

1 STOP STEEL

SIMPLIFYING SUPPLY CHAIN FOR INDUSTRIAL METALS

ANSI B16.5 CLASS 150 FLANGES

Nominal Size	Outside Diameter of Flange	No. of Holes	Diameter of Holes	Diameter of Bolts	Diameter of Bolt Circle	Diameter of Raised Face*	Height of Raised Face*	Diameter of Hub at Base**	Thickness of Flange***	Length Through Hub*** / ****	
										SO,TH,SW, LJ	WN
ALL TYPES											
1/2	3.50	4	0.62	1/2	2.38	1.38	0.0625	1.19	0.44	0.62	1.88
3/4	3.88	4	0.62	1/2	2.75	1.69	0.0625	1.5	0.50	0.62	2.06
1	4.25	4	0.62	1/2	3.12	2.0	0.0625	1.94	0.56	0.69	2.19
1 1/4	4.62	4	0.62	1/2	3.5	2.5	0.0625	2.31	0.62	0.81	2.25
1 1/2	5.00	4	0.62	1/2	3.88	2.88	0.0625	2.56	0.69	0.88	2.44
2	6.00	4	0.75	5/8	4.75	3.62	0.0625	3.06	0.75	1.00	2.50
2 1/2	7.00	4	0.75	5/8	5.5	4.12	0.0625	3.56	0.88	1.12	2.75
3	7.50	4	0.75	5/8	6	5	0.0625	4.25	0.94	1.19	2.75
3 1/2	8.50	8	0.75	5/8	7	5.5	0.0625	4.81	0.94	1.25	2.81
4	9.00	8	0.75	5/8	7.5	6.19	0.0625	5.31	0.94	1.31	3.00
5	10.00	8	0.88	3/4	8.5	7.31	0.0625	6.44	0.94	1.44	3.50
6	11.00	8	0.88	3/4	9.5	8.5	0.0625	7.56	1.00	1.56	3.50
8	13.50	8	0.88	3/4	11.75	10.62	0.0625	9.69	1.12	1.75	4.00
10	16.00	12	1	7/8	14.25	12.75	0.0625	12	1.19	1.94	4.00
12	19.00	12	1	7/8	17	15	0.0625	14.38	1.25	2.19	4.50
14	21.00	12	1.12	1	18.75	16.25	0.0625	15.75	1.38	2.25	5.00
16	23.50	16	1.12	1	21.25	18.5	0.0625	18	1.44	2.50	5.00
18	25.00	16	1.25	1 1/8	22.75	21	0.0625	19.88	1.56	2.69	5.50
20	27.50	20	1.25	1 1/8	25	23	0.0625	22	1.69	2.88	5.69
24	32.00	20	1.38	1 1/4	29.5	27.25	0.0625	26.12	1.88	3.25	6.00

Nominal Size	Bore Diameter*****			Diameter of Hub at Point of Welding	Bore Corner Radius	Thread length	Socket Depth	Weight				
	LJ	SO & SW	TH					WN	LJ	TH	SW	BLIND
1/2	.9	0.88		0.84	.12	.62	.38	2.00	1.00	1.00	2.00	2.00
3/4	1.11	1.09		1.05	.12	.62	.44	2.00	2.00	2.00	2.00	2.00
1	1.38	1.36		1.32	.12	.69	.5	2	2	2	3	3
1 1/4	1.72	1.70		1.66	.19	.81	0.56	3	3	3	3	3
1 1/2	1.97	1.95		1.9	.25	.88	0.62	3	3	3	4	4
2	2.46	2.44		2.38	.31	1	0.69	4	5	5	6	6
2 1/2	2.97	2.94		2.88	.31	1.12	0.75	7	8	8	8	8
3	3.6	3.57		3.5	.38	1.19	0.81	9	9	9	10	10
3 1/2	4.1	4.07		4	.38	1.25	0.88	13	11	11	12	12
4	4.6	4.57		4.5	.44	1.31	0.94	17	13	13	15	15
5	5.69	5.66		5.56	.44	1.44	0.94	20	15	15	19	19
6	6.75	6.72		6.63	.5	1.56	1.06	27	19	19	24	24
8	8.75	8.72		8.63	.5	1.75	1.25	47	30	30	39	39
10	10.92	10.88		10.75	.5	1.94	1.31	67	43	43	52	52
12	12.92	12.88		12.75	.5	2.19	1.56	123	64	64	80	80
14	14.19	14.14		14	.5	2.25	1.63	139	105	105	110	110
16	16.19	16.16		16	.5	2.5	1.75	187	140	140	140	140
18	18.2	18.18		18	.5	2.69	1.94	217	160	160	150	150
20	20.25	20.2		20	.5	2.88	2.13	283	195	195	180	180
24	24.25	24.25		24	.5	3.25	2.5	415	275	220	260	260

