

Seraampore Industries

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Flange Fittings & Accessories

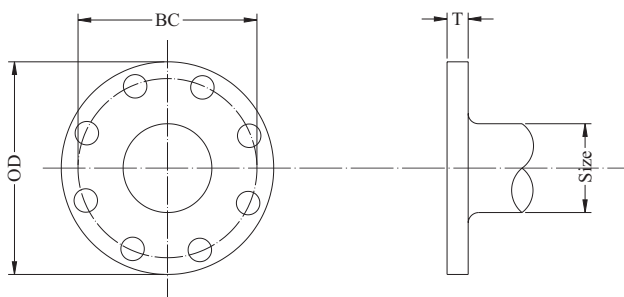
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3" - 54" DUCTILE IRON FLANGED FITTINGS

GENERAL SPECIFICATIONS

- MATERIAL :** Ductile Iron per ASTM A536. Grade 70-50-5.
- PRESSURE :** 250 psi rating for 3" - 48" sizes and 150 psi rating for 54".
- TESTING :** In accordance with ANSI/AWWA C110/A21.10 and UL requirement.
- LAYING LENGTH :** 2" - 48" Sizes in accordance with ANSI/AWWA C110/A21.10. & ANSI B16.1.
54" size in accordance with ANSI/AWWA C153/A21.53. Fittings not listed in ANSI/AWWA have dimensions per SIP design as noted in Catalog.
- WEIGHTS :** Does not include Accessories, Cement Lining and Coatings.
- DRILLING :** In accordance with ANSI/AWWA C110/A21.10 and ANSI B16.1
CLASS 125 Flanges.
- CEMENT LINING :** In accordance with ANSI/AWWA C104/A21.4.
- COATING :** Asphaltic Seal Coat inside and out in accordance with ANSI/AWWA C104/A21.4 and Prime Coat outside. Other Coating & Linings are available up on request. (Must be specified at time of order.)
- APPROVALS :** 3"- 24" Underwriters Laboratories Listed and UL/NSF 61.



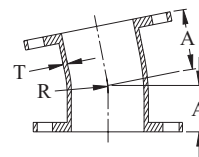
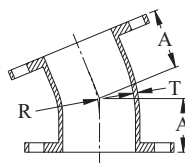
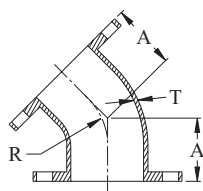
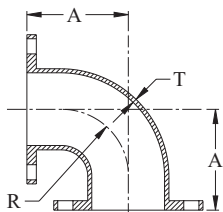
FLANGE DIMENSIONS

SIZE	O.D.	B.C.	T	BOLTS		
				HOLE DIA.	SIZE	NO.
* 2	6.00	4.75	0.62	0.75	5/8 X 2 1/4	4
* 2 1/2	7.00	5.50	0.69	0.75	5/8 X 2 1/2	4
3	7.50	6.00	0.75	0.75	5/8 X 2 1/2	4
4	9.00	7.50	0.94	0.75	5/8 X 3	8
* 5	10.00	8.50	0.94	0.88	3/4 X 3	8
6	11.00	9.50	1.00	0.88	3/4 X 3 1/2	8
8	13.50	11.75	1.12	0.88	3/4 X 3 1/2	8
10	16.00	14.25	1.19	1.00	7/8 X 4	12
12	19.00	17.00	1.25	1.00	7/8 X 4	12
14	21.00	18.75	1.38	1.13	1 X 4 1/2	12
16	23.50	21.25	1.44	1.13	1 X 4 1/2	16
18	25.00	22.75	1.56	1.25	1 1/8 X 5	16
20	27.50	25.00	1.69	1.25	1 1/8 X 5	20
24	32.00	29.50	1.88	1.38	1 1/4 X 5 1/2	20
30	38.75	36.00	2.12	1.38	1 1/4 X 6 1/2	28
36	46.00	42.75	2.38	1.63	1 1/2 X 7	32
42	53.00	49.50	2.62	1.63	1 1/2 X 7 1/2	36
48	59.50	56.00	2.75	1.63	1 1/2 X 8	44
* 54	66.25	62.75	3.00	2.00	1 3/4 X 8 1/2	44

All Dimensions in Inches.

Weights shown are approximate in lbs.

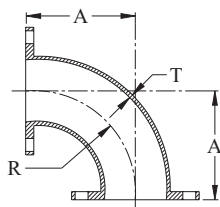
* Not included in AWWA C110.



FLANGE BENDS

SIZE	T	90° (1/4) FLANGE BEND			45° (1/8) FLANGE BEND			22.5° (1/16) FLANGE BEND			11.25° (1/32) FLANGE BEND		
		A	R	Wt	A	R	Wt	A	R	Wt	A	R	Wt
* 2	0.31	4.50	3.00	14	2.50	2.41	12	2.50	6.04	12	2.50	12.69	12
3	0.48	5.50	4.00	25	3.00	3.62	20	3.00	7.56	20	3.00	15.25	20
4	0.52	6.50	4.50	45	4.00	4.81	40	4.00	10.06	40	4.00	20.31	40
6	0.55	8.00	6.00	65	5.00	7.25	55	5.00	15.06	55	5.00	30.50	55
8	0.60	9.00	7.00	105	5.50	8.44	90	5.50	17.62	90	5.50	35.50	90
10	0.68	11.00	9.00	165	6.50	10.88	130	6.50	22.62	135	6.50	45.69	135
12	0.75	12.00	10.00	235	7.50	13.25	195	7.50	27.62	205	7.50	55.81	205
14	0.66	14.00	11.50	290	7.50	12.06	220	7.50	25.12	225	7.50	50.75	225
16	0.70	15.00	12.50	370	8.00	13.25	280	8.00	27.62	285	8.00	55.81	285
18	0.75	16.50	14.00	450	8.50	14.50	325	8.50	30.19	335	8.50	60.94	335
20	0.80	18.00	15.50	580	9.50	16.88	430	9.50	35.19	435	9.50	71.06	435
24	0.89	22.00	18.50	900	11.00	18.12	630	11.00	37.69	640	11.00	76.12	645
30	1.03	25.00	21.50	1430	15.00	27.75	1120	15.00	57.81	1135	15.00	116.75	1150
36	1.15	28.00	24.50	2135	18.00	35.00	1755	18.00	72.88	1790	18.00	147.25	1805
42	1.28	31.00	27.50	3055	21.00	42.25	2600	21.00	88.00	2665	21.00	177.69	2680
48	1.42	34.00	30.50	4095	24.00	49.50	3580	24.00	103.06	3665	24.00	208.12	3695
* 54	0.90	39.00	35.29	3740	20.50	41.05	2735	14.00	32.42	2260	12.00	30.81	2100

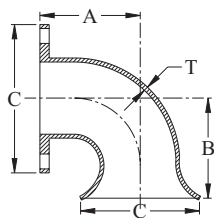
90° LONG RADIUS BENDS*



SIZE	T	A	R	Wt.
3	0.48	7.75	6.25	30
4	0.52	9.00	7.00	50
6	0.55	11.50	9.50	80
8	0.60	14.00	12.00	140
10	0.68	16.50	14.50	215
12	0.75	19.00	17.00	325
14	0.66	21.50	19.00	580
16	0.70	24.00	21.50	740
18	0.75	26.50	24.00	840
20	0.80	29.00	26.50	928
24	0.89	34.00	30.50	1640
30	1.03	41.50	38.00	2105
36	1.15	49.00	45.50	3285
42	1.28	56.50	53.00	4865
48	1.42	64.00	60.50	7800
54	0.90	73.50	69.50	6205

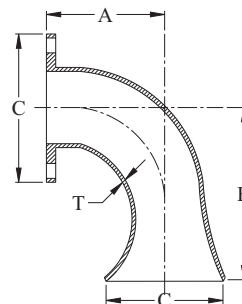
All Dimensions in Inches.
Weights shown are approximate in lbs.

