



**SM SERVICE METAL**  
*The Best Products. The Best Service.*

January 8th, 2009



*Carbon Steel*

# *Weld Fittings & Flanges*

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**CARBON STEEL FLANGES**

CLASS 150	TYPE	WELD NECK	SLIP-ON	BLIND	THREADED	SOCKET WELD	LAP JOINT	REDUCING	
	SIZE	STD AND XS	1/6" RAISED FACE	1/6" RAISED FACE	1/6" RAISED FACE	STD AND XS	FLAT FACE	O.D.	1/16" RAISED FACE
									SLIP-ON THREADED
	1/2"	\$30.11	\$20.59	\$24.71	\$31.02	\$27.18	\$21.69	3-1/2"	-
	3/4"	30.11	20.59	24.71	31.02	27.18	21.69	3-7/8"	-
	1"	30.11	20.59	24.71	31.02	27.18	21.69	4-1/4"	86.75
	1-1/4"	30.11	20.59	24.71	31.02	27.18	21.69	4-5/8"	86.75
	1-1/2"	30.11	20.59	24.71	31.02	27.18	21.69	5"	86.75
	2"	34.48	22.88	27.58	34.75	29.93	24.18	6"	97.07
	2-1/2"	37.49	39.16	41.96	42.59	40.21	38.93	7"	113.97
	3"	40.92	31.08	35.16	42.85	38.14	32.92	7-1/2"	103.22
	3-1/2"	49.67	38.95	49.28	49.80	-	40.39	8-1/2"	-
	4"	49.67	38.95	49.28	49.80	49.65	40.39	9"	109.36
	5"	78.43	67.84	64.81	78.38	-	63.40	10"	249.44
	6"	75.03	64.05	75.03	86.14	81.18	67.84	11"	249.44
	8"	132.55	97.25	123.11	147.84	116.99	107.56	13-1/2"	436.52
	10"	212.29	167.84	237.10	268.71	-	169.93	16"	627.90
	12"	308.50	248.89	357.10	375.03	222.60	311.61	19"	869.49
	14"	444.71	330.69	591.37	-	-	664.29	21"	-
	16"	668.63	516.99	872.81	-	-	867.15	23-1/2"	-
	18"	941.05	642.35	1,183.27	-	-	987.82	25"	-
	20"	1,147.06	734.41	1,487.35	-	-	1,113.55	27-1/2"	-
	24"	1,542.48	1,061.31	2,052.94	-	-	1,333.44	32"	-

CLASS 300	TYPE	WELD NECK	SLIP-ON	BLIND	THREADED	SOCKET WELD	LAP JOINT	REDUCING	
	SIZE	STD AND XS	1/6" RAISED FACE	1/6" RAISED FACE	1/6" RAISED FACE	STD AND XS	FLAT FACE	O.D.	1/16" RAISED FACE
									SLIP-ON THREADED
	1/2"	\$36.24	\$27.45	\$32.12	\$34.31	\$34.31	\$29.92	3-3/4"	-
	3/4"	36.24	27.45	32.12	34.31	34.31	29.92	4-5/8"	-
	1"	36.24	27.45	32.12	34.31	34.31	29.92	4-7/8"	133.41
	1-1/4"	36.24	27.45	32.12	34.31	34.31	29.92	5-1/4"	133.41
	1-1/2"	36.24	27.45	32.12	34.31	34.31	29.92	6-1/8"	133.41
	2"	45.10	36.47	35.95	39.87	39.08	34.38	6-1/2"	133.41
	2-1/2"	51.63	41.18	63.14	55.82	47.22	49.54	7-1/2"	-
	3"	52.16	44.84	51.22	59.48	62.09	51.63	8-1/4"	197.37
	3-1/2"	85.75	64.58	81.57	85.62	-	78.41	9"	-
	4"	85.75	64.58	81.57	85.62	101.26	78.41	10"	-
	5"	130.59	112.05	141.44	129.10	129.10	130.59	11"	-
	6"	133.33	112.39	143.01	160.26	-	140.52	12-1/2"	-
	8"	229.80	191.87	221.41	296.30	-	235.27	15"	-
	10"	415.95	327.32	441.28	308.83	-	363.69	17-1/2"	-
	12"	534.88	402.54	637.52	373.61	-	513.25	20-1/2"	-
	14"	1,150.20	1,002.98	1,309.57	-	-	-	23"	-
	16"	1,361.80	1,102.88	1,750.56	-	-	-	25-1/2"	-
	18"	1,734.85	1,372.21	2,274.90	-	-	-	28"	-
	20"	2,167.32	1,520.55	2,616.34	-	-	-	30-1/2"	-
	24"	2,992.42	2,403.66	3,918.80	-	-	-	36"	-

