



MECHANICAL JOINT C153 DUCTILE IRON COMPACT FITTINGS

Sizes 3"-12" UL & 3"-10" FM Listed
For Fire Main Equipment

SAMPLE SPECIFICATIONS (Current ANSI/AWWA revisions apply)

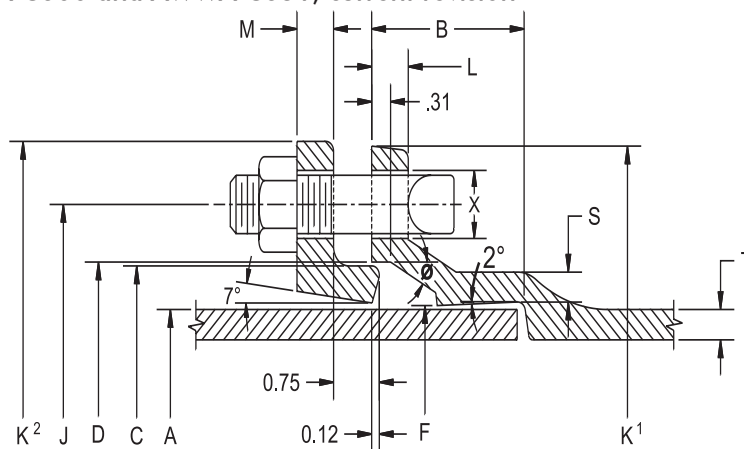
Mechanical joint watermain fittings with accessories, 2" through 64" shall be manufactured from ductile iron in accordance with and meet all applicable terms and provisions of standards ANSI/AWWA C153/A21.53 and ANSI/AWWA C111/A21.11. Ductile iron mechanical joint fittings 2" through 24" shall be rated for 350 PSI working pressure. Ductile iron 30" through 48" shall be rated for 250 psi working pressure. Flanged ductile iron fittings in 24" (610 mm) and smaller sizes may be rated for 350 psi (2,413 kPa) with the use of special (annular ring or comparable) gaskets. All coated and lined fittings meet requirements of NSF-61, NSF-372, and Annex G.

NOTE - EXCEPTIONS: Mechanical joint fittings with flanged branches are rated for water pressure of 250 PSI.

NOTE - Wyes over 12" are not pressure rated. Contact manufacturer for rating in your application.

NOTE - Fittings are cement lined and seal coated in accordance with ANSI/AWWA C104/A21.4. Fittings are available double cement-lined, bare, or epoxy coated upon request. Epoxy coating per ANSI/AWWA C116

NOTE - Installation per AWWA C600 and AWWA C651, current revision



NOMINAL JOINT DIMENSIONS IN INCHES

BOLTS

Size	A Dia.	B	C Dia.	D Dia.	F Dia.	J Dia.	K ¹ Dia.	K ² Dia.	L	M	S	T	X	Size	No.
2	2.51	2.50	3.50	3.60	2.61	4.75	6.19	6.89	.58	.62	.36	.30	3/4	5/8x3	2
3	3.96	2.50	4.84	4.94	4.06	6.19	7.62	7.69	.58	.62	.39	.33	3/4	5/8x3	4
4	4.80	2.50	5.92	6.02	4.90	7.50	9.06	9.12	.60	.75	.39	.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	.63	.88	.43	.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	.66	1.00	.45	.38	7/8	3/4x4	6
10	11.10	2.50	12.22	12.34	11.20	14.00	15.62	15.62	.70	1.00	.47	.40	7/8	3/4x4	8
12	13.20	2.50	14.32	14.44	13.30	16.25	17.88	17.88	.73	1.00	.49	.42	7/8	3/4x4	8
14	15.30	3.50	16.40	16.54	15.44	18.75	20.31	20.25	.79	1.25	.55	.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	.85	1.31	.58	.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	.68	.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	.69	.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	.75	.61	7/8	3/4x5	16
30	32.00	4.00	33.29	33.46	32.17	36.88	39.12	39.12	1.31	2.00	.82	.66	1 1/8	1x6	20
36	38.30	4.00	39.59	39.76	38.47	43.75	46.00	46.00	1.45	2.00	1.00	.74	1 1/8	1x6	24
42	44.50	4.00	45.79	45.96	44.67	50.62	53.12	53.12	1.45	2.00	1.35	.82	1 3/8	1 1/4x6 1/2	28
48	50.80	4.00	52.09	52.26	50.97	57.50	60.00	60.00	1.45	2.00	1.35	.90	1 3/8	1 1/4x6 1/2	32

NOTE: 2 Inch MJ ASTM A536 ductile iron Compact fittings (2"-22.5 bend, 2"-45 bend, 2"-90 bend, 2"x12" solid sleeve, 2"x2" tee, 4"x2" tee, and 4"x2" reducer) are available. Contact Tyler Union for availability or additional product dimensions.

***NOTE:** Contact Tyler Union for 54"-64" product information.

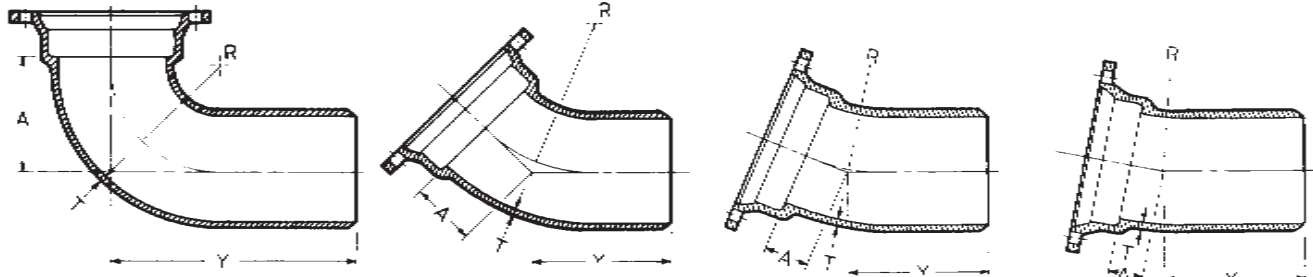
***NOTE:** For projects where product weights, specifications, or dimensions are critical, advise upon order placement.



