

C153 DUCTILE IRON COMPACT FITTINGS

SAMPLE SPECIFICATIONS

(Current ANSI/AWWA revisions apply)

Mechanical joint water main 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 4" (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.

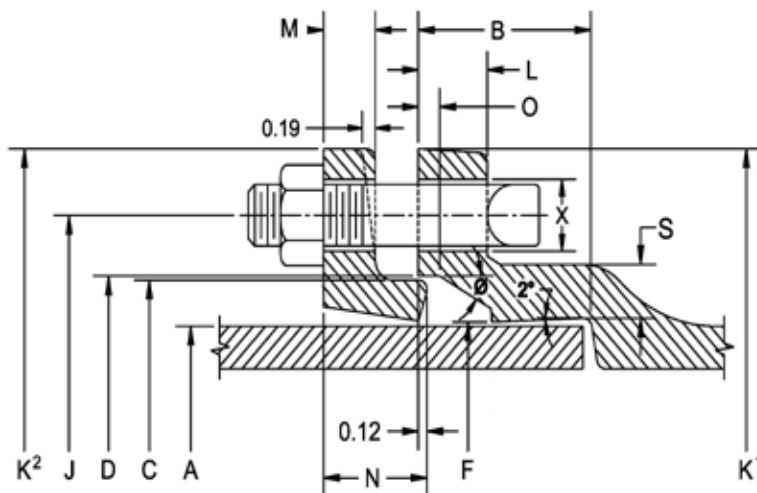
NOTE: Wyes over 12" are not pressure rated. Contact manufacturer for rating in your application.

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.

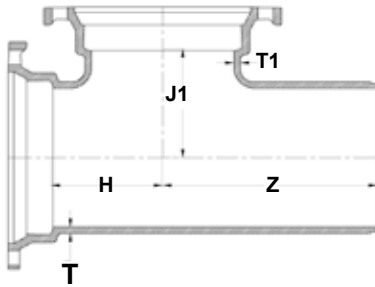
Nominal Joint Dimensions in Inches														
Size	A	B	C	D	F	ø	X	J	K1	K2	L	M	O	S
2	2.51	2.50	3.50	3.60	2.61	28°	3/4	4.75	6.19	6.89	0.58	0.62	0.31	0.36
3	3.96	2.50	4.84	4.94	4.06	28°	3/4	6.19	7.62	7.69	0.58	0.62	0.31	0.39
4	4.80	2.50	5.92	6.02	4.90	28°	7/8	7.50	9.06	9.12	0.60	0.75	0.31	0.39
6	6.90	2.50	8.02	8.12	7.00	28°	7/8	9.50	11.06	11.12	0.63	0.88	0.31	0.43
8	9.05	2.50	10.17	10.27	9.15	28°	7/8	11.75	13.31	13.37	0.66	1.00	0.31	0.45
10	11.10	2.50	12.22	12.34	11.20	28°	7/8	14.00	15.62	15.62	0.70	1.00	0.31	0.47
12	13.20	2.50	14.32	14.44	13.30	28°	7/8	16.25	17.88	17.88	0.73	1.00	0.31	0.49
14	15.30	3.50	16.40	16.54	15.44	28°	7/8	18.75	20.25	20.25	0.79	1.25	0.31	0.55
16	17.40	3.50	18.50	18.64	17.54	28°	7/8	21.00	22.50	22.50	0.85	1.31	0.31	0.58
18	19.50	3.50	20.60	20.74	19.64	28°	7/8	23.25	24.75	24.75	1.00	1.38	0.31	0.68
20	21.60	3.50	22.70	22.84	21.74	28°	7/8	25.50	27.00	27.00	1.02	1.44	0.31	0.69
24	25.80	3.50	26.90	27.04	25.94	28°	7/8	30.00	31.50	31.50	1.02	1.56	0.31	0.75
30	32.00	4.00	33.29	33.46	32.17	20°	1 1/8	36.88	39.12	39.12	1.31	2.00	0.38	0.82
36	38.30	4.00	39.59	39.76	38.47	20°	1 1/8	43.75	46.00	46.00	1.45	2.00	0.38	1.00
42	44.50	4.00	45.79	45.96	44.67	20°	1 3/8	50.62	53.12	53.12	1.45	2.00	0.38	1.35
48	50.80	4.00	52.09	52.26	50.97	20°	1 3/8	57.50	60.00	60.00	1.45	2.00	0.38	1.35
54	57.56	4.00	58.82	59.02	57.73	20°	1 3/8	63.20	65.70	65.70	1.55	2.00	0.38	1.45
60	61.61	4.00	62.87	63.07	61.78	20°	1 3/8	67.72	70.22	70.22	1.75	2.00	0.38	1.50
64	65.67	4.00	66.96	67.13	65.84	20°	1 3/8	71.86	74.36	74.36	1.75	2.00	0.38	1.50