* Not included in AWWA C110.



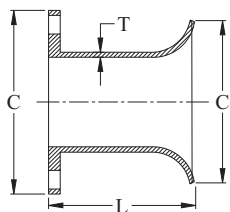
90° FLANGE X FLARE BENDS*

SIZE	T	A	B	C	Wt.
3	0.48	5.50	11.00	7.50	25
4	0.52	6.50	12.00	9.00	40
6	0.55	8.00	12.00	11.00	70
8	0.60	9.00	14.00	13.50	110
10	0.68	11.00	17.00	16.00	175
12	0.75	12.00	18.00	19.00	245
14	0.66	14.00	20.00	21.00	340
16	0.70	15.00	21.00	23.50	460
18	0.75	16.50	22.50	25.00	560
20	0.80	18.00	24.00	27.50	700
24	0.89	22.00	28.00	32.00	1100
30	1.03	25.00	32.00	38.75	1840
36	1.15	28.00	35.00	46.00	2700
42	1.28	31.00	38.00	53.00	3250
48	1.42	34.00	41.00	59.50	4215
54	0.90	39.00	46.00	66.25	3965



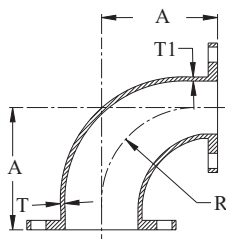
LONG RADIUS 90° FLANGE X FLARE BENDS*

SIZE	T	A	B	C	Wt.
3	0.40	7.75	13.25	7.50	30
4	0.40	9.00	14.50	9.00	50
6	0.45	11.50	15.50	11.00	90
8	0.53	14.00	19.00	13.50	155
10	0.55	16.50	22.50	16.00	250
12	0.60	19.00	25.00	19.00	375
14	0.65	21.50	27.50	21.00	500
16	0.70	24.00	30.00	23.50	715
18	0.75	26.50	32.50	25.00	800
20	0.80	29.00	35.00	27.50	1140
24	0.90	34.00	40.00	32.00	1335
30	1.07	41.50	48.50	38.75	2190
36	1.19	49.00	56.00	46.00	3465
42	1.32	56.50	63.50	53.00	5150
48	1.44	64.00	71.00	59.50	6725



STRAIGHT FLANGE X FLARE*

SIZE	T	L	C	Wt.
3	0.48	8.00	7.50	20
4	0.52	8.00	9.00	30
6	0.55	8.00	11.00	40
8	0.60	10.00	13.50	70
10	0.68	10.00	16.00	95
12	0.75	12.00	19.00	155
14	0.66	12.00	21.00	190
16	0.70	16.00	23.50	330
18	0.75	16.00	25.00	355
20	0.80	18.00	27.50	460
24	0.89	18.00	32.00	635
30	1.03	24.00	38.75	1025
36	1.15	24.00	46.00	1460
42	1.28	30.00	53.00	1900
48	1.42	30.00	59.50	2035
54	0.90	36.00	66.25	2350



90° REDUCING BENDS*

SIZE	A	R	T	T1	Wt.
4 X 3	6.50	4.50	0.52	0.48	35
6 X 3	8.00	6.00	0.55	0.48	45
6 X 4	8.00	6.00	0.55	0.52	55
8 X 4	9.00	7.00	0.60	0.52	80
8 X 6	9.00	7.00	0.60	0.55	90
10X 4	11.00	9.00	0.68	0.52	105
10X 6	11.00	9.00	0.68	0.55	125
10X 8	11.00	9.00	0.68	0.60	150
12X 6	12.00	10.00	0.75	0.55	165
12X 8	12.00	10.00	0.75	0.60	190
12X10	12.00	10.00	0.75	0.68	220
14X 6	14.00	11.50	0.66	0.55	144
14X 8	14.00	11.50	0.66	0.60	200
14X10	14.00	11.50	0.66	0.68	260
14X12	14.00	11.50	0.66	0.75	270
16X 6	15.00	12.50	0.70	0.55	220
16X 8	15.00	12.50	0.70	0.60	240
16X10	15.00	12.50	0.70	0.68	344
16X12	15.00	12.50	0.70	0.75	373
16X14	15.00	12.50	0.70	0.66	330
18X 6	16.50	14.00	0.75	0.55	260
18X 8	16.50	14.00	0.75	0.60	280
18X10	16.50	14.00	0.75	0.68	320
18X12	16.50	14.00	0.75	0.75	465
18X14	16.50	14.00	0.75	0.66	370
18X16	16.50	14.00	0.75	0.70	410
20X 6	18.00	15.50	0.80	0.55	320
20X 8	18.00	15.50	0.80	0.60	345
20X10	18.00	15.50	0.80	0.68	385
20X12	18.00	15.50	0.80	0.75	415
20X14	18.00	15.50	0.80	0.66	518
20X16	18.00	15.50	0.80	0.70	533
20X18	18.00	15.50	0.80	0.75	515
24X 6	22.00	18.50	0.89	0.55	480
24X 8	22.00	18.50	0.89	0.60	505
24X10	22.00	18.50	0.89	0.68	545
24X12	22.00	18.50	0.89	0.75	575
24X14	22.00	18.50	0.89	0.66	595
24X16	22.00	18.50	0.89	0.70	635
24X18	22.00	18.50	0.89	0.75	675
24X20	22.00	18.50	0.89	0.80	740

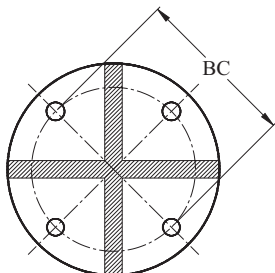
SIZE	A	R	T	T1	Wt.
30X12	25.00	21.50	1.03	0.75	840
30X14	25.00	21.50	1.03	0.66	860
30X16	25.00	21.50	1.03	0.70	900
30X18	25.00	21.50	1.03	0.75	940
30X20	25.00	21.50	1.03	0.80	1005
30X24	25.00	21.50	1.03	0.89	1165
36X12	28.00	24.50	1.15	0.75	11.95
36X14	28.00	24.50	1.15	0.66	1215
36X16	28.00	24.50	1.15	0.70	1255
36X18	28.00	24.50	1.15	0.75	1295
36X20	28.00	24.50	1.15	0.80	1315
36X24	28.00	24.50	1.15	0.89	1520
36X30	28.00	24.50	1.15	1.03	1785
42X12	31.00	27.50	1.28	0.75	1655
42X14	31.00	27.50	1.28	0.66	1675
42X16	31.00	27.50	1.28	0.70	1715
42X18	31.00	27.50	1.28	0.75	1755
42X20	31.00	27.50	1.28	0.80	1820
42X24	31.00	27.50	1.28	0.89	1980
42X30	31.00	27.50	1.28	1.03	2245
42X36	31.00	27.50	1.28	1.15	2600
48X12	34.00	30.50	1.42	0.75	2175
48X14	34.00	30.50	1.42	0.66	2195
48X16	34.00	30.50	1.42	0.70	2235
48X18	34.00	30.50	1.42	0.75	2275
48X20	34.00	30.50	1.42	0.80	2340
48X24	34.00	30.50	1.42	0.89	2500
48X30	34.00	30.50	1.42	1.03	2765
48X36	34.00	30.50	1.42	1.15	3115
48X42	34.00	30.50	1.42	1.28	3580
54X12	39.00	35.29	0.90	0.75	1990
54X14	39.00	35.29	0.90	0.66	2015
54X16	39.00	35.29	0.90	0.70	2055
54X18	39.00	35.29	0.90	0.75	2095
54X20	39.00	35.29	0.90	0.80	2160
54X24	39.00	35.29	0.90	0.89	2320
54X30	39.00	35.029	0.90	0.90	2585
54X36	39.00	35.29	0.90	0.90	2940
54X42	39.00	35.29	0.90	0.90	3395
54X48	39.00	35.29	0.90	0.90	3565

