C153 DUCTILE IRON MECHANICAL JOINT FITTINGS

Project Name:	Contractor:	Date
Engineer:	Spec Section:	

Optional Specifications

Gaskets	SBR (In accordance with ANSI/AWWA C111/A21.11)	Coating	Asphaltic Seal Coat (In accordance with ANSI / AWWA C104/A21.04 and ANSI / AWWA C153/A21.10)					
	EPDM	_	Fusion Bonded Epoxy (FBE)*Interior and exterior					
	Neoprene		(In accordance with ANSI / AWWA C116/A21.16)					
	Nitrile		Zinc (In accordance with ISO 8179-2)					
	Others -Specify		Others- Specify					
Bolts & Nuts	High Strength Low Alloy Steel (HSLA) (In accordance with ANSI/AWWA C111/A21.11)	Lining	Cement-Mortar *Double thickness with asphaltic coating (In accordance with ANSI/AWWA C104/A21.4)					
	Stainless SteelType 304Type 316		Fusion Bonded Epoxy (FBE)*Interior and exterior (In accordance with ANSI/AWWA C116/A21.16)					
	Blue Fluoropolymer	Ī [Protecto 401 Ceramic Epoxy					
	Other- Specify	i i	Others- Specify					





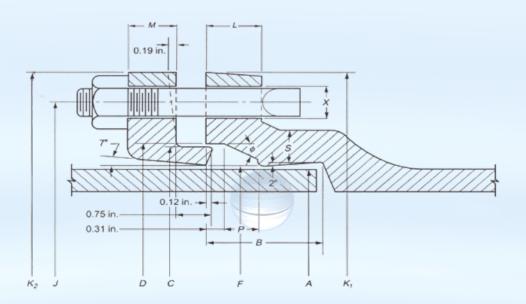




Product Specifications

Ductile Iron ASTM A536 Grade 60-42-10, 65-45-12 or 70-50-05
350 PSI rating for 2"-24" sizes, 250 PSI rating for 30"-48" sizes and 150 PSI rating for 54" - 64" Sizes
In accordance with ANSI/AWWA 153/A21.53 & UL-FM Requirements. Hydrostatically Tested in accordance with SIGMA Quality Management Standard.
All fittings are heat coded to ensure traceability and verification of metallurgical properties in accordance with the
prevailing standards and SIGMA Quality Management Standards.
2" - 64"
Short body design - straight section of body deleted to provide a compact and lighter fitting without reducing
strength or flow characteristics. In accordance with ANSI/AWWA C153/A21.53.
Non-Standard items will be as per SIGMA design.
Maximum allowable deflection for MJ Joint is as mentioned: 2"-4" =8° 6" =7° 8"-12"=5° 14"-48"=3° 54"-64"=2°
3"-16" Underwriters Laboratories listed and Factory Mutual Approved. UL/NSF61 & 372.
ANSI/AWWA C111/A21.11 and ANSI/AWWA C110/A21.10 for Ductile Iron Fittings 2"-48" for water and other liquids.
NSF61, Annex G & 372.
Per ANSI/AWWA C600 and C111 using DIP conforming to C150/C151 and PVC pipe conforming to C900/905.

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Mechanical Joint Details

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Size	A	В	c	D	F	J	К1	К2		М	Р	S	ø	х	Bolts		
3120			J				IV.T	I NZ		141	•	3			No.	Size	Length
*2	2.50	2.50	3.39	3.50	2.61	4.75	6.19	6.25	0.58	0.62	0.63	0.36	28°	3/4	2	5/8	3.00
3	3.96	2.50	4.84	4.94	4.06	6.19	7.62	7.69	0.58	0.62	0.63	0.39	28°	3/4	4	5/8	3.00
4	4.80	2.50	5.92	6.02	4.90	7.50	9.06	9.12	0.60	0.75	0.75	0.39	28°	7/8	4	3/4	3.50
6	6.90	2.50	8.02	8.12	7.00	9.50	11.06	11.12	0.63	0.88	0.75	0.43	28°	7/8	6	3/4	3.50
8	9.05	2.50	10.17	10.27	9.15	11.75	13.31	13.37	0.66	1.00	0.75	0.45	28°	7/8	6	3/4	3.50
10	11.10	2.50	12.22	12.34	11.20	14.00	15.62	15.62	0.70	1.00	0.75	0.47	28°	7/8	8	3/4	3.50
12	13.20	2.50	14.32	14.44	13.30	16.25	17.88	17.88	0.73	1.00	0.75	0.49	28°	7/8	8	3/4	3.50
14	15.30	3.50	16.40	16.54	15.44	18.75	20.25	20.25	0.79	1.25	0.75	0.55	28°	7/8	10	3/4	4.00
16	17.40	3.50	18.50	18.64	17.54	21.00	22.50	22.50	0.85	1.31	0.75	0.58	28°	7/8	12	3/4	4.00
18	19.50	3.50	20.60	20.74	19.64	23.25	24.83	24.75	1.00	1.38	0.75	0.68	28°	7/8	12	3/4	4.00
20	21.60	3.50	22.70	22.84	21.74	25.50	27.08	27.00	1.02	1.44	0.75	0.69	28°	7/8	14	3/4	4.00
24	25.80	3.50	26.90	27.04	25.94	30.00	31.58	31.50	1.02	1.56	0.75	0.75	28°	7/8	16	3/4	4.50
30	32.00	4.00	33.29	33.46	32.17	36.88	39.12	39.12	1.31	2.00	1.00	0.82	20°	1 1/8	20	1.00	5.50
36	38.30	4.00	39.59	39.76	38.47	43.75	46.00	46.00	1.45	2.00	1.00	1.00	20°	1 1/8	24	1.00	5.50
42	44.50	4.00	45.79	45.96	44.67	50.62	53.12	53.12	1.45	2.00	1.00	1.25	20°	1 1/8	28	1 1/4	6.00
48	50.80	4.00	52.09	52.26	50.97	57.50	60.00	60.00	1.45	2.00	1.00	1.35	20°	1 3/8	32	1 1/4	6.00
54	57.56	4.00	58.82	59.02	57.73	63.20	65.70	65.70	1.55	2.50	1.00	1.45	20°	1 3/8	36	1 1/4	6.50
60	61.61	4.00	62.87	63.07	61.78	67.72	70.22	70.22	1.75	2.50	1.00	1.50	20°	1 3/8	36	1 1/4	6.50
64	65.67	4.00	66.96	67.13	65.84	71.86	74.36	74.36	1.75	2.50	1.00	1.57	20°	1 3/8	38	1 1/4	6.50

*Not included in AWWA C153

All dimensions are in inches

For sewer applications that require mandrel passage after installation, SIGMA recommends the end user check the fitting with the respective size mandrel BEFORE installing the fitting. SIGMA Corporation will NOT take responsibility for any back charges incurred due to the fitting not being checked with a mandrel prior to installation.







