

# WROUGHT GROOVED-END FITTINGS

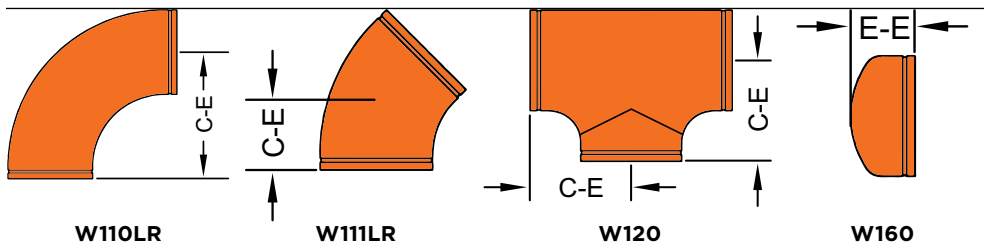
W110LR	1.5D Long Radius 90° Elbow	W151	Eccentric Reducer
W111LR	1.5D Long Radius 45° Elbow	W130	45° Lateral
W120	Tee	W131	45° Reducing Lateral
W121	Reducing Tee	W135	Cross
W160	Cap	W137	True Wye
W150	Concentric Reducer	W170	Flange Adapter

The Shurjoint wrought steel grooved end fittings are available 10" (250 mm) through 42" (1050 mm) pipe sizes in a variety of styles. Fittings are fabricated with the carbon steel pipe to ASTM A234 Gr. WPB, standard weight (0.375" or 9.5 mm), or segmentally welded carbon steel of the same or equivalent grade. Dimensions conform to ANSI B16.9. Other styles not listed are available upon request.



Fittings are painted orange or red, or as an option can be supplied hot dip galvanized or epoxy coated.

Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist.:	

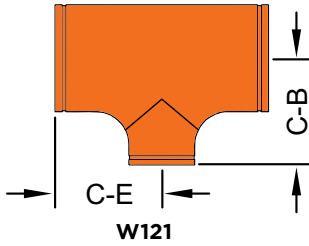


## DIMENSIONS

NOMINAL SIZE	PIPE O.D.	W110LR 90° L/R ELBOWS		W111LR 45° L/R ELBOWS		W120 TEE		W160 CAP	
		C-E	WEIGHT	C-E	WEIGHT	C-E	WEIGHT	E-E	WEIGHT
in	in	in	lb	in	lb	in	lb	in	lb
mm	mm	mm	kg	mm	kg	mm	kg	mm	kg
250	273.0	381.0	35.4	158.8	17.7	---	---	---	---
300	323.9	457.2	52.0	190.5	26.0	---	---	---	---
14	14.000	21.00	149.4	8.75	74.8	11.00	110.2	6.50	35.0
350	355.6	533.4	67.9	222.3	34.0	279.4	50.0	165.0	15.9
16	16.000	24.00	195.8	10.00	98.1	12.00	145.4	7.00	44.0
400	406.4	609.6	89.0	254.0	44.6	304.8	66.1	178.0	20.0
18	18.000	27.00	248.6	11.25	124.3	13.50	169.8	8.00	56.1
450	457.2	685.8	113.0	285.5	56.5	342.9	77.0	203.0	25.5
20	20.000	30.00	308.0	12.50	154.0	15.00	209.4	9.00	70.0
500	508.0	762.0	140.0	317.5	70.0	381.0	95.0	229.0	31.8
22	22.000	33.00	371.8	13.50	187.0	16.50	277.2	10.00	85.4
550	558.8	838.2	169.0	342.9	85.0	419.1	126.0	254.0	38.8
24	24.000	36.00	444.4	15.00	222.2	17.00	267.9	10.50	99.2
600	609.6	914.4	202.0	381.0	101.0	431.8	121.5	267.0	45.1
26	26	39	103.6	16	51.7	19.5	71.5	10.5	24.3
650	660.4	990.6	228.5	406.4	114	495.3	157.6	267	53.5
28	28	42	120.1	17.25	59.9	20.5	80.1	10.5	26.9
700	711	1066.8	264.7	438.2	132.1	520.7	176.6	267	59.3
30	30	45	137.7	18.5	68.8	22	92	10.5	29.6
750	762	1143	303.6	469.9	151.6	558.8	202.9	267	65.2
32	32	48	156.5	19.75	78.2	23.5	104.8	10.5	32.3
800	812.8	1219.2	345.1	501.7	172.4	596.9	231	267	71.3
26	26	39	103.6	16	51.7	19.5	71.5	10.5	24.3
650	660.4	990.6	228.5	406.4	114	495.3	157.6	267	53.5
28	28	42	120.1	17.25	59.9	20.5	80.1	10.5	26.9
700	711	1066.8	264.7	438.2	132.1	520.7	176.6	267	59.3
30	30	45	137.7	18.5	68.8	22	92	10.5	29.6
750	762	1143	303.6	469.9	151.6	558.8	202.9	267	65.2
32	32	48	156.5	19.75	78.2	23.5	104.8	10.5	32.3
800	812.8	1219.2	345.1	501.7	172.4	596.9	231	267	71.3
34	34	51	176.6	21	88.2	25	118.4	10.5	35.2
850	863.6	1295.4	389.3	533.4	194.6	635	260.9	267	77.7
36	36	54	197.8	22.25	98.9	26.5	132.8	10.5	38.2
900	914.4	1371.6	436.1	565.2	218.1	673.1	292.7	267	84.2
40	40	60	244.2	24.88	122.7	29.5	164	12	47.8
1000	1016	1524	538.4	632	270.6	749.3	361.6	304.8	105.4
42	42	63	269.1	26	134.6	30.00/28.00	167.6	12	51.2
1050	1066.8	1600.2	593.2	660.4	296.7	762.0/711.2	369.5	304.8	113.0