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**CARBON STEEL FLANGES**

TYPE	WELD NECK	SLIP-ON	BLIND	THREADED	SOCKET WELD	LAP JOINT	REDUCING								
							SIZE	STD AND XS	1/4" RAISED FACE	1/4" RAISED FACE	1/4" RAISED FACE	1/4" RAISED FACE	O.D.	1/4" RAISED FACE	
														STD BORE AND XS BORE	FLAT FACE
CLASS 600	1/2"	\$43.92	\$40.63	\$39.53	\$78.24	\$62.86	\$66.50	3-3/4"	POA	POA					
	3/4"	43.92	40.63	39.53	78.24	62.86	66.50	4-5/8"	POA	POA					
	1"	43.92	40.63	39.53	78.24	62.86	66.50	4-7/8"	POA	POA					
	1-1/4"	43.92	40.63	39.53	78.24	62.86	66.50	5-1/4"	POA	POA					
	1-1/2"	43.92	40.63	39.53	78.24	62.86	66.50	6-1/8"	POA	POA					
	2"	50.59	49.02	49.80	86.25	68.24	-	6-1/2"	POA	POA					
	2-1/2"	69.41	68.47	67.32	86.25	76.31	-	7-1/2"	POA	POA					
	3"	72.94	73.33	70.56	129.80	92.33	-	8-1/4"	POA	POA					
	3-1/2"	157.80	146.80	123.90	190.27	-	-	9"	POA	POA					
	4"	157.80	146.80	123.90	190.27	151.27	-	10-3/4"	POA	POA					
	5"	120.24	164.70	233.67	231.35	-	-	13"	POA	POA					
	6"	257.12	334.51	306.90	248.58	-	-	14"	POA	POA					
	8"	494.77	532.68	477.36	425.83	-	-	16-1/2"	POA	POA					
	10"	692.81	1,176.44	784.18	533.25	-	-	20"	POA	POA					
	12"	1,458.69	1,827.76	1,437.86	680.39	-	-	22"	POA	POA					
	14"	1,697.34	1,895.42	1,829.67	-	-	-	23-3/4"	POA	POA					
	16"	2,722.98	2,100.21	2,355.95	-	-	-	27"	POA	POA					
	18"	2,924.08	2,159.35	3,398.04	-	-	-	29-1/4"	POA	POA					
20"	3,937.66	3,464.05	4,248.76	-	-	-	32"	POA	POA						
24"	5,329.31	4,138.77	5,750.98	-	-	-	37"	POA	POA						

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## SEAMLESS CARBON STEEL WELD FITTINGS