All Dimensions in Inches.

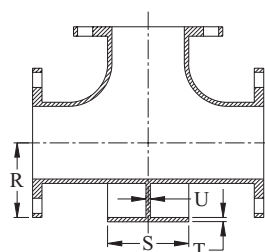
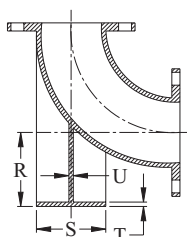
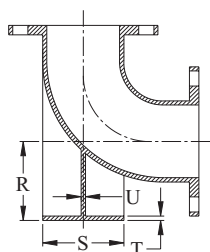
Weights shown are approximate in lbs.

* Not included in AWWA C110.

BASE DRILLING DETAILS



SIZE	B.C.	BOLT HOLE DIA.	NO. OF BOLTS	BASE WEIGHT	
				BEND	TEE
3	3.88	0.63	4	10	5
4	4.75	0.75	4	10	10
6	5.50	0.75	4	20	15
8	7.50	0.75	4	40	30
10	7.50	0.75	4	45	30
12	9.50	0.88	4	65	45
14	9.50	0.88	4	70	60
16	9.50	0.88	4	75	50
18	11.75	0.88	4	115	75
20	11.75	0.88	4	120	75
24	11.75	0.88	4	130	80
30	14.25	1.00	4	190	120
36	17.00	1.00	4	250	160
42	21.25	1.13	4	410	270
48	22.75	1.25	4	515	335
54	25.00	1.25	4	---	---

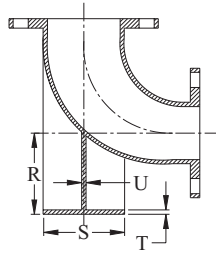


90° LONG RADIUS BASE BENDS & BASE TEES

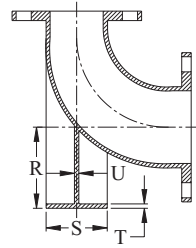
SIZE	R	S	T	U	WEIGHT				
					BASE BEND	LONG RADIUS BASE BEND	BASE ONLY	BASE TEES	BASE ONLY
3	4.88	5.00	0.56	0.50	35	40	10	45	5
4	5.50	6.00	0.62	0.50	55	60	10	75	10
6	7.00	7.00	0.69	0.62	85	100	20	110	15
8	8.38	9.00	0.94	0.88	145	180	40	185	30
10	9.75	9.00	0.94	0.88	210	260	45	300	30
12	11.25	11.00	1.00	1.00	300	390	65	430	45
14	12.50	11.00	1.00	1.00	320	650	70	500	60
16	13.75	11.00	1.00	1.00	445	815	75	600	50
18	15.00	13.50	1.12	1.12	565	955	115	740	75
20	16.00	13.50	1.12	1.12	700	1200	120	930	75
24	18.50	13.50	1.12	1.12	1030	1770	130	1410	80
30	23.00	16.00	1.19	1.15	1625	2295	190	2270	120
36	26.00	19.00	1.25	1.15	2385	3535	250	3320	160
42	30.00	23.50	1.44	1.28	3465	5275	410	5850	270
48	34.00	25.00	1.56	1.42	4610	7305	515	7720	335
54	38.00	27.50	1.69	1.55	4415	6880	---	6465	---

All Dimensions in Inches.

Weights shown are approximate in lbs.



Base Under
Large End



Base Under
Small End

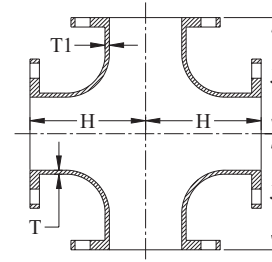
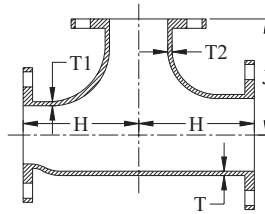
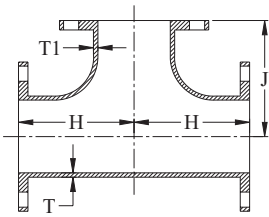
90° REDUCING BASE BENDS*

SIZE	R	S	T	U	Wt.
4 X 3	5.50	6.00	0.62	0.50	45
6 X 4	7.00	7.00	0.69	0.62	75
8 X 4	8.38	9.00	0.94	0.88	120
8 X 6	8.38	9.00	0.94	0.88	130
10X 6	9.75	9.00	0.94	0.88	170
10X 8	9.75	9.00	0.94	0.88	195
12X 6	11.25	11.00	1.00	1.00	230
12X 8	11.25	11.00	1.00	1.00	255
12X10	11.25	11.00	1.00	1.00	285
14X 6	12.50	11.00	1.00	1.00	214
14X 8	12.50	11.00	1.00	1.00	270
14X10	12.50	11.00	1.00	1.00	310
14X12	12.50	11.00	1.00	1.00	340
16X 6	13.75	11.00	1.00	1.00	295
16X 8	13.75	11.00	1.00	1.00	315
16X10	13.75	11.00	1.00	1.00	355
16X12	13.75	11.00	1.00	1.00	385
16X14	13.75	11.00	1.00	1.00	405
18X 6	15.00	13.50	1.12	1.12	375
18X 8	15.00	13.50	1.12	1.12	395
18X10	15.00	13.50	1.12	1.12	435
18X12	15.00	13.50	1.12	1.12	465
18X14	15.00	13.50	1.12	1.12	485
18X16	15.00	13.50	1.12	1.12	525
20X 6	16.00	13.50	1.12	1.12	440
20X 8	16.00	13.50	1.12	1.12	465
20X10	16.00	13.50	1.12	1.12	505
20X12	16.00	13.50	1.12	1.12	535
20X14	16.00	13.50	1.12	1.12	555
20X16	16.00	13.50	1.12	1.12	595
20X18	16.00	13.50	1.12	1.12	635
24X 6	18.50	13.50	1.12	1.12	610
24X 8	18.50	13.50	1.12	1.12	635
24X10	18.50	13.50	1.12	1.12	675
24X12	18.50	13.50	1.12	1.12	705
24X14	18.50	13.50	1.12	1.12	725
24X16	18.50	13.50	1.12	1.12	765
24X18	18.50	13.50	1.12	1.12	805
24X20	18.50	13.50	1.12	1.12	870