# WROUGHT GROOVED-END FITTINGS

- |        |                            |      |                      |
|--------|----------------------------|------|----------------------|
| W110LR | 1.5D Long Radius 90° Elbow | W151 | Eccentric Reducer    |
| W111LR | 1.5D Long Radius 45° Elbow | W130 | 45° Lateral          |
| W120   | Tee                        | W131 | 45° Reducing Lateral |
| W121   | Reducing Tee               | W135 | Cross                |
| W160   | Cap                        | W137 | True Wye             |
| W150   | Concentric Reducer         | W170 | Flange Adapter       |

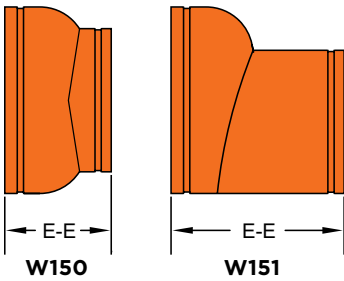


## DIMENSIONS

NOMINAL SIZE	PIPE O.D.	W121 REDUCING TEE		WEIGHT	NOMINAL SIZE	PIPE O.D.	W121 REDUCING TEE		WEIGHT
		C - E	C - B				C - E	C - B	
in mm	in mm	in mm	in mm	lb kg	in mm	in mm	in mm	in mm	lb kg
14 x 6	14.000 x 6.625	11	9.37	101.2	26 x 18	26.000 x 18.000	19.5	17.5	317.9
350 x 150	355.6 x 168.3	279	238	46	650 x 450	660.4 x 457.2	495	444	144.5
14 x 8	14.000 x 8.625	11	9.76	102.3	26 x 20	26.000 x 20.000	19.5	18	320.1
350 x 200	355.6 x 219.1	279	248	46.5	650 x 500	660.4 x 508.0	495	457	145.9
14 x 10	14.000 x 10.750	11	10.12	104.9	28 x 12	28.000 x 12.750	20.5	17.62	356.8
350 x 250	355.6 x 273.0	279	257	47.7	700 x 300	711.0 x 323.9	521	448	162.2
14 x 12	14.000 x 12.750	11	10.63	96.8	28 x 14	28.000 x 14.000	20.5	18	356.8
350 x 300	355.6 x 323.9	279	270	44	700 x 350	711.0 x 355.6	521	457	162.2
16 x 6	16.000 x 6.625	12	10.4	125.8	28 x 16	28.000 x 16.000	20.5	18	356.8
400 x 150	406.4 x 168.3	305	264	57.2	700 x 400	711.0 x 406.4	521	457	162.2
16 x 8	16.000 x 8.625	12	10.75	127.2	28 x 18	28.000 x 18.000	20.5	18.5	358.6
400 x 200	406.4 x 219.1	305	273	57.8	700 x 450	711.0 x 457.2	521	470	163
16 x 10	16.000 x 10.750	12	11.14	129.6	28 x 20	28.000 x 20.000	20.5	19	361.5
400 x 250	406.4 x 273.0	305	283	58.9	700 x 500	711.0 x 508.0	521	483	164.3
16 x 12	16.000 x 12.750	12	11.61	132.2	28 x 22	28.000 x 22.000	20.5	19.5	364.8
400 x 300	406.4 x 323.9	305	295	60.1	700 x 550	711.0 x 559.0	521	495	165.8
16 x 14	16.000 x 14.000	12	12	134.4	28 x 24	28.000 x 24.000	20.5	20	368.9
400 x 350	406.4 x 355.6	305	305	61.1	700 x 600	711.0 x 609.6	521	508	167.7
18 x 6	18.000 x 6.625	13.5	11.38	159.7	30 x 16	30.000 x 16.000	22	19	409
450 x 150	457.2 x 168.3	343	289	72.6	750 x 400	762.2 x 406.4	559	483	185.5
18 x 8	18.000 x 8.625	13.5	11.75	160.6	30 x 18	30.000 x 18.000	22	19.5	411
450 x 200	457.2 x 219.1	343	298	73	750 x 450	762.2 x 457.2	559	495	186.8
18 x 10	18.000 x 10.750	13.5	12.13	162.8	30 x 20	30.000 x 20.000	22	20	413.6
450 x 250	457.2 x 273.0	343	308	74	750 x 500	762.2 x 508.0	559	508	188
18 x 12	18.000 x 12.750	13.5	12.64	165.2	30 x 22	30.000 x 22.000	22	20.5	416.9
450 x 300	457.2 x 323.9	343	321	75.1	750 x 550	762.2 x 559.0	559	521	189.5
18 x 14	18.000 x 14.000	13.5	13	167.2	30 x 24	30.000 x 24.000	22	21	420.6
450 x 350	457.2 x 355.6	343	330	76	750 x 610	762.2 x 609.6	559	533	191.2
18 x 16	18.000 x 16.000	13.5	13	167.9	30 x 28	30.000 x 28.000	22	21.5	425.9
