

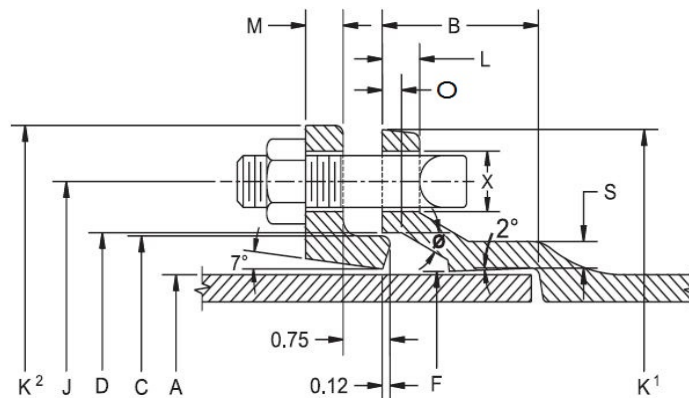
☐ DOMESTIC

☐ NON-DOMESTIC

SUBMITTAL: C110 MECHANICAL JOINT PRODUCT

(Current revisions for the noted Standards apply)

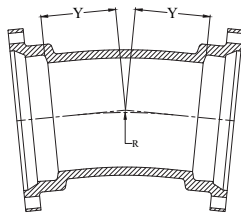
SIZES:	2" - 48"
STANDARDS:	ANSI/AWWA C110/A21.10, NFPA 13/24, 3" - 12" UL listed and approved (File - Tyler Union)
MATERIAL:	Cast of ASTM A536 qualified ductile iron. Date code is cast on and required for traceability.
PRESSURE RATING:	*Flanged fittings rated at 250 psi. Mechanical joints 2" - 24" rated 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 C110/A21.10.
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.



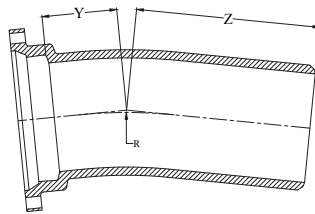
NOMINAL JOINT DIMENSIONS IN INCHES

Size Inches	A Dia. DI Pipe	B Hub Depth	C Dia. GLAND	D Dia.	F Dia.	Ø	X	J Dia. GLAND	K ¹ Dia.	K ² Dia. GLAND	L	M GLAND	O	S	Qty. BOLTS
2	2.51	2.50	3.39	3.50	2.61	28°	3/4	4.75	6.25	6.25	0.73	0.62	0.31	0.44	2
3	3.96	2.50	4.84	4.94	4.06	28°	3/4	6.19	7.69	7.69	0.94	0.62	0.31	0.52	4
4	4.80	2.50	5.92	6.02	4.90	28°	7/8	7.50	9.12	9.12	1.00	0.75	0.31	0.65	4
6	6.90	2.50	8.02	8.12	7.00	28°	7/8	9.50	11.12	11.12	1.06	0.88	0.31	0.70	6
8	9.05	2.50	10.17	10.27	9.15	28°	7/8	11.75	13.37	13.37	1.12	1.00	0.31	0.75	6
10	11.10	2.50	12.22	12.34	11.20	28°	7/8	14.00	15.69	15.62	1.19	1.00	0.31	0.80	8
12	13.20	2.50	14.32	14.44	13.30	28°	7/8	16.25	17.94	17.88	1.25	1.00	0.31	0.85	8
14	15.30	3.50	16.40	16.54	15.44	28°	7/8	18.75	20.31	20.25	1.31	1.25	0.31	0.89	10
16	17.40	3.50	18.50	18.64	17.54	28°	7/8	21.00	22.56	22.50	1.38	1.31	0.31	0.97	12
18	19.50	3.50	20.60	20.74	19.64	28°	7/8	23.25	24.83	24.75	1.44	1.38	0.31	1.05	12
20	21.60	3.50	22.70	22.84	21.74	28°	7/8	25.50	27.08	27.00	1.56	1.44	0.31	1.12	14
24	25.80	3.50	26.90	27.04	25.94	28°	7/8	30.00	31.58	31.50	1.62	1.56	0.31	1.22	16
30	32.00	4.00	33.29	33.46	32.17	20°	1-1/8	36.88	39.12	39.12	1.81	2.00	0.38	1.50	20
36	38.30	4.00	39.59	39.76	38.47	20°	1-1/8	43.75	46.00	46.00	2.00	2.00	0.38	1.80	24
42	44.50	4.00	45.79	45.96	44.67	20°	1-3/8	50.62	53.12	53.12	2.00	2.00	0.38	1.95	28
48	50.80	4.00	52.09	52.26	50.97	20°	1-3/8	57.50	60.00	60.00	2.00	2.00	0.38	2.20	32