SIZE	R	S	T	U	Wt.
30X12	23.00	16.00	1.19	1.15	1030
30X14	23.00	16.00	1.19	1.15	1050
30X16	23.00	16.00	1.19	1.15	1090
30X18	23.00	16.00	1.19	1.15	1130
30X20	23.00	16.00	1.19	1.15	1195
30X24	23.00	16.00	1.19	1.15	1355
36X12	26.00	19.00	1.25	1.15	1445
36X14	26.00	19.00	1.25	1.15	1465
36X16	26.00	19.00	1.25	1.15	1505
36X18	26.00	19.00	1.25	1.15	1545
36X20	26.00	19.00	1.25	1.15	1610
36X24	26.00	19.00	1.25	1.15	1770
36X30	26.00	19.00	1.25	1.15	2035
42X12	30.00	23.50	1.44	1.28	2065
42X14	30.00	23.50	1.44	1.28	2085
42X16	30.00	23.50	1.44	1.28	2125
42X18	30.00	23.50	1.44	1.28	2165
42X20	30.00	23.50	1.44	1.28	2230
42X24	30.00	23.50	1.44	1.28	2390
42X30	30.00	23.50	1.44	1.28	2655
42X36	30.00	23.50	1.44	1.28	3010
48X12	34.00	25.00	1.56	1.42	2690
48X14	34.00	25.00	1.56	1.42	2710
48X16	34.00	25.00	1.56	1.42	2750
48X18	34.00	25.00	1.56	1.42	2790
48X20	34.00	25.00	1.56	1.42	2855
48X24	34.00	25.00	1.56	1.42	3015
48X30	34.00	25.00	1.56	1.42	3280
48X36	34.00	25.00	1.56	1.42	3630
48X42	34.00	25.00	1.56	1.42	4095
54X12	38.00	27.50	1.69	1.55	2665
54X14	38.00	27.50	1.69	1.55	2690
54X16	38.00	27.50	1.69	1.55	2730
54X18	38.00	27.50	1.69	1.55	2770
54X20	38.00	27.50	1.69	1.55	2835
54X24	38.00	27.50	1.69	1.55	2995
54X30	38.00	27.50	1.69	1.55	3260
54X36	38.00	27.50	1.69	1.55	3615
54X42	38.00	27.50	1.69	1.55	4070
54X48	38.00	27.50	1.69	1.55	4240

All Dimensions in Inches.
Weights shown are approximate in lbs.

* Not included in AWWA C110.



TEES & CROSSES

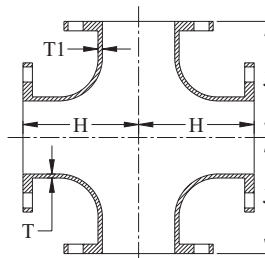
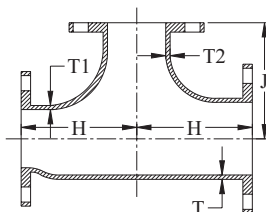
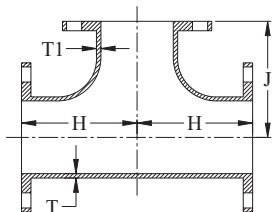
SIZE	H	J	T	T1	T2	WEIGHT	
						TEE	CROSS
2 X 2	4.50	4.50	0.31	0.31	---	20	---
3 X 2	5.50	5.50	0.38	0.31	---	35	---
3 X 3	5.50	5.50	0.48	0.48	---	40	50
4 X 3 X 3	6.50	5.50	0.52	0.48	0.48	55	---
4 X 2	6.50	6.50	0.50	0.31	---	50	---
4 X 3	6.50	6.50	0.52	0.48	---	60	70
4 X 4 X 6	8.00	8.00	0.52	0.52	0.55	90	---
4 X 4	6.50	6.50	0.52	0.52	---	65	80
5 X 5	7.50	7.50	0.50	0.50	---	80	---
6 X 4 X 4	8.00	8.00	0.55	0.52	0.52	85	---
6 X 4 X 6	8.00	8.00	0.55	0.52	0.55	90	---
6 X 6 X 8	9.00	9.00	0.55	0.55	0.60	140	---
6 X 2	8.00	8.00	0.55	0.31	---	86	---
6 X 3	8.00	8.00	0.55	0.48	---	85	95
6 X 4	8.00	8.00	0.55	0.52	---	90	110
6 X 6	8.00	8.00	0.55	0.55	---	95	120
8 X 6 X 4	9.00	9.00	0.60	0.55	0.52	130	---
8 X 6 X 6	9.00	9.00	0.60	0.55	0.55	135	---
8 X 6 X 8	9.00	9.00	0.60	0.55	0.60	145	---
8 X 8 X 10	11.00	11.00	0.60	0.60	0.68	260	---
8 X 8 X 12	12.00	12.00	0.60	0.60	0.75	310	---
8 X 3	9.00	9.00	0.60	0.48	---	130	140
8 X 4	9.00	9.00	0.60	0.52	---	140	155
8 X 6	9.00	9.00	0.60	0.55	---	145	165
8 X 8	9.00	9.00	0.60	0.60	---	155	195
10X 6 X 6	11.00	11.00	0.68	0.55	0.55	200	---
10X 6 X 10	11.00	11.00	0.68	0.55	0.68	255	---
10 X 8 X 6	11.00	11.00	0.68	0.60	0.55	210	---
10 X 8 X 8	11.00	11.00	0.68	0.60	0.60	220	---
10X 8 X 10	11.00	11.00	0.68	0.60	0.68	265	---
10 X 4	11.00	11.00	0.68	0.52	---	205	220
10 X 6	11.00	11.00	0.68	0.55	---	215	240
10 X 8	11.00	11.00	0.68	0.60	---	225	265
10 X 10	11.00	11.00	0.68	0.68	---	270	330
10X10X12	12.00	12.00	0.68	0.68	0.75	355	---
12X 6 X 6	12.00	12.00	0.75	0.55	0.55	325	---
12X 6 X 8	12.00	12.00	0.75	0.55	0.60	345	---
12X 8 X 6	12.00	12.00	0.75	0.60	0.55	340	---
12X 8 X 8	12.00	12.00	0.75	0.60	0.60	290	---
12X 8 X 12	12.00	12.00	0.75	0.60	0.75	365	---
12X10 X 6	12.00	12.00	0.75	0.68	0.55	375	---
12X10 X 8	12.00	12.00	0.75	0.68	0.60	380	---
10X10X10	12.00	12.00	0.75	0.68	0.68	345	---
12X10X12	12.00	12.00	0.75	0.68	0.75	370	---