* LAP JOINT FLANGES ARE FLAT-FACED

*** INCLUDES 1/16" RF FOR 150# AND 300#, BUT NOT 1/4" RF FOR 400# AND UP

** BLIND FLANGES DO NOT HAVE A HUB

**** DIMENSIONS ARE INDUSTRY STANDARD AND NOT "TRUE" LAP JOINTS

***** PURCHASER MUST SPECIFY WN AND SW BORES

1 STOP STEEL

SIMPLIFYING SUPPLY CHAIN FOR INDUSTRIAL METALS

ANSI B16.5 CLASS 300 FLANGES

Nominal Size	Outside Diameter of Flange	No. of Holes	Diameter of Holes	Diameter of Bolts	Diameter of Bolt Circle	Diameter of Raised Face*	Height of Raised Face*	Diameter of Hub at Base**	Thickness of Flange***	Length Through Hub*** / ****	
										SO,TH,SW, LJ	WN
ALL TYPES											
1/2	3.75	4	0.62	1/2	2.62	1.38	0.0625	1.5	0.56	0.88	2.06
3/4	4.62	4	0.75	5/8	3.25	1.69	0.0625	1.88	0.62	1.00	2.25
1	4.88	4	0.75	5/8	3.5	2	0.0625	2.12	0.69	1.06	2.44
1 1/4	5.25	4	0.75	5/8	3.88	2.5	0.0625	2.5	0.75	1.06	2.56
1 1/2	6.12	4	0.88	3/4	4.5	2.88	0.0625	2.75	0.81	1.19	2.69
2	6.50	8	0.75	5/8	5	3.62	0.0625	3.31	0.88	1.31	2.75
2 1/2	7.50	8	0.88	3/4	5.88	4.12	0.0625	3.94	1.00	1.50	3.00
3	8.25	8	0.88	3/4	6.62	5	0.0625	4.62	1.12	1.69	3.12
3 1/2	9.00	8	0.88	3/4	7.25	5.5	0.0625	5.25	1.19	1.75	3.19
4	10.00	8	0.88	3/4	7.88	6.19	0.0625	5.75	1.25	1.88	3.38
5	11.00	8	0.88	3/4	9.25	7.31	0.0625	7	1.38	2.00	3.88
6	12.50	12	0.88	3/4	10.62	8.5	0.0625	8.12	1.44	2.06	3.88
8	15.00	12	1	7/8	13	10.62	0.0625	10.25	1.62	2.44	4.38
10	17.50	16	1.12	1	15.25	12.75	0.0625	12.62	1.88	2.62	4.62
12	20.50	16	1.25	1 1/8	17.75	15	0.0625	14.75	2.00	2.88	5.12
14	23.00	20	1.25	1 1/8	20.25	16.25	0.0625	16.75	2.12	3.00	5.62
16	25.50	20	1.38	1 1/4	22.5	18.5	0.0625	19	2.25	3.25	5.75
18	28.00	24	1.38	1 1/4	24.75	21	0.0625	21	2.38	3.50	6.25
20	30.50	24	1.38	1 1/4	27	23	0.0625	23.12	2.50	3.75	6.38
24	36.00	24	1.62	1 1/2	32	27.25	0.0625	27.62	2.75	4.19	6.62