450 x 400	457.2 x 406.4	343	350	76.3	750 x 700	762.2 x 711.0	559	546	193.6
20 x 6	20.000 x 6.625	15	12.36	196.9	32 x 20	32.000 x 20.000	23.5	21	469.7
500 x 150	508.0 x 168.3	381	314	89.5	800 x 500	813.0 x 508.0	597	533	213.5
20 x 8	20.000 x 8.625	15	12.76	198	32 x 22	32.000 x 22.000	23.5	21.5	472.6
500 x 200	508.0 x 219.1	381	324	90	800 x 550	813.0 x 559.0	597	546	214.8
20 x 10	20.000 x 10.750	15	13.11	200	32 x 24	32.000 x 24.000	23.5	22	476
500 x 250	508.0 x 273.0	381	333	90.9	800 x 600	813.0 x 609.6	597	559	216.4
20 x 12	20.000 x 12.750	15	13.62	202.4	32 x 28	32.000 x 28.000	23.5	22.5	480.9
500 x 300	508.0 x 323.9	381	346	92	800 x 700	813.0 x 711.0	597	572	218.6
20 x 14	20.000 x 14.000	15	14.02	204.4	32 x 30	32.000 x 30.000	23.5	23	486.2
500 x 350	508.0 x 355.6	381	356	92.9	800 x 750	813.0 x 762.0	597	584	221
20 x 16	20.000 x 16.000	15	14.02	204.6	36 x 22	36.000 x 22.000	26.5	23.5	595.8
500 x 400	508.0 x 406.4	381	356	93.6	900 x 550	914.0 x 559.0	673	597	270.8
20 x 18	20.000 x 18.000	15	14.5	207.9	36 x 24	36.000 x 24.000	26.5	24	598.8
500 x 450	508.0 x 457.2	381	368	94.5	900 x 600	914.0 x 609.6	673	610	272.2
24 x 6	20.000 x 6.625	17	14.38	268.4	36 x 28	36.000 x 28.000	26.5	24.5	602.6
600 x 150	609.6 x 168.3	432	365	122	900 x 700	914.0 x 711.0	673	625	273.9
24 x 8	20.000 x 8.625	17	14.76	270.6	36 x 30	36.000 x 30.000	26.5	25	607.2
600 x 200	609.6 x 219.1	432	375	123	900 x 750	914.0 x 762.0	673	635	276
24 x 10	24.000 x 10.750	17	15.12	271	36 x 32	36.000 x 32.000	26.5	25.5	612.5
600 x 250	609.6 x 273.0	432	384	123.2	900 x 800	914.0 x 813.0	673	648	278.4
24 x 12	24.000 x 12.750	17	15.63	273.2	40 x 24	40.000 x 24.000	29.5	26	736.3
600 x 300	609.6 x 323.9	432	397	124.2	1000 x 600	1016.0 x 609.6	749	660	334.7
24 x 14	24.000 x 14.000	17	16	275	40 x 28	40.000 x 28.000	29.5	26.5	739.6
600 x 350	609.6 x 355.6	432	406	125	1000 x 700	1016.0 x 711.0	749	673	336.2
24 x 16	24.000 x 16.000	17	16	275	40 x 30	40.000 x 30.000	29.5	27.5	748.2
600 x 400	609.6 x 406.4	432	406	125	1000 x 750	1016.0 x 762.0	749	698	340.1
24 x 18	24.000 x 18.000	17	16.5	279.6	42 x 24	42.000 x 24.000	30	26	778.1
600 x 450	609.6 x 457.2	432	419	127.1	1050 x 600	1067.0 x 609.6	762	660	353.7
24 x 20	24.000 x 20.000	17	17	281.6	42 x 28	42.000 x 28.000	30	27.5	788
600 x 500	609.6 x 508.0	432	432	128	1050 x 700	1067.0 x 711.0	762	698	358.2
26 x 10	26.000 x 10.750	19.5	16.6	314.4	42 x 30	42.000 x 30.000	30	28	792
650 x 250	660.4 x 273.0	495	422	142.9	1050 x 750	1067.0 x 762.0	762	711	360
26 x 12	26.000 x 12.750	19.5	16.6	315.3	42 x 32	42.000 x 32.000	30	28	791.6
650 x 300	660.4 x 323.9	495	422	143.3	1050 x 800	1067.0 x 813.0	762	711	359.8
26 x 14	26.000 x 14.000	19.5	17	315.9	42 x 36	42.000 x 36.000	30	28	791.1
650 x 350	660.4 x 355.6	495	432	143.6	1050 x 900	1067.0 x 914.0	762	711	359.6
26 x 16	26.000 x 16.000	19.5	17	315.9	42 x 40	42.000 x 40.000	30	28	791.1
650 x 400	660.4 x 406.4	495	432	143.6	1050 x 1000	1067.0 x 1016.0	762	711	359.6

