



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)

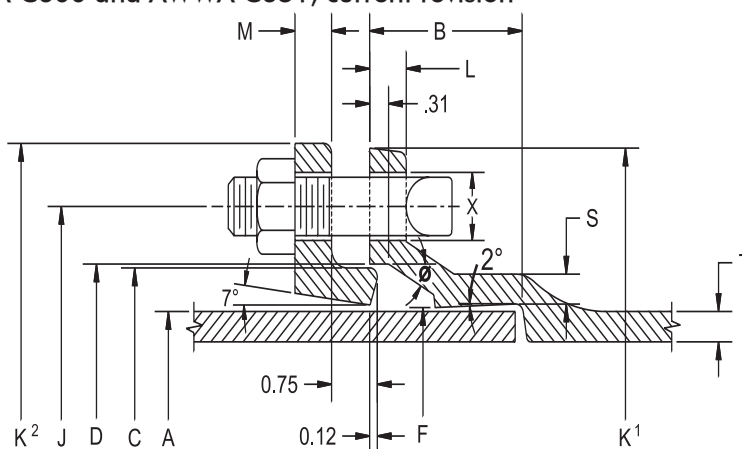
Mechanical joint watermain fittings with accessories, 2" through 64" shall be manufactured from ductile iron in accordance with and meet all applicable terms and provisions of standards ANSI/AWWA C153/A21.53 and ANSI/AWWA C111/A21.11. Ductile iron mechanical joint fittings 2" through 24" shall be rated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

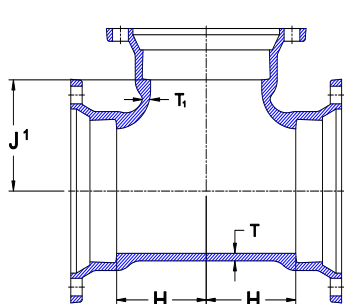
***NOTE:** For projects where product weights, specifications, or dimensions are critical, advise upon order placement.



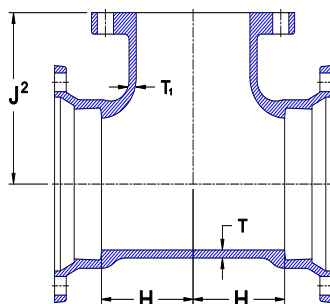
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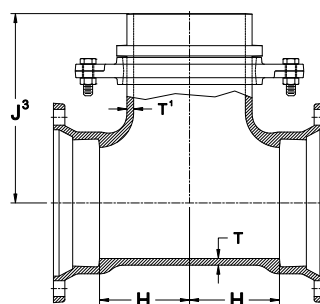
TEES



