

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.

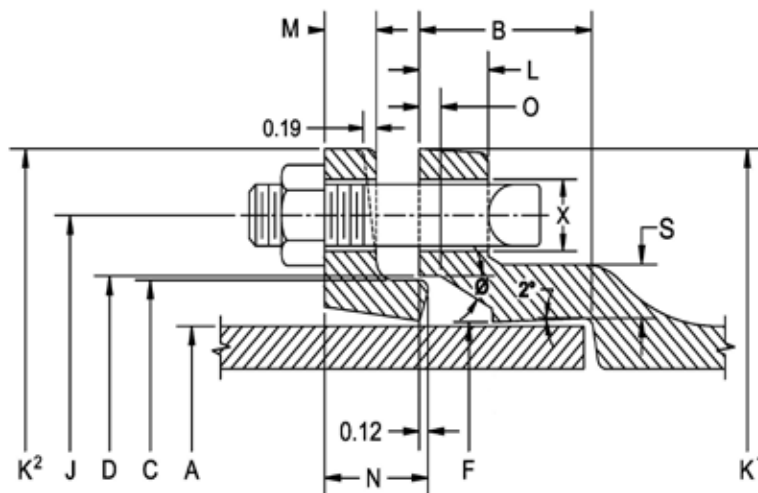
NOTE: Wyes over 12" are not pressure rated. Contact manufacturer for rating in your application.

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.

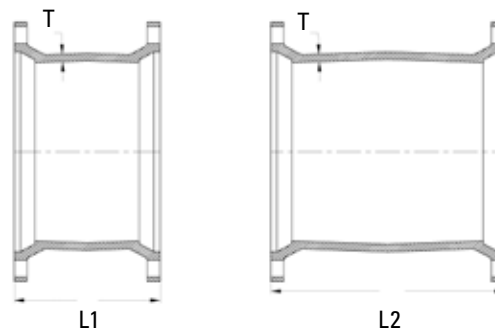
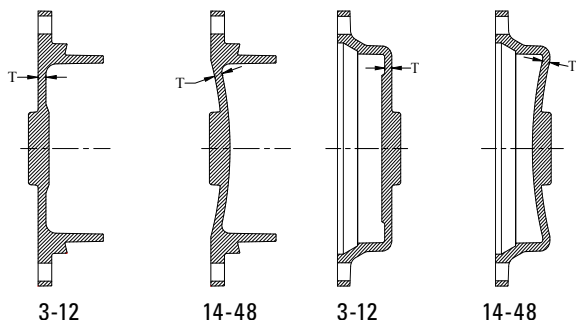
Nominal Joint Dimensions in Inches														
Size	A	B	C	D	F	ø	X	J	K1	K2	L	M	O	S
2	2.51	2.50	3.50	3.60	2.61	28°	3/4	4.75	6.19	6.89	0.58	0.62	0.31	0.36
3	3.96	2.50	4.84	4.94	4.06	28°	3/4	6.19	7.62	7.69	0.58	0.62	0.31	0.39
4	4.80	2.50	5.92	6.02	4.90	28°	7/8	7.50	9.06	9.12	0.60	0.75	0.31	0.39
6	6.90	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



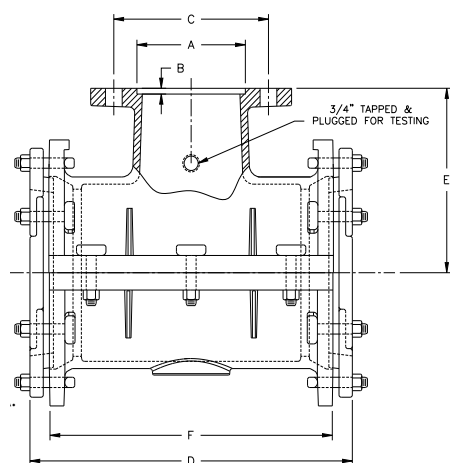
ANSI/AWWA
C153 Mechanical Joint Fittings