Nominal Size	Bore Diameter*****			Diameter of Hub at Point of Welding	Bore Corner Radius	Thread length	Socket Depth	Weight			
	LJ	SO & SW	TH					WN	BLIND	LJ	SO, SW, TH
1/2	.9	0.88	.93	0.84	.12	.62	.38	2.00	2.00	1.50	2.00
3/4	1.11	1.09	1.14	1.05	.12	.62	.44	3.00	3.00	2.50	3.00
1	1.38	1.36	1.41	1.32	.12	.69	.5	4	3	3	4
1 1/4	1.72	1.7	1.75	1.66	.19	.81	0.56	6	5	5	5
1 1/2	1.97	1.95	1.99	1.9	.25	.88	0.62	7	7	7	7
2	2.46	2.44	2.5	2.38	.31	1	0.69	8	7	7	9
2 1/2	2.97	2.94	3	2.88	.31	1.12	0.75	12	10	10	12
3	3.6	3.57	3.63	3.5	.38	1.19	0.81	16	15	13	15
3 1/2	4.1	4.07	4.13	4	.38	1.25		21	17	16	18
4	4.6	4.57	4.63	4.5	.44	1.31		28	24	24	25
5	5.69	5.66	5.69	5.56	.44	1.44		37	28	29	32
6	6.75	6.72	6.75	6.63	.5	1.56		48	39	36	42
8	8.75	8.72	8.75	8.63	.5	1.75		79	58	56	67
10	10.92	10.88	10.88	10.75	.5	1.94		122	91	77	91
12	12.92	12.88	12.94	12.75	.5	2.19		183	140	113	140
14	14.19	14.14	14.19	14	.5	2.25		241	190	159	180
16	16.19	16.16	16.19	16	.5	2.5		315	234	210	250
18	18.2	18.18	18.19	18	.5	2.69		414	305	253	320
20	20.25	20.2	20.19	20	.5	2.88		515	375	307	400
24	24.25	24.25	24.19	24	.5	3.25		800	550	490	580

* LAP JOINT FLANGES ARE FLAT-FACED

*** INCLUDES 1/16" RF FOR 150# AND 300#, BUT NOT 1/4" RF FOR 400# AND UP

** BLIND FLANGES DO NOT HAVE A HUB

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***** PURCHASER MUST SPECIFY WN AND SW BORES

1 STOP STEEL

SIMPLIFYING SUPPLY CHAIN FOR INDUSTRIAL METALS

ANSI B16.5 CLASS 400 FLANGES

Nominal Size	Outside Diameter of Flange	No. of Holes	Diameter of Holes	Diameter of Bolts	Diameter of Bolt Circle	Diameter of Raised Face*	Height of Raised Face*	Diameter of Hub at Base**	Thickness of Flange***	Length Through Hub*** / ****	
										SO,TH,SW, LJ	WN
ALL TYPES											
1/2	3.75	4	0.62	1/2	2.62	1.38	0.25	1.5	0.56	0.88	2.06
3/4	4.62	4	0.75	5/8	3.25	1.69	0.25	1.88	0.62	1.00	2.25
1	4.88	4	0.75	5/8	3.5	2	0.25	2.12	0.69	1.06	2.44
1 1/4	5.25	4	0.75	5/8	3.88	2.5	0.25	2.5	0.81	1.12	2.62
1 1/2	6.12	4	0.88	3/4	4.5	2.88	0.25	2.75	0.88	1.25	2.75
2	6.50	8	0.75	5/8	5	3.62	0.25	3.31	1.00	1.44	2.88
2 1/2	7.50	8	0.88	3/4	5.88	4.12	0.25	3.94	1.12	1.62	3.12
3	8.25	8	0.88	3/4	6.62	5	0.25	4.62	1.25	1.81	3.25
3 1/2	9.00	8	1	7/8	7.25	5.5	0.25	5.25	1.38	1.94	3.38
4	10.00	8	1	7/8	7.88	6.19	0.25	5.75	1.38	2.00	3.50
5	11.00	8	1	7/8	9.25	7.31	0.25	7	1.50	2.12	4.00
6	12.50	12	1	7/8	10.62	8.5	0.25	8.12	1.62	2.25	4.06
8	15.00	12	1.12	1	13	10.62	0.25	10.25	1.88	2.69	4.62
10	17.50	16	1.25	1 1/8	15.25	12.75	0.25	12.62	2.12	2.88	4.88
12	20.50	16	1.38	1 1/4	17.75	15	0.25	14.75	2.25	3.12	5.38
14	23.00	20	1.38	1 1/4	20.25	16.25	0.25	16.75	2.38	3.31	5.88
16	25.50	20	1.5	1 3/8	22.5	18.5	0.25	19	2.50	3.69	6.00
18	28.00	24	1.5	1 3/8	24.75	21	0.25	21	2.62	3.88	6.50
20	30.50	24	1.62	1 1/2	27	23	0.25	23.12	2.75	4.00	6.62
24	36.00	24	1.88	1 3/4	32	27.25	0.25	27.62	3.00	4.50	6.88

