



TSM Technology Co., Ltd.
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ANSI, ASME B16.5 150lb/sq.in. SOCKET WELD FLANGE RF

Nominal Size		Outside Diam.	Thick. of Flange	Diam. of Raised Face	Diam of Hub at Base	Length Thru Hub	Diam. of Bore	Depth of Socket	No. of Holes	Diam. of Holes	Diam. of Bolts	Diam. of Bolt Circle	Approx. Weight Pounds
		O	C	R	X	Y	B	D		Kg			
1/2"	in.	3.5	0.44	1.38	1.19	0.62	0.88	0.38	4	0.62	1/2	2.38	1
	mm.	88.9	11.2	35.1	30.2	15.7	22.4	9.7		15.7	12.7	60.5	0.5
3/4"	in.	3.88	0.5	1.69	1.5	0.62	1.09	0.44	4	0.62	1/2	2.75	2
	mm.	98.6	12.7	42.9	38.1	15.7	27.7	11.2		15.7	12.7	69.9	1
1"	in.	4.25	0.56	2	1.94	0.69	1.36	0.5	4	0.62	1/2	3.12	2
	mm.	108	14.2	50.8	49.3	17.5	34.5	12.7		15.7	12.7	79.2	1
1 1/4"	in.	4.62	0.62	2.5	2.31	0.81	1.7	0.56	4	0.62	1/2	3.5	3
	mm.	117.3	15.7	63.5	58.7	20.6	43.2	14.2		15.7	12.7	88.9	1
1 1/2"	in.	5	0.69	2.88	2.56	0.88	1.95	0.62	4	0.62	1/2	3.88	3
	mm.	127	17.5	73.2	65	22.4	49.5	15.7		15.7	12.7	98.6	1
2"	in.	6	0.75	3.62	3.06	1	2.44	0.69	4	0.75	5/8	4.75	5
	mm.	152.4	19.1	91.9	77.7	25.4	62	17.5		19.1	15.9	120.7	2
2 1/2"	in.	7	0.88	4.12	3.56	1.12	2.94	0.75	4	0.75	5/8	5.5	7
	mm.	177.8	22.4	104.6	90.4	28.4	74.7	19.1		19.1	15.9	139.7	3
3"	in.	7.5	0.94	5	4.25	1.19	3.57	0.81	4	0.75	5/8	6	8
	mm.	190.5	23.9	127	108	30.2	90.7	20.6		19.1	15.9	152.4	4
3 1/2"	in.	8.5	0.94	5.5	4.81	1.25	4.07		8	0.75	5/8	7	11
	mm.	215.9	23.9	139.7	122.2	31.8	103.4			19.1	15.9	177.8	5
4"	in.	9	0.94	6.19	5.31	1.31	4.57		8	0.75	5/8	7.5	13
	mm.	228.6	23.9	157.2	134.9	33.3	116.1			19.1	15.9	190.5	6
5"	in.	10	0.94	7.31	6.44	1.44	5.66		8	0.88	3/4	8.5	15
	mm.	254	23.9	185.7	163.6	36.6	143.8			22.4	19.1	215.9	7
6"	in.	11	1	8.5	7.56	1.56	6.72		8	0.88	3/4	9.5	19
	mm.	279.4	25.4	215.9	192	39.6	170.7			22.4	19.1	241.3	9
8"	in.	13.5	1.12	10.62	9.69	1.75	8.72		8	0.88	3/4	11.75	30
	mm.	342.9	28.4	269.7	246.1	44.5	221.5			22.4	19.1	298.5	14
10"	in.	16	1.19	12.75	12	1.94	10.88		12	1	7/8	14.25	43
	mm.	406.4	30.2	323.9	304.8	49.3	276.4			25.4	22.2	362	20
12"	in.	19	1.25	15	14.38	2.19	12.88		12	1	7/8	17	64



