SIGMA WATERWORKS

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 Standards.
- 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 is as mentioned below:
  1. 3” - 4” = 8°
  2. 6” = 7°
  3. 8” - 12”= 5°
  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 NSF61 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 NSF/ANSI/CAN 61 and NSF/ANSI 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 and C909

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

NSF Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372 · UL LISTED · FM APPROVED · AWWA MEMBER

SIGMA WATERWORKS
700 Goldman Drive
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www.sigmawaterworks.com

SIGMA WATERWORKS

C153 DUCTILE IRON
MECHANICAL JOINT FITTINGS

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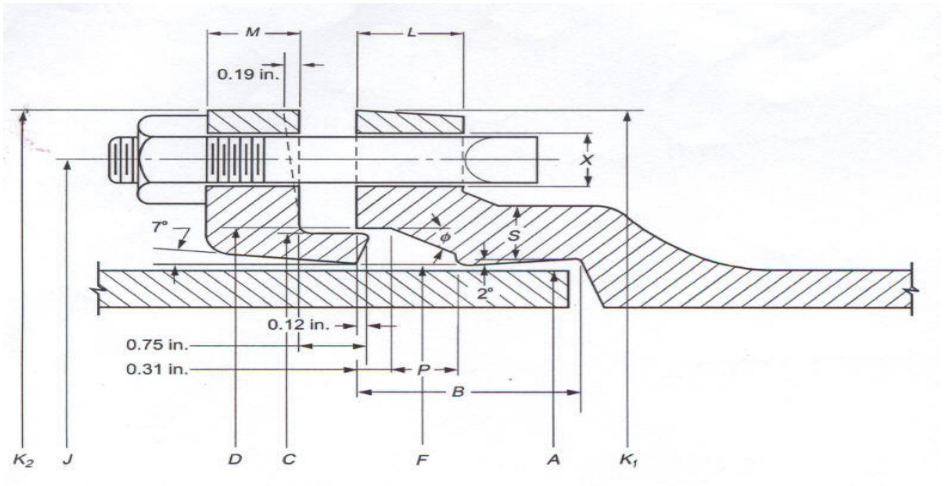
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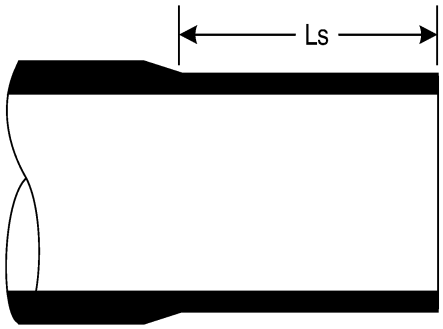
Weights in Pounds, Less Accessories / Dimensions in inches
Ductile Iron Class 350 per ANSI/AWWA C153/A21.53

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C153 DUCTILE IRON MECHANICAL JOINT





Mechanical Joint Details

Plain End Details

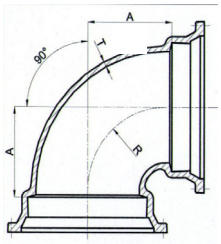
Size	A	B	C	D	F	J	K1	K2	L	M	P	S	X	Bolts			PE Ls
														No.	Size	Len	
3	3.96	2.50	4.84	4.94	4.06	6.19	7.62	7.69	0.58	0.62	0.63	0.39	3/4	4	5/8	3.0	5.5
4	4.80	2.50	5.92	6.02	4.90	7.50	9.06	9.12	0.60	0.75	0.75	0.39	7/8	4	3/4	3.5	5.5
6	6.90	2.50	8.02	8.12	7.00	9.50	11.06	11.12	0.63	0.88	0.75	0.43	7/8	6	3/4	3.5	5.5
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	7/8	6	3/4	3.5	5.5
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	7/8	8	3/4	3.5	5.5
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	7/8	8	3/4	3.5	5.5
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	7/8	10	3/4	4.0	8.0
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	7/8	12	3/4	4.0	8.0
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	7/8	12	3/4	4.0	8.0
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	7/8	14	3/4	4.0	8.0
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	7/8	16	3/4	4.5	8.0
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	1 1/8	20	1	5.5	8.0
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	1 1/8	24	1	5.5	8.0
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	1 3/8	28	1 1/4	6.0	8.0
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	1 3/8	32	1 1/4	6.0	
54	57.56	4.00	58.85	59.02	57.73	63.20	65.70	65.70	1.55	2.50	1.00	1.45	1 3/8	36	1 1/4		
60	61.61	4.00	62.90	63.07	61.78	67.72	70.22	70.22	1.75	2.50	1.00	1.50	1 3/8	36	1 1/4		
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	1 3/8	38	1 1/4		