Nominal Size	Bore Diameter*****				Diameter of Hub at Point of Welding	Bore Corner Radius	Thread length	Socket Depth	Weight			
	LJ	SO & SW	TH	WN					BLIND	LJ	SO, SW, TH	WN
1/2	.9	0.88	.93	0.84	.12	.62	.38	2	2	2	2	
3/4	1.11	1.09	1.14	1.05	.12	.62	.44	3	3	3	4	
1	1.38	1.36	1.41	1.32	.12	.69	.5	4	4	4	4	
1 1/4	1.72	1.7	1.75	1.66	.19	.81	0.56	6	5	5	6	
1 1/2	1.97	1.95	1.99	1.9	.25	.88	0.62	8	7	7	8	
2	2.46	2.44	2.5	2.38	.31	1.12	0.69	10	8	8	12	
2 1/2	2.97	2.94	3	2.88	.31	1.25	0.75	15	11	12	18	
3	3.6	3.57	3.63	3.5	.38	1.38	0.81	20	14	15	23	
3 1/2	4.1	4.07	4.13	4	.38	1.56		29	20	21	26	
4	4.6	4.57	4.63	4.5	.44	1.44		33	25	24	35	
5	5.69	5.66	5.69	5.56	.44	1.69		44	29	31	43	
6	6.75	6.72	6.75	6.63	.5	1.81		61	42	39	57	
8	8.75	8.72	8.75	8.63	.5	2		100	64	63	89	
10	10.92	10.88	10.88	10.75	.5	2.19		155	110	91	125	
12	12.92	12.88	12.94	12.75	.5	2.38		226	152	129	175	
14	14.19	14.14	14.19	14	.5	2.5		310	210	191	230	
16	16.19	16.16	16.19	16	.5	2.69		398	280	253	295	
18	18.2	18.18	18.19	18	.5	2.75		502	345	310	350	
20	20.25	20.2	20.19	20	.5	2.88		621	420	378	425	
24	24.25	24.25	24.19	24	.5	3.25		936	615	539	620	

* LAP JOINT FLANGES ARE FLAT-FACED

*** INCLUDES 1/16" RF FOR 150# AND 300#, BUT NOT 1/4" RF FOR 400# AND UP

** BLIND FLANGES DO NOT HAVE A HUB

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***** PURCHASER MUST SPECIFY WN AND SW BORES