SIZE	H	J	T	T1	T2	WEIGHT	
						TEE	CROSS
12 X 4	12.00	12.00	0.75	0.52	---	290	310
12 X 6	12.00	12.00	0.75	0.55	---	295	320
12 X 8	12.00	12.00	0.75	0.60	---	310	345
12X10	12.00	12.00	0.87	0.80	---	360	415
12X12	12.00	12.00	0.87	0.87	---	385	460
14 X 4	14.00	14.00	0.66	0.52	---	370	---
14 X 6	14.00	14.00	0.66	0.55	---	375	400
14 X 8	14.00	14.00	0.66	0.60	---	390	425
14X10	14.00	14.00	0.66	0.68	---	400	460
14X12	14.00	14.00	0.82	0.75	---	470	555
14X12	14.00	14.00	0.66	0.75	---	425	505
14X14	14.00	14.00	0.82	0.82	---	500	595
14X14	14.00	14.00	0.66	0.66	---	435	530
16 X 4	15.00	15.00	0.70	0.52	---	460	---
16 X 6	15.00	15.00	0.70	0.55	---	465	490
16 X 8	15.00	15.00	0.70	0.60	---	475	520
16X10	15.00	15.00	0.70	0.68	---	495	555
16X12	15.00	15.00	0.70	0.75	---	520	605
16X14	15.00	15.00	0.89	0.82	---	610	700
16X14	15.00	15.00	0.70	0.66	---	585	620
16X16	15.00	15.00	0.89	0.89	---	635	755
16X16	15.00	15.00	0.70	0.70	---	550	665
18 X 6	13.00	15.50	0.75	0.55	---	480	505
18 X 8	13.00	15.50	0.75	0.60	---	495	535
18X10	13.00	15.50	0.75	0.68	---	510	560
18X12	13.00	15.50	0.75	0.75	---	535	610
18X14	16.50	16.50	0.75	0.66	---	630	720
18X16	16.50	16.50	0.96	0.89	---	760	880
18X16	16.50	16.50	0.75	0.70	---	650	765
18X18	16.50	16.50	0.96	0.96	---	785	915
18X18	16.50	16.50	0.75	0.75	---	665	795
20 X 6	14.00	17.00	0.80	0.55	---	610	635
20 X 8	14.00	17.00	0.80	0.60	---	620	665
20X10	14.00	17.00	0.80	0.68	---	635	685
20X12	14.00	17.00	0.80	0.75	---	660	735
20X14	14.00	17.00	0.80	0.66	---	665	745
20X16	18.00	18.00	0.80	0.70	---	810	915
20X18	18.00	18.00	1.03	0.96	---	965	1100
20X18	18.00	18.00	0.80	0.75	---	820	945
20X20	18.00	18.00	1.03	1.03	---	1005	1175
20X20	18.00	18.00	0.80	0.80	---	885	1015
24 X 6	15.00	19.00	0.89	0.55	---	845	875
24 X 8	15.00	19.00	0.89	0.60	---	860	895
24X10	15.00	19.00	0.89	0.68	---	880	930

Contd....

All Dimensions in Inches.

Weights shown are approximate in lbs.



TEES & CROSSES

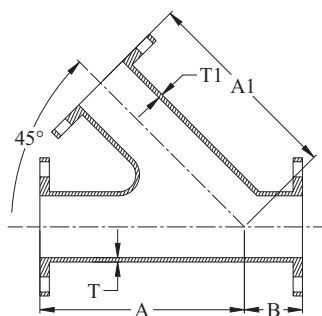
SIZE	H	J	T	T1	T2	WEIGHT	
						TEE	CROSS
24X12	15.00	19.00	0.89	0.75	---	890	960
24X14	15.00	19.00	0.89	0.66	---	900	975
24X16	15.00	19.00	0.89	0.70	---	915	1010
24X18	22.00	22.00	0.89	0.75	---	1220	1365
24X20	22.00	22.00	1.16	1.03	---	1510	1695
24X20	22.00	22.00	0.89	0.80	---	1255	1430
24X24	22.00	22.00	1.16	1.16	---	1585	1850
24X24	22.00	22.00	0.89	0.89	---	1330	1570
30 X 6	18.00	23.00	1.03	0.55	---	1725	---
*30X12	18.00	23.00	1.03	0.75	---	1490	1565
30X14	18.00	23.00	1.03	0.66	---	1490	1570
30X16	18.00	23.00	1.03	0.70	---	1505	1605
30X18	18.00	23.00	1.03	0.75	---	1515	1615
30X20	18.00	23.00	1.03	0.80	---	1540	1670
30X24	25.00	25.00	1.37	1.16	---	2475	2695
30X24	25.00	25.00	1.03	0.89	---	2025	2245
30X30	25.00	25.00	1.37	1.37	---	2615	2980
30X30	25.00	25.00	1.03	1.03	---	2150	2500
36X12	20.00	26.00	1.15	0.75	---	2170	2240
36X14	20.00	26.00	1.15	0.66	---	2175	2240
36X16	20.00	26.00	1.15	0.70	---	2185	2270
36X18	20.00	26.00	1.15	0.75	---	2190	2280
36X20	20.00	26.00	1.15	0.80	---	2210	2325
36X24	20.00	26.00	1.15	0.89	---	2255	2405
36X24X24	28.00	28.00	0.89	1.15	1.15	2670	---
36 X 30	28.00	28.00	1.58	1.37	---	3745	4025
36 X 30	28.00	28.00	1.15	1.03	---	3000	3300
36 X 36	28.00	28.00	1.58	1.58	---	3930	4405
36 X 36	28.00	28.00	1.15	1.15	---	3160	3620
36X36X48	34.00	34.00	1.15	1.15	1.42	4361	---
42 X 12	23.00	30.00	1.28	0.75	---	3165	3240

SIZE	H	J	T	T1	T2	WEIGHT	
						TEE	CROSS
42 X 14	23.00	30.00	1.28	0.66	---	3170	3240
42 X 16	23.00	30.00	1.28	0.70	---	3180	3270
42 X 18	23.00	30.00	1.28	0.75	---	3185	3275
42 X 20	23.00	30.00	1.28	0.80	---	3205	3320
42 X 24	23.00	30.00	1.78	1.16	---	4020	4135
42 X 24	23.00	30.00	1.28	0.89	---	3245	3395
42 X 30	31.00	31.00	1.28	1.03	---	4125	4375
42 X 36	31.00	31.00	1.78	1.58	---	5360	5720
42 X 42	31.00	31.00	1.78	1.78	---	5580	6155
48 X 12	26.00	34.00	1.42	0.75	---	4315	4390
48 X 14	26.00	34.00	1.42	0.66	---	4315	4385
48 X 16	26.00	34.00	1.42	0.70	---	4330	4415
48 X 18	26.00	34.00	1.42	0.75	---	4330	4420
48 X 20	26.00	34.00	1.42	0.80	---	4350	4460
48 X 24	26.00	34.00	1.42	0.89	---	4385	4535
48 X 30	26.00	34.00	1.96	1.37	---	5540	5705
48 X 30	26.00	34.00	1.42	1.03	---	4455	4670
48 X 36	34.00	34.00	1.96	1.58	---	7035	7310
48 X 36	34.00	34.00	1.42	1.15	---	5555	5880
48 X 42	34.00	34.00	1.96	1.78	---	7195	7630
*48 X 48	34.00	34.00	1.96	1.96	---	7385	8005
*54 X 12	29.00	37.00	1.05	0.75	---	4435	4575
*54 X 14	29.00	37.00	1.05	0.66	---	4435	4575
*54 X 16	29.00	37.00	1.05	0.70	---	4450	4605
*54 X 18	29.00	37.00	1.05	0.75	---	4460	4625
*54 X 20	29.00	37.00	1.05	0.80	---	4480	4665
*54 X 24	29.00	37.00	1.05	0.89	---	4515	4700
*54 X 30	31.00	37.00	1.05	0.72	---	4615	4800
*54 X 36	31.00	37.00	1.05	0.77	---	4695	4950
*54 X 42	39.00	39.00	1.05	0.88	---	5740	6210
*54 X 48	39.00	39.00	1.05	0.94	---	5850	6425
*54 X 54	39.00	39.00	1.05	1.05	---	6025	6780

All Dimensions in Inches.