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

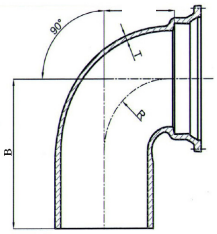
Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372

1/4 90° Bends

Size	MJ x MJ			MJ x PE				T
	Item No.	Wt.	A	Item No.	Wt.	A	B	
2	DMB290	17	3.00					0.30
3	DMB390	19	3.50	DME390	16	3.25	8.50	0.33
4	DMB490	25	4.00	DME490	22	4.00	9.50	0.34
6	DMB690	39	5.00	DME690	41	5.00	11.50	0.36
8	DMB890	57	6.50	DME890	58	6.50	12.50	0.38
10	DMB1090	89	7.50	DME1090	83	7.50	13.00	0.40
12	DMB1290	108	9.00	DME1290	114	9.00	14.50	0.42
14	DMB1490	210	11.50	DME1490	197	11.50	19.50	0.47
16	DMB1690	264	12.50	DME1690	248	12.50	20.50	0.50
18	DMB1890	335	14.00	DME1890	325	14.00	21.00	0.54
20	DMB2090	400	15.00	DME2090	390	15.00	22.50	0.57
24	DMB2490	565	16.75	DME2490	575	17.00	25.00	0.61
30	DMB3090	930	21.50	DME3090	865	21.50	30.50	0.66
36	DMB3690	1,450	24.50	DME3690	1,355	24.50	33.50	0.74
42	DMB4290	2,205	29.25	DME4290	2,055	29.25	38.25	0.82
48	DMB4890	2,990	33.25	DME4890	2,805	33.25	42.25	0.90
54	DMB5490	3,600	36.50	DME5490	3,802	36.50	47.00	1.00
60	DMB6090	4,414	40.00					1.05
64	DMB6490	5,084	42.00					1.11