1 STOP STEEL

SIMPLIFYING SUPPLY CHAIN FOR INDUSTRIAL METALS

ANSI B16.5 CLASS 600 FLANGES

Nominal Size	Outside Diameter of Flange	No. of Holes	Diameter of Holes	Diameter of Bolts	Diameter of Bolt Circle	Diameter of Raised Face*	Height of Raised Face*	Diameter of Hub at Base**	Thickness of Flange***	Length Through Hub*** / ****	
ALL TYPES										SO,TH,SW, LJ	WN
1/2	3.75	4	0.62	1/2	2.62	1.38	0.25	1.5	0.56	0.88	2.06
3/4	4.62	4	0.75	5/8	3.25	1.69	0.25	1.88	0.62	1.00	2.25
1	4.88	4	0.75	5/8	3.5	2	0.25	2.12	0.69	1.06	2.44
1 1/4	5.25	4	0.75	5/8	3.88	2.5	0.25	2.5	0.81	1.12	2.62
1 1/2	6.12	4	0.88	3/4	4.5	2.88	0.25	2.75	0.88	1.25	2.75
2	6.50	8	0.75	5/8	5	3.62	0.25	3.31	1.00	1.44	2.88
2 1/2	7.50	8	0.88	3/4	5.88	4.12	0.25	3.94	1.12	1.62	3.12
3	8.25	8	0.88	3/4	6.62	5	0.25	4.62	1.25	1.81	3.25
3 1/2	9.00	8	1	7/8	7.25	5.5	0.25	5.25	1.38	1.94	3.38
4	10.75	8	1	7/8	8.5	6.19	0.25	6	1.50	2.12	4.00
5	13.00	8	1.12	1	10.5	7.31	0.25	7.44	1.75	2.38	4.50
6	14.00	12	1.12	1	11.5	8.5	0.25	8.75	1.88	2.62	4.62
8	16.50	12	1.25	1 1/8	13.75	10.62	0.25	10.75	2.19	3.00	5.25
10	20.00	16	1.38	1 1/4	17	12.75	0.25	13.5	2.50	3.38	6.00
12	22.00	20	1.38	1 1/4	19.25	15	0.25	15.75	2.62	3.62	6.12
14	23.75	20	1.5	1 3/8	20.75	16.25	0.25	17	2.75	3.69	6.50
16	27.00	20	1.62	1 1/2	23.75	18.5	0.25	19.5	3.00	4.19	7.00
18	29.25	20	1.75	1 5/8	25.75	21	0.25	21.5	3.25	4.62	7.25
20	32.00	24	1.75	1 5/8	28.5	23	0.25	24	3.50	5.00	7.50
24	37.00	24	2	1 7/8	33	27.25	0.25	28.25	4.00	5.50	8.00

Nominal Size	Bore Diameter*****				Diameter of Hub at Point of Welding	Bore Corner Radius	Thread length	Socket Depth	Weight			
	LJ	SO & SW	TH	WN					BLIND	LJ	SO, SW, TH	WN
1/2	.9	0.88	.93	0.84	.12	.62	.38	2	2	2	2	
3/4	1.11	1.09	1.14	1.05	.12	.62	.44	3	3	3	4	
1	1.38	1.36	1.41	1.32	.12	.69	.5	4	4	4	4	
1 1/4	1.72	1.7	1.75	1.66	.19	.81	0.56	6	5	5	6	
1 1/2	1.97	1.95	1.99	1.9	.25	.88	0.62	8	7	7	8	
2	2.46	2.44	2.5	2.38	.31	1.12	0.69	10	9	8	12	
2 1/2	2.97	2.94	3	2.88	.31	1.25	0.75	15	12	12	18	
3	3.6	3.57	3.63	3.5	.38	1.38	0.81	20	15	15	23	
3 1/2	4.1	4.07	4.13	4	.38	1.56		29	20	21	26	
4	4.6	4.57	4.63	4.5	.44	1.62		41	36	33	42	
5	5.69	5.66	5.69	5.56	.44	1.88		68	63	63	68	
6	6.75	6.72	6.75	6.63	.5	2		86	78	80	81	
8	8.75	8.72	8.75	8.63	.5	2.25		139	112	97	120	
10	10.92	10.88	10.88	10.75	.5	2.56		231	195	177	190	
12	12.92	12.88	12.94	12.75	.5	2.75		295	240	215	225	
14	14.19	14.14	14.19	14	.5	2.88		378	290	259	280	
16	16.19	16.16	16.19	16	.5	3.06		527	400	366	390	
18	18.2	18.18	18.19	18	.5	3.12		665	469	476	475	
20	20.25	20.2	20.19	20	.5	3.25		855	604	612	590	
24	24.25	24.25	24.19	24	.5	3.62		1175	866	876	830	

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***** PURCHASER MUST SPECIFY WN AND SW BORES