Weights shown are approximate in lbs.

* Not included in AWWA C110.



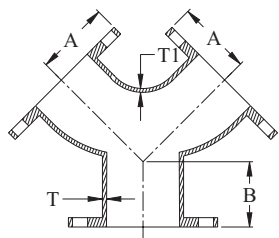
LATERAL WYES*

SIZE	A	A1	B	T	T1	Wt.
3 X 3	10.00	10.00	3.00	0.48	0.48	45
4 X 3	12.00	12.00	3.00	0.52	0.48	65
4 X 4	12.00	12.00	3.00	0.52	0.52	75
6 X 4	14.50	14.50	3.50	0.55	0.52	105
6 X 6	14.50	14.50	3.50	0.55	0.55	120
8 X 4	17.50	17.50	4.50	0.60	0.52	165
8 X 6	17.50	17.50	4.50	0.60	0.55	175
8 X 8	17.50	17.50	4.50	0.60	0.60	200
10 X 4	20.50	20.50	5.00	0.68	0.52	240
10 X 6	20.50	20.50	5.00	0.68	0.55	250
10 X 8	20.50	20.50	5.00	0.68	0.60	335
10X10	20.50	20.50	5.00	0.68	0.68	335
12 X 4	24.50	24.50	5.50	0.75	0.52	350
12 X 6	24.50	24.50	5.50	0.75	0.55	427
12 X 8	24.50	24.50	5.50	0.75	0.60	452
12X10	24.50	24.50	5.50	0.75	0.68	420
12X12	24.50	24.50	5.50	0.75	0.75	515
14 X 6	27.00	27.00	6.00	0.66	0.55	475
14 X 8	27.00	27.00	6.00	0.66	0.60	500
14X10	27.00	27.00	6.00	0.66	0.68	525
14X12	27.00	27.00	6.00	0.66	0.75	570
14X14	27.00	27.00	6.00	0.66	0.66	605
16 X 6	30.00	30.00	6.50	0.70	0.55	620
16 X 8	30.00	30.00	6.50	0.70	0.60	645
16X10	30.00	30.00	6.50	0.70	0.68	675
16X12	30.00	30.00	6.50	0.70	0.75	715
16X14	30.00	30.00	6.50	0.70	0.66	755
16X16	30.00	30.00	6.50	0.70	0.70	805
18 X 8	32.00	32.00	7.00	0.75	0.60	780
18X10	32.00	32.00	7.00	0.75	0.68	810
18X12	32.00	32.00	7.00	0.75	0.75	850
18X14	32.00	32.00	7.00	0.75	0.66	885
18X16	32.00	32.00	7.00	0.75	0.70	935
20X10	35.00	35.00	8.00	0.80	0.68	1025
20X12	35.00	35.00	8.00	0.80	0.75	1065
20X14	35.00	35.00	8.00	0.80	0.66	1110
20X16	35.00	35.00	8.00	0.80	0.70	1155
20X20	35.00	35.00	8.00	0.80	0.80	1265
24 X 8	40.50	40.50	9.00	0.89	0.60	1425

SIZE	A	A1	B	T	T1	Wt.
24X10	40.50	40.50	9.00	0.89	0.68	1460
24X12	40.50	40.50	9.00	0.89	0.75	1550
24X14	40.50	40.50	9.00	0.89	0.66	1560
24X16	40.50	40.50	9.00	0.89	0.70	1615
24X18	40.50	40.50	9.00	0.89	0.75	1680
24X20	40.50	40.50	9.00	0.89	0.80	1750
24X24	40.50	40.50	9.00	0.89	0.89	1905
30X12	49.00	49.00	10.00	1.03	0.75	2545
30X14	49.00	49.00	10.00	1.03	0.66	2590
30X16	49.00	49.00	10.00	1.03	0.70	2645
30X18	49.00	49.00	10.00	1.03	0.75	2690
30X20	49.00	49.00	10.00	1.03	0.80	2760
30X24	49.00	49.00	10.00	1.03	0.89	2915
30X30	49.00	49.00	10.00	1.03	1.03	3225
36X12	60.00	60.00	19.50	1.15	0.75	4490
36X14	60.00	60.66	19.50	1.15	0.66	4545
36X16	60.00	60.00	19.50	1.15	0.70	4000
36X18	60.00	60.00	19.50	1.15	0.75	4670
36X20	60.00	60.00	19.50	1.15	0.80	4750
36X24	60.00	60.00	19.50	1.15	0.89	4920
36X30	60.00	60.00	19.50	1.15	1.03	5255
36X36	60.00	60.00	19.50	1.15	1.15	5740
42X20	60.00	60.00	11.75	1.28	0.80	6680
42X24	60.00	60.00	11.75	1.28	0.89	6850
42X30	63.00	63.00	11.75	1.28	1.03	7185
42X36	66.00	12.00	12.00	1.78	1.58	7670
42X42	71.00	71.00	15.00	1.78	1.78	9185
48X24	64.00	64.00	5.00	1.42	0.89	8695
48X30	63.00	68.00	9.00	1.42	1.03	5573
48X36	72.00	72.00	7.00	1.42	1.15	9515
48X42	77.00	77.00	16.00	1.96	1.78	11030
48X48	77.00	77.00	16.00	1.96	1.96	12115
54X24	67.00	67.00	5.00	1.05	0.89	6220
54X30	72.00	74.00	9.00	1.05	0.72	7478
54X36	76.00	76.00	9.00	1.05	0.77	7600
54X42	81.00	81.00	14.00	1.05	0.88	8930
54X48	86.00	86.00	18.00	1.05	0.94	9480
54X54	90.00	90.00	20.00	1.05	1.05	11780
60X30	76.00	79.00	5.00	1.67	1.03	9045

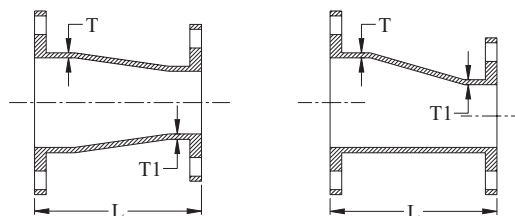
All Dimensions in Inches.
Weights shown are approximate in lbs.

* Not included in AWWA C110.