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SOLID & TAPPED PLUGS & CAPS								
Domestic					Import			
Size	T	Max. Tap	Weight		T	Weight		
			Plugs	Caps		Plugs	Caps	
3	0.46	2	9	8	0.33	8	8	
4	0.46	2	9	10	0.34	10	9	
6	0.46	2	13	18	0.36	16	15	
8	0.46	2	25	26	0.38	26	22	
10	0.56	2	36	32	0.40	36	32	
12	0.56	2	47	46	0.42	46	42	
14	0.62	2	76	85	0.47	75	66	
16	0.62	2	98	94	0.50	95	92	
18	0.65	2	138	121	0.54	121	114	
20	0.66	2	158	149	0.57	135	125	
24	0.68	2	202	232	0.61	296	198	
30	0.66	2	426	345	0.66	355	345	
36	0.74	2	560	626	0.74	688	628	
42	0.82	2	1091	723	0.82	—	—	
48	0.90	2	1455	974	0.90	—	—	

SOLID SLEEVES										
Domestic						Import				
Size	T	L1	L2	Weight		T	L1	L2	Weight	
				Short	Long				Short	Long
3	0.34	7.50	12.00	13	22	0.33	7.50	12.00	12	17
4	0.35	7.50	12.00	19	25	0.34	7.50	12.00	15	20
6	0.37	7.50	12.00	28	37	0.36	7.50	12.00	23	29
8	0.39	7.50	12.00	38	49	0.38	7.50	12.00	31	45
10	0.41	7.50	12.00	48	68	0.40	7.50	12.00	45	61
12	0.43	7.50	12.00	58	81	0.42	7.50	12.00	56	76
14	0.56	9.50	15.00	107	153	0.47	9.50	15.00	94	128
16	0.57	9.50	15.00	116	174	0.50	9.50	15.00	118	159
18	0.68	9.50	15.00	154	207	0.54	9.00	15.00	145	200
20	0.69	9.50	15.00	200	249	0.57	9.00	15.00	173	236
24	0.75	9.50	15.00	232	323	0.61	9.00	15.00	226	306
30	0.74	15.00	24.00	549	640	0.66	15.00	24.00	472	634
36	0.74	15.00	24.00	725	868	0.74	15.00	24.00	673	889
42	0.82	—	24.00	—	1146	0.82	15.00	24.00	887	1150
48	0.90	—	24.00	—	1431	0.90	15.00	24.00	1136	1435



TAPPING SLEEVE FOR CAST IRON/DUCTILE IRON										
Size	A	B	C	D	E	F	Min.	Max	Weight	
6X4	5.016	0.250	7.50	15.75	8.00	12.75	6.85	7.15	104	
6	7.016	0.312	9.50	15.75	8.00	12.75	6.85	7.15	108	
8X4	5.016	0.250	7.50	16.50	9.00	13.50	9.00	9.35	134	
8X6	7.016	0.312	9.50	16.50	9.00	13.50	9.00	9.35	140	
8	9.016	0.312	11.75	16.50	9.00	13.50	9.00	9.35	148	
10X4	5.016	0.250	7.50	24.00	11.00	20.75	11.04	11.45	236	
10X6	7.016	0.312	9.50	24.00	11.00	20.75	11.04	11.45	240	
10X8	9.016	0.312	11.75	24.00	11.00	20.75	11.04	11.45	246	
10	11.016	0.312	14.25	24.00	11.00	20.75	11.04	11.45	257	
12X4	5.016	0.250	7.50	26.50	12.00	23.25	13.14	13.56	273	
12X6	7.016	0.312	9.50	26.50	12.00	23.25	13.14	13.56	286	
12X8	9.016	0.312	11.75	26.50	12.00	23.25	13.14	13.56	292	
12X10	11.016	0.312	14.25	26.50	12.00	23.25	13.14	13.56	303	
12	13.016	0.312	17.00	26.50	12.00	23.25	13.14	13.56	320	

Note: Visit www.tylerunion.com for assembly instructions.
Tapping sleeve is assembled with gland and gasket.