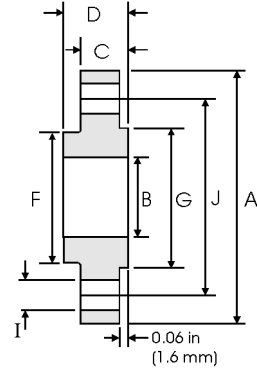


Slip On Flanges - ANSI B16.5



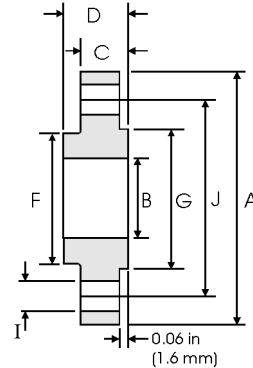
Class 150 lb

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).

Slip On Flanges - ANSI B16.5



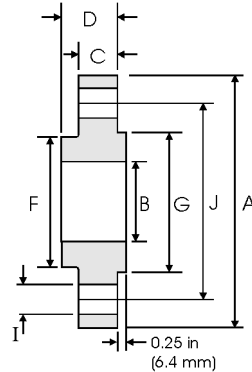
Class 300 lb

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

Notes

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- Flat face flanges may be provided at full thickness, C, or with raised face removed (the latter is nonstandard).

Slip On Flanges - ANSI B16.5



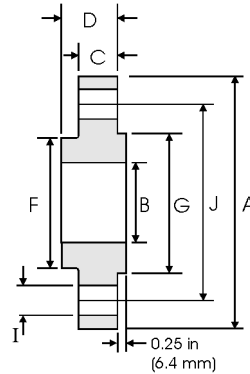
Class 400 lb

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

Notes

- Weights are based on manufacturer's data and are approximate.

Slip On Flanges - ANSI B16.5



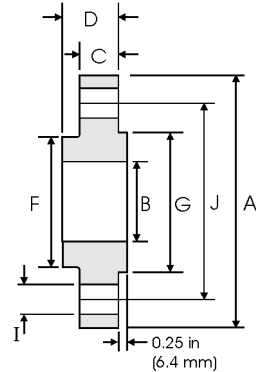
Class 600 lb

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

Notes

- Weights are based on manufacturer's data and are approximate.

