



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)

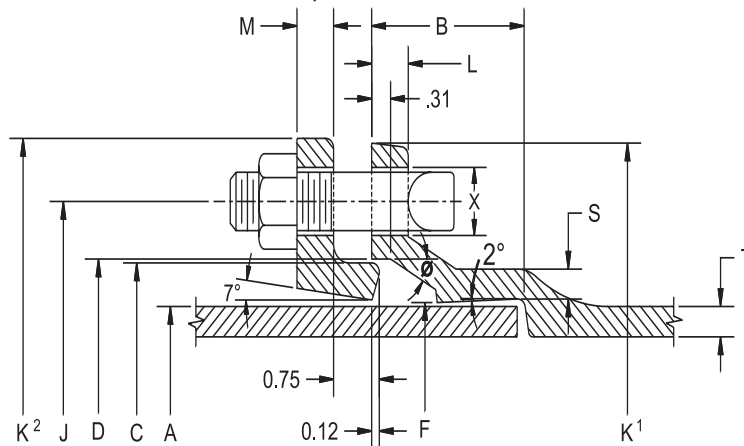
Mechanical joint watermain fittings with accessories, 2" through 64" shall be manufactured from ductile iron in accordance with and meet all applicable terms and provisions of standards ANSI/AWWA C153/A21.53 and ANSI/AWWA C111/A21.11. Ductile iron mechanical joint fittings 2" through 24" shall be rated 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 1/8	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 1/8	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.

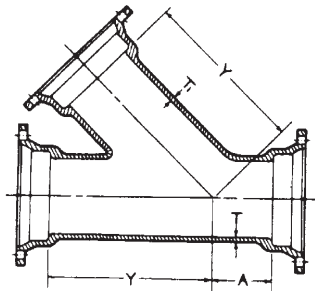
***NOTE:** For projects where product weights, specifications, or dimensions are critical, advise upon order placement.



MECHANICAL JOINT C153 DUCTILE IRON COMPACT FITTINGS

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WYES/LATERAL



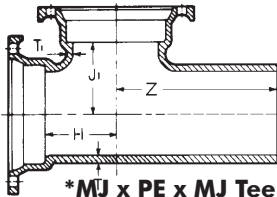
***Wyes**

Size	*A	Dimensions *Y	T	T ¹	Weights
3	2.5	7.5	.34	.34	36
4x3	2.0	8.5	.35	.34	39
4	2.5	8.5	.35	.35	45
6x4	1.5	11.0	.37	.35	67
6	3.0	13.0	.37	.37	85
8x4	0.5	13.0	.39	.35	86
8x6	2.0	14.5	.39	.37	109
8	3.5	16.0	.39	.39	117
10x4	0.0	15.0	.41	.35	112
10x6	1.0	16.0	.41	.37	129
10x8	2.5	17.0	.41	.39	162
10	3.5	19.0	.41	.41	199
12x4	0.0	16.5	.43	.35	141
12x6	1.5	18.5	.43	.37	170
12x8	1.5	18.5	.43	.39	177
12x10	3.0	20.0	.43	.41	216
12	4.5	22.5	.43	.43	269
†14	6.0	25.0	.51	.51	476
†16x6	0.0	21.0	.52	.45	300
†16x8	0.5	22.5	.52	.46	349
†16x12	3.5	25.0	.52	.48	471
†16	6.5	28.0	.52	.52	635

*Not in AWWAC153, "A" & "Y" are approximate dim.

† Rated at 250 psi.

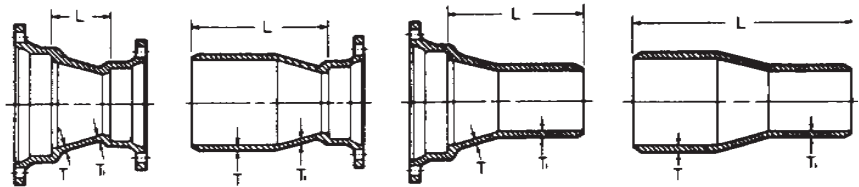
MJ x FE Flange Dimensions are on inside
front cover.



