

ASME B16.5 Slip On Flange Introduction

ASME B16.5 slip on flanges are widely used in low to medium pressure piping systems due to their simple design, easy installation, and cost effectiveness. Unlike weld neck flanges, slip on flanges are slipped over the pipe and welded both inside and outside, providing sufficient strength and reliable sealing for many industrial applications.

We supply high quality slip on flanges manufactured in accordance with ASME B16.5 dimensional standards. Our ASME B16.5 slip on flanges are available in various materials, sizes, and pressure classes, making them suitable for oil & gas, petrochemical, power generation, water treatment, and general industrial piping systems.

Material Standards

Slip on flanges can be manufactured using various ASTM material specifications, including:

ASTM A182 – Stainless steel and alloy steel flanges

ASTM A105 – Carbon steel flanges

ASTM A182 Stainless Steel Flanges

Materials for ASME B16.5 Slip On Flanges Stainless Steel Slip On Flanges

ASTM A182 F304 / F304L

ASTM A182 F316 / F316L

ASTM A182 F321 / F347

ASTM A182 F51 Duplex

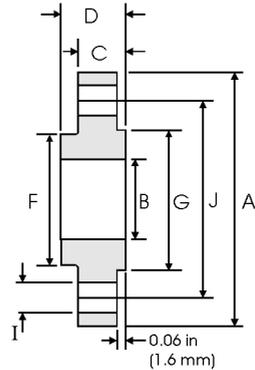
ASTM A182 F53 Super Duplex

Stainless steel slip on flanges provide good corrosion resistance and durability for chemical, marine, and industrial environments.

ASTM A105

Carbon steel slip on flanges are commonly used in general industrial and utility piping systems.