+1 832-736-1839



HOUSTON, TEXAS USA



Istopsteel.com

1 STOP STEEL

SIMPLIFYING SUPPLY CHAIN FOR INDUSTRIAL METALS

ANSI B16.5 CLASS 900 FLANGES

Nominal Size	Outside Diameter of Flange	No. of Holes	Diameter of Holes	Diameter of Bolts	Diameter of Bolt Circle	Diameter of Raised Face*	Height of Raised Face*	Diameter of Hub at Base**	Thickness of Flange***	Length Through Hub**** / *****	
ALL TYPES										SO,TH,SW, LJ	WN
1/2	4.75	4	0.88	3/4	3.25	1.38	0.25	1.5	0.88	1.25	2.38
3/4	5.12	4	0.88	3/4	3.5	1.69	0.25	1.75	1.00	1.38	2.75
1	5.88	4	1	7/8	4	2	0.25	2.06	1.12	1.63	2.88
1 1/4	6.25	4	1	7/8	4.38	2.5	0.25	2.5	1.12	1.63	2.88
1 1/2	7.00	4	1.12	1	4.88	2.88	0.25	2.75	1.25	1.75	3.25
2	8.50	8	1	7/8	6.5	3.62	0.25	4.12	1.50	2.25	4.00
2 1/2	9.62	8	1.12	1	7.5	4.12	0.25	4.88	1.62	2.50	4.12
3	9.50	8	1	7/8	7.5	5	0.25	5	1.50	2.13	4.00
4	11.50	8	1.25	1 1/8	9.25	6.19	0.25	6.25	1.75	2.75	4.50
5	13.75	8	1.38	1 1/4	11	7.31	0.25	7.5	2.00	3.13	5.00
6	15.00	12	1.25	1 1/8	12.5	8.5	0.25	9.25	2.19	3.38	5.50
8	18.50	12	1.5	1 3/8	15.5	10.62	0.25	11.75	2.50	4.00	6.38
10	21.50	16	1.5	1 3/8	18.5	12.75	0.25	14.5	2.75	4.25	7.25
12	24.00	20	1.5	1 3/8	21	15	0.25	16.5	3.12	4.63	7.88
14	25.25	20	1.62	1 1/2	22	16.25	0.25	17.75	3.38	5.13	8.38
16	27.75	20	1.75	1 5/8	24.25	18.5	0.25	20	3.50	5.25	8.50
18	31.00	20	2	1 7/8	27	21	0.25	22.25	4.00	6.00	9.00
20	33.75	20	2.12	2	29.5	23	0.25	24.5	4.25	6.25	9.75
24	41.00	20	2.62	2 1/2	35.5	27.25	0.25	29.5	5.50	8.00	11.50

Nominal Size	Bore Diameter*****				Diameter of Hub at Point of Welding	Bore Corner Radius	Thread length	Socket Depth	Weight			
	LJ	SO & SW	TH	WN					LJ	TH	SW	BLIND
1/2	.9	0.88	.93	0.84	.12	.88		4	6	6	5	
3/4	1.11	1.09	1.14	1.05	.12	1		6	6	6	6	
1	1.38	1.36	1.41	1.32	.12	1.12		9	8	8	9	
1 1/4	1.72	1.70	1.75	1.66	.19	1.19		10	10	10	10	
1 1/2	1.97	1.95	1.99	1.9	.25	1.25		14	14	14	13	
2	2.46	2.44	2.5	2.38	.31	1.5		25	21	22	25	
2 1/2	2.97	2.94	3	2.88	.31	1.88		35	25	36	36	
3	3.6	3.57	3.63	3.5	.38	1.62		32	29	31	31	
4	4.6	4.57	4.63	4.5	.44	1.88		54	51	53	53	
5	5.69	5.66	5.69	5.56	.44	2.12		87	81	83	86	
6	6.75	6.72	6.75	6.63	.5	2.25		113	105	108	110	
8	8.75	8.72	8.75	8.63	.5	2.5		197	190	172	175	
10	10.92	10.88	10.88	10.75	.5	2.81		290	277	245	260	
12	12.92	12.88	12.94	12.75	.5	3		413	371	326	325	
14	14.19	14.14	14.19	14	.5	3.25		494	415	380	400	
16	16.19	16.16	16.19	16	.5	3.38		619	488	459	495	
18	18.2	18.18	18.19	18	.5	3.5		880	670	647	680	
20	20.25	20.2	20.19	20	.5	3.62		1107	868	792	830	
24	24.25	24.25	24.19	24	.5	4		2099	1659	1480	1500	

