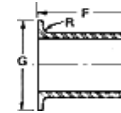
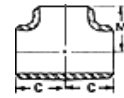
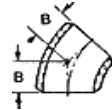
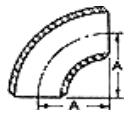


Straight Fitting Dimensions



Nom. Pipe Size	90 Elbows			45 Elbows		180 Return Bends				Tee		Lap Joint Stub Ends			Caps
	Long Rad.	Short Rad.	3R	Long Rad.	3R	Long Rad		Short Rad		C	M	F	G	R	E
	A	A	A	B	B	O	K	O	K						
1/2	1.50			0.62		3.00	1.88			1.00	1.00	3.00	1.38	0.12	1.00
3/4	1.50			0.75		3.00	2.00			1.12	1.12	3.00	1.69	0.12	1.00
1	1.50	1.00		0.88		3.00	2.19	2.00	1.62	1.50	1.50	4.00	2.00	0.12	1.50
1 1/4	1.88	1.25		1.00		3.75	2.75	2.50	2.06	1.88	1.88	4.00	2.50	0.19	1.50
1 1/2	2.25	1.50		1.12		4.50	3.25	3.00	2.44	2.25	2.25	4.00	2.88	0.25	1.50
2	3.00	2.00	6.00	1.38	2.50	6.00	4.19	4.00	3.19	2.50	2.50	6.00	3.62	0.31	1.50
2 1/2	3.75	2.50	7.50	1.75	3.12	7.50	5.19	5.00	3.94	3.00	3.00	6.00	4.12	0.31	1.50
3	4.50	3.00	9.00	2.00	3.75	9.00	6.25	6.00	4.75	3.38	3.38	6.00	5.00	0.38	2.00
3 1/2	5.25	3.50	10.50	2.25		10.50	7.25	7.00	5.50	3.75	3.75	6.00	5.50	0.38	2.50
4	6.00	4.00	12.00	2.50	5.00	12.00	8.25	8.00	6.25	4.12	4.12	6.00	6.19	0.44	2.50
5	7.50	5.00	15.00	3.12		15.00	10.31	10.00	7.75	4.88	4.88	8.00	7.31	0.44	3.00
6	9.00	6.00	18.00	3.75	7.44	18.00	12.31	12.00	9.31	5.62	5.62	8.00	8.50	0.50	3.50
8	12.00	8.00	24.00	5.00	9.94	24.00	16.31	16.00	12.31	7.00	7.00	8.00	10.62	0.50	4.00
10	15.00	10.00	30.00	6.25	12.44	30.00	20.38	20.00	15.38	8.50	8.50	10.00	12.75	0.50	5.00
12	18.00	12.00	36.00	7.50	14.88	36.00	24.38	24.00	18.38	10.00	10.00	10.00	15.00	0.50	6.00
14	21.00	14.00	42.00	8.75	17.38	42.00	28.00	28.00	21.00	11.00	11.00	12.00	16.25	0.50	6.50
16	24.00	16.00	48.00	10.00	19.88	48.00	32.00	32.00	24.00	12.00	12.00	12.00	18.50	0.50	7.00
18	27.00	18.00	54.00	11.25	22.38	54.00	36.00	36.00	27.00	13.50	13.50	12.00	21.00	0.50	8.00
20	30.00	20.00	60.00	12.50	24.88	60.00	40.00	40.00	30.00	15.00	15.00	12.00	23.00	0.50	9.00
22	33.00	22.00	66.00	13.50	27.31	66.00	44.00	44.00	33.00	16.50	16.50	12.00	25.25	0.50	10.00
24	36.00	24.00	72.00	15.00	29.81	72.00	48.00	48.00	36.00	17.00	17.00	12.00	27.25	0.50	10.50
26	39.00		78.00	16.00	32.31					19.50	19.50				10.50
28	42.00		84.00	17.25	34.75					20.50	20.50				10.50
30	45.00		90.00	18.50	37.25					22.00	22.00				10.50
32	48.00			19.75						23.50	23.50				10.50
34	51.00		102.00	21.00	42.25					25.00	25.00				10.50
36	54.00		108.00	22.25	44.69					26.50	26.50				10.50
38	57.00		114.00	23.62	47.25					28.00	28.00				12.00
40	60.00		120.00	24.88	49.75					29.50	29.50				12.00
42	63.00		126.00	26.00	52.19					30.00	28.00				12.00
44	66.00		132.00	27.38	54.69					32.00	30.00				13.50
46	69.00		138.00	28.62	57.19					33.50	31.50				13.50
48	72.00		144.00	29.88	59.69					35.00	33.00				13.50

