6	57.2	57.2	101.6	165.1	8	25.4	7.9	124.0
244.3	2 1/2	244.3	41.1	124.0	63.5	63.5	104.6	190.5	8	28.6	7.9	136.7
266.7	3	266.7	47.8	133.4	...	73.2	117.3	203.2	8	31.8	7.9	168.1
311.2	4											

ASME B16.5 Pipe Schedules (Metric)

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	21.3	18.0	1.7	17.1	2.1	15.8	2.8	15.8	2.8	13.9	3.7	13.9	3.7	11.8	4.8		6.4	7.5	1/2
3/4	26.7	23.4	1.7	22.5	2.1	...	...	...	...	20.9	2.9	20.9	2.9	...	...	18.8	3.9	18.8	3.9	...	...	...	...	...	...	15.5	5.6	11.0	7.8	3/4
1	33.4	30.1	1.7	27.9	2.8	...	...	...	...	26.6	3.4	26.6	3.4	...	...	24.3	4.5	24.3	4.5	...	...	...	...	...	...	20.7	6.4	15.2	9.1	1
1 1/4	42.2	38.9	1.7	36.6	2.8	...	...	...	...	35.1	3.6	35.1	3.6	...	...	32.5	4.9	32.5	4.9	...	...	...	...	...	...	29.5	6.4	22.8	9.7	1 1/4
1 1/2	48.3	45.0	1.7	42.7	2.8	...	...	...	...	40.9	3.7	40.9	3.7	...	...	38.1	5.1	38.1	5.1	...	...	...	...	...	...	34.0	7.1	27.9	10.2	1 1/2
2	60.3	57.0	1.7	54.8	2.8	...	...	...	...	52.5	3.9	52.5	3.9	...	...	49.3	5.5	49.3	5.5	...	...	...	...	...	...	42.8	8.7	38.2	11.1	2
2 1/2	73.0	68.8	2.1	66.9	3.0	...	...	...	...	62.7	5.2	62.7	5.2	...	...	59.0	7.0	59.0	7.0	...	...	...	...	...	...	54.0	9.5	45.0	14.0	2 1/2
3	88.9	84.7	2.1	82.8	3.0	...	...	...	...	77.9	5.5	77.9	5.5	...	...	73.7	7.6	73.7	7.6	...	...	...	...	...	...	66.6	11.1	58.4	15.2	3
3 1/2	101.6	97.4	2.1	95.5	3.0	90.1	5.7	90.1	5.7	85.4	8.1	85.4	8.1	3 1/2
4	114.3	110.1	2.1	108.2	3.0	...	...	...	...	102.3	6.0	102.3	6.0	...	...	97.2	8.6	97.2	8.6	...	...	92.0	11.1	...	...	87.3	13.5	80.1	17.1	4
5	141.3	135.8	2.8	134.5	3.4	...	...	...	...	128.2	6.6	128.2	6.6	...	...	122.3	9.5	122.3	9.5	...	...	115.9	12.7	...	...	109.6	15.9	103.2	19.1	5
6	168.3	162.7	2.8	161.5	3.4	...	...	...	...	154.1	7.1	154.1	7.1	...	...	146.3	11.0	146.3	11.0	...	...	139.7	14.3	...	...	131.7	18.3	124.4	21.9	6
8	219.1	213.5	2.8	211.6	3.8	206.4	6.4	205.0	7.0	202.7	8.2	202.7	8.2	198.5	10.3	193.7	12.7	193.7	12.7	188.9	15.1	182.5	18.3	177.8	20.6	173.1	23.0	174.6	22.2	8	
10	273.1	266.2	3.4	264.7	4.2	260.4	6.4	257.5	7.8	254.5	9.3	254.5	9.3	247.7	12.7	242.9	15.1	247.7	12.7	236.5	18.3	230.2	21.4	222.3	25.4	215.9	28.6	222.3	25.4	10	
12	323.9	315.9	4.0	314.7	4.6	311.2	6.4	307.1	8.4	303.2	10.3	304.8	9.5	295.3	14.3	288.9	17.5	298.5	12.7	281.0	21.4	273.1	25.4	266.7	28.6	257.2	33.3	273.1	25.4	12	
14	355.6	347.7	4.0	342.9	6.4	339.8	7.9	336.6	9.5	333.3	11.1	336.6	9.5	325.4	15.1	317.5	19.1	330.2	12.7	307.9	23.8	300.0	27.8	292.1	31.8	284.2	35.7	...	...	14
16	406.4	398.0	4.2	393.7	6.4	390.6	7.9	387.4	9.5	381.0	12.7	387.4	9.5	373.1	16.7	363.5	21.4	381.0	12.7	354.0	26.2	344.5	31.0	333.3	36.5	325.4	40.5	...	...	16
18	457.2	448.8	4.2	444.5	6.4	441.4	7.9	434.9	11.1	428.7	14.3	438.2	9.5	419.1	19.1	409.5	23.8	431.8	12.7	398.5	29.4	387.4	34.9	377.9	39.7	366.7	45.2	...	...	18
20	508.0	498.4	4.8	495.3	6.4	489.0	9.5	482.6	12.7	477.8	15.1	489.0	9.5	466.8	20.6	455.6	26.2	482.6	12.7	442.9	32.5	431.8	38.1	419.1	44.5	408.0	50.0	...	...	20