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	mm.	482.6	31.8	381	365.3	55.6	327.2		25.4	22.2	431.8	29
14"	in.	21	1.38	16.25	15.75	2.25	14.14	12	1.12	1	18.75	90
	mm.	533.4	35.1	412.8	400.1	57.2	359.2		28.4	25.4	476.3	41
16"	in.	23.5	1.44	18.5	18	2.5	16.16	16	1.12	1	21.25	98
	mm.	596.9	36.6	469.9	457.2	63.5	410.5		28.4	25.4	539.8	44
18"	in.	25	1.56	21	19.88	2.69	18.18	16	1.25	1 1/8	22.75	130
	mm.	635	39.6	533.4	505	68.3	461.8		31.8	28.6	577.9	59
20"	in.	27.5	1.69	23	22	2.88	20.2	20	1.25	1 1/8	25	165
	mm.	698.5	42.9	584.2	558.8	73.2	513.1		31.8	28.6	635	75
24"	in.	32	1.88	27.25	26.12	3.25	24.25	20	1.38	1 1/4	29.5	220
	mm.	812.8	47.8	692.2	663.4	82.6	616		35.1	31.8	749.3	100

NOTE:

- (1) When these flanges are required with flat face, either the full thickness or thickness with raised face removed may be furnished. Users are reminded that removing the raised face will make the length through hub nonstandard.
- (2) This dimension is for large end of hub, which may be straight or tapered. threaded, slip - on, socket welding, and lapped flanges.
- (3) Socket Weld Flange Bore Size SCH10, SCH20, SCH30, STD, SCH40, SCH60, SCH80, SCH100, SCH 120, SCH140, SCH160, XS.

ANSI, ASME B16.5 300lb/sq.in. SOCKET WELD FLANGE RF

Nominal Size		Outside Diam.	Thick. of Flange	Diam. of Raised Face	Diam of Hub at Base	Length Thru Hub	Diam. of Bore	Depth of Socket	No. of Holes	Diam. of Holes	Diam. of Bolts	Diam. of Bolt Circle	Approx. Weight Pounds
		O	C	R	X	Y	B	D		Kg			
1/2"	in.	3.75	0.56	1.38	1.5	0.88	0.88	0.38	4	0.62	1/2	2.62	2
	mm.	95.3	14.2	35.1	38.1	22.4	22.4	9.7		15.7	12.7	66.5	1
3/4"	in.	4.62	0.62	1.69	1.88	1	1.09	0.44	4	0.75	5/8	3.25	3
	mm.	117.3	15.7	42.9	47.8	25.4	27.7	11.2		19.1	15.9	82.6	1
1"	in.	4.88	0.69	2	2.12	1.06	1.36	0.5	4	0.75	5/8	3.5	3
	mm.	124	17.5	50.8	53.8	26.9	34.5	12.7		19.1	15.9	88.9	1
1 1/4"	in.	5.25	0.75	2.5	2.5	1.06	1.7	0.56	4	0.75	5/8	3.88	4
	mm.	133.4	19.1	63.5	63.5	26.9	43.2	14.2		19.1	15.9	98.6	2
1 1/2"	in.	6.12	0.81	2.88	2.75	1.19	1.95	0.62	4	0.88	3/4	4.5	6
	mm.	155.4	20.6	73.2	69.9	30.2	49.5	15.7		22.4	19.1	114.3	3
2"	in.	6.5	0.88	3.62	3.31	1.31	2.44	0.69	8	0.75	5/8	5	7
	mm.	165.1	22.4	91.9	84.1	33.3	62	17.5		19.1	15.9	127	3
2 1/2"	in.	7.5	1	4.12	3.94	1.5	2.94	0.75	8	0.88	3/4	5.88	10