All dimensions given in inches for common diameters and wall thicknesses.
 Dimensions in accordance with ASME B16.9. Other sizes, schedules and wall thicknesses also available.

Approximate Weights (LBS.) for 90° and 45° Elbows and 180° Long Radius Returns

Nom. Pipe Size	90 Elbows								45 Elbows				180 Return Long Radius		
	Long Radius				Short Radius		3R		Long Radius		3R		Radius		
	STD	XS	SCH. 160	XXS	STD	XS	STD	XS	STD	XS	STD	XS	STD	XS	
1/2	0.2	0.3								0.1	0.2			0.4	
3/4	0.2	0.3								0.1	0.2			0.4	0.7
1	0.4	0.5	0.6	0.8	0.3					0.3	0.3			0.8	1.0
1 1/4	0.6	0.9	1.0	1.4	0.4					0.4	0.5			1.3	1.8
1 1/2	0.9	1.2	1.8	1.5	0.6	0.8				0.4	0.7			1.9	2.4
2	1.6	2.2	3.3	3.5	1.0	1.5	3.0	4.0		0.8	1.2	1.5	2.1	3.2	4.4
2 1/2	3.3	4.0	5.1	7.0	2.1	2.8	6.0	8.0		1.8	2.1	3.0	4.0	6.5	8.0
3	5.0	6.5	8.5	11.0	3.0	4.3	10.0	13.0		2.6	3.5	5.0	7.0	10.3	13.0
3 1/2	6.8	8.4		16.0	4.5	6.0	13.0	18.0		3.5	4.5	7.0	9.0	13.0	16.8
4	9.0	13.5	18.0	20.0	6.3	8.5	18.0	25.0		4.5	6.1	9.0	13.0	18.5	25.0
5	15.5	22.0	32.0	36.0	9.6	14.0	29.0	43.0		7.5	10.8	15.0	22.0	30.0	44.0
6	24.5	35.0	57.0	65.0	18.0	23.0	45.0	70.0		12.0	17.5	23.0	35.0	50.0	70.0
8	50.0	71.0	120	118	34.0	47.5	90.0	140		23.0	35.0	45.0	70.0	95.0	142
10	88.0	107	260		58.0	70.0	159	218		43.0	53.0	80.0	109	117	215
12	125	160	450		80.0	104	233	310		62.0	84.0	117	155	230	320
14	160	205	572		105	140	298	400		80.0	100	149	200	325	400
16	206	276			132	174	390	520		100	135	195	260	412	550
18	260	340			167	219	495	660		126	167	248	330	510	690
20	320	420			210	275	610	810		160	206	305	405	640	830
22	394	520					735	980		197	260	368	490	787	1040
24	460	600			298	392	875	1170		238	300	438	585	890	1200
26	550	729					1030	1370		275	365	515	685		
30	734	975					1370	1830		367	488	685	915		
36	1062	1412					1970	2630		531	706	985	1315		

All dimensions given in inches for common diameters and wall thicknesses.
 Dimensions in accordance with ASME B16.9. Other sizes, schedules and wall thicknesses also available.

