

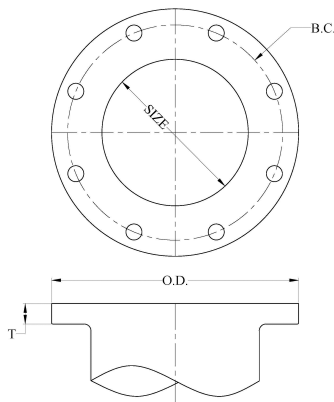
☐ DOMESTIC

☐ NON-DOMESTIC

SUBMITTAL: C110 FLANGE JOINT CLASS 125 PRODUCT

(Current revisions for the noted Standards apply)

SIZES:	2" - 64" (Contact Tyler Union for 54" - 64" flange fitting information)
STANDARDS:	ANSI/AWWA C110/A21.10, NFPA 13/24, ASME B16.1, 3" - 12" UL listed and FM approved
MATERIAL:	Cast of ASTM A536 qualified ductile iron. Date code is cast on and required for traceability.
PRESSURE RATING:	*Flanged fittings *2" - 48" rated at 250 psi. 54" - 64" rated at 150psi. *Note: With rubber annular ring flange gasket, 2" - 24" flanged fittings can be rated at 350 psi.
DEFLECTION:	Deflection is "not" recommended for flange joint due to the rigidity of the joint.
NSF-61 & NSF372:	Meets all requirements including Annex G, Tyler Union's Underwriters Laboratory listing MH16439.
COATING:	Asphaltic or Primer per ANSI/AWWA C104/A21.4, Standard primer is Tnemec Pota Pox N140-1211. Contact Tyler Union for additional coating options.
CEMENT LINING:	Per ANSI/AWWA C104/A21.4, with double cement lining available upon request.
EPOXY COATING:	Fusion bonded epoxy per ANSI/AWWA C116/A21.16. Additional coatings available upon request.
BARE FITTINGS:	Available upon request.
FLANGES:	ANSI Class 125 per ASME B16.1 and ANSI/AWWA C111/A21.11. Bolt holes shall straddle the center line NOTE: Class 125 ASME B16.1 are not compatible with Class 250 Flanges NOTE: Class 250 ASME B16.1 fittings are available upon request.
FASTNERS:	High strength low alloy weathering steel per ANSI/AWWA C111/A21.11 and ASTM A242
INSTALLATION:	Install per AWWA C600/C651 using pipe conforming to ANSI/AWWA C151/A21.51.

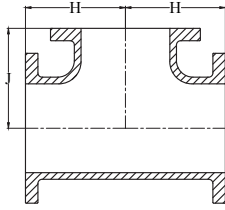


FLANGE DETAILS IN INCHES

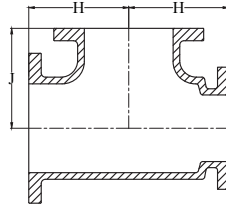
BOLTS

Size Inches	Diameter DI Pipe	Flange O.D.	B.C. Diameter	Flange Thickness T	Bolt Hole Diameter	Size	Qty
2	2.51	6.00	4.75	0.62	0.750	5/8 x 2-1/4	4
3	3.96	7.50	6.00	0.75	0.750	5/8 x 2-1/4	4
4	4.80	9.00	7.50	0.94	0.750	5/8 x 3	8
6	6.90	11.00	9.50	1.00	0.875	3/4 x 3-1/2	8
8	9.05	13.50	11.75	1.12	0.875	3/4 x 3-1/2	8
10	11.10	16.00	14.25	1.19	1.000	7/8 x 4	12
12	13.20	19.00	17.00	1.25	1.000	7/8 x 4	12
14	15.30	21.00	18.75	1.38	1.125	1 x 4-1/2	12
16	17.40	23.50	21.25	1.44	1.125	1 x 4-1/2	16
18	19.50	25.00	22.75	1.56	1.250	1-1/8 x 5	16
20	21.60	27.50	25.00	1.69	1.250	1-1/8 x 5	20
24	25.80	32.00	29.50	1.88	1.375	1-1/4 x 5-1/2	20
30	32.00	38.75	36.00	2.12	1.375	1-1/4 x 5-1/2	28
36	38.30	46.00	42.75	2.38	1.625	1-1/2 x 7	32
42	44.50	53.00	49.50	2.62	1.625	1-1/2 x 7-1/2	36
48	50.80	59.50	56.00	2.75	1.625	1-1/2 x 8	44
54	Available on Request						
60	Available on Request						
64	Available on Request						

