

18 E. Black Horse Pike Williamstown, NJ 08094 (609) 561-9323 www.pipingsuppliesinc.com

Machining pipe flanges and specialty machined products for over 50 years

## **Flange Re-Machining**

From 1 part to thousands of parts in almost any metal!

- Raised Face (most common) to Flat Faced
- Reducing Slip-On from blinds: putting a straight hole in center of a blind flange so that a smaller pipe can use it as a slip-on. Example 6" X 2" 150# RF Reducing SO will bolt to a 6" 150# outlet but allow a 2" pipe to be welded to the center in a slipon fashion.
- ➤ Reducing Threaded from blinds: putting a pipe thread in center of a blind flange for a smaller threaded pipe. Example 4" X 1/2" 150# RF Reducing THD will bolt to a 4" 150# outlet but allow a 1/2" pipe to be screwed to the center. These are often times used as outlets for pressure gages or other testing.
- Reducing Socket-Welds from blinds: Same as the reducing slip-on above but a socket-weld outlet. Not as common but we can make that.
- ➤ Changing the bore (center) of a weldneck (butt weld) or socket weld flange to match a thinner wall pipe. Seamless pipe always has the same outside diameter but the inside diameter varies with the wall thickness of the pipe. Weldnecks and socket welds must match this. An XH flange can be made into a STD, a S/40 can be made into a S/10, etc. See the Pipe Chart attached.



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					Est Wt
Pipe					LBS
Size	OD	ID	Schedules	Wall	per Ft
		.307	10, 10S	.049	.1863
1/8"	.405	.269	40, STD, 40S	.068	.2447
		.215	80, XS, 80S	.095	.3145
1/4"		.410	10, 10S	.065	.3297
	.540	.364	40, STD, 40S	.088	.4248
		.302	80, XS, 80S 10, 10S	.119	.5351
3/8"	.675	.545	40, STD, 40S	.065	.4235 .5676
3.6	.070	.423	80, XS, 80S	.126	.7388
		.674	10, 10S	.083	.6710
		.622	40, STD, 40S	.109	.8510
1/2"	.840	.546	80, XS, 80S	.147	1.088
		.466	160	.187	1.304
		.252	XX	.294	1.714
		.884	10, 10S 40, STD, 40S	.083	.8572 1.131
3/4"	1.050	.742	80, XS, 80S	.154	1.474
		.614	160	.218	1.937
		.434	XX	.308	2.441
		1.097	10, 10S	.109	1.404
1"	4 045	1.049	40, STD, 40S	.133	1.679
1"	1.315	.957	80, XS, 80S	.179	2.172
		.815 .599	160 XX	.250 .358	2.844 3.659
		1,442	10, 10S	.109	1.806
		1.380	40, STD, 40S	.140	2.273
1 1/4"	1.660	1.278	80, XS, 80S	.191	2.997
		1.160	160	.250	3.765
		.896	XX	.382	5.214
		1.682	10, 10S	.109	2.085
1 1/2"	1,900	1.610	40, STD, 40S	.145	2.718
1 1/2	1.900	1.500	80, XS, 80S 160	.200	3.631 4.859
		1.100	XX	.400	6.408
		2.157	10, 10S	.109	2.638
	2.375	2.067	40, STD, 40S	.154	3.853
2"		1.939	80, XS, 80S	.218	5.022
		1.689	160	.344	7.462
		1.503	XX	.436	9.029
2 1/2"	2.875	2.635	10, 10S	.120	3.531 5.793
		2.323	40, STD, 40S 80, XS, 80S	.203	7.651
		2.125	160	.375	10.01
		1.771	XX	.552	13.70
	3.500	3.260	10, 10S	.120	4.332
9"		3.068	40, STD, 40S	.216	7.576
3"		2.900	80, XS, 80S	.300	10.25
		2.624	160 XX	.438	14.32 18.58
3 1/2"	4.000	3.760	10, 108	.120	4.937
		3.548	40, STD, 40S	.226	9.109
		3.364	80, XS, 80S	.318	12.51
		2.728	XX	.636	22.85
4"	4.500	4.260	10, 10S	.120	5.613