TRUE WYES*

SIZE	A	B	T	T1	Wt.
4 X 4 X 4	6.50	3.00	0.52	0.52	50
6 X 4 X 4	8.00	3.50	0.55	0.52	75
6 X 6 X 6	8.00	3.50	0.55	0.55	80
8 X 6 X 6	9.00	4.50	0.60	0.55	120
8 X 8 X 8	9.00	4.50	0.60	0.60	125



REDUCERS

SIZE	L	T	T1	Wt.
3 X 2	6.00	0.48	0.31	16
*4 X 2	7.00	0.52	0.31	25
*4 X 3	7.00	0.52	0.48	30
6 X 2	7.00	0.55	0.31	35
*6 X 3	9.00	0.55	0.48	40
6 X 4	9.00	0.55	0.52	45
6 X 5	9.00	0.55	0.52	52
*8 X 3	11.00	0.60	0.48	60
*8 X 4	11.00	0.60	0.52	65
8 X 5	11.00	0.60	0.52	70
*8 X 6	11.00	0.60	0.55	75
10X 4	12.00	0.68	0.52	85
10X 6	12.00	0.66	0.55	90
10X 8	12.00	0.68	0.60	110
12X 4	14.00	0.75	0.52	120
12X 6	14.00	0.75	0.55	130
12X 8	14.00	0.75	0.60	145
12X10	14.00	0.75	0.66	170
14X 6	16.00	0.66	0.55	155
14X 8	16.00	0.66	0.60	175
14X10	16.00	0.66	0.68	190
14X12	16.00	0.66	0.75	248
16X 6	18.00	0.70	0.55	190
16X 8	18.00	0.70	0.60	210
16X10	18.00	0.70	0.68	235
16X12	18.00	0.70	0.75	265
16X14	18.00	0.70	0.66	280
18X 8	19.00	0.75	0.60	240
18X10	19.00	0.75	0.68	265
18X12	19.00	0.75	0.75	295
18X14	19.00	0.75	0.66	310

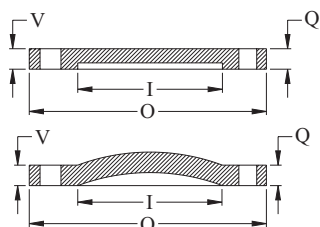
SIZE	L	T	T1	Wt.
18X16	19.00	0.75	0.70	340
20X10	20.00	0.80	0.68	310
20X12	20.00	0.80	0.75	345
20X14	20.00	0.80	0.66	355
20X16	20.00	0.80	0.70	390
20X18	20.00	0.80	0.75	410
24X12	24.00	0.80	0.75	480
24X14	24.00	0.89	0.66	490
24X16	24.00	0.89	0.70	525
24X18	24.00	0.89	0.75	550
24X20	24.00	0.89	0.80	590
30X12	30.00	1.03	0.75	825
30X16	30.00	1.03	0.70	770
*30X18	30.00	1.03	0.75	810
30X20	30.00	1.03	0.80	870
30X24	30.00	1.03	0.89	970
36X16	36.00	1.15	0.70	1105
36X20	36.00	1.15	0.80	1230
36X24	36.00	1.15	0.89	1345
36X30	36.00	1.15	1.03	1555
42X20	42.00	1.28	0.80	1712
42X24	42.00	1.28	0.89	1820
42X30	42.00	1.28	1.03	2060
42X36	42.00	1.28	1.15	2550
48X30	48.00	1.42	1.03	2625
48X36	48.00	1.42	1.15	2950
48X42	48.00	1.42	1.28	3320
54X30	32.00	0.90	0.61	1625
54X36	28.00	0.90	0.66	1680
54X42	25.00	0.90	0.76	1800
54X48	18.00	0.90	0.80	1695

All Dimensions in Inches.

Weights shown are approximate in lbs.

* Not included in AWWA C110.

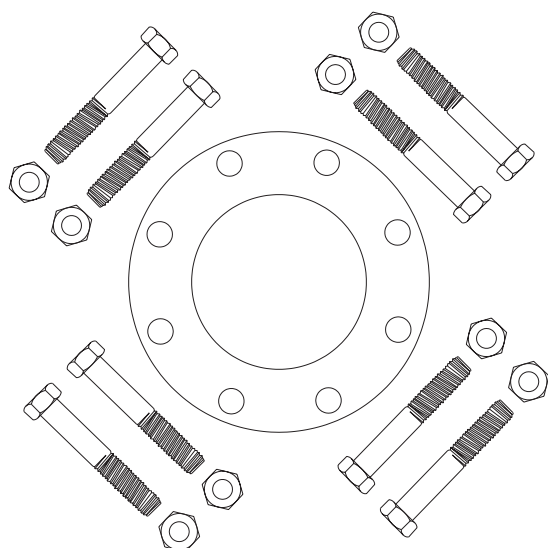
BLIND FLANGES*



SIZE	I	O	Q	V	Wt.
3	3.00	7.50	0.75	0.69	9
4	4.00	9.00	0.94	0.88	16
6	6.00	11.00	1.00	0.94	25
8	8.00	13.50	1.12	1.06	42
10	10.00	16.00	1.19	1.12	63
12	12.00	19.00	1.25	0.81	85
14	14.00	21.00	1.38	0.88	120
16	16.00	23.50	1.44	1.00	145
18	18.00	25.00	1.56	1.06	195
20	20.00	27.50	1.69	1.12	245
24	24.00	32.00	1.88	1.25	370
30	30.00	38.75	2.12	1.44	500
36	36.00	46.00	2.38	1.62	960
42	42.00	53.00	2.62	1.81	1300
48	48.00	59.00	2.075	2.00	1740
54	54.00	66.25	3.00	2.50	2600

FLANGE ACCESSORY PACKS

**WITH 1/8" THICK RUBBER (ASTM D2000 TYPE A)
GASKET & HEAVY HEX BOLTS & NUTS**



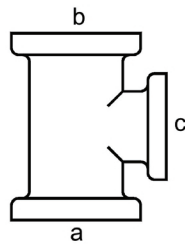
NOM. SIZE	BOLTS	QTY.	Wt.
3	5/8 X 2 1/2	4	2
4	5/8 X 3	8	3
6	3/4 X 3 1/2	8	5
8	3/4 X 3 1/2	8	6
10	7/8 X 4	12	12
12	7/8 X 4	12	13
14	1 X 4 1/2	12	19
16	1 X 4 1/2	16	25
18	1 1/8 X 5	16	35
20	1 1/8 X 5	20	45
24	1 1/4 X 5 1/2	20	63
30	1 1/4 X 6 1/2	28	95
36	1 1/2 X 7	32	170
42	1 1/2 X 8	36	215
48	1 1/2 X 8	44	265
54	1 3/4 X 8 1/2	44	390

All Dimensions in Inches.
Weights shown are approximate in lbs.

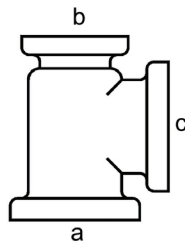
* Not included in AWWA C110.