NOM. PIPE SIZE (IN.)	90° ELBOW		45°	180° RETURN		CAP	TEE STRAIGHT	STUB END	WELD CROSS	WELD LATERAL
	LONG RADIUS	SHORT RADIUS	LONG RADIUS	LONG RADIUS	SHORT RADIUS					
1/2"	\$16.56	-	\$17.60	\$154.60	-	\$20.36	\$54.52	POA	POA	POA
3/4"	16.56	-	17.60	154.60	-	20.36	54.52	POA	POA	POA
1"	16.56	26.57	17.60	154.60	-	20.36	54.52	POA	POA	POA
1-1/4"	16.56	26.57	17.60	154.60	222.58	20.36	54.52	POA	POA	POA
1-1/2"	16.56	26.57	17.60	154.60	222.58	20.36	54.52	POA	POA	POA
2"	23.15	35.22	22.60	154.60	222.58	22.52	55.77	POA	POA	POA
2-1/2"	28.05	56.42	27.07	154.60	222.58	23.68	76.96	POA	POA	POA
3"	34.24	66.20	28.05	177.03	222.58	23.68	85.77	POA	POA	POA
3-1/2"	56.42	86.75	50.55	-	256.75	34.55	120.34	POA	POA	POA
4"	56.42	86.75	50.55	245.36	256.75	34.55	120.34	POA	POA	POA
5"	121.64	257.96	76.64	739.88	736.43	53.19	198.61	POA	POA	POA
6"	124.42	229.26	99.47	570.44	661.54	59.01	206.76	POA	POA	POA
8"	234.95	379.60	165.67	1,313.42	1,523.24	89.29	360.69	POA	POA	POA
10"	467.65	777.14	330.68	1,976.05	1,566.01	161.89	708.65	POA	POA	POA
12"	692.67	1,085.97	467.65	-	1,633.99	244.20	991.72	POA	POA	POA
14"	999.40	1,507.64	628.75	-	-	324.95	1,739.84	POA	POA	POA
16"	1,362.85	1,824.95	1,126.74	-	-	378.91	1,944.97	POA	POA	POA
18"	1,803.76	2,827.11	1,593.41	-	-	518.67	3,354.22	POA	POA	POA
20"	2,495.13	2,950.06	1,649.50	-	-	588.55	4,850.35	POA	POA	POA
24"	3,528.59	4,539.88	2,499.69	-	-	800.14	6,260.15	POA	POA	POA

NOM. PIPE SIZE (IN.)	90° ELBOW		45°	180° RETURN		CAP	TEE STRAIGHT	STUB END	WELD CROSS	WELD LATERAL
	LONG RADIUS	SHORT RADIUS	LONG RADIUS	LONG RADIUS	SHORT RADIUS					
1/2"	\$21.74	-	\$23.12	\$195.67	-	\$25.19	\$53.83	POA	POA	POA
3/4"	21.74	-	23.12	-	-	25.19	53.83	POA	POA	POA
1"	21.74	52.45	23.12	195.67	-	25.19	53.83	POA	POA	POA
1-1/4"	21.74	52.45	23.12	195.67	243.29	25.19	53.83	POA	POA	POA
1-1/2"	21.74	52.45	23.12	195.67	243.29	25.19	53.83	POA	POA	POA
2"	27.76	87.35	29.05	220.13	273.70	22.52	61.34	POA	POA	POA
2-1/2"	39.06	87.35	64.56	220.13	273.70	31.06	102.10	POA	POA	POA
3"	50.04	87.35	37.45	319.90	363.38	34.55	95.12	POA	POA	POA
3-1/2"	82.32	143.64	59.08	395.99	619.22	46.98	153.74	POA	POA	POA
4"	82.32	143.64	59.08	395.99	619.22	46.98	153.74	POA	POA	POA
5"	196.60	322.62	140.43	930.58	1,094.42	76.87	335.04	POA	POA	POA
6"	208.22	334.65	161.73	1,094.42	1,140.61	95.50	294.40	POA	POA	POA
8"	395.78	715.89	279.57	2,153.11	2,669.46	143.26	582.66	POA	POA	POA
10"	834.82	1,079.27	538.47	-	2,847.06	220.13	868.47	POA	POA	POA
12"	1,023.03	1,289.69	798.67	-	2,941.18	294.28	1,263.68	POA	POA	POA
14"	1,418.16	1,856.90	1,008.50	-	-	446.46	2,399.25	POA	POA	POA
16"	1,788.12	2,248.23	1,225.12	-	-	512.07	2,276.96	POA	POA	POA
18"	2,341.44	2,934.62	1,842.68	-	-	692.60	4,811.70	POA	POA	POA
20"	3,337.67	3,581.02	2,193.26	-	-	732.97	5,259.44	POA	POA	POA
24"	5,431.18	5,481.78	3,680.19	-	-	1,043.95	7,080.83	POA	POA	POA