Slip On Flanges - ANSI B16.5



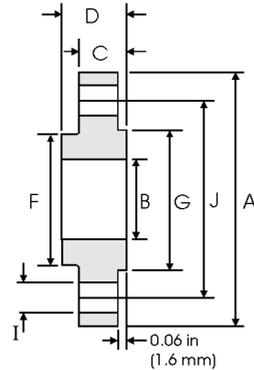
Class 150 lb

Pipe		Flange Data				Hub	Raised Face	Drilling Data			Weight
Nominal Pipe Size		A	B	C	D	F	G	H	I	J	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Hub Diameter	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/ piece
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	
1/2	0.840	3.500	0.880	0.440	0.620	1.190	1.380	4	0.620	2.380	0.39
	21.30	88.90	22.40	11.20	15.70	30.20	35.10		15.70	60.45	
3/4	1.050	3.880	1.090	0.500	0.620	1.500	1.690	4	0.620	2.750	0.56
	26.70	98.60	27.70	12.70	15.70	38.10	42.90		15.70	69.85	
1	1.315	4.250	1.360	0.560	0.690	1.940	2.000	4	0.620	3.120	0.78
	33.40	108.0	34.50	14.20	17.50	49.30	50.80		15.70	79.25	
1 1/4	1.660	4.620	1.700	0.620	0.810	2.310	2.500	4	0.620	3.500	1.03
	42.20	117.3	43.20	15.70	20.60	58.70	63.50		15.70	88.90	
1 1/2	1.900	5.000	1.950	0.690	0.880	2.560	2.880	4	0.620	3.880	1.32
	48.30	127.0	49.50	17.50	22.40	65.00	73.15		15.70	98.60	
2	2.375	6.000	2.440	0.750	1.000	3.060	3.620	4	0.750	4.750	2.06
	60.30	152.4	62.00	19.10	25.40	77.70	91.90		19.10	120.7	
2 1/2	2.875	7.000	2.940	0.880	1.120	3.560	4.120	4	0.750	5.500	3.28
	73.00	177.8	74.70	22.40	28.40	90.40	104.6		19.10	139.7	
3	3.500	7.500	3.570	0.940	1.190	4.250	5.000	4	0.750	6.000	3.85
	88.90	190.5	90.70	23.90	30.20	108.0	127.0		19.10	152.4	
3 1/2	4.000	8.500	4.070	0.940	1.250	4.810	5.500	8	0.750	7.000	4.81
	101.6	215.9	103.4	23.90	31.75	122.2	139.7		19.10	177.8	
4	4.500	9.000	4.570	0.940	1.310	5.310	6.190	8	0.750	7.500	5.30
	114.3	228.6	116.1	23.90	33.30	134.9	157.2		19.10	190.5	
5	5.563	10.00	5.660	0.940	1.440	6.440	7.310	8	0.880	8.500	6.07
	141.3	254.0	143.8	23.90	36.60	163.6	185.7		22.40	215.9	
6	6.625	11.00	6.720	1.000	1.560	7.560	8.500	8	0.880	9.500	7.45
	168.3	279.4	170.7	25.40	39.60	192.0	215.9		22.40	241.3	
8	8.625	13.50	8.720	1.120	1.750	9.690	10.62	8	0.880	11.75	12.1
	219.1	342.9	221.5	28.40	44.50	246.1	269.7		22.40	298.5	
10	10.75	16.00	10.88	1.190	1.940	12.00	12.75	12	1.000	14.25	16.5
	273.0	406.4	276.3	30.20	49.30	304.8	323.9		25.40	362.0	
12	12.75	19.00	12.88	1.250	2.190	14.38	15.00	12	1.000	17.00	26.2
	323.8	482.6	327.1	31.75	55.60	365.3	381.0		25.40	431.8	
14	14.00	21.00	14.14	1.380	2.250	15.75	16.25	12	1.120	18.75	34.6
	355.6	533.4	359.1	35.10	57.15	400.1	412.8		28.40	476.3	
16	16.00	23.50	16.16	1.440	2.500	18.00	18.50	16	1.120	21.25	44.8
	406.4	596.9	410.5	36.60	63.50	457.2	469.9		28.40	539.8	
18	18.00	25.00	18.18	1.560	2.690	19.88	21.00	16	1.250	22.75	48.9
	457.2	635.0	461.8	39.60	68.30	505.0	533.4		31.75	577.9	
20	20.00	27.50	20.20	1.690	2.880	22.00	23.00	20	1.250	25.00	61.9
	508.0	698.5	513.1	42.90	73.15	558.8	584.2		31.75	635.0	
24	24.00	32.00	24.25	1.880	3.250	26.12	27.25	20	1.380	29.50	86.9
	609.6	812.8	616.0	47.80	82.60	663.4	692.2		35.10	749.3	

Notes

- Weights are based on manufacturer's data and are approximate.
- Flat face flanges may be provided at full thickness, C, or with raised face removed (the latter is nonstandard).
- For ring joint facings see page 8-6.
- For tolerances see page 8-4.

