

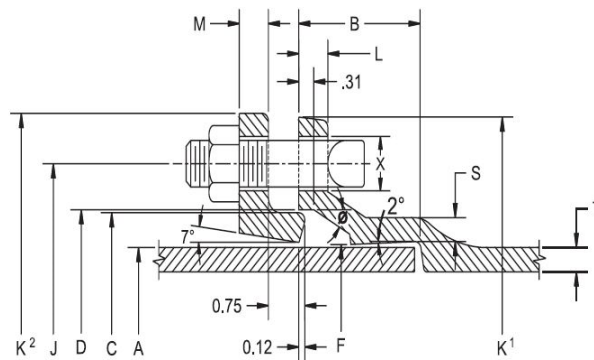
☐ DOMESTIC

☐ NON-DOMESTIC

SUBMITTAL: C153 MECHANICAL JOINT PRODUCT

(Current revisions for the noted Standards apply)

SIZES:	2" - 64" (2" not included in ANSI/AWWA C153 standard)
STANDARDS:	ANSI/AWWA C153/A21.53, NFPA13/24, 3"-16" UL and 3"-10" FM listed & approved (File - Tyler Union)
MATERIAL:	Cast of ASTM A536 qualified ductile iron. Date code is cast on and required for traceability.
PRESSURE RATING:	*Flanged fittings rated at 250 psi. Mechanical joints 2" – 24" rated at 350 psi and 30" – 48" at 250 psi. *Note: With rubber annular ring flange gasket, 2" – 24" Flanged fittings can be rated at 350 psi. Note: Wyes over 12" are not pressure rated. Contact Tyler Union for rating in your application.
DEFLECTION:	Joint deflection 5° max for 2"– 12" and 3° max for 14"– 48". Reduces by 50% at nominal pipe & fitting diameters
NSF-61 & NSF372:	Meets all requirements including Annex G, Tyler Union's Underwriters Laboratory listing MH16439.
ASPHALT COATING:	Per ANSI/AWWA C104/A21.4 and ANSI/AWWA C153/A21.53.
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.
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 or AWWA C900/905.

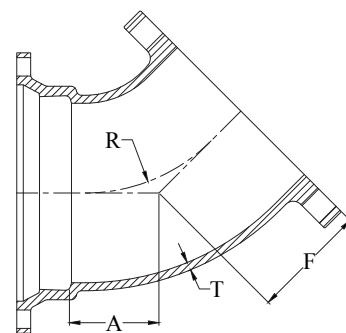
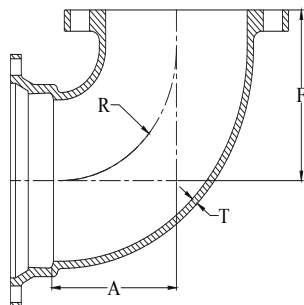


NOMINAL JOINT DIMENSIONS IN INCHES

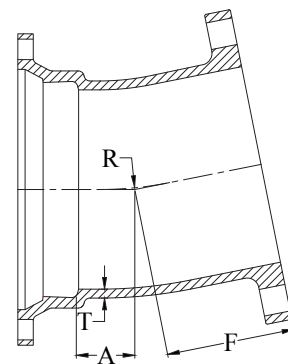
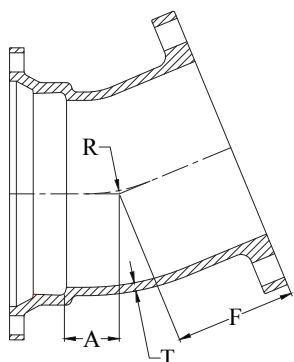
BOLTS