# WROUGHT GROOVED-END FITTINGS

W110LR	1.5D Long Radius 90° Elbow	W151	Eccentric Reducer
W111LR	1.5D Long Radius 45° Elbow	W130	45° Lateral
W120	Tee	W131	45° Reducing Lateral
W121	Reducing Tee	W135	Cross
W160	Cap	W137	True Wye
W150	Concentric Reducer	W170	Flange Adapter



Material: Fabricated with ASTM A234 Gr. WPB, standard weight (0.375" or 9.5 mm), or segmentally welded carbon steel of the same or equivalent grade.

E-E dimensions: conform to ANSI B16.9.

## DIMENSIONS

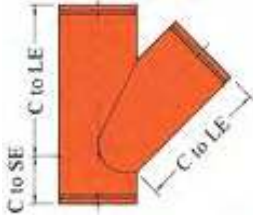
NOMINAL SIZE	PIPE O.D.	W150 CONCENTRIC REDUCER		W151 ECCENTRIC REDUCER	
		E - E	WEIGHT	E - E	WEIGHT
in	in	in	lb	in	lb
mm	mm	mm	kg	mm	kg
14x6	14.000 x 6.625	13.00	67.76	13.00	67.76
350 x 150	355.6 x 168.3	330	30.8	330	30.8
14 x 8	14.000 x 8.625	13	69.96	13	69.96
350 x 200	355.6 x 219.1	330	31.8	330	31.8
14 x 10	14.000 x 10.750	13	71.94	13	71.94
350 x 250	355.6 x 273.0	330	32.7	330	32.7
14 x 12	14.000 x 12.750	13	73.92	13	73.92
350 x 300	355.6 x 323.9	330	33.6	330	33.6
16 x 8	16.000 x 8.625	14	87.78	14	87.78
400 x 200	406.4 x 219.1	356	39.9	356	39.9
16 x 10	16.000 x 10.750	14	90.86	14	90.86
400 x 250	406.4 x 273.0	356	41.3	356	41.3
16 x 12	16.000 x 12.750	14	92.84	14	92.84
400 x 300	406.4 x 323.9	356	42.2	356	42.2
16 x 14	16.000 x 14.000	14	94.82	14	94.82
400 x 350	406.4 x 355.6	356	43.1	356	43.1
18 x 10	18.000 x 10.750	15	111.76	15	111.76
450 x 250	457.2 x 273.0	381	50.8	381	50.8
18 x 12	18.000 x 12.750	15	114.84	15	114.84
450 x 300	457.2 x 323.9	381	52.2	381	52.2
18 x 14	18.000 x 14.000	15	117.7	15	117.7
450 x 350	457.2 x 355.6	381	53.5	381	53.5
18 x 16	18.000 x 16.000	15	120.78	15	120.78
450 x 400	457.2 x 406.4	381	54.9	381	54.9
20 x 12	20.000 x 12.750	20	159.72	20	159.72
500 x 300	508.0 x 323.9	508	72.6	508	72.6
20 x 14	20.000 x 14.000	20	163.68	20	163.68
500 x 350	508.0 x 355.6	508	74.4	508	74.4
20 x 16	20.000 x 16.000	20	167.64	20	167.64
500 x 400	508.0 x 406.4	508	76.2	508	76.2
20 x 18	20.000 x 18.000	20	171.6	20	171.6