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



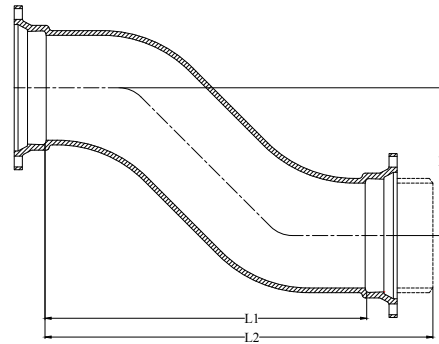
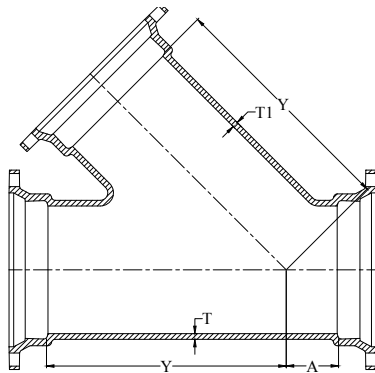
ANSI/AWWA
C153 Mechanical Joint Fittings

C153 DUCTILE IRON COMPACT FITTINGS



MJxPExMJ TEES												
Domestic							Import					
Size	T	T1	*H	*J1	*Z	Weight	T	T1	*H	*J1	*Z	Weight
6	0.37	0.37	5.00	5.00	11.50	57	0.37	0.37	8.00	8.00	16.00	57
8x6	0.39	0.37	5.50	6.50	11.50	79	0.39	0.37	9.00	9.00	17.00	79
8	0.39	0.39	6.50	6.50	12.50	81	0.38	0.38	9.00	9.00	17.00	77
10	0.41	0.41	7.50	7.50	13.00	133	0.40	0.40	11.00	11.00	19.00	120

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



WYES/LATERAL					
Size	*A	*Y	T	T1	Weights
3	2.50	7.50	0.34	0.34	36
4x3	2.00	8.50	0.35	0.34	39
4	2.50	8.50	0.35	0.35	45
6x4	1.50	11.00	0.37	0.35	67
6	3.00	13.00	0.37	0.37	85
8x4	0.50	13.00	0.39	0.35	86
8x6	2.00	14.50	0.39	0.37	109
8	3.50	16.00	0.39	0.39	117
10x4	0.00	15.00	0.41	0.35	112
10x6	1.00	16.00	0.41	0.37	129
10x8	2.50	17.00	0.41	0.39	162
10	3.50	19.00	0.41	0.41	199
12x4	0.00	16.50	0.43	0.35	141
12x6	1.50	18.50	0.43	0.37	170
12x8	1.50	18.50	0.43	0.39	177
12x10	3.00	20.00	0.43	0.41	216
12	4.50	22.50	0.43	0.43	269
14	6.00	25.00	0.51	0.51	476
16x6	0.00	21.00	0.52	0.45	300
16x8	0.50	22.50	0.52	0.46	349
16x12	3.50	25.00	0.52	0.48	471
16	6.50	28.00	0.52	0.52	635

*Not in AWWA C153. "A" & "Y" are approximate dim.

OFFSETS (MJ x MJ) or (MJxPE)					
Import				Weights	
Size	D	L1	L2	MJ x MJ	MJ x PE
3	6.00	9.00	14.50	23	29
3	12.00	15.00	20.50	34	39
3	18.00	21.00	26.50	40	48
3	24.00	27.00	32.50	47	53
4	6.00	10.00	15.50	32	44
4	12.00	6.00	21.50	42	54
4	18.00	22.00	27.50	56	65
4	24.00	28.00	33.50	65	72
6	6.00	12.00	17.50	55	54
6	12.00	18.00	23.50	72	68
6	18.00	24.00	29.50	88	96
6	24.00	30.00	35.50	111	117
8	6.00	13.00	18.50	79	78
8	12.00	19.00	24.50	103	110
8	18.00	25.00	30.50	128	124
10	6.00	15.00	20.50	112	130
10	12.00	21.00	26.50	148	172
10	18.00	27.00	32.50	176	189
12	6.00	17.00	22.50	157	—
12	12.00	23.00	28.50	174	198
12	18.00	29.00	34.50	210	270
12	24.00	35.00	40.50	298	334
12	30.00	41.00	46.50	283	205