		4.026	40, STD, 40S	.237	10.790
		3.826	80, XS, 80S	.337	14.98
		3.624	160	.438	19 22.51
		3.152	XX	.674	27.54

					Est Wt
Pipe	OD	ID	Schedules	Wall	LBS
Size	OD	II.	Scriedules	waii	per Ft
4.4/0"	5,000	4,506	STD, 40S	.247	12.54
4 1/2"	5.000	4.290	XS, 80S	.355	17.61
5"		5.295	10, 10S	.134	7.770
		5.047	40, STD, 40S	.258	14.62
	5.563	4.813	80, XS, 80S	.375	20.78
		4.563	120	.500	27.04
		4.313	160	.625	32.96
		4.063 6.357	10, 10S	.750 .134	38.55 9,290
		6.065	40, STD, 40S	.280	18.97
		5.761	80, XS, 80S	.432	28.57
6"	6.625	5.501	120	.562	35.39
		5.189	160	.719	43.35
		4.897	XX	.864	53.16
		8.329	10, 108	.148	13.40
		8.125	20	.250	22.36
		8.071	30	.277	24.70
		7.981	40, STD, 40S	.322	28.55
		7.813	60	.406	35.64
8"	8.625	7.625	80, XS, 80S	.500	43.39
		7.439	100	.594	50.95
		7.189	120	.719	61.71
		7.001	140	.812	67.76
		6.813	160	.906	74.79
		6.875	XX	.875	72.42
		10.420	10, 108	.165	18.65
		10.250	20	.250	28.04
		10.136	30	.307	34.24
		10.020	40, STD, 40S	.365	40.48
10"	10.750	9.750	60, XS, 80S	.500	54.74
		9.564	80	.594	64.43
		9.314	100	.719	77.03
		9.064	120	.844	82.29
		8.750	140, XX	1.000	104.1
		8.500	160	1.125	115.6
		12.390	10, 108	.180	24.16
	12.750	12.250	20	.250	33.38
		12.090	30	.330	43.77
		12.000	STD, 40S	.375	49.56
		11.938	40 vc anc	.406 .500	53.52 65.42
12"		11.750	XS, 80S 60	.562	73.15
		11.376	80	,688	88.63
		11.064	100	.844	107.9
		10.750	120, XX	1.000	125.5
		10.500	140	1.125	136.7
			160	1.312	150.3
		13.624	108	.188	27.73
	14.000	13.500	10	.250	36.71
14"		13.375	20	.312	45.61
		13.250	30, STD, 40S	.375	54.57
		13.124	40	.438	63.44
		13.000	XS, 80S	.500	72.09
		12.814	60	.594	85.05
		12.500	80	.750	106.1
		12.124	100	.938	130.9
		11.814	120	1.09	150.8
		11.500	140	1.250	170.2
		11.188	160	1.406	189.1

18"  18.000  16.000  1	Pipe Size	OD	ID	Sche dules	Wall	Est Wt LBS per Ft
16" 16.00 10	16"		15 624	108	188	
16"   16.000						
16"   16.000						
16"   16.000						
16"   16.000						
14.314   80   .844   136.6   13.938   100   1.031   164.8   13.564   120   1.22   192.4   13.124   140   1.439   223.6   17.624   160   1.594   245.3   17.624   10S   .188   35.76   17.620   10   .250   47.99   17.375   20   .312   58.94   17.250   3TD, 40S   .375   70.59   17.124   30   .438   82.15   17.000   XS, 80S   .500   93.45   16.876   40   .562   104.7   16.506   60   .750   138.2   16.126   80   .938   170.9   15.688   100   1.156   208.00   15.250   120   1.38   244.10   14.876   140   1.562   274.20   14.438   160   1.781   308.5   19.504   19.504   10S   .218   48.05   19.504   19.504   19.504   19.504   19.504   12.310   19.504   17.338   80   1.031   208.90   17.438   100   1.250   52.73   19.250   20, STD, 40S   .375   78.6   19.000   30, XS, 80S   .500   104.10   19.812   40   .594   123.10   17.393   80   1.031   208.90   17.438   100   1.281   256.10   17.939   80   1.031   208.90   17.438   100   1.281   256.10   17.938   80   1.031   208.90   16.500   140   1.750   341.10   16.064   160   1.969   379.20   16.500   140   1.750   341.10   16.064   160   1.969   379.20   22.876   30   .562   140.70   22.626   40   .688   171.30   23.620   125.50   125.50   125.50   125.50   125.50   125.50   125.		16,000				