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## STANDARD WEIGHT

NOM. PIPE SIZE (IN.)	90° LONG RADIUS REDUCING ELBOW	CONCENTRIC REDUCER	ECCENTRIC REDUCER	REDUCING TEE
3/4 X 1/2	<b>P O A</b>	\$54.75	\$74.15	\$63.15
1 X 1/2		54.75	74.15	63.15
1 X 3/4		54.75	74.15	63.15
1-1/4 X 1/2		54.75	74.15	63.15
1-1/4 X 3/4		54.75	74.15	63.15
1-1/4 X 1		54.75	74.15	63.15
1-1/2 X 1/2		54.75	74.15	63.15
1-1/2 X 3/4		54.75	74.15	63.15
1-1/2 X 1		54.75	74.15	63.15
1-1/2 X 1-1/4		54.75	74.15	63.15
2 X 1/2		253.21	352.98	93.27
2 X 3/4		75.01	207.06	93.27
2 X 1		48.51	72.76	93.27
2 X 1-1/4		35.03	72.76	93.27
2 X 1-1/2		35.03	44.92	93.27
2-1/2 X 3/4		451.66	630.33	102.40
2-1/2 X 1		90.73	259.16	102.40
2-1/2 X 1-1/4		76.36	110.49	102.40
2-1/2 X 1-1/2		57.04	61.08	102.40
2-1/2 X 2		44.02	52.10	102.40
3 X 1		89.38	291.95	99.79
3 X 1-1/4		70.97	250.63	99.79
3 X 1-1/2		44.92	69.62	99.79
3 X 2		39.08	61.08	99.79
3 X 2-1/2		36.38	57.04	99.79
3-1/2 X 1-1/4		218.97	390.99	126.53
3-1/2 X 1-1/2		201.70	365.60	126.53
3-1/2 X 2		97.47	109.59	126.53
3-1/2 X 2-1/2		93.87	102.41	126.53
3-1/2 X 3		93.87	97.47	126.53
4 X 1		151.28	624.02	126.53
4 X 1-1/4		151.28	624.02	126.53
4 X 1-1/2		102.86	304.97	126.53
4 X 2		57.04	90.73	126.53
4 X 2-1/2		57.04	78.60	126.53
4 X 3		46.71	74.56	126.53
4 X 3-1/2		48.96	74.56	126.53
5 X 2		180.11	557.40	273.29
5 X 2-1/2		180.11	235.36	273.29
5 X 3		118.13	150.47	273.29
5 X 3-1/2	POA	POA	POA	
5 X 4	86.69	150.47	273.29	
6 X 2	295.54	531.80	258.65	
6 X 2-1/2	235.81	414.57	258.65	