24	609.6	598.5	5.5	596.9	6.4	590.6	9.5	581.1	14.3	574.6	17.5	590.6	9.5	560.4	24.6	547.7	31.0	584.2	12.7	531.8	38.9	517.6	46.0	504.9	52.4	490.5	59.5	...	...	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	WELD NECK	SLIP-ON THRD	LAP JOINT	BLIND	SOCKET	WELD NECK	THRDR	LAP JOINT	BLIND			
		1/2	0.9	0.5	0.5	0.9	0.9	0.9	0.7	0.7	0.9	1.4	1.4	0.9	0.9	0.9	1.4	3.2	2.7	2.7	1.8	3.2	2.7	2.7	1.8	2.9	3.6	3.2	3.2	3.2	1/2	
3/4	0.9	0.7	0.7	0.9	0.9	1.4	1.1	1.1	1.4	1.4	1.6	1.4	1.4	1.4	1.4	3.2	2.7	2.7	2.7	3.2	2.7	2.7	2.7	2.9	4.1	4.1	3.6	4.5	3/4			
1	1.1	0.9	0.9	0.9	0.9	1.8	1.4	1.4	1.8	1.4	1.8	1.6	1.6	1.8	1.8	3.9	3.4	3.4	4.1	3.9	3.4	3.4	4.1	3.6	5.9	5.4	5.4	5.4	1			
1 1/4	1.1	1.1	1.1	1.4	1.4	2.3	2.0	2.0	2.7	1.8	2.5	2.0	2.0	2.7	2.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.0	9.1	8.2	7.7	8.2	1 1/4			
1 1/2	1.8	1.4	1.4	1.4	1.4	3.2	3.0	3.0	3.2	2.7	3.6	3.0	3.0	3.6	3.2	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.8	12.7	11.4	10.9	11.4	1 1/2			
2	2.7	2.3	2.3	1.8	2.3	3.6	3.2	3.2	3.6	3.2	4.5	3.6	3.6	4.5	4.1	10.9	10.0	9.5	11.4	10.9	10.0	9.5	11.4	10.9	19.1	17.3	16.8	17.7	2			
2 1/2	4.5	3.6	3.6	3.2	3.2	5.4	4.5	4.5	5.4	4.5	6.4	5.4	5.0	6.8	5.9	16.3	16.3	13.2	15.9	16.3	16.3	13.2	15.9	17.3	23.6	25.0	24.1	25.4	2 1/2			
3	5.2	4.1	4.1	4.1	3.6	8.2	5.9	6.6	7.3	5.9	8.2	6.8	6.4	9.1	7.3	13.2	14.1	11.4	14.5	21.8	...	17.3	21.8	...	42.7	37.7	36.3	39.0	3			
3 1/2	5.4	5.0	5.0	5.9	...	9.1	7.3	7.3	9.5	...	11.8	9.5	9.1	13.2	3 1/2		
4	7.5	5.9	5.4	7.7	...	12.0	10.7	10.9	12.7	...	16.8	15.0	14.1	18.6	...	23.2	24.1	23.2	24.5	31.3	...	34.1	33.1	...	66.3	57.7	55.4	60.4	4			
5	9.5	6.8	5.9	9.1	...	16.3	13.2	11.8	16.8	...	30.9	28.6	28.6	30.9	...	39.0	37.7	36.8	39.5	59.9	...	62.7	64.5	...	110.8	95.3	92.6	101.2	5			
6	11.8	7.7	8.2	12.3	...	20.4	16.3	17.3	21.8	...	33.1	36.3	35.4	39.0	...	49.9	49.0	47.7	51.3	74.5	...	77.2	72.2	...	171.6	146.6	142.6	156.6	6			
8	19.1	12.7	12.7	21.3	...	31.3	25.4	25.0	35.9	...	50.8	44.0	50.8	63.1	...	84.9	78.1	85.4	89.4	123.9	...	129.8	137.1	...	261.5	220.2	213.8	242.0	8			
10	24.5	18.2	16.3	30.4	...	45.4	35.0	40.0	55.4	...	85.8	80.4	88.5	104.9	...	121.7	111.2	125.8	131.7	206.1	...	220.2	230.2	...	484.9	420.0	407.2	465.4	10			
12	40.0	27.7	27.2	55.8	...	64.5	51.3	63.1	83.1	...	102.6	97.6	109.0	133.9	...	168.9	148.0	168.4	187.5	313.3	...	340.0	351.9	...	730.0	590.2	572.9	664.7	12			
14	51.8	37.7	35.0	63.1	...	93.5	72.2	83.5	109.4	...	157.5	117.6	131.7	171.6	...	255.1	172.5	180.2	224.3	408.6	...	383.6	412.7	...	...	...	...	...	14
16	64.5	48.1	47.2	84.9	...	113.0	95.3	106.2	143.0	...	218.4	166.2	181.6	239.3	...	311.0	208.4	221.6	281.0	518.9	...	493.0	558.0	...	...	...	...	...	16
18	74.9	49.5	66.3	98.5	...	138.9	114.9	138.5	188.0	...	252.0	216.1	212.9	301.9	...	419.5	293.7	304.2	399.5	673.7	...	636.5	760.0	...	...	...	...	...	18
20	89.4	67.2	72.2	128.5	...	167.5	139.4	170.3	233.8	...	313.3	277.8	274.2	388.2	...	528.5	359.6	394.1	502.6	824.9	...	764.5	964.3	...	...	...	...	...	20
24	121.7	92.6	88.5	188.4	...	262.9	222.5	240.6	363.2	...	443.6	397.7	393.2	533.5	...	956.6	671.9	753.2	952.9	1305.3	...	1221.7	1558.1	...	...	...	...	...	24