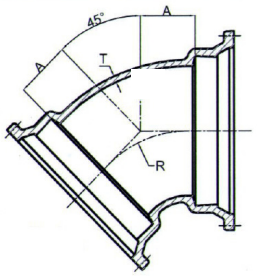
MJ x MJ Bend 90°



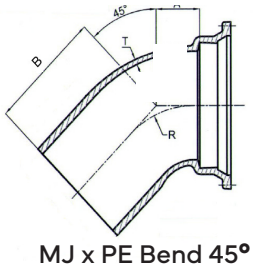
MJ x PE Bend 90°

1/8 45° Bends

Size	MJ x MJ			MJ x PE				T
	Item No.	Wt.	A	Item No.	Wt.	A	B	
2	DMB245	10	1.50					0.33
3	DMB345	16	1.50	DME345	13	1.50	7.00	0.33
4	DMB445	22	2.00	DME445	19	2.00	7.50	0.34
6	DMB645	32	3.00	DME645	34	3.00	8.50	0.36
8	DMB845	46	3.50	DME845	49	3.50	9.00	0.38
10	DMB1045	70	4.50	DME1045	69	4.50	10.00	0.40
12	DMB1245	86	5.50	DME1245	93	5.50	11.00	0.42
14	DMB1445	160	5.00	DME1445	146	5.00	13.00	0.47
16	DMB1645	202	5.50	DME1645	184	5.50	13.50	0.50
18	DMB1845	250	6.00	DME1845	235	6.00	13.00	0.54
20	DMB2045	305	7.00	DME2045	290	7.00	14.00	0.57
24	DMB2445	405	7.50	DME2445	390	7.50	14.50	0.61
30	DMB3045	780	10.50	DME3045	715	10.50	19.50	0.66
36	DMB3645	1,135	11.50	DME3645	1,040	12.00	21.00	0.74
42	DMB4245	1,610	14.00	DME4245	1,460	14.00	23.00	0.82
48	DMB4845	2,090	15.00	DME4845	1,905	15.00	24.00	0.90
54	DMB5445	2,789	20.50					1.00
60	DMB6045	3,103	20.00		3,191	21.50	31.25	1.05
64	DMB6445	3,701	22.25					1.11



MJ x MJ Bend 45°



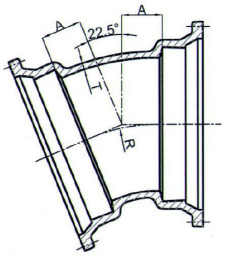
MJ x PE Bend 45°

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

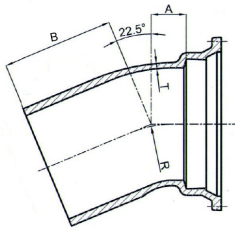
SIGMA WATERWORKS

1/16 22 1/2° Bends

Size	MJ x MJ			MJ x PE				T
	Item No.	Wt.	A	Item No.	Wt.	A	B	
2	DMB222		1.00					0.33
3	DMB322	15	1.00	DME322	12	1.00	6.50	0.33
4	DMB422	18	1.50	DME422	18	1.50	7.00	0.34
6	DMB622	31	2.00	DME622	29	2.00	7.50	0.36
8	DMB822	46	2.50	DME822	43	2.50	8.00	0.38
10	DMB1022	64	3.00	DME1022	61	3.00	8.50	0.40
12	DMB1222	80	3.50	DME1222	79	3.50	9.00	0.42
14	DMB1422	136	3.75	DME1422	133	3.75	11.25	0.47
16	DMB1622	172	3.75	DME1622	166	3.75	11.75	0.50
18	DMB1822	255	4.50	DME1822	235	6.00	13.00	0.54
20	DMB2022	310	4.50	DME2022	300	7.00	14.00	0.57
24	DMB2422	412	4.50	DME2422	395	7.50	14.50	0.61
30	DMB3022	665	6.75	DME3022	600	6.75	15.75	0.66
36	DMB3622	960	7.75	DME3622	865	7.75	16.75	0.74
42	DMB4222	1,350	9.00	DME4222	1,200	9.00	18.00	0.82
48	DMB4822	1,760	10.00	DME4822	1,575	10.00	19.00	0.90
54	DMB5422	1,976	10.25					1.00
60	DMB6022	2,237	10.75					1.05
64	DMB6422	2,517	11.00					1.11



MJ x MJ Bend 22-1/2°



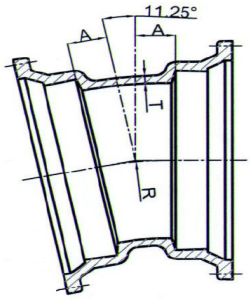
MJ x PE Bend 22-1/2°

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

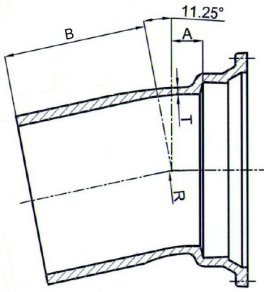
Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372