500 x 450	508.0 x 457.2	508	78	508	78
24 x 16	24.000 x 16.000	20	197.56	20	197.56
600 x 400	609.6 x 406.4	508	89.8	508	89.8
24 x 18	24.000 x 18.000	20	199.54	20	199.54
600 x 450	609.6 x 457.2	508	90.7	508	90.7
24 x 20	24.000 x 20.000	20	203.5	20	203.5
600 x 500	609.6 x 508.0	508	92.5	508	92.5
28 x 18	28.000 x 18.000	24	191.8	24	191.8
700 x 450	711.2 x 457.2	610	87	610	87

# WROUGHT GROOVED-END FITTINGS

W110LR	1.5D Long Radius 90° Elbow	W151	Eccentric Reducer
W111LR	1.5D Long Radius 45° Elbow	W130	45° Lateral
W120	Tee	W131	45° Reducing Lateral
W121	Reducing Tee	W135	Cross
W160	Cap	W137	True Wye
W150	Concentric Reducer	W170	Flange Adapter

Material: Fabricated with ASTM A234 Gr. WPB, standard weight (0.375" or 9.5 mm), or segmentally welded carbon steel of the same or equivalent grade.

C-LE and C-SE dimensions: manufacturer's standard.



**W130**

## DIMENSIONS

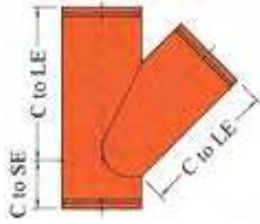
NOMINAL SIZE	PIPE O.D.	W130 45° LATERAL		
		C-LE	C-SE	WEIGHT
in	in	in	in	lb
mm	mm	mm	mm	kg
14	14.000	26.5	7.5	219.14
350	355.6	673	191	99.4
16	16.000	29.0	8.0	270.5
400	406.4	737	203	122.7
18	18.000	32.0	8.5	332.7
450	457.2	813	216	150.9
20	20.000	35.0	9.0	401.3
500	508.0	889	229	182.0
24	24.000	40.0	10.0	541.3
600	609.6	1016	254	245.5
28	28.0	44.0	11.0	934.0
700	711.0	1118	279	423.7
30	30.0	46.0	11.5	1048.0
750	762.0	1169	292	475.2
32	32.0	48.0	12.0	1167.0
800	813.0	1219	305	529.5
36	36.0	52.0	13.0	1423.6
900	914.0	1321	330	645.7
40	40.0	56.0	14.0	1706.0
1000	1016.0	1422	356	773.8
42	42.0	58.0	14.5	1857.0
1050	1067.0	1473	368	842.1

# WROUGHT GROOVED-END FITTINGS

W110LR	1.5D Long Radius 90° Elbow	W151	Eccentric Reducer
W111LR	1.5D Long Radius 45° Elbow	W130	45° Lateral
W120	Tee	W131	45° Reducing Lateral
W121	Reducing Tee	W135	Cross
W160	Cap	W137	True Wye
W150	Concentric Reducer	W170	Flange Adapter

Material: Fabricated with ASTM A234 Gr. WPB, standard weight (0.375" or 9.5 mm), or segmentally welded carbon steel of the same or equivalent grade.