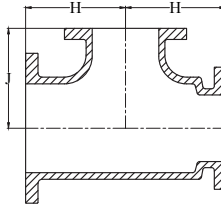
C110 DUCTILE IRON FULL BODY FITTINGS



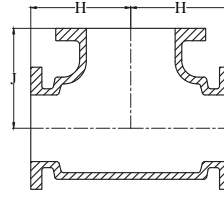
Straight Tees, Reducing on Branch Tees



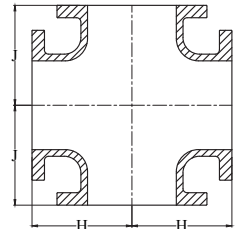
*Reducing on Run



*Reducing on Run and Branch



*Bullhead Tees



Straight and Reducing Crosses

TEES AND CROSSES								
Sizes					Domestic Weight		Import Weight	
Run	Run	Branch	H	J	Tee	Cross	Tee	Cross
12	12	4	12.00	12.00	322	310	290	—
12	12	6	12.00	12.00	297	326	295	—
12	12	8	12.00	12.00	346	351	310	—
12	12	10	12.00	12.00	394	415	360	—
12	12	12	12.00	12.00	369	438	385	—
*14	14	4	14.00	14.00	410	—	—	—
14	14	6	14.00	14.00	420	450	375	—
14	14	8	14.00	14.00	435	475	390	—
14	14	10	14.00	14.00	450	—	400	—
14	14	12	14.00	14.00	470	555	425	—
*14	14	14	14.00	14.00	500	595	435	—
*16	*14	4	15.00	15.00	525	—	—	—
16	*16	6	15.00	15.00	573	565	465	490
16	16	8	15.00	15.00	555	590	475	520
16	16	10	15.00	15.00	565	620	495	555
16	16	12	15.00	15.00	590	665	520	605
16	16	14	15.00	15.00	610	—	530	620
16	16	16	15.00	15.00	635	755	550	665
18	18	6	13.00	15.50	780	—	480	505
18	18	8	13.00	15.50	609	—	495	535
18	18	10	13.00	15.50	585	—	510	560
18	18	12	13.00	15.50	638	706	535	610
18	18	14	16.50	16.50	808	—	630	720
18	18	16	16.50	16.50	760	—	650	765
18	18	18	16.50	16.50	865	915	665	795
20	20	6	14.00	17.00	773	—	610	635
20	20	8	14.00	17.00	720	—	620	665
20	20	10	14.00	17.00	735	—	635	685
20	20	12	14.00	17.00	816	820	660	735
20	20	14	14.00	17.00	770	—	665	745
20	20	16	18.00	18.00	950	1065	810	915
20	20	18	18.00	18.00	965	—	820	945
20	20	20	18.00	18.00	1005	1175	855	1015
24	24	6	15.00	19.00	1089	—	845	875
24	24	8	15.00	19.00	1060	—	860	895
24	24	10	15.00	19.00	1020	—	88	930
24	24	12	15.00	19.00	1125	1100	890	960
24	24	14	15.00	19.00	1050	1125	900	975
24	24	16	15.00	19.00	1070	1160	915	1010
24	24	18	22.00	22.00	1534	—	1220	1365
24	24	20	22.00	22.00	1510	1695	1255	1430
24	24	24	22.00	22.00	1685	1850	1330	1570

* Not included in AWWA C110.