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	mm.	190.5	25.4	104.6	100.1	38.1	74.7	19.1		22.4	19.1	149.4	5
3"	in.	8.25	1.12	5	4.62	1.69	3.57	0.81	8	0.88	3/4	6.62	13
	mm.	209.6	28.4	127	117.3	42.9	90.7	20.6		22.4	19.1	168.1	6
3 1/2"	in.	9	1.19	5.5	5.25	1.75	4.07		8	0.88	3/4	7.25	17
	mm.	228.6	30.2	139.7	133.4	44.5	103.4			22.4	19.1	184.2	8
4"	in.	10	1.25	6.19	5.75	1.88	4.57		8	0.88	3/4	7.88	22
	mm.	254	31.8	157.2	146.1	47.8	116.1			22.4	19.1	200.2	10
5"	in.	11	1.38	7.31	7	2	5.66		8	0.88	3/4	9.25	28
	mm.	279.4	35.1	185.7	177.8	50.8	143.8			22.4	19.1	235	13
6"	in.	12.5	1.44	8.5	8.12	2.06	6.72		12	0.88	3/4	10.62	39
	mm.	317.5	36.6	215.9	206.2	52.3	170.7			22.4	19.1	269.7	18
8"	in.	15	1.62	10.62	10.25	2.44	8.72		12	1	7/8	13	58
	mm.	381	41.1	269.7	260.4	62	221.5			25.4	22.2	330.2	26
10"	in.	17.5	1.88	12.75	12.62	2.62	10.88		16	1.12	1	15.25	81
	mm.	444.5	47.8	323.9	320.5	66.5	276.4			28.4	25.4	387.4	37
12"	in.	20.5	2	15	14.75	2.88	12.88		16	1.25	1 1/8	17.75	115
	mm.	520.7	50.8	381	374.7	73.2	327.2			31.8	28.6	450.9	52
14"	in.	23	2.12	16.25	16.75	3	14.14		20	1.25	1 1/8	20.25	165
	mm.	584.2	53.8	412.8	425.5	76.2	359.2			31.8	28.6	514.4	75
16"	in.	25.5	2.25	18.5	19	3.25	16.16		20	1.38	1 1/4	22.5	190
	mm.	647.7	57.2	469.9	482.6	82.6	410.5			35.1	31.8	571.5	86
18"	in.	28	2.38	21	21	3.5	18.18		24	1.38	1 1/4	24.75	250
	mm.	711.2	60.5	533.4	533.4	88.9	461.8			35.1	31.8	628.7	113
20"	in.	30.5	2.5	23	23.12	3.75	20.2		24	1.38	1 1/4	27	315
	mm.	774.7	63.5	584.2	587.2	95.3	513.1			35.1	31.8	685.8	143
24"	in.	36	2.75	27.25	27.62	4.19	24.25		24	1.62	1 1/2	32	475
	mm.	914.4	69.9	692.2	701.5	106.4	616			41.1	38.1	812.8	215

ANSI, ASME B16.5 600lb/sq.in. SOCKET WELD FLANGE RF

Nominal Size		Outside Diam.	Thick. of Flange	Diam. of Raised Face	Diam of Hub at Base	Length Thru Hub	Diam. of Bore	Depth of Socket	No. of Holes	Diam. of Holes	Diam. of Bolts	Diam. of Bolt Circle	Approx. Weight
		O	C	R	X	Y	B	D					Pounds
1/2"	in.	3.75	0.56	1.38	1.5	0.88	0.88	0.38	4	0.62	1/2	2.62	2
	mm.	95.3	14.2	35.1	38.1	22.4	22.4	9.7					1
3/4"	in.	4.62	0.62	1.69	1.88	1	1.09	0.44	4	0.75	5/8	3.25	3
	mm.	117.3	15.7	42.9	47.8	25.4	27.7	11.2					19.1
1"	in.	4.88	0.69	2	2.12	1.06	1.36	0.5	4	0.75	5/8	3.5	4
	mm.	124	17.5	50.8	53.8	26.9	34.5	12.7					19.1