C-LE and C-SE dimensions: manufacturer's standard.



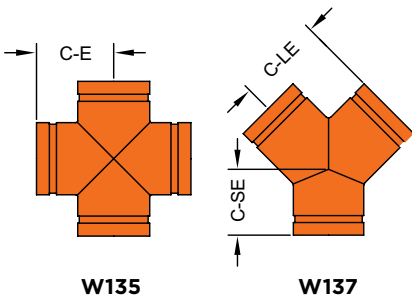
**W131**

## DIMENSIONS

NOMINAL SIZE	PIPE O.D.	W131 45° REDUCING LATERAL		
		C-LE	C-SE	WEIGHT
in	in	in	in	lb
mm	mm	mm	mm	kg
14 x 14 x 4	14.000 x 14.000 x 4.500	26.5	7.5	175.9
350 x 350 x 100	355.6 x 355.6 x 114.3	673	191	79.8
14 x 14 x 6	14.000 x 14.000 x 6.625	26.5	7.5	185.9
350 x 350 x 150	355.6 x 355.6 x 168.3	673	191	84.3
14 x 14 x 8	14.000 x 14.000 x 8.625	26.5	7.5	195
350 x 350 x 200	355.6 x 355.6 x 219.1	673	191	88.4
14 x 14 x 10	14.000 x 14.000 x 10.750	26.5	7.5	204.4
350 x 350 x 250	355.6 x 355.6 x 273.0	673	191	92.7
14 x 14 x 12	14.000 x 14.000 x 12.750	26.5	7.5	213.3
350 x 350 x 300	355.6 x 355.6 x 323.9	673	191	96.8
16 x 16 x 6	16.000 x 16.000 x 6.625	29	8	226.4
400 x 400 x 150	406.4 x 406.4 x 168.3	737	203	102.7
16 x 16 x 8	16.000 x 16.000 x 8.625	29	8	236
400 x 400 x 200	406.4 x 406.4 x 219.1	737	203	107.1
16 x 16 x 10	16.000 x 16.000 x 10.750	29	8	246
400 x 400 x 250	406.4 x 406.4 x 273.0	737	203	111.6
16 x 16 x 12	16.000 x 16.000 x 12.750	29	8	255.1
400 x 400 x 300	406.4 x 406.4 x 323.9	737	203	115.7
16 x 16 x 14	16.000 x 16.000 x 14.000	29	8	260.9
400 x 400 x 350	406.4 x 406.4 x 355.6	737	203	118.4
18 x 18 x 6	18.000 x 18.000 x 6.625	32	8.5	274.8
450 x 450 x 150	457.2 x 457.2 x 168.3	813	216	124.6
18 x 18 x 8	18.000 x 18.000 x 8.625	32	8.5	285.3
450 x 450 x 200	457.2 x 457.2 x 219.1	813	216	129.4
18 x 18 x 12	18.000 x 18.000 x 12.750	32	8.5	306.2
450 x 450 x 300	457.2 x 457.2 x 323.9	813	216	138.9
18 x 18 x 14	18.000 x 18.000 x 14.000	32	8.5	312.4
450 x 450 x 350	457.2 x 457.2 x 355.6	813	216	141.7
18 x 18 x 16	18.000 x 18.000 x 16.000	32	8.5	322.4
450 x 450 x 400	457.2 x 457.2 x 406.4	813	216	146.2
20 x 20 x 12	20.000 x 20.000 x 12.750	35	9	362.1
500 x 500 x 300	508.0 x 508.0 x 323.9	889	229	164.3
20 x 20 x 14	20.000 x 20.000 x 14.000	35	9	368.7
500 x 500 x 350	508.0 x 508.0 x 355.6	889	229	167.2
20 x 20 x 16	20.000 x 20.000 x 16.000	35	9	379.4
500 x 500 x 400	508.0 x 508.0 x 406.4	889	229	172.1
24 x 24 x 16	24.000 x 24.000 x 16.000	40	10	494.9
600 x 600 x 400	609.6 x 609.6 x 406.4	1016	254	224.5
24 x 24 x 20	24.000 x 24.000 x 20.000	40	10	517.7