Slip On Flanges - ANSI B16.5



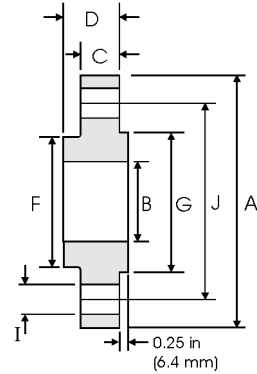
Class 900 lb

Pipe	Flange Data					Hub	Raised Face	Drilling Data			Weight
Nominal Pipe Size											
	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 21.30	4.750 120.6	0.880 22.40	0.880 22.40	1.250 31.70	1.500 38.10	1.380 35.10	4	0.880 22.40	3.250 82.50	1.74
3/4	1.050 26.70	5.120 130.0	1.090 27.70	1.000 25.40	1.380 35.00	1.750 44.40	1.690 42.90	4	0.880 22.40	3.500 88.90	2.34
1	1.315 33.40	5.880 149.3	1.360 34.50	1.120 28.40	1.620 41.10	2.060 52.30	2.000 50.80	4	1.000 25.40	4.000 101.6	3.44
1 1/4	1.660 42.20	6.250 158.7	1.700 43.20	1.120 28.40	1.620 41.10	2.500 63.50	2.500 63.50	4	1.000 25.40	4.380 111.2	3.91
1 1/2	1.900 48.30	7.000 177.8	1.950 49.50	1.250 31.70	1.750 44.50	2.750 69.85	2.880 73.15	4	1.120 28.40	4.880 123.9	5.36
2	2.375 60.30	8.500 215.9	2.440 62.00	1.500 38.10	2.250 57.15	4.120 104.6	3.620 91.90	8	1.000 25.40	6.500 165.1	9.85
2 1/2	2.875 73.00	9.620 244.3	2.940 74.70	1.620 41.10	2.500 63.50	4.880 123.9	4.120 104.6	8	1.120 28.40	7.500 190.5	13.7
3	3.500 88.90	9.500 241.3	3.570 90.70	1.500 38.10	2.120 53.80	5.000 127.0	5.000 127.0	8	1.000 25.40	7.500 190.5	11.6
4	4.500 114.3	11.50 292.1	4.570 116.1	1.750 44.40	2.750 69.85	6.250 158.7	6.190 157.2	8	1.250 31.70	9.250 234.9	19.7
5	5.563 141.3	13.75 349.2	5.660 143.8	2.000 50.80	3.120 79.25	7.500 190.5	7.310 185.7	8	1.380 35.00	11.00 279.4	31.9
6	6.625 168.3	15.00 381.0	6.720 170.7	2.190 55.60	3.380 85.80	9.250 234.9	8.500 215.9	12	1.250 31.70	12.50 317.5	41.1
8	8.625 219.1	18.50 469.9	8.720 221.5	2.500 63.50	4.000 101.6	11.75 298.4	10.62 269.7	12	1.500 38.10	15.50 393.7	70.7
10	10.75 273.0	21.50 546.1	10.88 276.3	2.750 69.85	4.250 107.9	14.50 368.3	12.75 323.9	16	1.500 38.10	18.50 469.9	101
12	12.75 323.8	24.00 609.6	12.88 327.1	3.120 79.25	4.620 117.3	16.50 419.1	15.00 381.0	20	1.500 38.10	21.00 533.4	133
14	14.00 355.6	25.25 641.3	14.14 359.1	3.380 85.80	5.120 130.0	17.75 450.8	16.25 412.8	20	1.620 41.10	22.00 558.8	153
16	16.00 406.4	27.75 704.8	16.16 410.5	3.500 88.90	5.250 133.3	20.00 508.0	18.50 469.9	20	1.750 44.40	24.25 615.9	185
18	18.00 457.2	31.00 787.4	18.18 461.8	4.000 101.6	6.000 152.4	22.25 565.1	21.00 533.4	20	2.000 50.80	27.00 685.8	258
20	20.00 508.0	33.75 857.2	20.20 513.1	4.250 107.9	6.250 158.7	24.50 622.3	23.00 584.2	20	2.120 53.80	29.50 749.3	317
24	24.00 609.6	41.00 1041.4	24.25 616.0	5.500 139.7	8.000 203.2	29.50 749.3	27.25 692.2	20	2.620 66.55	35.50 901.7	606

Notes

- Weights are based on manufacturer's data and are approximate.

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 21.30	4.750 120.6	0.880 22.40	0.880 22.40	1.250 31.70	1.500 38.10	1.380 35.10	4	0.880 22.40	3.250 82.50	1.74
3/4	1.050 26.70	5.120 130.0	1.090 27.70	1.000 25.40	1.380 35.00	1.750 44.40	1.690 42.90	4	0.880 22.40	3.500 88.90	2.34
1	1.315 33.40	5.880 149.3	1.360 34.50	1.120 28.40	1.620 41.10	2.060 52.30	2.000 50.80	4	1.000 25.40	4.000 101.6	3.44
1 1/4	1.660 42.20	6.250 158.7	1.700 43.20	1.120 28.40	1.620 41.10	2.500 63.50	2.500 63.50	4	1.000 25.40	4.380 111.2	3.91
1 1/2	1.900 48.30	7.000 177.8	1.950 49.50	1.250 31.70	1.750 44.50	2.750 69.85	2.880 73.15	4	1.120 28.40	4.880 123.9	5.36
2	2.375 60.30	8.500 215.9	2.440 62.00	1.500 38.10	2.250 57.15	4.120 104.6	3.620 91.90	8	1.000 25.40	6.500 165.1	9.85
2 1/2	2.875 73.00	9.620 244.3	2.940 74.70	1.620 41.10	2.500 63.50	4.880 123.9	4.120 104.6	8	1.120 28.40	7.500 190.5	13.7

Notes

- Weights are based on manufacturer's data and are approximate.