Approximate Weights (LBS.) for 180° Short Radius Returns, Straight Tees, Lap Joint Stub Ends and Caps

Nom. Pipe Size	180 Returns Short Radius		Straight Tees				Lap Joint Stub Ends		Caps			
	STD	XS	STD	XS	SCH. 160	XXS	STD	XS	STD	XS	SCH. 160	XXS
1/2			0.4	0.5	0.4		0.2	0.3				
3/4			0.5	0.6	0.6		0.3	0.4				
1	0.5		0.8	0.9	1.0	1.3	0.8	1.0	0.2	0.3	0.4	0.5
1 1/4	0.8		1.3	1.6	2.0	2.5	1.1	1.3	0.3	0.4	0.5	0.8
1 1/2	1.1	1.5	2.0	2.3	3.0	3.4	1.3	1.7	0.4	0.5	0.6	0.9
2	2.0	3.0	3.5	4.0	5.0	6.3	2.3	3.0	0.6	0.8	1.3	1.5
2 1/2	4.3	5.6	6.0	7.0	8.0	10.5	3.5	4.5	0.9	1.0	1.8	2.5
3	6.0	8.5	7.0	8.5	10.0	13.5	4.8	6.8	1.5	1.8	2.9	4.0
3 1/2	9.0	12.0	9.0	12.0		18.0	5.5	7.8	2.0	2.5		6.0
4	12.5	17.0	12.0	15.8	25.0	25.0	7.3	9.5	2.5	3.0	5.9	7.5
5	19.0	28.0	21.0	26.0	55.0	40.0	11.8	17.0	4.5	5.5	10.0	12.0
6	35.0	46.0	34.0	40.0	62.0	68.0	15.5	21.5	6.5	9.0	15.0	18.0
8	68.0	100	55.0	75.0	110	120	23.5	32.0	12.0	16.0	31.0	30.0
10	115	140	85.0	105	260		36.5	53.0	20.0	25.0	57.0	
12	155	218	120	160	480		47.0	62.0	30.0	36.0	95.0	
14	210	275	165	240			60.0	80.0	36.0	45.0		
16	260	340	195	280			70.0	93.0	40.0	54.0		
18	330	430	249	332			94.0	124	54.0	72.0		
20	410	550	342	480			105	138	75.0	86.0		
22			414	550					94.0	125		
24	590	780	528	610			126	167	96.0	130		
26			770	875					119	159		
30			1060	1200					172	229		
36			1490	1700								

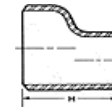
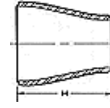
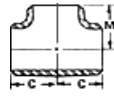
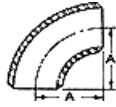
All dimensions given in inches for common diameters and wall thicknesses.
 Dimensions in accordance with ASME B16.9. Other sizes, schedules and wall thicknesses also available.

Common Diameters and Wall Thicknesses

Nom. Pipe Size	Outside Diameter	Light WT	STD	XS	XXS	SCH 20	SCH 30	SCH 40	SCH 60	SCH80	SCH 100	SCH 120	SCH 140	SCH 160
1/2	0.84		0.109	0.147	0.294			STD		XS				0.188
3/4	1.05		0.113	0.154	0.308			STD		XS				0.219
1	1.315		0.133	0.179	0.358			STD		XS				0.25
1 1/4	1.66		0.14	0.191	0.382			STD		XS				0.25
1 1/2	1.9		0.145	0.2	0.4			STD		XS				0.281
2	2.375		0.154	0.218	0.438			STD		XS				0.344
2 1/2	2.875		0.203	0.276	0.552			STD		XS				0.375
3	3.5		0.216	0.3	0.6			STD		XS				0.438
3 1/2	4		0.226	0.318	0.636			STD		XS				
4	4.5	0.188	0.237	0.337	0.674			STD		XS		0.438		0.531
5	5.562		0.258	0.375	0.75			STD		XS		0.5		0.625
6	6.625	0.219	0.28	0.432	0.864			STD		XS		0.562		0.719
8	8.625	0.219	0.322	0.5	0.875	0.25	0.277	STD	0.406	XS	0.594	0.719	0.812	0.906
10	10.75	0.219	0.365	0.5	1	0.25	0.307	STD	XS	0.594	0.719	0.844	1	1.125
12	12.75	0.25	0.375	0.5	1	0.25	0.33	0.406	0.562	0.688	0.844	1	1.125	1.312
14	14	0.25	0.375	0.5		0.312	STD	0.438	0.594	0.75	0.938	1.094	1.25	1.406
16	16	0.25	0.375	0.5		0.312	STD	XS	0.656	0.844	1.031	1.219	1.438	1.594
18	18	0.25	0.375	0.5		0.312	0.438	0.562	0.75	0.938	1.156	1.375	1.562	1.781
20	20	0.25	0.375	0.5		STD	XS	0.594	0.812	1.031	1.281	1.5	1.75	1.969
22	22		0.375	0.5		STD	XS		0.875	1.125	1.375	1.625	1.875	2.125
24	24	0.25	0.375	0.5		STD	0.562	0.688	0.969	1.219	1.531	1.812	2.062	2.344
26	26		0.375	0.5		XS								
28	28		0.375	0.5		XS	0.625							
30	30		0.375	0.5		XS	0.625							
32	32		0.375	0.5		XS	0.625	0.688						
34	34		0.375	0.5		XS	0.625	0.688						
36	36		0.375	0.5		XS	0.625	0.75						
38	38		0.375	0.5										
40	40		0.375	0.5										
42	42		0.375	0.5										
44	44		0.375	0.5										
46	46		0.375	0.5										
48	48		0.375	0.5										