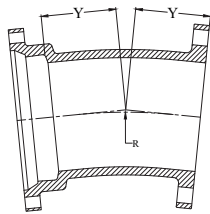
C110 DUCTILE IRON FULL BODY FITTINGS



11 1/4° (1/32) MJ



11 1/4° (1/32) MJxPE



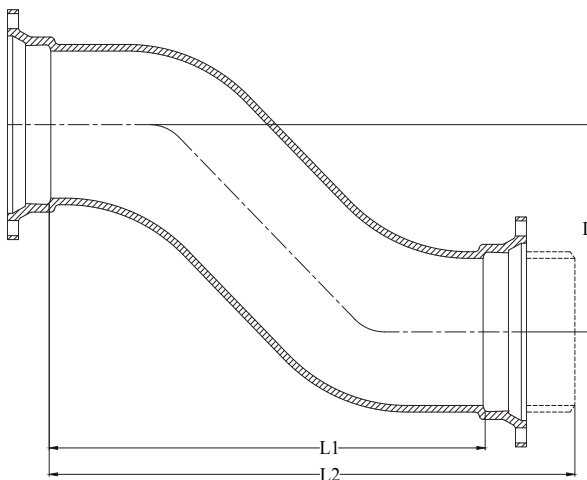
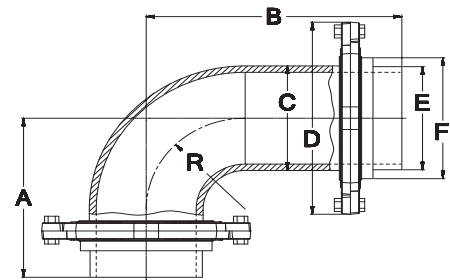
11 1/4° (1/32) MJxFE

11 1/4° (1/32) BENDS								
Domestic							Import	
Size	R	Y	Z	Weight			Weight	
				MJ	MJxFE	MJxPE	MJ	MJxPE
3	15.25	3.00	11.00	30	—	—	29	—
4	20.31	4.00	12.00	52	—	45	51	—
6	30.50	5.00	13.00	65	71	70	75	—
8	35.50	5.50	13.50	104	105	105	108	105
10	45.69	6.50	14.50	171	—	—	160	—
12	55.81	7.50	15.50	221	215	—	220	—
14	50.75	7.50	15.50	305	—	—	275	—
16	55.81	8.00	16.00	405	345	—	345	—
18	60.94	8.50	16.50	525	422	—	450	—
20	71.06	9.50	17.50	644	—	—	540	—
24	76.12	11.00	19.00	996	800	972	762	730
30	116.75	15.00	23.00	1410	—	1305	1407	1305
36	147.25	18.00	26.00	2397	—	2185	2161	1980
42	177.69	21.00	—	3035	—	—	3740	—
48	208.12	24.00	—	4190	—	—	4190	—

90° (1/4) SWIVEL X SWIVEL BENDS									
Size	Wall Thickness	A	B	C	D	E	F	R	*Weight
6	0.55	10.50	15.50	7.10	11.12	6.90	8.02	6.00	106
8	0.60	11.50	16.50	9.20	13.37	9.05	10.17	7.00	156

NOTE: Includes 2 swivel glands.

*Not included in AWWA C110.



OFFSETS					
Size	D	L	L2	Weight	
				MJ X MJ	MJ X PE
4	6.00	19.00	27.00	—	82
4	12.00	22.00	30.00	85	80
4	18.00	30.00	38.00	105	—
4	24.00	26.00	34.00	126	125
6	6.00	20.00	28.00	114	105
6	12.00	26.00	34.00	148	143
6	18.00	33.00	41.00	188	176
6	24.00	24.00	32.00	182	160
8	6.00	21.00	29.00	177	155
8	12.00	28.00	36.00	231	195
8	18.00	35.00	43.00	287	282
8	24.00	36.00	44.00	280	285
10	12.00	30.00	38.00	347	280
10	18.00	38.00	46.00	340	340
10	24.00	38.00	46.00	420	—
12	12.00	37.00	45.00	420	420
12	18.00	48.00	56.00	520	520
12	24.00	48.00	56.00	649	630
16	12.00	40.00	48.00	715	—
16	18.00	50.00	58.00	850	830
20	12.00	40.00	48.00	1025	—
20	18.00	48.00	60.00	1362	—

Tyler Union does not recommend the use of wedge action restraints on plain end fittings