13,938   100		10.000				
18"   13.564   120						
13.124   140						
18"   12.814   160						
18"   17.624   10S   .188   35.76   17.500   10   .250   47.99   17.375   20   .312   58.94   17.250   5TD, 40S   .375   70.59   17.124   30   .438   82.15   17.000   XS, 80S   .500   93.45   16.876   40   .562   104.7   16.500   60   .750   138.2   16.126   80   .938   170.9   15.888   100   .1.156   208.00   15.250   120   .1.38   244.10   14.438   160   .1.791   308.5   19.500   10   .250   52.73   19.500   10   .250   52.73   19.250   20, STD, 40S   .375   78.6   19.000   30, XS, 80S   .500   104.10   18.812   40   .594   123.10   17.938   30   .1.031   208.90   17.438   100   .1.281   256.10   17.000   120   .1.500   296.40   16.500   140   .1.750   341.10   16.064   160   .1.969   379.20   16.500   140   .1.750   341.10   16.064   160   .1.969   379.20   22.876   30   .562   140.70   23.840						
18"   17.500   10						
18" 18.000				-		
18"  18.000			-			
18"   18.000			-			
18"   18.000   16.876   40   .662   104.7   16.500   60   .760   138.2   16.126   80   .938   170.9   15.681   100   1.156   208.00   15.250   120   1.38   244.10   14.876   140   1.562   274.20   14.438   160   1.781   308.5   19.564   10S   .218   48.05   19.500   10   .250   52.73   19.250   20, STD, 40S   .375   78.6   19.000   18.812   40   .594   123.10   17.938   80   1.031   208.90   17.438   100   1.281   256.10   17.900   120   1.500   296.40   16.500   140   1.750   341.10   16.064   160   1.969   379.20   23.500   10, 10S   .250   63.41   23.250   20, STD, 40S   .375   96.42   23.250   20, STD, 40S   .375   118.65   29.000   20, XS, 80S   .500   157.53   29.250   STD, 40S   .375   118.65   29.000   20, XS, 80S   .500   157.53   28.750   30   .625   196.06   36.000   XS, 80S   .500   187.53   36.000   XS, 80S   .500   187.53   36.000   XS, 80S   .500   189.57   34.750   30   .625   235.13   34.80   47.250   STD, 40S   .375   190.74						
18"   18.000						
20" 20" 20" 20" 20" 20	19"	19 000	-			
20" 20" 21	10	10.000	-			
20" 20" 21.000 22.876 23.000 24.000 24.000 25.850 26" 24.000 24.000 25.876 25.876 25.876 25.876 25.876 25.876 25.876 25.876 25.877 25.877 25.8						
20" 20" 20   15,250   120   1,38   244,10   14,876   140   1,562   274,20   14,438   160   1,791   308,5   19,564   10S   .218   48,05   19,500   10   .250   52,73   19,250   20, STD, 40S   .375   78,6   19,000   30, XS, 80S   .500   104,10   18,812   40   .594   123,10   17,938   80   .1,031   208,90   17,438   100   .1,291   256,10   17,000   120   .1,500   296,40   16,500   140   .1,750   341,10   16,064   160   .1,969   379,20   23,500   10,10S   .250   63,41   23,250   20, STD, 40S   .375   96,42   23,000   XS, 80S   .500   125,50   22,876   30   .562   140,70   22,626   40   .688   171,30   22,636   40   .688   171,30   22,6376   120   .1,812   429,40   19,374   160   .2,344   