NOM. PIPE SIZE (IN.)	90° LONG RADIUS REDUCING ELBOW	CONCENTRIC REDUCER	ECCENTRIC REDUCER	REDUCING TEE
6 X 3	<b>P O A</b>	\$118.58	\$240.75	\$258.65
6 X 3-1/2		POA	POA	POA
6 X 4		97.92	153.61	258.65
6 X 5		87.58	110.49	258.65
8 X 3		360.22	609.50	469.28
8 X 3-1/2		466.44	850.93	469.28
8 X 4		165.29	357.97	469.28
8 X 5		144.63	254.22	469.28
8 X 6		128.46	195.83	469.28
10 X 4		426.25	707.87	865.84
10 X 5		341.36	541.68	865.84
10 X 6		234.01	451.40	865.84
10 X 8		249.28	256.47	865.84
12 X 4		861.03	2,269.19	1,278.06
12 X 5		1,030.61	1,763.44	1,278.06
12 X 6		371.00	1,012.84	1,278.06
12 X 8		354.38	627.92	1,278.06
12 X 10		308.12	400.20	1,278.06
14 X 6		1,357.89	2,017.99	1,927.68
14 X 8		783.32	1,210.92	1,927.68
14 X 10		634.65	822.40	1,927.68
14 X 12		463.53	702.48	1,927.68
16 X 6		2,353.67	3,883.50	2,036.60
16 X 8		1,179.92	3,113.08	2,036.60
16 X 10		896.51	1,564.85	2,036.60
16 X 12		811.17	1,427.41	2,036.60
16 X 14		811.17	1,074.37	2,036.60
18 X 8		4,310.43	4,706.88	3,899.01
18 X 10		1,445.82	2,394.43	3,899.01
18 X 12		1,196.54	2,120.90	3,899.01
18 X 14		1,104.92	2,000.08	3,899.01
18 X 16		886.18	1,935.40	3,899.01
20 X 10		2,596.10	8,551.46	4,986.01
20 X 12		1,952.92	6,710.79	4,986.01
20 X 14		1,583.26	5,483.71	4,986.01
20 X 16		1,520.83	2,424.53	4,986.01
20 X 18		1,520.83	2,430.82	4,986.01
24 X 10		6,562.57	12,259.92	6,917.28
24 X 12		3,952.55	10,891.94	6,917.28
24 X 14		3,603.55	8,487.64	6,917.28
24 X 16	1,835.69	5,281.14	6,917.28	
24 X 18	1,759.33	3,503.84	6,917.28	
24 X 20	1,720.26	3,187.19	6,917.28	