All dimensions given in inches for common diameters and wall thicknesses.
 Dimensions in accordance with ASME B16.9. Other sizes, schedules and wall thicknesses also available.

Dimensions for Reducing Fittings 1/2 x 3/8 through 18 x 8

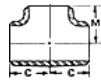
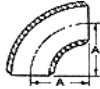


Nom. Pipe Size	90 L.R. Reducing Elbows	Reducing Outlet Tees		Concentric & Eccentric Reducers
	A	C	M	H
1/2x3/8		1	1	
1/2x1/4		1	1	
3/4x1/2		1.12	1.12	1.5
3/4x3/8		1.12	1.12	1.5
1x3/4		1.5	1.5	2
1x1/2		1.5	1.5	2
1 1/4x1		1.88	1.88	2
1 1/4x3/4		1.88	1.88	2
1 1/4x1/2		1.88	1.88	2
1 1/2x1 1/4		2.25	2.25	2.5
1 1/2x1		2.25	2.25	2.5
1 1/2x3/4		2.25	2.25	2.5
1 1/2x1/2		2.25	2.25	2.5
2x1 1/2	3	2.5	2.38	3
2x1 1/4	3	2.5	2.25	3
2x1	3	2.5	2	3
2x3/4		2.5	1.75	3
2 1/2x2	3.75	3	2.75	3.5
2 1/2x1 1/2	3.75	3	2.62	3.5
2 1/2x1 1/4	3.75	3	2.5	3.5
2 1/2x1		3	2.25	3.5
3x2 1/2	4.5	3.38	3.25	3.5
3x2	4.5	3.38	3	3.5
3x1 1/2	4.5	3.38	2.88	3.5
3x1 1/4		3.38	2.75	3.5
3 1/2x3	5.25	3.75	3.62	4
3 1/2x2 1/2	5.25	3.75	3.5	4
3 1/2x2	5.25	3.75	3.25	4
3 1/2x1 1/2		3.75	3.12	4
3 1/2x1 1/4				4
4x3 1/2	6	4.12	4	4
4x3	6	4.12	3.88	4
4x 2 1/2	6	4.12	3.75	4
4x2	6	4.12	3.5	4
4x1 1/2		4.12	3.38	4

Nom. Pipe Size	90 L.R. Reducing Elbows	Reducing Outlet Tees		Concentric & Eccentric Reducers
	A	C	M	H
5x4	7.5	4.88	4.62	5
5x3 1/2	7.5	4.88	4.5	5
5x3	7.5	4.88	4.38	5
5x2 1/2	7.5	4.88	4.25	5
5x2		4.88	4.12	5
6x5	9	5.62	5.38	5.5
6x4	9	5.62	5.12	5.5
6x3 1/2	9	5.62	5	5.5
6x3	9	5.62	4.88	5.5
6x2 1/2		5.62	4.75	5.5
8x6	12	7	6.62	6
8x5	12	7	6.38	6
8x4	12	7	6.12	6
8x3 1/2		7	6	6
10x8	15	8.5	8	7
10x6	15	8.5	7.62	7
10x5	15	8.5	7.5	7
10x4		8.5	7.25	7
12x10	18	10	9.5	8
12x8	18	10	9	8
12x6	18	10	8.62	8
12x5		10	8.5	8
14x12	21	11	10.62	13
14x10	21	11	10.12	13
14x8	21	11	9.75	13
14x6		11	9.38	13
16x14	24	12	12	14
16x12	24	12	11.62	14
16x10	24	12	11.12	14
16x8		12	10.75	14
16x6		12	10.38	
18x16	27	13.5	13	15
18x14	27	13.5	13	15
18x12	27	13.5	12.62	15
18x10	27	13.5	12.12	15
18x8		13.5	11.75	