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1 1/4"	in.	5.25	0.81	2.5	2.5	1.12	1.7	0.56	4	0.75	5/8	3.88	5
	mm.	133.4	20.6	63.5	63.5	28.4	43.2	14.2		19.1	15.9	98.6	2
1 1/2"	in.	6.12	0.88	2.88	2.75	1.25	1.95	0.62	4	0.88	3/4	4.5	7
	mm.	155.4	22.4	73.2	69.9	31.8	49.5	15.7		22.4	19.1	114.3	3
2"	in.	6.5	1	3.62	3.31	1.44	2.44	0.69	8	0.75	5/8	5	9
	mm.	165.1	25.4	91.9	84.1	36.6	62	17.5		19.1	15.9	127	4
2 1/2"	in.	7.5	1.12	4.12	3.94	1.62	2.94	0.75	8	0.88	3/4	5.88	13
	mm.	190.5	28.4	104.6	100.1	41.1	74.7	19.1		22.4	19.1	149.4	6
3"	in.	8.25	1.25	5	4.62	1.81	3.57	0.81	8	0.88	3/4	6.62	16
	mm.	209.6	31.8	127	117.3	46	90.7	20.6		22.4	19.1	168.1	7
3 1/2"	in.	9	1.38	5.5	5.25	1.94	4.07		8	1	7/8	7.25	21
	mm.	228.6	35.1	139.7	133.4	49.3	103.4			25.4	22.2	184.2	10
4"	in.	10.75	1.5	6.19	6	2.12	4.57		8	1	7/8	8.5	37
	mm.	273.1	38.1	157.2	152.4	53.8	116.1			25.4	22.2	215.9	17
5"	in.	13	1.75	7.31	7.44	2.38	5.66		8	1.12	1	10.5	63
	mm.	330.2	44.5	185.7	189	60.5	143.8			28.4	25.4	266.7	29
6"	in.	14	1.88	8.5	8.75	2.62	6.72		12	1.12	1	11.5	80
	mm.	355.6	47.8	215.9	222.3	66.5	170.7			28.4	25.4	292.1	36
8"	in.	16.5	2.19	10.62	10.75	3	8.72		12	1.25	1 1/8	13.75	115
	mm.	419.1	55.6	269.7	273.1	76.2	221.5			31.8	28.6	349.3	52
10"	in.	20	2.5	12.75	13.5	3.38	10.88		16	1.38	1 1/4	17	170
	mm.	508	63.5	323.9	342.9	85.9	276.4			35.1	31.8	431.8	77
12"	in.	22	2.62	15	15.75	3.62	12.88		20	1.38	1 1/4	19.25	200
	mm.	558.8	66.5	381	400.1	91.9	327.2			35.1	31.8	489	91
14"	in.	23.75	2.75	16.25	17	3.69	14.14		20	1.5	1 3/8	20.75	230
	mm.	603.3	69.9	412.8	431.8	93.7	359.2			38.1	34.9	527.1	104
16"	in.	27	3	18.5	19.5	4.19	16.16		20	1.62	1 1/2	23.75	330
	mm.	685.8	76.2	469.9	495.3	106.4	410.5			41.1	38.1	603.3	150
18"	in.	29.25	3.25	21	21.5	4.62	18.18		20	1.75	1 5/8	25.75	400
	mm.	743	82.6	533.4	546.1	117.3	461.8			44.5	41.3	654.1	181
20"	in.	32	3.5	23	24	5	20.2		24	1.75	1 5/8	28.5	510
	mm.	812.8	88.9	584.2	609.6	127	513.1			44.5	41.3	723.9	231
24"	in.	37	4	27.25	28.25	5.5	24.25		24	2	1 7/8	33	730
	mm.	939.8	101.6	692.2	717.6	139.7	616			50.8	47.6	838.2	331