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## EXTRA STRONG

NOM. PIPE SIZE (IN.)	90° LONG RADIUS REDUCING ELBOW	CONCENTRIC REDUCER	ECCENTRIC REDUCER	REDUCING TEE	NOM. PIPE SIZE (IN.)	90° LONG RADIUS REDUCING ELBOW	CONCENTRIC REDUCER	ECCENTRIC REDUCER	REDUCING TEE
3/4 X 1/2	<b>P O A</b>	\$39.97	\$68.45	\$81.79	6 X 2-1/2	<b>P O A</b>	\$432.53	\$495.86	\$304.76
1 X 1/2		39.97	68.45	81.79	6 X 3		161.25	269.04	304.76
1 X 3/4		39.97	68.45	81.79	6 X 3-1/2		POA	POA	POA
1-1/4 X 1/2		39.97	68.45	81.79	6 X 4		137.89	207.06	304.76
1-1/4 X 3/4		39.97	68.45	81.79	6 X 5		133.85	254.67	304.76
1-1/4 X 1		39.97	68.45	81.79	8 X 3		592.43	767.15	606.41
1-1/2 X 1/2		39.97	68.45	81.79	8 X 3-1/2		POA	POA	POA
1-1/2 X 3/4		39.97	68.45	81.79	8 X 4		229.07	406.03	606.41
1-1/2 X 1		39.97	68.45	81.79	8 X 5		229.07	332.37	606.41
1-1/2 X 1-1/4		39.97	68.45	81.79	8 X 6		187.75	291.05	606.41
2 X 1/2		253.21	519.18	87.74	10 X 4		610.85	975.11	1,049.77
2 X 3/4		107.35	386.27	87.74	10 X 5		446.46	768.05	1,049.77
2 X 1		48.96	93.87	87.74	10 X 6		321.14	689.90	1,049.77
2 X 1-1/4		47.16	108.25	87.74	10 X 8		269.04	471.61	1,049.77
2 X 1-1/2		39.08	49.41	87.74	12 X 4		1,386.98	1,893.12	1,684.91
2-1/2 X 3/4		416.02	631.09	95.26	12 X 5		1,490.19	1,780.85	1,684.91
2-1/2 X 1		116.33	265.00	95.26	12 X 6		480.14	1,019.13	1,684.91
2-1/2 X 1-1/4		81.75	118.13	95.26	12 X 8		446.46	876.30	1,684.91
2-1/2 X 1-1/2		53.45	74.11	95.26	12 X 10		439.27	674.63	1,684.91
2-1/2 X 2		53.45	74.11	95.26	14 X 6		2,538.64	2,898.03	2,582.49
3 X 1		111.39	339.11	110.65	14 X 8		1,302.54	2,050.83	2,582.49
3 X 1-1/4		88.48	280.27	110.65	14 X 10		704.27	1,638.96	2,582.49
3 X 1-1/2		59.74	101.96	110.65	14 X 12		704.27	1,539.70	2,582.49
3 X 2		44.92	61.08	110.65	16 X 6		4,303.47	9,543.42	3,300.89
3 X 2-1/2		44.92	61.08	110.65	16 X 8		1,889.59	7,139.74	3,300.89
3-1/2 X 1-1/4		334.08	390.80	164.61	16 X 10		1,438.19	2,096.20	3,300.89
3-1/2 X 1-1/2		295.70	365.60	164.61	16 X 12		1,001.61	1,916.98	3,300.89
3-1/2 X 2		118.13	147.77	164.61	16 X 14		987.69	1,500.17	3,300.89
3-1/2 X 2-1/2		156.75	141.03	164.61	18 X 8		7,033.17	6,554.61	4,749.97
3-1/2 X 3		156.75	122.62	164.61	18 X 10		2,453.72	3,975.00	4,749.97
4 X 1		182.78	807.53	164.61	18 X 12		1,888.24	2,579.93	4,749.97
4 X 1-1/4		182.78	807.53	164.61	18 X 14		1,675.34	1,477.07	4,749.97
4 X 1-1/2		110.49	490.48	164.61	18 X 16		1,381.59	2,407.01	4,749.97
4 X 2		75.46	131.15	164.61	20 X 10		2,688.63	11,404.12	5,514.00
4 X 2-1/2		67.82	99.26	164.61	20 X 12		2,409.26	8,430.60	5,514.00
4 X 3	57.49	95.67	164.61	20 X 14	2,091.71	6,238.29	5,514.00		
4 X 3-1/2	59.74	95.67	164.61	20 X 16	1,790.77	3,463.87	5,514.00		
5 X 2	442.42	1,040.69	485.22	20 X 18	1,838.38	2,593.41	5,514.00		
5 X 2-1/2	212.90	306.77	485.22	24 X 10	7,079.77	15,961.88	6,898.43		
5 X 3	178.31	276.23	485.22	24 X 12	6,059.52	11,974.65	6,898.43		
5 X 3-1/2	126.06	220.60	485.22	24 X 14	6,039.76	10,690.94	6,898.43		
5 X 4	122.62	221.43	485.22	24 X 16	5,082.61	8,030.41	6,898.43		
6 X 2	367.86	687.20	304.76	24 X 18	5,082.61	6,645.67	6,898.43		
				24 X 20	4,622.68	5,634.17	6,898.43		

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January 8th, 2009

## APPROXIMATE WEIGHTS - FORGED STEEL FLANGES (All weights in Pounds)

	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	
<b>150 LB.</b>	SLIP-ON	2	2	2	3	3	5	7	8	11	13	15	19	30	43	64	85	93	120	155	210
	BLIND	2	2	2	3	3	4	7	8	13	17	20	26	45	70	110	131	170	210	175	410
	WELD NECK	2	2	2	3	4	6	8	10	12	15	19	24	39	52	80	102	127	140	170	260
	LAP JOINT	2	2	2	3	3	5	7	8	11	13	15	19	30	473	64	99	128	146	185	260
<b>300 LB.</b>	SLIP-ON	3	3	3	4	6	7	10	13	17	22	28	39	58	81	115	164	220	280	325	490
	BLIND	2	3	4	6	7	8	12	16	21	27	35	50	81	127	184	235	310	390	495	760
	WELD NECK	4	4	4	6	8	9	12	15	18	25	32	42	67	91	138	186	250	305	380	550
	LAP JOINT	3	3	3	4	6	7	10	13	17	22	28	39	58	91	139	189	240	305	375	530
<b>600 LB.</b>	SLIP-ON	3	3	3	6	7	9	13	16	21	37	63	80	115	177	215	260	365	475	610	880
	BLIND	2	3	3	6	8	10	15	20	29	41	68	86	139	230	195	380	530	670	860	1180
	WELD NECK	6	6	6	7	10	12	18	23	26	42	68	81	117	189	225	350	480	560	690	980
	LAP JOINT	3	3	3	6	7	9	12	15	20	36	31	78	112	195	240	290	400	470	610	870