600 x 600 x 500	609.6 x 609.6 x 508.0	1016	254	254.8
28 x 28 x 18	28.000 x 28.000 x 18.000	44	11	767
700 x 700 x 450	711.0 x 711.0 x 457.2	1117	279	347.8
28 x 28 x 20	28.000 x 28.000 x 20.000	44	11	796
700 x 700 x 500	711.0 x 711.0 x 508.0	1117	279	361.2
28 x 28 x 24	28.000 x 28.000 x 24.000	44	11	855
700 x 700 x 600	711.0 x 711.0 x 609.6	1117	279	388
30 x 30 x 18	30.000 x 30.000 x 18.000	46	11.5	840.3
750 x 750 x 450	762.2 x 762.2 x 457.2	1168	292	381.1
30 x 30 x 20	30.000 x 30.000 x 20.000	46	11.5	871
750 x 750 x 500	762.2 x 762.2 x 508.0	1168	292	395.2
30 x 30 x 24	30.000 x 30.000 x 24.000	46	11.5	933
750 x 750 x 610	762.2 x 762.2 x 609.6	1168	292	423.2
32 x 32 x 20	32.000 x 32.000 x 20.000	48	12	950
800 x 800 x 500	813.0 x 813.0 x 508.0	1219	305	430.6
32 x 32 x 24	32.000 x 32.000 x 24.000	48	12	1014
800 x 800 x 600	813.0 x 813.0 x 609.6	1219	305	459.8
32 x 32 x 30	32.000 x 32.000 x 30.000	48	12	1110
800 x 800 x 750	813.0 x 813.0 x 762.0	1219	305	503.4
36 x 36 x 24	36.000 x 36.000 x 24.000	52	13	1185
900 x 900 x 600	914.0 x 914.0 x 609.6	1320	330	537.3
36 x 36 x 30	36.000 x 36.000 x 30.000	52	13	1289
900 x 900 x 750	914.0 x 914.0 x 762.0	1320	330	584.5
36 x 36 x 32	36.000 x 36.000 x 32.000	52	13	1324
900 x 900 x 800	914.0 x 914.0 x 813.0	1320	330	600.3
40 x 40 x 24	40.000 x 40.000 x 24.000	56	14	1370
1000 x 1000 x 600	1016.0 x 1016.0 x 609.6	1422	356	621.3
40 x 40 x 30	40.000 x 40.000 x 30.000	56	14	1482
1000 x 1000 x 750	1016.0 x 1016.0 x 762.0	1422	356	672.1
40 x 40 x 36	40.000 x 40.000 x 36.000	56	14	1594
1000 x 1000 x 900	1016.0 x 1016.0 x 914.0	1422	356	722.9
42 x 42 x 24	42.000 x 42.000 x 24.000	58	14.5	1467
1050 x 1050 x 600	1067.0 x 1067.0 x 609.6	1473	368	665.5

# WROUGHT GROOVED-END FITTINGS

W110LR	1.5D Long Radius 90° Elbow	W151	Eccentric Reducer
W111LR	1.5D Long Radius 45° Elbow	W130	45° Lateral
W120	Tee	W131	45° Reducing Lateral
W121	Reducing Tee	W135	Cross
W160	Cap	W137	True Wye
W150	Concentric Reducer	W170	Flange Adapter

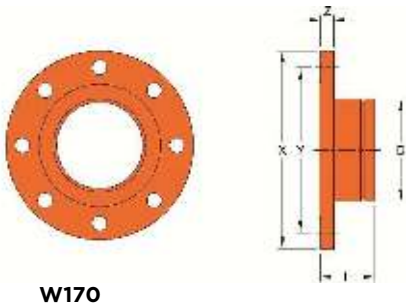


Material: Fabricated with ASTM A234 Gr. WPB, standard weight (0.375" or 9.5 mm), or segmentally welded carbon steel of the same or equivalent grade.

C-LE and C-SE dimensions: manufacturer's standard.