542,10   20,376   120   .1,812   429,40   19,374   160   .2,344   542,10   29,376   140   .2,062   483,10   19,314   160   .2,344   542,10   29,376   140   .2,062   483,10   19,314   160   .2,344   542,10   29,376   10, 10S   .312   98,93   30" 30.000   20, XS, 80S   .500   157,53   28,750   30   .625   196,06   35,250   STD, 40S   .375   118,65   29,000   20, XS, 80S   .500   157,53   28,750   30   .625   196,06   35,250   STD, 40S   .375   142,68   36"   36,000   XS, 80S   .500   189,57   34,750   30   .625   235,13						
20" 20" 21						
20" 20.000   14.438   160   1.781   308.5     19.564   10S						
20" 20.000   19.564   10S   .218   48.05						
24" 24" 24" 24" 24" 24" 26" 30" 30.000 20, 800						
24" 24" 24.000 24.000 24.000 25.600 26.600 2				10S		
20" 20.000			19.500	10	.250	52.73
20" 20.000			19.250	20, STD, 40S		78.6
24" 24.000			19.000	30, XS, 80S		104.10
24" 24" 24.000 24.000 24.000 25.60 26.76 26.76 26.76 26.76 26.76 27.76 28.86 28.76 28.86 28.76 28.76 28.86 28.76 28.86 28.76 28.86 28.76 28.76 28.86 28.76 28.86 28.86 28.76 28.86 28.76 28.86 28.76 28.76 28.76 28.76 28.86 28.76 28.86 28.76 28.86 28.76 2			18.812	40	.594	123.10
24" 24" 24.000 22.626 40 22.636 40 23.630 26.632 140.70 22.636 40 22.636 40 23.630 1.219 296.80 20.938 100 21.564 80 20.938 100 20.936 120 1.812 429.40 19.876 140 20.376 120 1.812 429.40 19.876 140 20.376 120 20.376 120 30.000 20.376 120 30.000 20.376 120 30.000 20.376 120 30.000 20.376 120 30.000 20.376 120 30.0000 30.0000 30.0000 30.0000 30.0000 30.0000 30.0000 30.0000 30.0000 3	20"	20.000	18.376	60	.812	155.40
24" 24" 24" 24" 24" 30" 30" 36" 36" 36" 36" 36" 36" 36" 36" 36" 36			17.938	80	1.031	208.90
24" 24" 24.000   140   1.750   341.10   23.500   10,108   .250   63.41   23.250   20,8TD,408   .375   96.42   23.000   38,808   .500   125.50   22.876   30   .562   140.70   22.626   40   .688   171.30   22.626   40   .688   171.30   21.564   90   1.219   296.80   20.378   100   1.531   357.40   20.378   120   1.812   429.40   19.876   140   2.062   483.10   19.314   160   2.344   542.10   19.314   160   2.344   542.10   29.376   10,108   .312   98.93   29.250   8TD,408   .375   118.65   29.000   20,X8,808   .500   157.53   29.750   30   .625   196.06   36.000   X8,808   .375   118.96   36"   36.000   X8,808   .375   142.68   36.000   X8,808   .500   189.57   34.750   30   .625   235.13   48"   48.000   47.250   8TD,408   .375   190.74			17.438	100	1.281	256.10
24" 24.000			17.000	120	1.500	296.40
24" 24.000			16.500	140	1.750	341.10
24" 24.000			16.064	160	1.969	379.20
24" 24.000		24.000	23.500	10, 10S	.250	63.41
24" 24.000			23.250	20, STD, 40S	.375	96.42
24" 24.000 22.626 40			23.000	XS, 80S	.500	125.50
30"     22.064 80     .969 238.40       21.564 90     1.219 296.80       20.938 100     1.531 357.40       20.376 120     1.812 429.40       19.876 140     2.064 483.10       19.314 160     2.344 542.10       29.376 10, 108     .312 98.93       29.250 STD, 408     .375 118.65       29.000 20, X8, 808     .500 157.53       29.750 30     .625 196.06       35.250 STD, 408     .375 142.68       36.000 X8, 808     .500 189.57       34.750 30     .625 235.13       48.00 47.250 STD, 408     .375 190.74			22.876	30	.562	140.70