MJ Tee

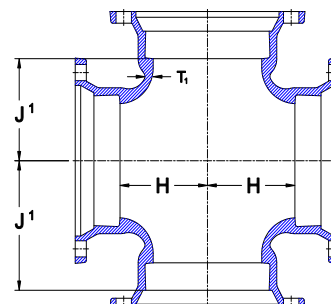


MJ x FE Tee



MJ x Swivel Tee

CROSS



Cross

Size	T	T ¹	*H	Dimensions *J ¹	*J ²	*J ³	MJ	Weights MJxFE	†MJxS	Cross
3	.34	.34	3.5	3.50	5.5	...	26	29	...	31
4x3	.35	.34	3.5	4.00	6.5	...	35	34	...	39
4	.35	.35	4.0	4.00	6.5	...	36	39	...	45
6x3	.37	.34	4.0	4.00	6.5	...	51	54	...	...
6x4	.37	.35	4.0	5.00	8.0	...	52	57	...	62
6	.37	.37	5.0	5.00	8.0	10.50	66	68	77	79
8x3	.39	.34	4.0	6.50	9.0	...	56	...	...	...
8x4	.39	.35	4.5	6.50	9.0	...	72	82	...	84
8x6	.39	.37	5.5	6.50	9.0	11.50	79	81	105	98
8	.39	.39	6.5	6.50	9.0	11.50	90	101	116	112
10x3	.41	.34	4.0	7.50	11.0	...	80	...	...	...
10x4	.41	.35	4.5	7.50	11.0	...	82	92	...	98
10x6	.41	.37	5.5	7.50	11.0	13.00	99	116	114	121
10x8	.41	.39	6.5	7.50	11.0	13.00	116	128	138	135
10	.41	.41	7.5	7.50	11.0	...	132	144	...	156
12x3	.43	.34	4.0	8.75	12.0	...	99	...	...	...
12x4	.43	.35	4.5	8.75	12.0	...	108	118	...	119
12x6	.43	.37	5.5	8.75	12.0	14.25	119	133	132	138
12x8	.43	.39	6.5	8.75	12.0	14.25	126	146	149	149
12x10	.43	.41	7.5	8.75	12.0	...	159	174	...	187
12	.43	.43	8.75	8.75	12.0	...	171	198	...	202
14x6	.51	.44	6.5	10.50	14.0	16.00	183	205	211	210
14x8	.51	.45	7.5	10.50	14.0	...	211	...	...	231
14x10	.51	.46	8.5	10.50	14.0	...	229	244	...	255
14x12	.51	.47	9.5	10.50	14.0	...	245	284	...	269
14	.51	.51	10.5	10.50	14.0	...	281	291	...	299
16x6	.52	.45	6.5	11.50	15.0	17.00	222	230	243	250
16x8	.52	.46	7.5	11.50	15.0	...	245	248	...	264
16x10	.52	.47	8.5	11.50	15.0	...	265	287	...	286
16x12	.52	.48	9.5	11.50	15.0	...	277	312	...	312
16x14	.52	.51	10.5	11.50	15.0	...	317	348	...	...
16	.52	.52	11.5	11.50	15.0	...	337	324	...	451
18x6	.59	.44	6.5	14.50	15.5	18.00	275	261	279	...
18x8	.59	.45	7.5	14.50	14.5	...	280	351	...	...
18x10	.59	.47	8.5	12.50	...	...	286	...	...	...
18x12	.59	.49	9.5	12.50	...	...	372	...	...	...
18x14	.59	.56	10.5	12.50	...	...	415	...	...	...
18x16	.59	.57	11.5	12.50	...	...	445	...	...	...
18x18	.59	.59	13.0	12.50	...	...	490	...	...	...

NOTE: Contact TU Inside Sales representative for MJ Crosses larger than 16 inch. †MJxSwl Weights include swivel gland.

**NOTE: 2"x2" and 4"x2" Compact C153 tees are available, contact Tyler Union for information.

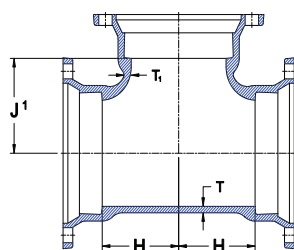


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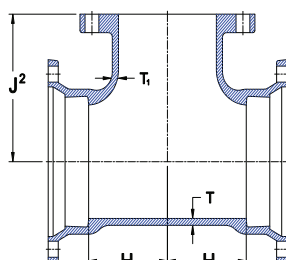
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TEES (Continued)

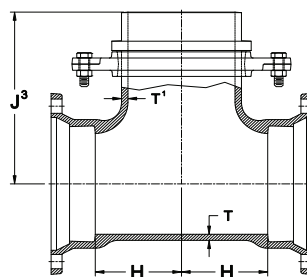
MJ GLANDS



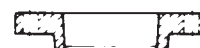
MJ Tee



MJ x FE Tee



MJ x Swivel Tee

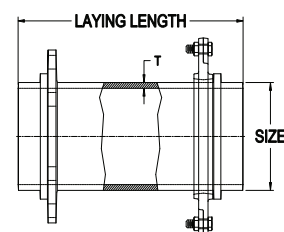


Glands

Size	Weight	Size	Weight
3	3	18	22
4	4	20	32
6	5	24	37
8	6	30	85
10	9	36	115
12	10	42	180
14	17	48	275
16	21		