## DIMENSIONS

NOMINAL SIZE	PIPE O.D.	W135 CROSS		W137 TRUE WYE		
		C-E	Weight	C-LE	C-SE	Weight
in	in	in	lb	in	in	lb
mm	mm	mm	kg	mm	mm	kg
14	14	11	121	11	7.5	98
350	355.6	279	54.9	279	191	44.4
16	16	12	146.4	12	8	119.3
400	406.4	305	66.4	305	203	54.1
18	18	13.5	185.4	13.5	8.5	148.3
450	457.2	343	84.1	343	216	67.3
20	20	15	229.1	15	9	180.4
500	508	381	103.9	381	229	81.8
24	24	17	298.7	17	10	238.3
600	609.6	432	135.5	432	254	108.1



The Model W170 Flange Adapter fabricated in sizes 10" ~ 42" provide a direct connection to ANSI Class 125/150 flanges.

Dimensions of NPS 10" ~ NPS 24" conform to ANSI/ASME B16.5.  
Dimensions of NPS 26" ~ NPS 42" conform to ANSI/ASME B16.47.

## DIMENSIONS

NOMINAL PIPE SIZE	W170 FLANGE ADAPTER ANSI CLASS 125/150								
	X	Y	Z	BOLT SIZE	BOLT HOLE		D	L	WEIGHT
in	in	in	in	in	DIA.	NO.	in	in	lb
mm	mm	mm	mm	mm	mm		mm	mm	kg
10	16	14.25	1.18	7/8	1	12	10.75	5	9.9
250	406.4	362	30				273	127	21.9
12	19	17	1.25	7/8	1	12	12.75	5	14.1
300	483	432	32				323.9	127	31.1
14	21	18.75	1.38	1	1 1/8	12	14	5	18.1
350	533	476.3	35				355.6	127	40
16	23.5	21.25	1.46	1	1 1/8	16	16	5	22.2
400	597	539.7	37				406.4	127	49
18	25	22.75	1.57	1 1/8	1 1/4	16	18	5.5	25.2
450	635	577.8	40				457.2	140	55.6
20	27.5	25	1.69	1 1/8	1 1/4	20	20	6	31.1
500	699	635	43				508	152	68.6
24	32	29.5	1.89	1 1/4	1 1/2	20	24	6	42.1
600	813.6	749.3	48				609.6	152	92.8
26	34.25	31.75	2.63	1 1/4	1 1/2	24	26	8	63.6
650	870	806.4	66.7				660.4	203	140.3
28	36.5	34	2.75	1 1/4	1 1/2	28	28	8	72.2
700	925	863.6	69.9				711	203	159.2
30	38.75	36	2.88	1 1/4	1 1/2	28	30	8	81.1
750	985	914.4	73.1				762	203	178.8
32	41.75	38.5	3.13	1 1/2	1 1/2	28	32	9	281.9
800	1060	977.9	79.4				812.8	228.6	621.4
34	43.75	40.5	3.19	1 1/2	1 1/2	32	34	9	112.4
850	1110	1028.7	81				863.6	228.6	247.8
36	46	42.75	3.5	1 1/2	1 1/2	32	36	9	131.7
900	1170	1085.8	88.9				914.4	228.6	290.5
40	50.75	47.25	3.5	1 1/2	1 1/2	36	40	10	158.6
1000	1290	1200.2	88.9				1016	254	349.7
42	53	49.5	3.75	1 1/2	1 1/2	36	42	10	180.5
1050	1345	1257.3	95.3				1066.8	254	398

## GENERAL NOTES

- Maximum Working Pressure (CWP) listed is the maximum cold water pressure for general piping services tested to ASTM F1476 and or AWWA C606 methods. Figures listed are based on roll- or cut-grooved standard wall carbon steel pipe. For other pipe schedules or pipe materials, contact Shurjoint for additional information.
- Max. End Load is calculated based on the maximum working pressure (CWP).
- Listed and or Approved Pressures are pressure ratings for fire protection systems, tested and approved by various approval bodies. Please always refer to the latest approval data posted on the Shurjoint website.
- Field Joint Test: For one time only the system may be tested hydrostatically at 1.5 times the maximum working pressure listed (AWWA C606 5.2.3).
- Warning: Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- The 10 Year Limited Warranty applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- Shurjoint reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.