All dimensions given in inches for common diameters and wall thicknesses.
 Dimensions in accordance with ASME B16.9. Other sizes, schedules and wall thicknesses also available.

Dimensions of Reducing Fittings 20 x 18 through 48 x 22



Nom. Pipe Size	90 L.R. Reducing Elbows	Reducing Outlet Tees		Concentric & Eccentric Reducers
	A	C	M	H
20x18	30	15	14.5	20
20x16	30	15	14	20
20x14	30	15	14	20
20x12	30	15	13.62	20
20x10	30	15	13.12	
20x8		15	12.75	
22x20		16.5	16	20
22x18		16.5	15.5	20
22x16		16.5	15	20
22x14		16.5	15	20
22x12		16.5	14.62	
22x10		16.5	14.12	
24x22	36	17	17	20
24x20	36	17	17	20
24x18	36	17	16.5	20
24x16	36	17	16	20
24x14	36	17	16	
24x12	36	17	15.62	
24x10		17	15.12	
26x24		19.5	19	24
26x22		19.5	18.5	24
26x20		19.5	18	24
26x18		19.5	17.5	24
26x16		19.5	17	
26x14		19.5	17	
26x12		19.5	16.62	
28x26		20.5	20.5	24
28x24		20.5	20	24
28x22		20.5	19.5	
28x20		20.5	19	24
28x18		20.5	18.5	24
28x16		20.5	18	
28x14		20.5	18	
28x12		20.5	17.62	
30x28		22	21.5	24
30x26		22	21.5	24
30x24		22	21	24
30x22		22	20.5	
30x20		22	20	24
30x18		22	19.5	
30x16		22	19	
30x14		22	19	
30x12		22	18.62	
30x10		22	18.12	

Nom. Pipe Size	Reducing Outlet Tees		Concentric & Eccentric Reducers
	C	M	H
34x30	25	24	24
34x24	25	23	24
34x20	25	22	
34x16	25	21	
36x34	26.5	26	24
36x32	26.5	25.5	24
36x30	26.5	25	24
36x26	26.5	24.5	24
36x24	26.5	24	24
36x22	26.5	23.5	24
36x20	26.5	23	24
36x18	26.5	22.5	
36x16	26.5	22	
42x40	30	28	24
42x38	30	28	24
42x36	30	28	24
42x34	30	28	24
42x32	30	28	24
42x30	30	28	24
42x28	30	27.5	
42x26	30	27.5	
42x24	30	26	
42x22	30	26	
42x20	30	26	
42x18	30	25.5	
42x16	30	25	
48x46	35	33	28
48x44	35	33	28
48x42	35	32	28
48x40	35	32	28
48x38	35	32	
48x36	35	31	
48x34	35	31	
48x32	35	31	
48x30	35	30	
48x28	35	30	
48x26	35	30	
48x24	35	29	
48x22	35	29	

All dimensions given in inches for common diameters and wall thicknesses. Additional sizes may be available upon request. Dimensions in accordance with ASME B16.9. Other sizes, schedules and wall thicknesses also available.