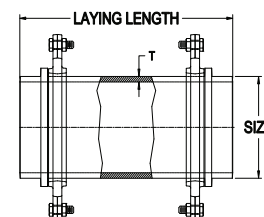
Swivel Glands, page 23
Retainer Glands, page 10

Size	T	T ¹	*H	Dimensions *J ¹	*J ²	*J ³	MJ	Weights MJxFE	†MJxS
20x6	.60	.44	6.50	14.00	17.0	19.5	335	362	358
20x8	.60	.45	8.00	14.00	...	...	390	...	...
20x10	.60	.47	9.00	14.00	...	...	417	...	...
20x12	.60	.49	10.00	14.00	...	...	460	...	...
20x14	.60	.56	11.00	14.00	...	...	475	...	...
20x16	.60	.57	12.00	14.00	...	...	530	...	...
20x18	.60	.59	13.00	14.00	...	...	560	...	...
20x20	.60	.60	14.00	14.00	...	...	605	...	...
24x6	.62	.44	7.00	16.00	19.0	21.5	465	451	457
24x8	.62	.45	8.00	16.00	...	...	475	...	...
24x10	.62	.47	9.00	16.00	...	...	516	...	...
24x12	.62	.49	10.00	16.00	...	...	549	580	...
24x14	.62	.56	11.00	16.00	...	...	585	...	...
24x16	.62	.57	12.00	16.00	...	...	625	744	...
24x18	.62	.59	13.00	16.00	...	...	675	...	...
24x20	.62	.60	14.00	16.00	...	...	740	...	...
24x24	.62	.62	16.00	16.00	...	...	844	...	...
30x6	.66	.36	8.00	20.00	...	...	700	...	...
30x8	.66	.38	8.50	20.00	...	...	739	...	...
30x12	.66	.42	10.00	20.00	...	...	739	...	...
30x16	.66	.50	12.50	20.00	...	...	959	...	...
30x18	.66	.52	13.00	20.00	...	...	975	...	...
30x20	.66	.57	15.00	20.00	...	...	995	...	...
30x24	.66	.61	16.00	20.00	...	...	1160	...	...
30x30	.66	.66	20.00	20.00	...	...	1323	...	...
36x12	.74	.50	10.00	23.50	...	...	1103	...	...
36x16	.74	.50	12.50	23.50	...	...	1350	...	...
36x24	.74	.61	16.00	23.50	...	...	1498	...	...
36x30	.74	.66	20.00	23.50	...	...	1555	...	...
36x36	.74	.74	23.50	23.50	...	...	1910	...	...
42x12	.82	.62	10.00	27.50	...	...	1410	...	...
42x24	.82	.62	20.00	27.50	...	...	2295	...	...
42x30	.82	.66	22.00	29.50	...	...	2337	...	...
42x36	.82	.74	30.00	30.00	...	...	3000	...	...
42x42	.82	.82	30.00	30.00	...	...	3169	...	...
48x12	.90	.62	9.00	32.00	...	...	2500	...	...
48x24	.90	.62	23.00	32.00	...	...	2822	...	...
48x36	.90	.82	33.50	33.25	...	...	3982	...	...
48x42	.90	.82	33.50	33.50	...	...	4100	...	...
48x48	.90	.82	33.50	33.50	...	...	4251	...	...



**Swivel x Solid Adapter
with Swivel Gland**

Size by Laying Length	Wall Thickness	Weight
6x13	.37	52
6x18	.37	65
6x24	.37	69
8x12	.39	52



Swivel x Swivel Adapter

Size by Laying Length	Wall Thickness	Weight
6x12	.37	28
6x18	.37	49
6x24	.37	52

†MJxSwivel Tee Weights include swivel gland