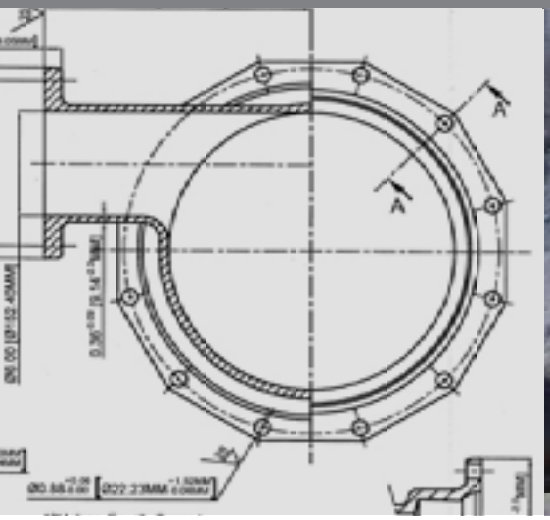
Quality – Service – Commitment – Delivered.

C153 DUCTILE IRON MECHANICAL JOINT FITTINGS



C153 DUCTILE IRON MECHANICAL JOINT FITTINGS BASIC SPECIFICATIONS

SIZES:
- 2” - 64”

MATERIAL:
- Ductile Iron ASTM A536, Grade 65-45-12, 60-42-10 or 70-50-05.

PRESSURE:
- 350 PSI Water Working Pressure 2”- 24”.
- 250 PSI Water Working Pressure 30”- 48”.
- 150 PSI Water Working Pressure 54”- 64”.

TESTING:
- In accordance with ANSI/AWWA C153/A21.53.
- In accordance with UL - FM requirements.
- All fittings are 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.

LAYING LENGTH:
- 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.

DEFLECTION:
- Maximum allowable deflection for MJ Joint on a full length pipe is as mentioned below:

1. 3” - 4” = 8 Degrees
2. 6” = 7 Degrees
3. 8” - 12” = 5 Degrees
4. 14” - 48” = 3 Degrees

CEMENT LINING:
- Double cement lined in accordance with ANSI/AWWA C104 / A21.4.

COATING:
- Interior of fitting is seal coated (asphaltic material) in accordance with ANSI AWWA C104/A21.4 and NSF61 approved.
- Exterior of fitting is seal coated (asphaltic material) in accordance with ANSI/AWWA C153/A21.53 and NSF approved.

GASKETS:
- SBR in accordance with ANSI/AWWA C111/A21.11.
- Also available in EPDM, NBR and CR.

T-BOLTS:
- Low Alloy corrosion resistant high strength steel in accordance with ANSI/AWWA C111/A21.11.

APPROVALS:
- 3”-16” Underwriters Laboratories listed and Factory Mutual Approved.

STANDARDS:
- Certified to NSF61 Standard including Annex G & 372.
- ANSI/AWWA C153/A21.53 for Compact Ductile Iron Fittings 2”-64” for water and other liquids.

INSTALLATION:
- Per ANSI/AWWA C600 and C111 using DIP conforming to C150/C151 and PVC pipe conforming to C900/C905.

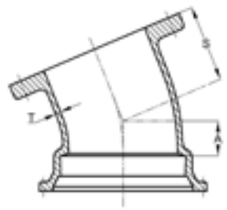
SIGMA Corporation
700 Goldman Drive
Cream Ridge, NJ 08514
800 999 2550 p
609 758 1163 f
crm-sales@sigmaco.com
www.sigmaco.com

C153 DUCTILE IRON MECHANICAL JOINT FITTINGS

SIGMA
Quality – Service – Commitment – Delivered.

22 1/2° Bends: MJ X Flange

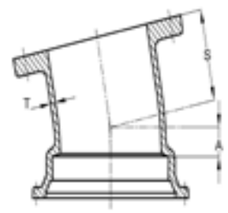
Size	Item No.	A	S	T	Wt.
3	MFB322	1.00	3.00	0.33	15
4	MFB422	1.50	4.00	0.34	23
6	MFB622	2.00	5.00	0.36	37
8	MFB822	2.50	5.50	0.38	56
10	MFB1022	3.00	6.50	0.40	81
12	MFB1222	3.50	7.50	0.42	114
14	MFB1422	3.75	7.50	0.47	158
16	MFB1622	3.75	8.00	0.50	198
18	MFB1822	4.50	8.50	0.54	244
20	MFB2022	4.50	9.50	0.57	317
24	MFB2422	4.50	11.00	0.61	417
30	MFB3022	6.75	15.00	0.66	723
36	MFB3622	7.75	18.00	0.74	1108
42	MFB4222	9.00	21.00	0.82	1583
48	MFB4822	10.00	24.00	0.90	2156



MJ x Flange 22 1/2° Bend

11 1/4° Bends: MJ X Flange

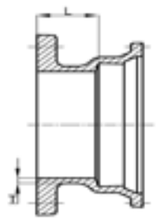
Size	Item No.	A	S	T	Wt.
3	MFB311	1.00	3.00	0.33	15
4	MFB411	1.25	4.00	0.34	23
6	MFB611	1.50	5.00	0.36	36
8	MFB811	1.75	5.50	0.38	54
10	MFB1011	2.00	6.50	0.40	78
12	MFB1211	2.25	7.50	0.42	110
14	MFB1411	2.50	7.50	0.47	148
16	MFB1611	2.50	8.00	0.50	187
18	MFB1811	3.00	8.50	0.54	229
20	MFB2011	3.00	9.50	0.57	284
24	MFB2411	3.00	11.00	0.61	395
30	MFB3011	4.75	15.00	0.66	683
36	MFB3611	5.00	18.00	0.74	1042
42	MFB4211	6.00	21.00	0.82	1528
48	MFB4811	6.50	24.00	0.90	2024



