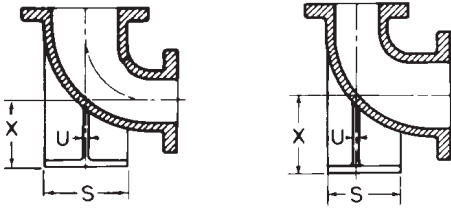


# Tyler/Union

## DUCTILE IRON C110 FLANGED FITTINGS

### \* REDUCING BASE BENDS



**Base Under Large End**

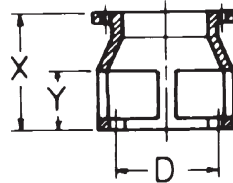
**Base Under Small End**

Size	Dimensions		U	Weight
	X	S		
4x3	5.5	6	.50	45
6x4	7	7	.62	75
8x4	8.38	9	.88	118
8x6	8.38	9	.88	135
10x6	9.75	9	.88	175
10x8	9.75	9	.88	184
12x6	11.25	11	1.00	230
12x8	11.25	11	1.00	255
12x10	11.25	11	1.00	285

\* Not included in AWWA C110

NOTE: "X" dimensions are identical on Base-under-large-end and Base-under-small-end. "S" dimensions are determined by the largest fitting opening.

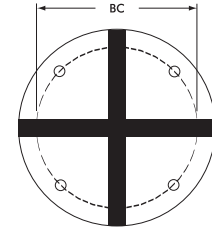
### \* FLANGE SLUDGE SHOE



**Flange Sludge Shoe**

Size	Dimensions			Weight
	D	X	Y	
3	5.75	12	6	28
4	7.00	12	6	35
6	7.87	12	6	45
8	10.12	12	6	69
10	12.25	12	6	88
12	15.25	12	6	120

\* Not included in AWWA C110



**Base Drilling Details**

Nom. Diameter Inches	Dimensions - Inches		
	BC	Bolt Hole Diameter	Number of Bolts
3	3.88	5/8	4
4	4.75	3/4	4
6	5.50	3/4	4
8	7.50	3/4	4
10	7.50	3/4	4
12	9.50	7/8	4
14	9.50	7/8	4
16	9.50	7/8	4
18	11.75	7/8	4
20	11.75	7/8	4
24	11.75	7/8	4
30	14.25	1	4
36	17.00	1	4
42	21.25	1-1/8	4
48	22.75	1-1/4	4

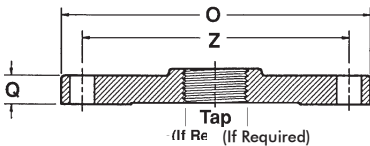
### FLANGES



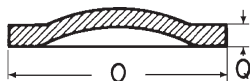
Flange for Steel Pipe  
Reducing Flange for Steel Pipe



Flange for DI Pipe  
Reducing Flange for DI Pipe



Under 12" Blind Flange  
With Optional 2" Taps



12" and Larger Blind Flange  
With Optional 2" Taps

Size	Dimensions				Weight			
	O	Q	Y	Z	Steel	DI	Blind	Blind Tap
2	6	.62	1	4.75	4	...	...	...
2½	7	.69	1.13	5.50	8	...	...	...
3	7.5	.75	1.19	6.00	7	6	8	8
4	9	.94	1.31	7.50	12	11	15	15
6	11	1.00	1.56	9.50	21	14	28	28
8	13.5	1.12	1.75	11.75	28	34	45	45
10	16	1.19	1.94	14.25	49	33	62	62
12	19	1.25	2.19	...	61	52	72	87
14	21	1.38	2.25	...	...	72	110	110
16	23.5	1.44	2.5	...	...	90	165	165
18	25	1.56	2.69	...	...	105	192	190
20	27.5	1.69	2.88	...	...	115	249	250
24	32	1.88	3.25	...	...	160	375	370
30	38.75	2.12	...	...	...	255	580	580
36	46.00	2.38	...	...	...	...	790	...
42	53.00	2.62	...	...	...	...	1175	...
48	59.50	2.75	...	...	...	...	1585	...

NOTE: All flanges conform to ANSI/AWWA C110/A21.10 Standards.

#### DI Reducing Flange Threaded For Steel Pipe

Size	Tap x O.D.	Weight
4x3	3x9	16
6x4	4x11	25
8x4	4x13½	44
8x6	6x13½	31
10x6	6x16	50
12x6	6x19	60
10x8	8x16	55
12x10	10x19	72

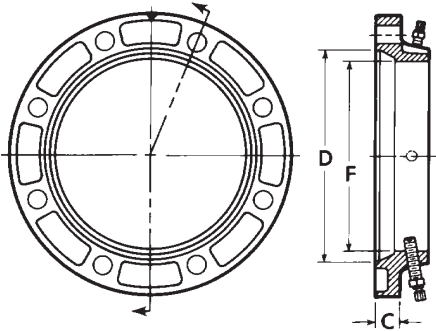
#### DI Reducing Flange Threaded For Cast Iron Pipe

Size	Tap x O.D.	Weight
4x3	3x9	16
6x4	4x11	25
8x4	4x13½	40
8x6	6x13½	35
10x8	8x16	50
12x8	8x19	85

# Tyler/Union

## DUCTILE IRON C110 FLANGED FITTINGS

### ADAPTER FLANGES



### DUCTILE IRON ADAPTER FLANGE

Size	Ductile Iron Pipe OD + .06 or - .06	D + .06 - .04	F + .07 - .03	C	Weight
3	3.96	4.94	4.06	.94	7
4	4.80	6.02	4.90	1.00	10
6	6.90	8.12	7.00	1.06	14
8	9.05	10.27	9.15	1.12	22
10	11.10	12.34	11.20	1.19	30
12	13.20	14.44	13.30	1.25	40

All set screws are  $\frac{5}{8}$ " 80 lb. torque head.