Slip On Flanges - ANSI B16.5



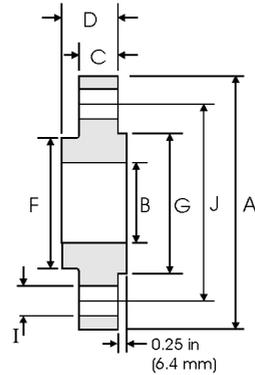
Class 300 lb

Nominal Pipe Size	Pipe	Flange Data				Hub	Raised Face	Drilling Data			Weight
		A	B	C	D	F	G	H	I	J	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Hub Diameter	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/ piece
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	
1/2	0.840	3.750	0.880	0.560	0.880	1.500	1.380	4	0.620	2.620	0.64
	21.30	95.20	22.40	14.20	22.40	38.10	35.10		15.70	66.55	
3/4	1.050	4.620	1.090	0.620	1.000	1.880	1.690	4	0.750	3.250	1.12
	26.70	117.3	27.70	15.70	25.40	47.70	42.90		19.10	82.50	
1	1.315	4.880	1.360	0.690	1.060	2.120	2.000	4	0.750	3.500	1.36
	33.40	123.9	34.50	17.50	26.90	53.80	50.80		19.10	88.90	
1 1/4	1.660	5.250	1.700	0.750	1.060	2.500	2.500	4	0.750	3.880	1.68
	42.20	133.3	43.20	19.00	26.90	63.50	63.50		19.10	98.60	
1 1/2	1.900	6.120	1.950	0.810	1.190	2.750	2.880	4	0.880	4.500	2.49
	48.30	155.4	49.50	20.60	30.20	69.85	73.15		22.40	114.3	
2	2.375	6.500	2.440	0.880	1.310	3.310	3.620	8	0.750	5.000	2.87
	60.30	165.1	62.00	22.30	33.20	84.00	91.90		19.10	127.0	
2 1/2	2.875	7.500	2.940	1.000	1.500	3.940	4.120	8	0.880	5.880	4.32
	73.00	190.5	74.70	25.40	38.10	100.0	104.6		22.40	149.4	
3	3.500	8.250	3.570	1.120	1.690	4.620	5.000	8	0.880	6.620	5.85
	88.90	209.5	90.70	28.40	42.90	117.3	127.0		22.40	168.1	
3 1/2	4.000	9.000	4.070	1.190	1.750	5.250	5.500	8	0.880	7.250	7.34
	101.6	228.6	103.4	30.20	44.40	133.3	139.7		22.40	184.2	
4	4.500	10.00	4.570	1.250	1.880	5.750	6.190	8	0.880	7.880	9.61
	114.3	254.0	116.1	31.70	47.70	146.0	157.2		22.40	200.1	
5	5.563	11.00	5.660	1.380	2.000	7.000	7.310	8	0.880	9.250	12.3
	141.3	279.4	143.8	35.00	50.80	177.8	185.7		22.40	234.9	
6	6.625	12.50	6.720	1.440	2.060	8.120	8.500	12	0.880	10.62	15.6
	168.3	317.5	170.7	36.50	52.30	206.2	215.9		22.40	269.7	
8	8.625	15.00	8.720	1.620	2.440	10.25	10.62	12	1.000	13.00	24.2
	219.1	381.0	221.5	41.10	61.90	260.3	269.7		25.40	330.2	
10	10.75	17.50	10.88	1.880	2.620	12.62	12.75	16	1.120	15.25	34.1
	273.0	444.5	276.3	47.70	66.55	320.5	323.9		28.40	387.3	
12	12.75	20.50	12.88	2.000	2.880	14.75	15.00	16	1.250	17.75	49.8
	323.8	520.7	327.1	50.80	73.15	374.6	381.0		31.70	450.8	
14	14.00	23.00	14.14	2.120	3.000	16.75	16.25	20	1.250	20.25	69.9
	355.6	584.2	359.1	53.80	76.20	425.4	412.8		31.70	514.4	
16	16.00	25.50	16.16	2.250	3.250	19.00	18.50	20	1.380	22.50	88.1
	406.4	647.7	410.5	57.15	82.50	482.6	469.9		35.00	571.5	
18	18.00	28.00	18.18	2.380	3.500	21.00	21.00	24	1.380	24.75	109
	457.2	711.2	461.8	60.45	88.90	533.4	533.4		35.00	628.7	
20	20.00	30.50	20.20	2.500	3.750	23.12	23.00	24	1.380	27.00	134
	508.0	774.7	513.1	63.50	95.20	587.2	584.2		35.00	685.8	
24	24.00	36.00	24.25	2.750	4.190	27.62	27.25	24	1.620	32.00	201
	609.6	914.4	616.0	69.85	106.4	701.5	692.2		41.00	812.8	

Notes

- Weights are based on manufacturer's data and are approximate.
- Flat face flanges may be provided at full thickness, C, or with raised face removed (the latter is nonstandard).
- For ring joint facings see page 8-6.
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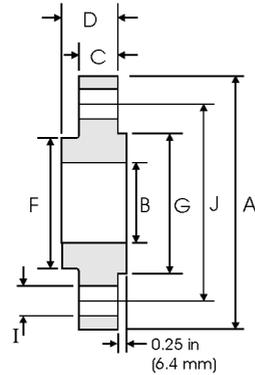
Class 400 lb