* LAP JOINT FLANGES ARE FLAT-FACED

*** INCLUDES 1/16" RF FOR 150# AND 300#, BUT NOT 1/4" RF FOR 400# AND UP

** BLIND FLANGES DO NOT HAVE A HUB

**** DIMENSIONS ARE INDUSTRY STANDARD AND NOT "TRUE" LAP JOINTS

***** PURCHASER MUST SPECIFY WN AND SW BORES

1 STOP STEEL

SIMPLIFYING SUPPLY CHAIN FOR INDUSTRIAL METALS

ANSI B16.5 CLASS 1500 FLANGES

Nominal Size	Outside Diameter of Flange	No. of Holes	Diameter of Holes	Diameter of Bolts	Diameter of Bolt Circle	Diameter of Raised Face*	Height of Raised Face*	Diameter of Hub at Base**	Thickness of Flange***	Length Through Hub*** / ****	
ALL TYPES										SO,TH,SW, LJ	WN
1/2	4.75	4	0.88	3/4	3.25	1.38	0.25	1.5	0.88	1.25	2.38
3/4	5.12	4	0.88	3/4	3.5	1.69	0.25	1.75	1.00	1.38	2.75
1	5.88	4	1	7/8	4	2	0.25	2.06	1.12	1.63	2.88
1 1/4	6.25	4	1	7/8	4.38	2.5	0.25	2.5	1.12	1.63	2.88
1 1/2	7.00	4	1.12	1	4.88	2.88	0.25	2.75	1.25	1.75	3.25
2	8.50	8	1	7/8	6.5	3.62	0.25	4.12	1.50	2.25	4.00
2 1/2	9.62	8	1.12	1	7.5	4.12	0.25	4.88	1.62	2.50	4.12
3	10.50	8	1.25	1 1/8	8	5	0.25	5.25	1.88	2.88	4.62
4	12.25	8	1.38	1 1/4	9.5	6.19	0.25	6.38	2.12	3.56	4.88
5	14.75	8	1.62	1 1/2	11.5	7.31	0.25	7.75	2.88	4.13	6.12
6	15.50	12	1.5	1 3/8	12.5	8.5	0.25	9	3.25	4.69	6.75
8	19.00	12	1.75	1 5/8	15.50	10.62	0.25	11.5	3.62	5.63	8.38
10	23.00	12	2	1 7/8	19	12.75	0.25	14.5	4.25	7.00	10.00
12	26.50	16	2.12	2	22.5	15	0.25	17.75	4.88	8.63	11.12
14	29.50	16	2.38	2 1/4	25	16.25	0.25	19.5	5.25	9.50	11.75
16	32.50	16	2.62	2 1/2	27.75	18.5	0.25	21.75	5.75	10.25	12.25
18	36.00	16	2.88	2 3/4	30.5	21	0.25	23.5	6.38	10.88	12.88
20	38.75	16	3.12	3	32.75	23	0.25	25.25	7.00	11.50	14.00
24	46.00	16	3.62	3 1/2	39	27.25	0.25	30	8.00	13.00	16.00

Nominal Size	Bore Diameter*****				Diameter of Hub at Point of Welding	Bore Corner Radius	Thread length	Socket Depth	Weight			
	LJ	SO & SW	TH	WN					BLIND	LJ	SO, SW, TH	WN
1/2	.9	0.88	.93	0.84	.12	.88	.38	4	6	6	5	
3/4	1.11	1.09	1.14	1.05	.12	1	.44	6	6	6	6	
1	1.38	1.36	1.41	1.32	.12	1.12	.5	9	8	8	9	
1 1/4	1.72	1.70	1.75	1.66	.19	1.19	0.56	10	10	10	10	
1 1/2	1.97	1.95	1.99	1.9	.25	1.25	0.62	14	14	14	13	
2	2.46	2.44	2.5	2.38	.31	1.5	0.69	25	25	22	25	
2 1/2	2.97	2.94	3	2.88	.31	1.88	0.75	35	35	36	36	
3	3.6	3.57		3.5	.38			48	47	48	48	
4	4.6	4.57		4.5	.44			73	75	73	73	
5	5.69	5.66		5.56	.44			142	140	132	130	
6	6.75	6.72		6.63	.5			159	170	164	165	
8	8.75	8.72		8.63	.5			302	286	258	275	
10	10.92	10.88		10.75	.5			507	485	436	455	
12	12.92	12.88		12.75	.5			775	749	667	690	
14	14.19			14	.5			975	890		940	
16	16.19			16	.5			1300	1250		1250	
18	18.2			18	.5			1750	1475		1625	
20	20.25			20	.5			2225	1775		2050	
24	24.25			24	.5			3625	2825		3325	