Approximate Weight (LBS.) for 1/2 x 3/8 through 6 x 2-1/2 90° LR Reducing Elbows, Reducing Outlet Tees and Concentric & Eccentric Reducers

Nom. Pipe Size	90 L.R. Reducing Elbows		Reducing Outlet Tees				Concentric & Eccentric Reducers			
	STD	XS	STD	XS	SCH. 160	XXS	STD	XS	SCH. 160	XXS
1/2X3/8			0.25	0.28						
1/2X1/4			0.25	0.28						
3/4X1/2			0.5	0.5	0.75	1.15	0.17	0.22	0.28	
3/4X3/8			0.5	0.5	0.75		0.15	0.2	0.24	
1X3/4			0.93	1	1.13	1.25	0.4	0.45	0.5	0.8
1X1/2			0.88	1	1.13	1.25	0.4	0.45	0.5	0.75
1 1/4X1			1.5	1.75	2	2.63	0.5	0.5	0.65	1
1 1/4X3/4			1.5	1.75	2	2.5	0.4	0.5	0.65	1
1 1/4X1/2			1.5	1.75	2	2.38	0.4	0.5	0.6	1
1 1/2x1 1/4			2.25	2.5	2.75	3.38	0.7	0.78	0.95	1.5
1 1/2x1			2.18	2.5	2.75	3.25	0.62	0.75	0.8	1.5
1 1/2x3/4			2.13	2.5	2.75	3.13	0.54	0.7	0.75	1.38
1 1/2x1/2			2	2.5	2.75	3	0.5	0.65	0.73	1.25
2x1 1/2	1.3	1.8	3.75	4.25	5.5	6	0.9	1.2	1.6	2.38
2x1 1/4	1.2	1.65	3.6	4.13	5.25	5.75	0.84	1.15	1.5	2.25
2x1	1.1	1.5	3.5	4.1	5.13	5.38	0.76	1.1	1.5	2.15
2x3/4			3.25	4	5	5.13	0.7	1	1.45	2
2 1/2x2	2.45	3.25	6	7.19	7	9.5	1.5	2	2.5	4
2 1/2x1 1/2	2.2	2.9	5.5	7.13	6.88	9.25	1.38	1.9	2.25	3.9
2 1/2x1 1/4	2.1	2.75	5.25	7.06	6.75	8.75	1.25	1.85	2.25	3.6
2 1/2x1			5	7	6.5	8.5	1.25	1.75	2.2	3.5
3x2 1/2	4.15	5.5	6.75	8.25	9.5	13	2	2.75	3.7	6
3x2	3.5	4.7	6.5	8	9.25	12.7	1.8	2.6	3.4	5
3x1 1/2	3.2	4.3	6.25	7.5	9.15	12.5	1.7	2.5	3.2	4.9
3x1 1/4			6.15	7.6	9.25	12	1.6	2.4	3.1	4.75
3 1/2x3	6	8.2	8.8	12.6		16	3.15	4		8
3 1/2x2 1/2	5.4	7.25	8.5	12.2		15.5	2.88	3.5		8
3 1/2x2	4.5	6.3	8.3	11.8		15	2.75	3.5		7
3 1/2x1 1/2			8	11.5		14	2.5	3.25		7
3 1/2x1 1/4							2.4	3.25		7
4x3 1/2	8.2	11.3	11.8	15.6		24	3.5	4.75		9
4x3	7.5	10.4	11.6	15.3	21	23.2	3.38	4.5	6.4	9
4x2 1/2	10.5	9.3	11.3	15.0	20.7	22.5	3.25	4.38	5.5	8.5
4x2	6.0	8.25	11.2	15.5	20.5	21.5	3	4.25	5.4	8.25
4x1 1/2			11.3	15.2	20	20	2.88	4	5.25	8
5x4	13.1	18.4	21	25.5	37	38	6	8.25	12.5	16
5x3 1/2	12.2	17.1	20.5	25.0		37	5.75	7.75		15
5x3	11.4	16	20	24.5	36	36	5.5	7.5	11	14.5
5x2 1/2	10.5	14.7	19.5	24.0	35	35	5.25	7	10.5	13.8
5x2			19	23.5	34	34	5	6.5	10	14
6x5	20.7	30.5	34.5	40.0	31	58	8.5	12	18.8	23
6x4	18.4	26.9	33.5	39.2	60	57	8.25	11.5	16.5	22
6x3 1/2	17.3	25.4	33	38.2		56	8.25	11		21
6x3	16.4	24	32.5	37	58	55	8	10.5	15.5	20
6x2 1/2			32	36	57	54	7.25	10	15	19

All dimensions given in inches for common diameters and wall thicknesses.
 Dimensions in accordance with ASME B16.9. Other sizes, schedules and wall thicknesses also available.