Pipe		Flange Data				Hub	Raised Face	Drilling Data			Weight
Nominal Pipe Size		A	B	C	D	F	G	H	I	J	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Hub Diameter	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/ piece
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	
1/2	0.840	3.750	0.880	0.560	0.880	1.500	1.380	4	0.620	2.620	0.74
	21.30	95.30	22.40	14.20	22.40	38.10	35.10		15.70	66.55	
3/4	1.050	4.620	1.090	0.620	1.000	1.880	1.690	4	0.750	3.250	1.27
	26.70	117.3	27.70	15.70	25.40	47.70	42.90		19.10	82.50	
1	1.315	4.880	1.360	0.690	1.060	2.120	2.000	4	0.750	3.500	1.52
	33.40	124.0	34.50	17.50	26.90	53.80	50.80		19.10	88.90	
1 1/4	1.660	5.250	1.700	0.810	1.120	2.500	2.500	4	0.750	3.880	2.03
	42.20	133.4	43.20	20.60	28.40	63.50	63.50		19.10	98.60	
1 1/2	1.900	6.120	1.950	0.880	1.250	2.750	2.880	4	0.880	4.500	2.96
	48.30	155.4	49.50	22.40	31.75	69.85	73.15		22.40	114.3	
2	2.375	6.500	2.440	1.000	1.440	3.310	3.620	8	0.750	5.000	3.62
	60.30	165.1	62.00	25.40	36.60	84.00	91.90		19.10	127.0	
2 1/2	2.875	7.500	2.940	1.120	1.620	3.940	4.120	8	0.880	5.880	5.28
	73.00	190.5	74.70	28.40	41.10	100.0	104.6		22.40	149.4	
3	3.500	8.250	3.570	1.250	1.810	4.620	5.000	8	0.880	6.620	7.00
	88.90	209.6	90.70	31.75	46.00	117.3	127.0		22.40	168.1	
3 1/2	4.000	9.000	4.070	1.380	1.940	5.250	5.500	8	1.000	7.250	8.84
	101.6	228.6	103.4	35.10	49.30	133.3	139.7		25.40	184.2	
4	4.500	10.00	4.570	1.380	2.000	5.750	6.190	8	1.000	7.880	11.1
	114.3	254.0	116.1	35.10	50.80	146.0	157.2		25.40	200.1	
5	5.563	11.00	5.660	1.500	2.120	7.000	7.310	8	1.000	9.250	13.9
	141.3	279.4	143.8	38.10	53.80	177.8	185.7		25.40	234.9	
6	6.625	12.50	6.720	1.620	2.250	8.120	8.500	12	1.000	10.62	18.3
	168.3	317.5	170.7	41.10	57.15	206.2	215.9		25.40	269.7	
8	8.625	15.00	8.720	1.880	2.690	10.25	10.62	12	1.120	13.00	28.6
	219.1	381.0	221.5	47.80	68.30	260.3	269.7		28.40	330.2	
10	10.75	17.50	10.88	2.120	2.880	12.62	12.75	16	1.250	15.25	39.2
	273.0	444.5	276.3	53.80	73.15	320.5	323.9		31.75	387.3	
12	12.75	20.50	12.88	2.250	3.120	14.75	15.00	16	1.380	17.75	57.0
	323.8	520.7	327.1	57.15	79.25	374.6	381.0		35.10	450.8	
14	14.00	23.00	14.14	2.380	3.310	16.75	16.25	20	1.380	20.25	79.1
	355.6	584.2	359.1	60.05	84.10	425.4	412.8		35.10	514.4	
16	16.00	25.50	16.16	2.500	3.690	19.00	18.50	20	1.500	22.50	101
	406.4	647.7	410.5	63.50	93.70	482.6	469.9		38.10	571.5	
18	18.00	28.00	18.18	2.620	3.880	21.00	21.00	24	1.500	24.75	123
	457.2	711.2	461.8	66.55	98.60	533.4	533.4		38.10	628.7	
20	20.00	30.50	20.20	2.750	4.000	23.12	23.00	24	1.620	27.00	146
	508.0	774.7	513.1	69.85	101.6	587.2	584.2		41.10	685.8	
24	24.00	36.00	24.25	3.000	4.500	27.62	27.25	24	1.880	32.00	219
	609.6	914.4	616.0	76.20	114.3	701.5	692.2		47.80	812.8	