MJ x Flange 11 1/4° Bend

Adapters: MJ X Flange

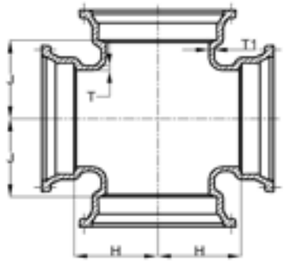
Size	Item No.	L	T	Wt.
3	MFA3	3.50	0.33	18
4	MFA4	3.50	0.34	24
6	MFA6	3.50	0.36	36
8	MFA8	3.75	0.38	54
10	MFA10	3.75	0.40	70
12	MFAl2	3.75	0.42	95
14	MFA14	5.00	0.47	141
16	MFA16	5.00	0.50	170
18	MFA18	5.00	0.54	225
20	MFA20	5.00	0.57	275
24	MFA24	5.00	0.61	324
30	MFA30	7.00	0.66	558
36	MFA36	7.00	0.74	796
42	MFA42	7.00	0.82	1190
48	MFA48	7.00	0.90	1653



MJ x Flange Adapters

Crosses

Size		Item No.	H	J	T	T1	Wt.
Run	Branch						
3	3	DMC33	3.00	3.00	0.33	0.33	35
4	3	DMC43	3.50	4.00	0.34	0.33	49
4	4	DMC44	4.00	4.00	0.34	0.34	40
6	3	DMC63	3.50	5.00	0.36	0.33	49
6	4	DMC64	4.00	5.00	0.36	0.34	68
6	6	DMC66	5.00	5.00	0.36	0.36	75
8	4	DMC84	4.00	6.50	0.38	0.34	99
8	6	DMC86	5.00	6.50	0.38	0.36	108
8	8	DMC88	6.00	6.00	0.38	0.38	105
10	3	DMC103	3.00	7.50	0.40	0.33	115
10	4	DMC104	4.00	7.50	0.40	0.34	112
10	6	DMC106	5.00	7.50	0.40	0.36	119
10	8	DMC108	6.50	7.50	0.40	0.38	138
10	10	DMC1010	7.00	7.00	0.40	0.40	145
12	4	DMC124	4.00	8.75	0.42	0.34	119
12	6	DMC126	5.00	8.75	0.42	0.36	140
12	8	DMC128	6.50	8.75	0.42	0.38	162
12	10	DMC1210	7.50	8.75	0.42	0.40	190
12	12	DMC1212	8.50	8.50	0.42	0.42	213
14	4	DMC144	5.50	10.50	0.47	0.34	162
14	6	DMC146	6.50	10.50	0.47	0.36	200
14	8	DMC148	7.50	10.50	0.47	0.38	259
14	10	DMC1410	8.50	10.50	0.47	0.40	223
14	12	DMC1412	9.50	10.50	0.47	0.42	244
14	14	DMC 1414	10.50	10.50	0.47	0.47	299
16	6	DMC166	6.50	11.50	0.50	0.36	250
16	8	DMC168	7.50	11.50	0.50	0.38	289
16	10	DMC 1610	8.50	11.50	0.50	0.40	345
16	12	DMC 1612	9.50	11.50	0.50	0.42	397
16	14	DMC1614	10.50	11.50	0.50	0.47	333
16	16	DMC 1616	11.50	11.50	0.50	0.50	385
18	6	DMC186	6.50	12.50	0.54	0.36	260
18	8	DMC188	7.50	12.50	0.54	0.38	282
18	10	DMC1810	8.50	12.50	0.54	0.40	308
18	12	DMC1812	9.50	12.50	0.54	0.42	348
18	14	DMC1814	10.50	12.50	0.54	0.47	384
18	16	DMC1816	11.50	12.50	0.54	0.50	
18	18	DMC1818	12.50	12.50	0.54	0.54	
20	6	DMC206	6.50	14.00	0.57	0.36	306
20	8	DMC208	8.00	14.00	0.57	0.38	379
20	10	DMC2010	9.00	14.00	0.57	0.40	370
20	12	DMC2012	10.00	14.00	0.57	0.42	413
20	14	DMC2014	11.00	14.00	0.57	0.47	451
20	16	DMC2016	12.00	14.00	0.57	0.50	634
20	18	DMC2018	13.00	14.00	0.57	0.54	547
20	20	DMC2020	14.00	14.00	0.57	0.57	605
24	6	DMC246	7.00	16.00	0.61	0.36	403
24	8	DMC248	8.00	16.00	0.61	0.38	481
24	10	DMC2410	9.00	16.00	0.61	0.40	465
24	12	DMC2412	10.00	16.00	0.61	0.42	529
24	14	DMC2414	11.00	16.00	0.61	0.47	553
24	16	DMC2416	12.00	16.00	0.61	0.50	714
24	18	DMC2418	13.00	16.00	0.61	0.54	
24	20	DMC2420	14.00	16.00	0.61	0.57	1589
24	24	DMC2424	16.00	16.00	0.61	0.61	
30	6	DMC306	8.50	20.00	0.66	0.36	
30	8	DMC308	8.50	20.00	0.66	0.38	
30	12	DMC3012	10.00	20.00	0.66	0.42	882
30	16	DMC3016	12.50	20.00	0.66	0.50	866



MJ Cross

Weights in Pounds, Less Accessories / Dimensions in inches
Ductile Iron Class 350 per ANSI/AWWA C153/A21.53

Weights in Pounds, Less Accessories / Dimensions in inches
Ductile Iron Class 350 per ANSI/AWWA C153/A21.53