Approximate Weight (LBS.) for 8 x 6 through 12 x 5 90° LR Reducing Elbows, Reducing Outlet Tees and Concentric & Eccentric Reducers

Nom. Pipe Size	90 L.R. Reducing Elbows		Reducing Outlet Tees				Concentric & Eccentric Reducers			
	STD	XS	STD	XS	SCH. 160	XXS	STD	XS	SCH. 160	XXS
8X6	39.2	59.4	54	74	108	118	13.2	18.7	31	36
8X5	35.5	52.9	53	73	106	116	12	18	27.2	35
8X4	32.4	48.2	51.7	71.7	102	114	11	17	23.5	33
8X3 1/2			50.7	70.7		113	11	16.5		32
10X8	71.2	101.2	84.5	109	250		22	29.5	57.5	
10X6	61.2	77.7	83	108	240		21.5	29.5	54	
10X5	56.7	77.8	81	106	220		21	28	52	
10X4			80	104	200		20	25.5	50	
12X10	111	149	119	184	365		34	43.5	96	
12X8	96.5	134	117	175	350		32	42	87	
12X6	84.7	116	114	165	330		31	40	83	
12X5			110	160	320		30	39	80	

All dimensions given in inches for common diameters and wall thicknesses.

Dimensions in accordance with ASME B16.9. Other sizes, schedules and wall thicknesses also available.

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Approximate Weight (LBS.) for 14 x 12 through 30 x 16 90° LR Reducing Elbows, Reducing Outlet Tees and Concentric & Eccentric Reducers

Nom. Pipe Size	90 L.R. Reducing Elbows		Reducing Outlet Tees	
	STD	XS	STD	XS
14X12	160	237	60	80
14X10	158	233	59.2	79.2
14X8	155	225	58.5	78.5
14X6	115	218	58	78
16X14	194	275	71	91
16X12	191	270	70	90
16X10	186	266	69.5	89
16X8	180	260	68.5	88.5
16X6	173	255		
18X16	241	321	85	115
18X14	236	315	84	114
18X12	230	307	83	113
18X10	222	296	82	112
18X8	211	281		
20X18	340	477	125	170
20X16	338	475	124	169
20X14	336	472	122	168
20X12	334	469	120	167
20X10	332	466		
20X8	330	463		
22X20	412	547	142	186
22X18	410	544	138	182
22X16	408	541	131	173
22X14	406	538	123	163
22X12	404	535		
22X10	402	532		

All dimensions given in inches for common diameters and wall thicknesses.

Dimensions in accordance with ASME B16.9. Other sizes, schedules and wall thicknesses also available.

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Approximate Weight (LBS.) for 24 x 22 through 30 x 16 90° LR Reducing Elbows, Reducing Outlet Tees and Concentric & Eccentric Reducers

Nom. Pipe Size	90 L.R. Reducing Elbows		Reducing Outlet Tees	
	STD	XS	STD	XS
24X22	525	607		
24X20	522	604	150	200
24X18	519	601	148	195
24X16	516	598	145	190
24X14	513	595		
24X12	510	592		
24X10	507	589		
26X24	760	865	207	276
26X22	755	860	200	272
26X20	750	850	190	253
26X18	745	845	182	242
26X16	740	840		
26X14	735	835		
26X12	730	830		
28X26			224	299
28X24			216	288
28X22			210	250
28X20			199	264
30X28			241	322
30X26	1045	1180	232	310
30X24	1035	1170	224	299
30X22	1025	1160	220	285
30X20	1015	1150	220	274
30X18	1005	1140		
30X16	995	1130		

All dimensions given in inches for common diameters and wall thicknesses.

Dimensions in accordance with ASME B16.9. Other sizes, schedules and wall thicknesses also available.

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