Notes

- Weights are based on manufacturer's data and are approximate.
- For ring joint facings see page 8-6.
- For tolerances see page 8-4.

Slip On Flanges - ANSI B16.5



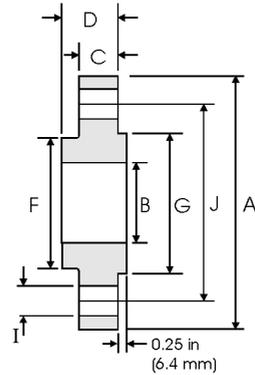
Class 600 lb

Nominal Pipe Size	Pipe	Flange Data				Hub	Raised Face	Drilling Data			Weight
		A	B	C	D	F	G	H	I	J	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Hub Diameter	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/ piece
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	
1/2	0.840	3.750	0.880	0.560	0.880	1.500	1.380	4	0.620	2.620	0.74
	21.30	95.30	22.40	14.20	22.40	38.10	35.10		15.70	66.55	
3/4	1.050	4.620	1.090	0.620	1.000	1.880	1.690	4	0.750	3.250	1.27
	26.70	117.3	27.70	15.70	25.40	47.80	42.90		19.10	82.60	
1	1.315	4.880	1.360	0.690	1.060	2.120	2.000	4	0.750	3.500	1.52
	33.40	124.0	34.50	17.50	26.90	53.80	50.80		19.10	88.90	
1 1/4	1.660	5.250	1.700	0.810	1.120	2.500	2.500	4	0.750	3.880	2.03
	42.20	133.4	43.20	20.60	28.40	63.50	63.50		19.10	98.60	
1 1/2	1.900	6.120	1.950	0.880	1.250	2.750	2.880	4	0.880	4.500	2.96
	48.30	155.4	49.50	22.40	31.75	69.85	73.15		22.40	114.3	
2	2.375	6.500	2.440	1.000	1.440	3.310	3.620	8	0.750	5.000	3.62
	60.30	165.1	62.00	25.40	36.60	84.10	91.90		19.10	127.0	
2 1/2	2.875	7.500	2.940	1.120	1.620	3.940	4.120	8	0.880	5.880	5.28
	73.00	190.5	74.70	28.40	41.10	100.1	104.6		22.40	149.4	
3	3.500	8.250	3.570	1.250	1.810	4.620	5.000	8	0.880	6.620	7.00
	88.90	209.6	90.70	31.75	46.00	117.3	127.0		22.40	168.1	
3 1/2	4.000	9.000	4.070	1.380	1.940	5.250	5.500	8	1.000	7.250	8.84
	101.6	228.6	103.4	35.10	49.30	133.4	139.7		25.40	184.2	
4	4.500	10.75	4.570	1.500	2.120	6.000	6.190	8	1.000	8.500	14.5
	114.3	273.1	116.1	38.10	53.80	152.4	157.2		25.40	215.9	
5	5.563	13.00	5.660	1.750	2.380	7.440	7.310	8	1.120	10.50	24.4
	141.3	330.2	143.8	44.50	60.45	189.0	185.7		28.40	266.7	
6	6.625	14.00	6.720	1.880	2.620	8.750	8.500	12	1.120	11.50	28.7
	168.3	355.6	170.7	47.80	66.55	222.3	215.9		28.40	292.1	
8	8.625	16.50	8.720	2.190	3.000	10.75	10.62	12	1.250	13.75	43.4
	219.1	419.1	221.5	55.60	76.20	273.1	269.7		31.75	349.3	
10	10.75	20.00	10.88	2.500	3.380	13.50	12.75	16	1.380	17.00	70.3
	273.0	508.0	276.3	63.50	85.90	342.9	323.9		35.10	431.8	
12	12.75	22.00	12.88	2.620	3.620	15.75	15.00	20	1.380	19.25	84.2
	323.8	558.8	327.1	66.55	91.90	400.1	381.0		35.10	489.0	
14	14.00	23.75	14.14	2.750	3.690	17.00	16.25	20	1.500	20.75	98.7
	355.6	603.3	359.1	69.85	93.70	431.8	412.8		38.10	527.1	
16	16.00	27.00	16.16	3.000	4.190	19.50	18.50	20	1.620	23.75	142
	406.4	685.8	410.5	76.20	106.4	495.3	469.9		41.10	603.3	
18	18.00	29.25	18.18	3.250	4.620	21.50	21.00	20	1.750	25.75	173
	457.2	743.0	461.8	82.60	117.3	546.1	533.4		44.50	654.1	
20	20.00	32.00	20.20	3.500	5.000	24.00	23.00	24	1.750	28.50	220
	508.0	812.8	513.1	88.90	127.0	609.6	584.2		44.50	723.9	
24	24.00	37.00	24.25	4.000	5.500	28.25	27.25	24	2.000	33.00	312
	609.6	939.8	616.0	101.6	139.7	717.6	692.2		50.80	838.2	