## APPROXIMATE WEIGHTS - FITTINGS (All weights in Pounds)

	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	
<b>STANDARD</b>	90° S.R. ELL	-	.25	.40	.5	1.0	2.1	3.0	4.5	6.3	10	18	34	58	80	105	132	167	210	300
	90° L.R. ELL	.38	.50	.75	1.0	1.8	3.0	4.8	7.5	9.3	15	24	46	78	121	160	205	260	330	470
	45° S.R. ELL	.12	.25	.38	.5	.9	1.5	2.5	3.8	4.5	8	12	23	39	61	80	100	125	160	235
	TEE	.50	1.00	1.50	2.0	2.5	5.0	7.0	9.0	12.0	19	27	60	104	154	172	219	282	354	493
	CROSS	-	-	-	-	3.0	6.0	8.0	10.5	13.0	20	30	50	95	195	-	-	-	-	-
	CAP	-	.13	.25	.4	.5	.8	1.4	2.0	2.5	4	6	12	18	29	30	43	55	69	96
	REDUCER	.18	.25	.38	.5	.8	1.4	2.0	3.1	3.5	6	9	13	23	33	57	74	84	136	148
	RET BEND SR	-	.50	.88	1.2	2.0	4.2	6.0	9.0	12.5	19	35	68	115	155	210	260	330	410	590
	RET BEND LR	.40	.75	1.0	1.5	3.0	6.0	9.0	12.5	17.0	29	46	90	156	235	320	410	520	650	900
	STUB END	.40	.75	1.13	1.3	2.3	3.5	4.8	5.5	7.3	12	16	24	37	47	60	70	94	105	126

	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	
<b>EXTRA STRONG</b>	90° S.R. ELL	-	-	-	.8	1.5	2.8	4.3	6.0	8.5	14	23	50	70	109	140	174	220	275	390
	90° L.R. ELL	.50	.36	1.0	1.3	1.2	3.8	6.7	8.5	12.5	21	40	70	106	160	205	275	350	430	600
	45° S.R. ELL	.25	.37	.50	.6	1.1	1.8	3.5	4.3	6.3	11	21	35	53	80	100	135	170	210	310
	TEE	.75	1.13	1.75	2.5	3.0	6.0	8.5	11.0	15.3	22	41	77	124	176	165	310	390	470	650
	CROSS	-	-	-	-	3.5	7.0	10.0	12.5	17.0	26	38	65	120	225	-	-	-	-	-
	CAP	-	.25	.38	.5	.7	1.0	1.7	2.5	3.0	5	9	16	25	35	44	54	72	90	130
	REDUCER	.25	.38	.50	.7	1.0	2.0	2.6	3.8	4.5	8	12	19	27	39	74	95	120	164	198
	RET BEND SR	-	-	1.00	1.5	3.0	5.7	8.5	12.0	17.0	28	46	100	140	220	275	340	430	550	780
	RET BEND LR	-	1.00	1.50	2.0	4.0	7.5	12.5	17.0	24.0	40	67	138	215	300	410	550	700	850	1200
	STUB END	.50	.88	1.25	1.8	3.0	4.5	6.8	7.8	9.5	17	22	32	23	62	80	93	124	138	167

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