30" 36.000 21.564 80 1.219 296.80 20.938 100 1.531 367.40 20.376 120 1.812 429.40 19.876 140 2.062 483.10 19.314 160 2.344 542.10 29.376 10.10S .312 98.93 29.250 STD, 40S .500 157.53 28.750 30 .625 196.06 28.750 35.250 STD, 40S .375 118.92 36.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0	24"		22.626	40	.688	171.30
30" 36.000 21.564 80 1.219 296.80 20.938 100 1.531 367.40 20.376 120 1.812 429.40 19.876 140 2.062 483.10 19.314 160 2.344 542.10 29.376 10.10S .312 98.93 29.250 STD, 40S .500 157.53 28.750 30 .625 196.06 28.750 35.250 STD, 40S .375 118.92 36.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0			22.064	60	.969	238,40
30" 30.000				80		
30" 30.000   20.376   120   1.812   429.40     19.876   140   2.062   483.10     19.314   160   2.344   542.10     29.376   10, 10S   .312   98.93     29.250   STD, 40S   .375   118.65     29.000   20, XS, 80S   .500   157.53     28.750   30   .625   196.06     35.250   STD, 40S   .375   118.92     35.250   STD, 40S   .375   142.68     35.000   XS, 80S   .500   189.57     34.750   30   .625   235.13     48.000   47.250   STD, 40S   .375   190.74						
30" 30.000   19.876   140   2.062   483.10   19.314   160   2.344   542.10   29.376   10, 108   .312   98.93   29.250   8TD, 408   .375   118.65   29.000   20, X8, 908   .500   157.53   28.750   30   .625   196.06   35.250   8TD, 408   .375   142.68   35.000   X8, 808   .500   189.57   34.750   30   .625   235.13   48.000   47.250   8TD, 408   .375   190.74						
30" 30.000   19.314   160   2.344   542.10				140		
30" 30.000 29.250 STD, 40S .312 98.93 29.250 STD, 40S .375 118.65 29.000 20, XS, 80S .500 157.53 28.750 30 .625 196.06 35.250 STD, 40S .375 142.68 35.250 STD, 40S .375 142.68 35.000 XS, 80S .500 189.57 34.750 30 .625 235.13 48.000 47.250 STD, 40S .375 190.74						
30" 30.000 29.250 STD, 40S .375 118.65 29.000 20, X8, 80S .500 157.53 28.750 30 .625 196.06 35.376 10 .312 118.92 35.250 STD, 40S .375 142.68 35.000 X8, 80S .500 189.57 34.750 30 .625 235.13 48" 48.000 47.250 STD, 40S .375 190.74		30.000				
36" 36.000 20, XS, 808 .500 157.53 28.750 30 .625 196.06 35.376 10 .312 118.92 35.250 STD, 408 .375 142.68 35.000 XS, 808 .500 189.57 34.750 30 .625 235.13 48.000 47.250 STD, 408 .375 190.74	30"					
36" 36.000 28.750 30 .625 196.06 35.376 10 .312 118.92 35.250 STD, 408 .375 142.68 35.000 XS, 808 .500 189.57 34.750 30 .625 235.13 48.00 47.250 STD, 408 .375 190.74						
36" 36.000 35.250 STD, 40S .375 142.68 35.000 XS, 80S .500 189.57 34.750 30 .625 235.13 48" 48.000 47.250 STD, 40S .375 190.74						
36" 36.000 35.250 STD, 40S .375 142.68 35.000 XS, 80S .500 189.57 34.750 30 .625 235.13 48" 48.000 47.250 STD, 40S .375 190.74	36"	36.000				
35.000 XS, 80S .500 189.57 34.750 30 .625 235.13 48.00 47.250 STD, 40S .375 190.74						
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