ANSI, ASME B16.5 1500lb/sq.in. SOCKET WELD FLANGE RF



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		O	C	R	X	Y	B	D		Kg			
1/2"	in.	4.75	0.88	1.38	1.5	1.25	0.88	0.38	4	0.88	3/4	3.25	4
	mm.	120.7	22.4	35.1	38.1	31.8	22.4	9.7		22.4	19.1	82.6	2
3/4"	in.	5.12	1	1.69	1.75	1.38	1.09	0.44	4	0.88	3/4	3.5	5
	mm.	130	25.4	42.9	44.5	35.1	27.7	11.2		22.4	19.1	88.9	2
1"	in.	5.88	1.12	2	2.06	1.62	1.36	0.5	4	1	7/8	4	8
	mm.	149.4	28.4	50.8	52.3	41.1	34.5	12.7		25.4	22.2	101.6	4
1 1/4"	in.	6.25	1.12	2.5	2.5	1.62	1.7	0.56	4	1	7/8	4.38	9
	mm.	158.8	28.4	63.5	63.5	41.1	43.2	14.2		25.4	22.2	111.3	4
1 1/2"	in.	7	1.25	2.88	2.75	1.75	1.95	0.62	4	1.12	1	4.88	12
	mm.	177.8	31.8	73.2	69.9	44.5	49.5	15.7		28.4	25.4	124	5
2"	in.	8.5	1.5	3.62	4.12	2.25	2.44	0.69	8	1	7/8	6.5	25
	mm.	215.9	38.1	91.9	104.6	57.2	62	17.5		25.4	22.2	165.1	11
2 1/2"	in.	9.2	1.2	4.2	4.8	2.5	2.4	0.5	8	1.2	1	7.5	36
	mm.	244.3	41.1	104.6	124	63.5	74.7	19.1		28.4	25.4	190.5	16
3"	in.	10.5	1.88	5	5.25	2.88			8	1.25	1 1/8	8	48
	mm.	266.7	47.8	127	133.4	73.2				31.8	28.6	203.2	22
4"	in.	12.25	2.12	6.19	6.38	3.56			8	1.38	1 1/4	9.5	73
	mm.	311.2	53.8	157.2	162.1	90.4				35.1	31.8	241.3	33
5"	in.	14.75	2.88	7.31	7.75	4.12			8	1.62	1 1/2	11.5	130
	mm.	374.7	73.2	185.7	196.9	104.6				41.1	38.1	292.1	59
6"	in.	15.5	3.25	8.5	9	4.69			12	1.5	1 3/8	12.5	165
	mm.	393.7	82.6	215.9	228.6	119.1				38.1	34.9	317.5	75
8"	in.	19	3.62	10.62	11.5	5.62			12	1.75	1 5/8	15.5	260
	mm.	482.6	91.9	269.7	292.1	142.7				44.5	41.3	393.7	118
10"	in.	23	4.25	12.75	14.5	6.25			12	2	1 7/8	19	435
	mm.	584.2	108	323.9	368.3	158.8				50.8	47.6	482.6	197
12"	in.	26.5	4.88	15	17.75	7.12			16	2.12	2	22.5	580
	mm.	673.1	124	381	450.9	180.8				53.8	50.8	571.5	263
14"	in.	29.5	5.25	16.25	19.5				16	2.38	2 1/4	25	
	mm.	749.3	133.4	412.8	495.3					60.5	57.2	635	
16"	in.	32.5	5.75	18.5	21.75				16	2.62	2 1/2	27.75	
	mm.	825.5	146.1	469.9	552.5					66.5	63.5	704.9	
18"	in.	36	6.38	21	23.5				16	2.88	2 3/4	30.5	
	mm.	914.4	162.1	533.4	596.9					73.2	69.9	774.7	



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20"	in.	38.75	7	23	25.25	16	3.12	3	32.75
	mm.	984.3	177.8	584.2	641.4		79.2	76.2	831.9
24"	in.	46	8	27.25	30	16	3.62	3 1/2	39
	mm.	1168.4	203.2	692.2	762		91.9	88.9	990.6