Size Inches	A Dia. DI Pipe	B Hub Depth	C Dia. GLAND	D Dia.	F Dia.	J Dia. GLAND	K' Dia.	K² Dia. GLAND	L	M GLAND	S	T	X	Size	Qty.
2	2.51	2.50	3.50	3.60	2.61	4.75	6.19	6.89	0.58	0.62	0.36	0.30	3/4	5/8x3	2
3	3.96	2.50	4.84	4.94	4.06	6.19	7.62	7.69	0.58	0.62	0.39	0.33	3/4	5/8x3	4
4	4.80	2.50	5.92	6.02	4.90	7.50	9.06	9.12	0.60	0.75	0.39	0.34	7/8	3/4x3-1/2	4
6	6.90	2.50	8.02	8.12	7.00	9.50	11.06	11.12	0.63	0.88	0.43	0.36	7/8	3/4x3-1/2	6
8	9.05	2.50	10.17	10.27	9.15	11.75	13.31	13.37	0.66	1.00	0.45	0.38	7/8	3/4x4	6
10	11.10	2.50	12.22	12.34	11.20	14.00	15.62	15.62	0.70	1.00	0.47	0.40	7/8	3/4x4	8
12	13.20	2.50	14.32	14.44	13.30	16.25	17.88	17.88	0.73	1.00	0.49	0.42	7/8	3/4x4	8
14	15.30	3.50	16.40	16.54	15.44	18.75	20.31	20.25	0.79	1.25	0.55	0.47	7/8	3/4x4-1/2	10
16	17.40	3.50	18.50	18.64	17.54	21.00	22.56	22.50	0.85	1.31	0.58	0.50	7/8	3/4x4-1/2	12
18	19.50	3.50	20.60	20.74	19.64	23.25	24.83	24.75	1.00	1.38	0.68	0.54	7/8	3/4x4-1/2	12
20	21.60	3.50	22.70	22.84	21.74	25.50	27.08	27.00	1.02	1.44	0.69	0.57	7/8	3/4x4-1/2	14
24	25.80	3.50	26.90	27.04	25.94	30.00	31.58	31.50	1.02	1.56	0.75	0.61	7/8	3/4x5	16
30	32.00	4.50	33.29	33.46	32.17	36.88	39.12	39.12	1.31	2.00	0.82	0.66	1-1/8	1x6	20
36	38.30	4.50	39.59	39.76	38.47	43.75	46.00	46.00	1.45	2.00	1.00	0.74	1-1/8	1x6	24
42	44.50	4.50	45.79	45.96	44.67	50.62	53.12	53.12	1.45	2.00	1.25	0.82	1-3/8	1-1/4x6-1/2	28
48	50.80	4.50	52.09	52.26	50.97	57.50	60.00	60.00	1.45	2.00	1.35	0.90	1-3/8	1-1/4x6-1/2	32
54	Available on Request														
60	Available on Request														
64	Available on Request														

C153 DUCTILE IRON COMPACT FITTINGS



90° Bend MJ x FE (1/4)										45° Bends MJ x FE (1/8)							
Domestic						Import				Domestic				Import			
Size	T	A	R	F	Weight	T	A	F	Weight	A	F	R	Weight	A	F	Weight	
3	0.34	3.50	2.50	5.50	21	0.34	4.00	5.50	21	—	—	—	—	—	—	—	
4	0.35	4.00	3.00	6.50	33	0.35	4.50	6.50	36	2.50	4.00	3.56	34	2.50	4.00	24	
6	0.37	6.00	5.00	8.00	49	0.37	6.00	8.00	51	3.25	5.00	5.49	39	3.25	5.00	37	
8	0.39	7.50	7.00	9.00	67	0.39	7.00	9.00	83	4.25	5.50	7.93	54	3.75	5.50	71	
10	0.41	9.50	9.00	11.00	106	0.41	7.50	11.00	109	5.00	6.50	9.76	84	4.75	6.50	103	
12	0.43	10.50	10.00	12.00	148	0.43	9.25	12.00	150	6.00	7.50	12.19	112	5.75	7.50	151	
14	0.51	12.00	11.50	14.00	217	0.51	11.50	14.00	275	5.50	8.50	10.85	181	5.00	7.50	207	
16	0.52	13.00	12.50	15.00	297	0.52	12.50	15.00	335	5.50	9.00	10.42	218	5.75	8.00	311	
18	0.59	13.00	19.00	12.50	—	0.54	14.50	16.50	—	6.50	10.00	12.36	—	6.50	8.50	—	
20	0.60	15.00	23.00	18.50	—	0.57	15.00	18.00	—	7.00	10.50	13.59	—	7.50	9.50	—	
24	0.62	17.00	25.00	20.50	—	0.62	16.75	22.00	618	7.50	11.00	14.89	—	8.00	11.00	575	
30	0.68	21.50	30.50	26.00	—	0.68	21.50	26.00	1014	10.50	15.00	9.31	—	10.50	15.00	794	



22 1/2° Bend MJ x FE (1/16)								11 1/4° Bends MJ x FE (1/32)						
Domestic					Import			Domestic				Import		
Size	A	F	R	Weight	A	F	Weight	A	F	R	Weight	A	F	Weight
3	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	1.75	4.00	3.81	21	1.50	7.00	32	1.50	7.00	5.12	20	1.50	4.00	28
6	2.25	5.00	5.35	32	2.00	7.50	41	1.50	7.00	5.12	29	1.75	5.00	40
8	2.84	5.50	7.62	46	2.50	8.00	64	2.05	7.55	15.80	42	2.00	5.50	53
10	3.35	6.50	10.16	78	3.00	8.50	92	2.31	7.81	18.36	58	2.25	6.50	88
12	3.50	7.50	12.70	106	3.50	9.00	132	2.56	8.06	20.90	85	2.50	7.50	114
14	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18	4.50	15.11	8.00	—	—	—	—	3.00	6.50	16.52	—	—	—	—
20	4.50	15.07	8.00	—	—	—	—	3.00	6.50	15.23	—	—	—	—
24	4.50	15.51	8.00	—	—	—	—	3.00	6.50	16.10	—	—	—	—
30	6.75	21.36	11.25	—	—	—	—	4.75	7.25	22.84	—	—	—	—