***MJ x PE x MJ Tee**

Size	T	T ¹	Dimensions *H	*J ¹	*Z	Weights
6	.37	.37	5.0	5.0	11.5	57
8x6	.39	.37	5.5	6.5	11.5	79
8	.39	.39	6.5	6.5	12.5	83
10	.41	.41	7.5	7.5	13.0	133

REDUCERS ("L" dimensions are approximate)



MJ x MJ

PExMJSEB

MJLEBxPE

PE x PE

Size	T	T ¹	MJ *L	Dimensions		PE *L	MJ	Weights		
				SEB *L	LEB *L			SEB	LEB	PE
4x3	.35	.34	3.0	8.5	8.5	14.0	18	17	17	18
6x3	.37	.34	5.0	10.5	10.5	16.0	28	25	27	20
6x4	.37	.35	4.0	9.5	9.5	15.0	28	26	27	26
8x4	.39	.35	5.0	10.5	10.5	16.0	36	34	36	33
8x6	.39	.37	4.0	9.5	9.5	15.0	39	38	39	30
10x4	.41	.35	7.0	12.5	12.5	18.0	53	46	51	...
10x6	.41	.37	5.0	10.5	10.5	16.0	59	48	52	49
10x8	.41	.39	4.0	9.5	9.5	15.0	54	52	52	47
12x4	.43	.35	9.0	14.5	14.5	20.0	67	61	68	60
12x6	.43	.37	7.0	12.5	12.5	18.0	64	58	66	54
12x8	.43	.39	5.0	10.5	10.5	16.0	57	62	65	60
12x10	.43	.41	4.0	9.5	9.5	15.0	63	61	65	57
14x6	.51	.44	9.0	17.0	14.5	22.5	104	107	112	...
14x8	.51	.45	7.0	15.0	12.5	20.5	104	107	108	...
14x10	.51	.46	5.0	13.0	10.5	18.5	100	102	100	...
14x12	.51	.47	4.0	12.0	9.5	17.5	100	101	100	100
16x6	.52	.45	11.0	19.0	16.5	24.5	132	131	141	128
16x8	.52	.46	9.0	17.0	14.5	22.5	136	128	136	136
16x10	.52	.47	7.0	15.0	12.5	20.5	128	124	128	123
16x12	.52	.48	5.0	13.0	10.5	18.5	120	123	119	113
16x14	.52	.51	4.0	12.0	12.0	20.0	140	139	138	133
18x8	.59	.45	14.0	22.0	19.5	27.5	201	180	195	...
18x10	.59	.47	12.0	20.0	17.5	25.5	196	180	185	...
18x12	.59	.49	10.0	18.0	15.5	23.5	175	170	190	...
18x14	.59	.56	8.0	16.0	16.0	24.0	180	181	200	...
18x16	.59	.57	7.0	15.0	15.0	23.0	194	180	190	...
20x10	.60	.47	14.0	22.0	19.4	27.5	225	210	210	...
20x12	.60	.49	12.0	20.0	17.5	25.5	214	208	210	...
20x14	.60	.56	10.0	18.0	17.8	26.0	208	198	205	...
20x16	.60	.57	8.0	16.0	15.8	24.0	225	215	222	...
20x18	.60	.59	7.0	15.0	15.0	23.0	233	220	...	...
24x12	.62	.49	16.0	24.0	21.4	29.5	320	302	300	...
24x14	.62	.56	14.0	22.0	21.8	30.0	314	325	322	...
24x16	.62	.57	12.0	20.0	19.8	28.0	325	319	340	...
24x18	.62	.59	10.0	18.0	18.0	26.0	325	310	...	...
24x20	.62	.60	8.0	16.0	16.0	24.0	315	305	...	...
30x16	.66	.50	30.0	39.0	...	...	475	565	...	...
30x18	.66	.54	28.0	37.0	...	...	495	590	...	...
30x20	.66	.57	24.0	33.0	...	...	525	560	...	...
30x24	.66	.61	10.0	24.5	...	...	478	495	...	...
36x16	.74	.50	30.0	...	...	...	789	890	...	...
36x20	.74	.57	36.0	45.0	...	...	970	874	...	...
36x24	.74	.61	19.0	33.0	...	...	770	746	...	...
36x30	.74	.66	15.5	24.5	...	...	838	725	...	...
42x30	.82	.74	20.0	...	...	...	1067	...	...	...
42x36	.82	.74	15.5	...	...	...	1116	...	...	...
48x30	.90	.66	40.0	...	...	...	1852	...	...	...
48x36	.90	.74	28.0	...	...	...	1632	...	...	...
48x42	.90	.82	15.5	...	...	...	1486	...	...	...