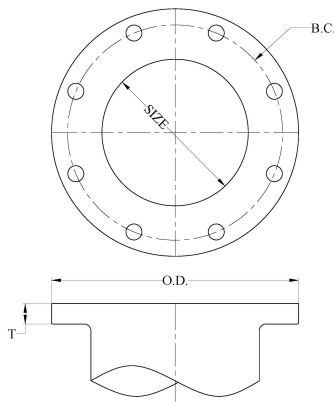


SUBMITTAL: C110 FLANGE JOINT CLASS 125 PRODUCT

(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.

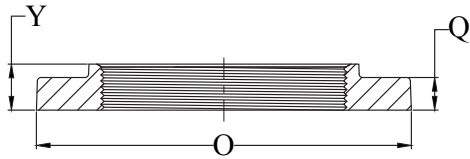


FLANGE DETAILS IN INCHES

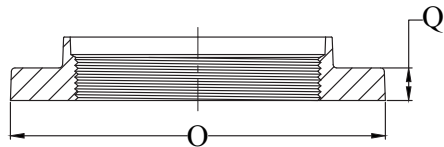
BOLTS

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						

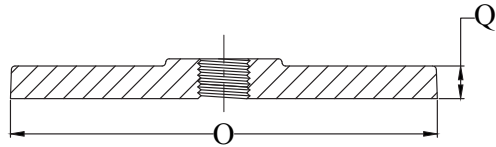
C110 DUCTILE IRON FULL BODY FITTINGS



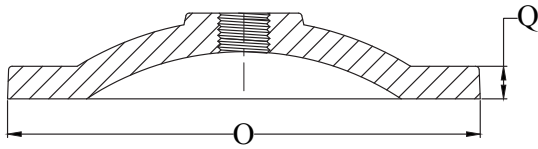
Flange for Steel Pipe
Reducing Flange for Steel Pipe



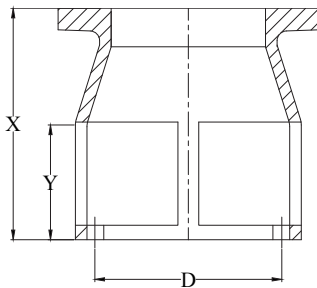
Flange for DI Pipe
Reducing Flange for DI Pipe



Under 12" Blind Flange
with Optional 2" Tap



12" and Larger Blind Flange
with Optional 2" Tap



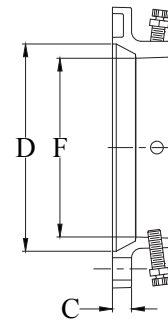
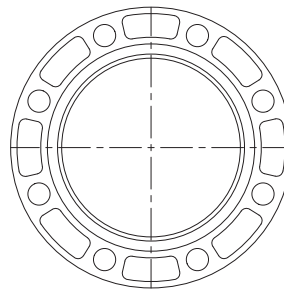
*FLANGE SLUDGE SHOE				
Size	D	X	Y	Domestic Weight
3	5.75	12.00	6.00	28
4	7.00	12.00	6.00	35
6	7.87	12.00	6.00	45
8	10.12	12.00	6.00	69
10	12.25	12.00	6.00	88
12	15.25	12.00	6.00	120

*Not included in AWWA C110.

FLANGES										
Sizes					Domestic Weight	Import Weight	Domestic Weight	Import Weight	Domestic Weight	Import Weight
Size	O	Q	Y	Z	Steel	Steel	DI	DI	Blind	Blind
2	6.00	0.62	1.00	4.75	4	—	—	—	—	—
2½	7.00	0.69	1.13	5.50	6	—	—	—	—	—
3	7.50	0.75	1.19	6.00	9	—	6	7	8	9
4	9.00	0.94	1.31	7.50	15	—	13	12	14	16
6	11.00	1.00	1.56	9.50	20	—	19	17	27	25
8	13.50	1.12	1.75	11.75	31	—	29	26	38	38
10	16.00	1.19	1.94	14.25	50	—	36	38	55	66
12	19.00	1.25	2.19	—	63	—	61	57	73	85
14	21.00	1.38	2.25	—	—	—	59	61	116	120
16	23.50	1.44	2.50	—	—	—	78	83	153	145
18	25.00	1.56	2.69	—	—	—	98	98	176	179
20	27.50	1.69	2.88	—	—	—	103	110	215	244
24	32.00	1.88	3.25	—	—	—	147	145	348	364
30	38.75	2.12	—	—	—	—	255	212	615	546
36	46.00	2.38	—	—	—	—	360	324	900	958
42	53.00	2.62	—	—	—	—	535	533	1300	1300
48	59.50	2.75	—	—	—	—	650	646	1620	1740

DI REDUCING FLANGE THREADED FOR STEEL PIPE		
Size	Tap x O.D.	Domestic weight
4x3	3x9	16
6x4	4x11	25
8x4	4x13.5	44
8x6	6x13.5	31
10x6	6x16	50
12x6	6x19	60
10x8	8x16	55
12x10	10x19	72

DI REDUCING FLANGE THREADED FOR DUCTILE IRON PIPE		
Size	Tap x O.D.	Weight
4x3	3x9	16
6x4	4x11	25
8x4	4x13.5	40
8x6	6x13.5	35
10x8	8x16	50
12x8	8x19	85



ADAPTER FLANGE									
Size	Rated Working Pressure	No. of Set Screws	Bolt Circle	Ductile Iron Pipe OD +.06 or -.06	D +.06 -.04	F +.07 -.03	C	Domestic Weight	Import Weight
3.00	250	4	6.00	3.96	4.94	4.06	0.94	7	6.5
4.00	250	4	7.50	4.80	6.02	4.90	1.00	8	8
6.00	250	8	9.50	6.90	8.12	7.00	1.06	12	12
8.00	250	8	11.75	9.05	10.27	9.15	1.12	18	18
10.00	250	12	14.25	11.10	12.34	11.20	1.19	28	28
12.00	150	12	17.00	13.20	14.44	13.30	1.25	40	34

All set screws are 5/8" 80lb. torque head.

Note: Recommended for class 53–class 56 wall thickness D.I. pipe.