Wall Thickness Note: Recommended for Ductile Iron Pipe Class 53 thru Class 56.

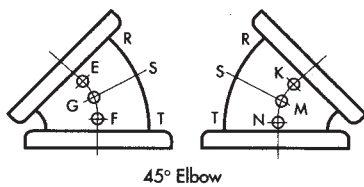
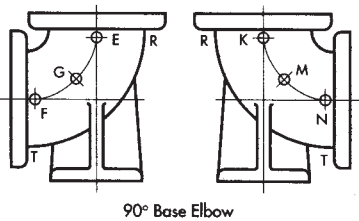
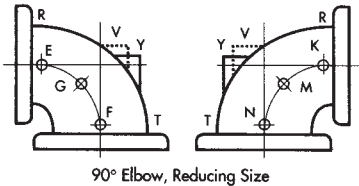
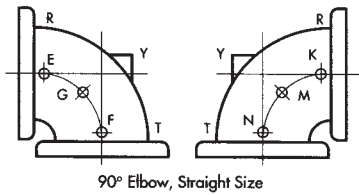
See Index for Installation Instructions

Size	Rated Working Pressure	No. of Set Screws	Bolt Circle	No. of Bolt & Nuts	Size of Bolt	Bolt Hole Dia.
3	250	4	6.00	4	$\frac{5}{8} \times 2\frac{1}{2}$	$\frac{3}{4}$
4	250	4	7.50	8	$\frac{5}{8} \times 3$	$\frac{3}{4}$
6	250	8	9.50	8	$\frac{3}{4} \times 3\frac{1}{2}$	$\frac{7}{8}$
8	250	8	11.75	8	$\frac{3}{4} \times 3\frac{1}{2}$	$\frac{7}{8}$
10	250	12	14.25	12	$\frac{7}{8} \times 4$	1
12	150	12	17.00	12	$\frac{7}{8} \times 4$	1

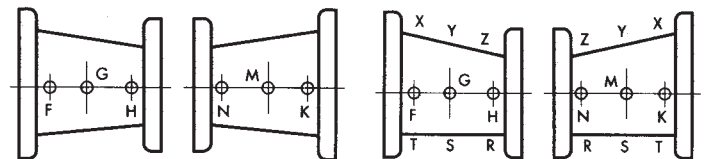
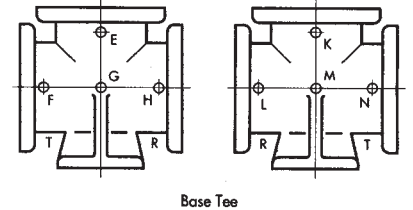
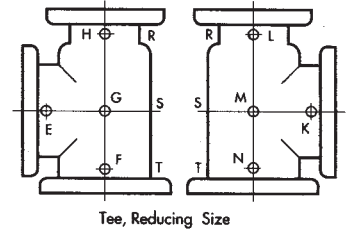
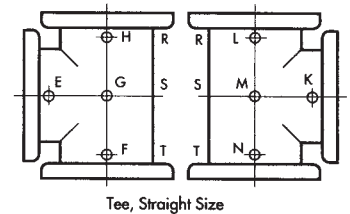
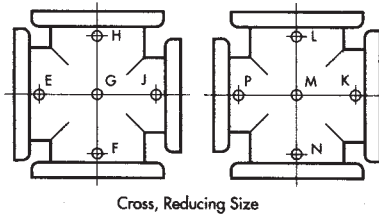
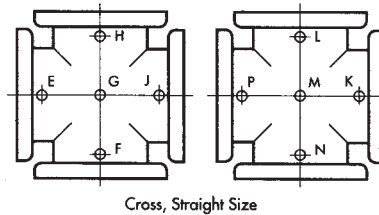
### LOCATION OF TAPPED HOLES FOR DRAINS AWWA C110 Flanged Fittings

Fittings can be supplied with taps sized and located to ANSI B16.1 and MSS-SP-45. Specify fitting size, tap location by letter (refer to drawings) and tap size by NPT dimension, on order.

**NOTE:**  
A BOSS IS ALWAYS REQUIRED AT "Y" OR "V" ON STRAIGHT AND REDUCING SIZES OF 90-DEGREE ELBOWS, AND ON TAPERED SIDES OF REDUCERS.



Fitting Size	Maximum Tap Without Boss
3"	1/2"
4" - 6"	3/4"
8"	1-1/4"
10" - 16"	1-1/2"
18" - 30"	2"



### SPECIAL TAP PRICING POLICY

Special taps in fittings apply to C-110 Flanged Fittings only. Flanged Fittings that require a tapping boss will have a one time \$200.00 (net) set up charge per boss per position. Consult your Customer Service Representative for current special tap pricing and more details.