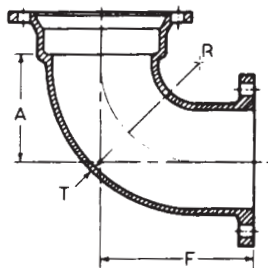
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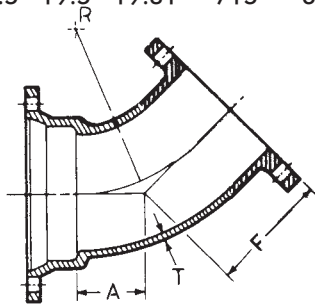
BENDS



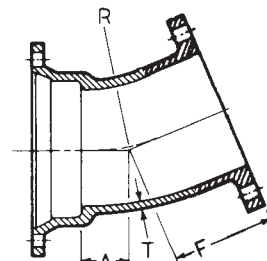
90° Bend MJ x PE (1/4)						45° Bend MJ x PE (1/8)				22½° Bend MJ x PE (1/16)				11¼° Bend MJ x PE (1/32)			
Size	T	Dimensions			Weight	Dimensions			Weight	Dimensions			Weight	Dimensions			Weight
		A	Y	R		A	Y	R		A	Y	R		A	Y	R	
3	.34	3.5	9.0	2.5	18	2.0	7.5	2.41	17	1.50	7.00	2.51	19	1.25	6.75	7.62	15
4	.35	4.0	9.5	3.0	26	2.5	8.0	3.56	22	1.75	7.25	3.81	20	1.50	7.00	5.12	20
6	.37	6.0	11.5	5.0	45	3.2	8.7	5.49	38	2.25	7.75	6.35	33	1.50	7.00	5.12	32
8	.39	7.5	13.0	7.0	64	4.0	9.5	8.44	55	2.84	8.34	11.80	51	2.05	7.55	15.80	44
10	.41	9.5	15.0	9.0	108	5.0	10.5	10.88	78	3.35	8.85	14.35	66	2.31	7.81	18.36	60
12	.43	9.0	14.4	6.0	114	6.0	11.5	13.25	104	3.50	9.00	12.70	89	2.56	8.06	20.90	79
14	.51	12.0	20.0	11.5	219	5.5	13.4	10.85	165	3.93	11.93	17.25	152	2.59	10.59	21.25	137
16	.52	13.0	21.0	12.5	254	6.0	14.0	13.25	206	3.98	11.98	17.50	181	2.62	10.62	21.50	161
20	.57	15.0	23.0	13.5	400	7.0	15.3	13.97	290	7.00	14.00	35.19	290	7.00	14.00	21.07	290
24	.62	17.0	25.0	15.5	710	7.5	16.6	14.69	460	9.00	17.66	37.69	455	9.00	26.12	12.00	475
30	.68	21.5	30.5	19.0	865	10.5	19.5	19.31	715	6.75	15.75	21.36	600	4.75	13.75	22.84	535



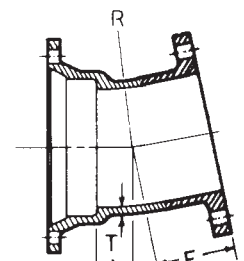
90° Bend MJ x Flange
(1/4)



45° Bend MJ x Flange
(1/8)



22 1/2° Bend MJ x Flange
(1/16)



11 1/4° Bend MJ x Flange
(1/32)

90° Bend MJ x Flange (1/4)						45° Bend MJ x Flange (1/8)						22 1/2° Bend MJ x Flange (1/16)						11 1/4° Bend MJ x Flange (1/32)					
Size	T	Dimensions		F	Weight	Dimensions		F	Weight	Dimensions		F	Weight	Dimensions		F	Weight						
		A	R			A	R			A	R			A	R								
3	.34	3.5	2.5	5.5	21	...	...	..	..	...	...	..	..	...	...	..	..						
4	.35	4.0	3.0	6.5	28	2.50	3.56	4.0	34	1.75	3.81	4.0	34	1.50	5.12	4.0	19						
6	.37	6.0	5.0	8.0	45	3.25	5.49	5.0	57	2.25	5.35	5.0	57	1.50	5.12	5.0	30						
8	.39	7.5	7.0	9.0	73	4.25	7.93	5.5	83	2.50	7.62	5.5	83	1.75	7.70	5.5	50						
10	.41	9.5	9.0	11.0	113	5.00	9.76	6.5	122	3.00	10.16	6.5	122	2.00	10.25	6.5	75						
12	.43	10.5	10.0	12.0	141	6.00	12.19	7.5	159	3.50	12.70	7.5	159	2.25	12.82	7.5	88						
14	.51	12.0	11.5	14.0	217	5.50	10.85	8.5	207														
16	.52	13.0	12.5	15.0	280	6.00	12.02	9.5	290														

90° Swivel x Swivel Hydrant Ell

Size	T	*A	*B	Dimensions		E	F	*R	
**Weight				C	D				
6	.37	10.5	15.5	6.90	11.2	6.81	7.98	6.0	74

** Weight includes two swivel glands.