* LAP JOINT FLANGES ARE FLAT-FACED

*** INCLUDES 1/16" RF FOR 150# AND 300#, BUT NOT 1/4" RF FOR 400# AND UP

** BLIND FLANGES DO NOT HAVE A HUB

**** DIMENSIONS ARE INDUSTRY STANDARD AND NOT "TRUE" LAP JOINTS

***** PURCHASER MUST SPECIFY WN AND SW BORES

1 STOP STEEL

SIMPLIFYING SUPPLY CHAIN FOR INDUSTRIAL METALS

ANSI B16.5 CLASS 2500 FLANGES

Nominal Size	Outside Diameter of Flange	No. of Holes	Diameter of Holes	Diameter of Bolts	Diameter of Bolt Circle	Diameter of Raised Face*	Height of Raised Face*	Diameter of Hub at Base**	Thickness of Flange***	Length Through Hub*** / ****	
ALL TYPES										SO,TH,SW, LJ	WN
1/2	5.25	4	0.88	3/4	3.5	1.38	0.25	1.69	1.19	1.56	2.88
3/4	5.50	4	0.88	3/4	3.75	1.69	0.25	2	1.25	1.69	3.12
1	6.25	4	1	7/8	4.25	2	0.25	2.25	1.38	1.88	3.50
1 1/4	7.25	4	1.12	1	5.12	2.5	0.25	2.88	1.50	2.06	3.75
1 1/2	8.00	4	1.25	1 1/8	5.75	2.88	0.25	3.12	1.75	2.38	4.38
2	9.25	8	1.12	1	6.75	3.62	0.25	3.75	2.00	2.75	5.00
2 1/2	10.50	8	1.25	1 1/8	7.75	4.12	0.25	4.5	2.25	3.13	5.62
3	12.00	8	1.38	1 1/4	9	5	0.25	5.25	2.62	3.63	6.62
4	14.00	8	1.62	1 1/2	10.75	6.19	0.25	6.5	3.00	4.25	7.50
5	16.50	8	1.88	1 3/4	12.75	7.31	0.25	8	3.62	5.13	9.00
6	19.00	8	2.12	2	14.5	8.5	0.25	9.25	4.25	6.00	10.75
8	21.75	12	2.12	2	17.25	10.62	0.25	12	5.00	7.00	12.50
10	26.50	12	2.62	2 1/2	21.25	12.75	0.25	14.75	6.50	9.00	16.50
12	30.00	12	2.88	2 3/4	24.38	15	0.25	17.38	7.25	10.00	18.25

Nominal Size	Bore Diameter*****				Diameter of Hub at Point of Welding	Bore Corner Radius	Thread length	Socket Depth	Weight			
	LJ	SO & SW	TH	WN					BLIND	LJ	SO, SW, TH	WN
1/2	.9	0.88	.93	0.84	.12	1.12		8	7	7	7	
3/4	1.11	1.09	1.14	1.05	.12	1.25		9	8	9	8	
1	1.38	1.36	1.41	1.32	.12	1.38		13	12	12	12	
1 1/4	1.72	1.70	1.75	1.66	.19	1.5		20	17	18	17	
1 1/2	1.97	1.95	1.99	1.9	.25	1.75		28	24	25	25	
2	2.46	2.44	2.5	2.38	.31	2		42	37	38	42	
2 1/2	2.97	2.94	3	2.88	.31	2.25		52	53	55	52	
3	3.6	3.57	3.5	3.5	.38			94	80	83	94	
4	4.6	4.57		4.5	.44			146	122	127	145	
5	5.69	5.66		5.56	.44			244	204	210	245	
6	6.75	6.72		6.63	.5			378	314	323	380	
8	8.75	8.72		8.63	.5			576	471	485	580	
10	10.92	10.88		10.75	.5			1068	897	925	1075	
12	12.92	12.88		12.75	.5			1608	1262	1300	1525	