Notes

- Weights are based on manufacturer's data and are approximate.
- For ring joint facings see page 8-6.
- For tolerances see page 8-4.

Slip On Flanges - ANSI B16.5



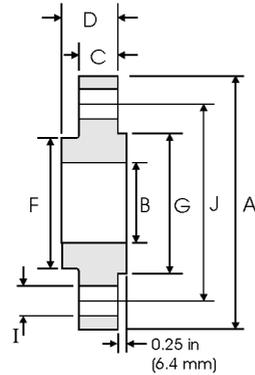
Class 900 lb

Pipe		Flange Data				Hub	Raised Face	Drilling Data			Weight
Nominal Pipe Size		A	B	C	D	F	G	H	I	J	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Hub Diameter	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/ piece
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	
1/2	0.840	4.750	0.880	0.880	1.250	1.500	1.380	4	0.880	3.250	1.74
	21.30	120.6	22.40	22.40	31.70	38.10	35.10				
3/4	1.050	5.120	1.090	1.000	1.380	1.750	1.690	4	0.880	3.500	2.34
	26.70	130.0	27.70	25.40	35.00	44.40	42.90				
1	1.315	5.880	1.360	1.120	1.620	2.060	2.000	4	1.000	4.000	3.44
	33.40	149.3	34.50	28.40	41.10	52.30	50.80				
1 1/4	1.660	6.250	1.700	1.120	1.620	2.500	2.500	4	1.000	4.380	3.91
	42.20	158.7	43.20	28.40	41.10	63.50	63.50				
1 1/2	1.900	7.000	1.950	1.250	1.750	2.750	2.880	4	1.120	4.880	5.36
	48.30	177.8	49.50	31.70	44.50	69.85	73.15				
2	2.375	8.500	2.440	1.500	2.250	4.120	3.620	8	1.000	6.500	9.85
	60.30	215.9	62.00	38.10	57.15	104.6	91.90				
2 1/2	2.875	9.620	2.940	1.620	2.500	4.880	4.120	8	1.120	7.500	13.7
	73.00	244.3	74.70	41.10	63.50	123.9	104.6				
3	3.500	9.500	3.570	1.500	2.120	5.000	5.000	8	1.000	7.500	11.6
	88.90	241.3	90.70	38.10	53.80	127.0	127.0				
4	4.500	11.50	4.570	1.750	2.750	6.250	6.190	8	1.250	9.250	19.7
	114.3	292.1	116.1	44.40	69.85	158.7	157.2				
5	5.563	13.75	5.660	2.000	3.120	7.500	7.310	8	1.380	11.00	31.9
	141.3	349.2	143.8	50.80	79.25	190.5	185.7				
6	6.625	15.00	6.720	2.190	3.380	9.250	8.500	12	1.250	12.50	41.1
	168.3	381.0	170.7	55.60	85.80	234.9	215.9				
8	8.625	18.50	8.720	2.500	4.000	11.75	10.62	12	1.500	15.50	70.7
	219.1	469.9	221.5	63.50	101.6	298.4	269.7				
10	10.75	21.50	10.88	2.750	4.250	14.50	12.75	16	1.500	18.50	101
	273.0	546.1	276.3	69.85	107.9	368.3	323.9				
12	12.75	24.00	12.88	3.120	4.620	16.50	15.00	20	1.500	21.00	133
	323.8	609.6	327.1	79.25	117.3	419.1	381.0				
14	14.00	25.25	14.14	3.380	5.120	17.75	16.25	20	1.620	22.00	153
	355.6	641.3	359.1	85.80	130.0	450.8	412.8				
16	16.00	27.75	16.16	3.500	5.250	20.00	18.50	20	1.750	24.25	185
	406.4	704.8	410.5	88.90	133.3	508.0	469.9				
18	18.00	31.00	18.18	4.000	6.000	22.25	21.00	20	2.000	27.00	258
	457.2	787.4	461.8	101.6	152.4	565.1	533.4				
20	20.00	33.75	20.20	4.250	6.250	24.50	23.00	20	2.120	29.50	317
	508.0	857.2	513.1	107.9	158.7	622.3	584.2				
24	24.00	41.00	24.25	5.500	8.000	29.50	27.25	20	2.620	35.50	606
	609.6	1041.4	616.0	139.7	203.2	749.3	692.2				