METHOD OF DESIGNATING OUTLETS OF REDUCING FITTINGS FOR SPECIFICATIONS

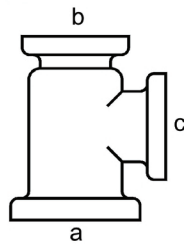
Reducing Tees



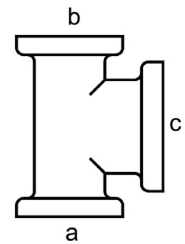
Reducing on Outlet



Reducing on One Run

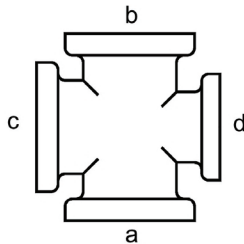


Reducing on One Run and Outlet

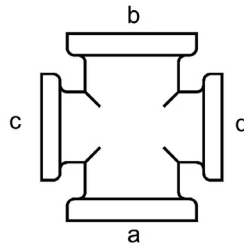


Reducing on Both Runs (Bull Head)

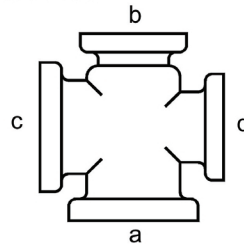
Reducing Crosses



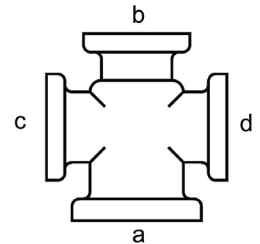
Reducing on One Outlet



Reducing on Both Outlets

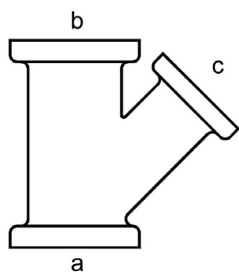


Reducing on One Run and Outlet

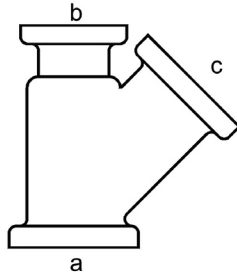


Reducing on One Run and Both Outlets

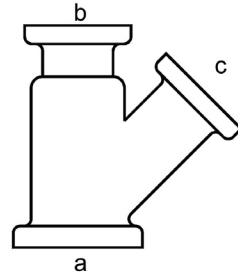
Reducing Laterals



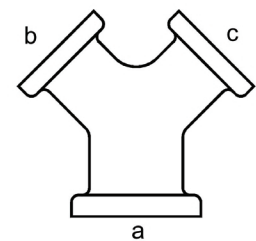
Reducing on Branch



Reducing on One Run

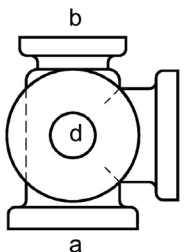


Reducing on One Run and Branch

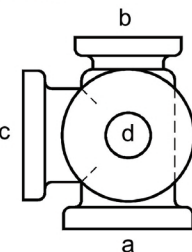


True Y

Side Outlet Tee

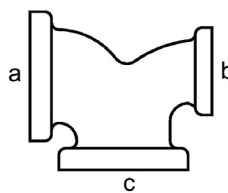


Right Hand

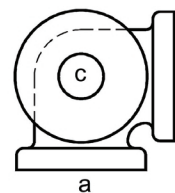


Left Hand

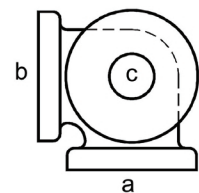
Double Branch Elbow



Side Outlet 90 deg. Elbow



Right Hand

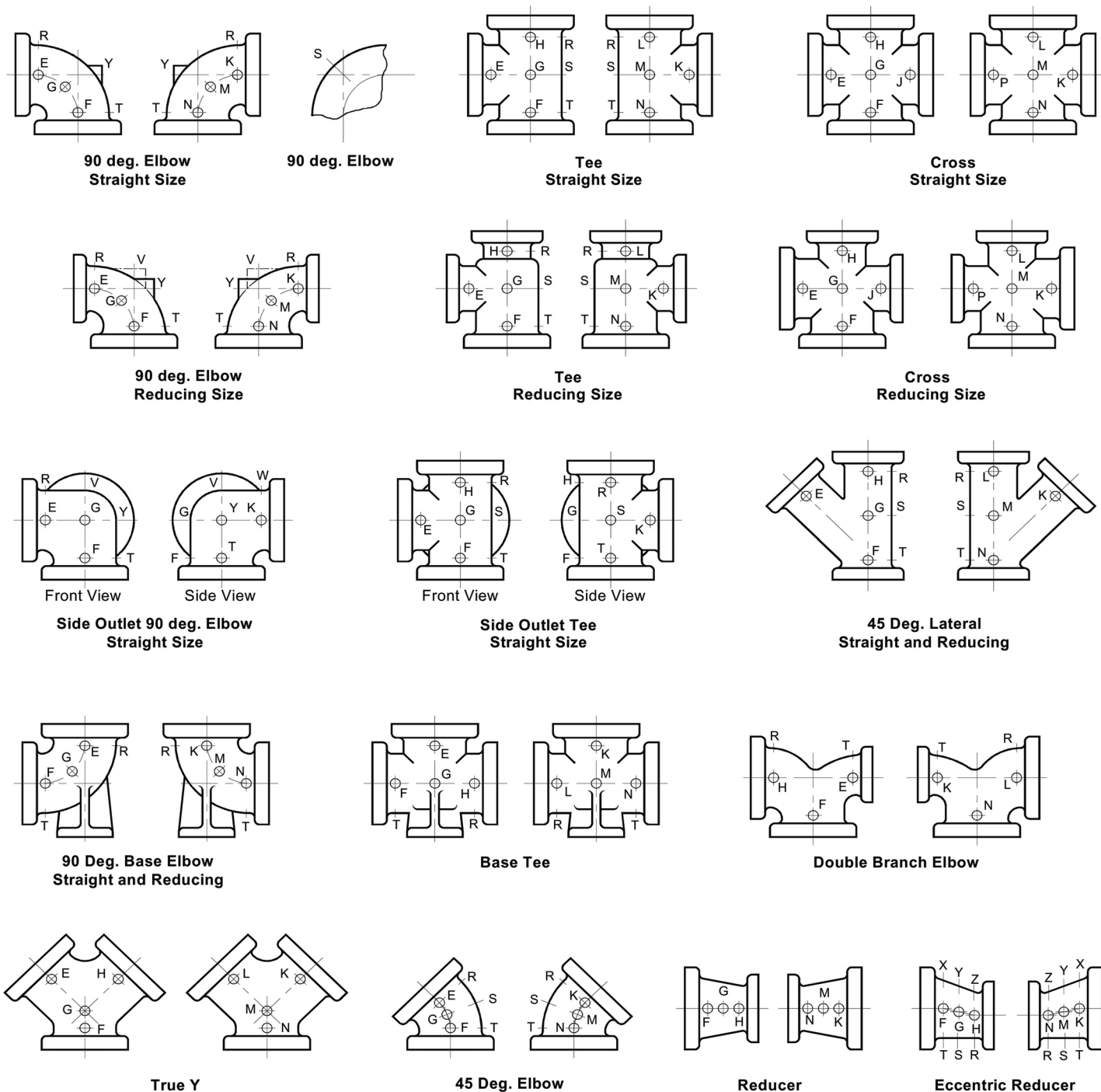


Left Hand

The Largest opening establishes the basic size of a reducing fitting. The largest opening is named first, except for bull head tees which are reducing on both runs and double branch elbows where both branches are reducing; the outlet is the largest opening and named last in both cases.

In designating the openings of reducing fittings, they should be read in the order indicated by the sequence of the letters, a, b, c and d. In designating the outlets of side outlet reducing fittings, the side outlet is named last; and in the case of the cross which is not shown, the side outlet is designated by the letter e.

METHOD OF DESIGNATING LOCATION OF TAPPED HOLES AND/OR BOSSES WHEN SPECIFIED



The above illustrations show two views of the same fitting and represent fittings with symmetrical shapes, with the exception of the side outlet elbow and the side outlet tee (straight sizes).

SIZE	MAX. TAP SIZE WITHOUT BOSS
3	1/2
4 - 6	3/4
8	1 1/4
10 - 16	1 1/2
18 - 30	2

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