Notes

- Weights are based on manufacturer's data and are approximate.
- For ring joint facings see page 8-6.
- For tolerances see page 8-4.

Slip On Flanges - ANSI B16.5



Class 1500 lb

Pipe		Flange Data				Hub	Raised Face	Drilling Data			Weight
Nominal Pipe Size		A	B	C	D	F	G	H	I	J	
	Outside Diameter	Overall Diameter	Inside Diameter	Flange Thickness min	Overall Length	Hub Diameter	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/ piece
	in mm	in mm	in mm	in mm	in mm	in mm	in mm		in mm	in mm	
1/2	0.840	4.750	0.880	0.880	1.250	1.500	1.380	4	0.880	3.250	1.74
	21.30	120.6	22.40	22.40	31.70	38.10	35.10		22.40	82.50	
3/4	1.050	5.120	1.090	1.000	1.380	1.750	1.690	4	0.880	3.500	2.34
	26.70	130.0	27.70	25.40	35.00	44.40	42.90		22.40	88.90	
1	1.315	5.880	1.360	1.120	1.620	2.060	2.000	4	1.000	4.000	3.44
	33.40	149.3	34.50	28.40	41.10	52.30	50.80		25.40	101.6	
1 1/4	1.660	6.250	1.700	1.120	1.620	2.500	2.500	4	1.000	4.380	3.91
	42.20	158.7	43.20	28.40	41.10	63.50	63.50		25.40	111.2	
1 1/2	1.900	7.000	1.950	1.250	1.750	2.750	2.880	4	1.120	4.880	5.36
	48.30	177.8	49.50	31.70	44.50	69.85	73.15		28.40	123.9	
2	2.375	8.500	2.440	1.500	2.250	4.120	3.620	8	1.000	6.500	9.85
	60.30	215.9	62.00	38.10	57.15	104.6	91.90		25.40	165.1	
2 1/2	2.875	9.620	2.940	1.620	2.500	4.880	4.120	8	1.120	7.500	13.7
	73.00	244.3	74.70	41.10	63.50	123.9	104.6		28.40	190.5	

Notes

- Weights are based on manufacturer's data and are approximate.
- For ring joint facings see page 8-6.
- For tolerances see page 8-4.