11/32 11-1/4° Bends

Size	MJ x MJ			MJ x PE				T
	Item No.	Wt.	A	Item No.	Wt.	A	B	
3	DMB311	14	1.00	DME311	12	1.00	6.50	0.33
4	DMB411	16	1.25	DME411	17	1.25	6.25	0.34
6	DMB611	30	1.50	DME611	27	1.50	7.00	0.36
8	DMB811	42	1.75	DME811	39	1.75	7.25	0.38
10	DMB1011	58	2.00	DME1011	52	2.00	7.50	0.40
12	DMB1211	67	2.25	DME1211	69	2.25	7.75	0.42
14	DMB1411	93	2.50	DME1411	118	2.50	10.50	0.47
16	DMB1611	148	2.50	DME1611	136	2.50	10.50	0.50
18	DMB1811	205	3.00	DME1811	235	6.00	13.00	0.54
20	DMB2011	245	3.00	DME2011	300	7.00	14.00	0.57
24	DMB2411	315	3.00	DME2411	400	7.50	14.50	0.61
30	DMB3011	600	4.75	DME3011	535	4.75	13.75	0.66
36	DMB3611	820	5.00	DME3611	725	5.00	14.00	0.74
42	DMB4211	1,180	6.00	DME4211	1,030	6.00	15.00	0.82
48	DMB4811	1,475	6.50	DME4811	1,290	6.50	15.50	0.90
54	DMB5411	1,539	5.00					1.00
60	DMB6011	1,869	7.00					1.05
64	DMB6411	2,072	7.00					1.11



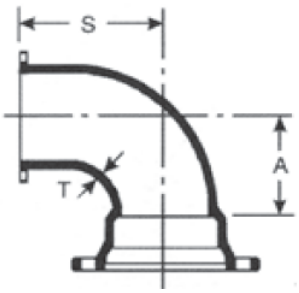
MJ x MJ 11-1/4° Bend



MJ x PE 11-1/4° Bend

90° Bends: MJ X Flange

Size	Item No.	A	S	T	Wt.
3	MFB390	3.50	5.50	0.33	21
4	MFB490	4.00	6.50	0.34	28
6	MFB690	5.00	8.00	0.36	46
8	MFB890	6.50	9.00	0.38	71
10	MFB1090	7.50	11.00	0.40	121
12	MFB1290	9.00	12.00	0.42	155
14	MFB1490	11.50	14.00	0.47	208
16	MFB1690	12.50	15.00	0.50	280
18	MFB1890	14.00	16.50	0.54	332
20	MFB2090	15.00	18.00	0.57	441
24	MFB2490	16.75	22.00	0.61	618
30	MFB3090	21.50	25.00	0.66	994
36	MFB3690	24.50	28.00	0.74	1,462
42	MFB4290	29.25	31.00	0.82	2,112
48	MFB4890	33.25	34.00	0.90	2,816



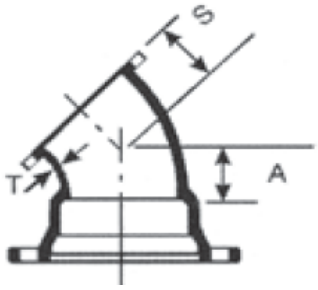
MJ x Flange 90º Bend

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

Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372

45° Bends: MJ x Flange

Size	Item No.	A	S	T	Wt.
3	MFB345	1.50	3.00	0.33	17
4	MFB445	2.00	4.00	0.34	34
6	MFB645	3.00	5.00	0.36	57
8	MFB845	3.50	5.50	0.38	83
10	MFB1045	4.50	6.50	0.40	122
12	MFB1245	5.50	7.50	0.42	159
14	MFB1445	5.00	7.50	0.47	162
16	MFB1645	5.50	8.00	0.50	290
18	MFB1845	6.00	8.50	0.54	252
20	MFB2045	7.00	9.50	0.57	338
24	MFB2445	7.50	11.00	0.61	442
30	MFB3045	10.50	15.00	0.66	765
36	MFB3645	11.50	18.00	0.74	1,167
42	MFB4245	14.00	21.00	0.82	1,720
48	MFB4845	15.00	24.00	0.90	2,276



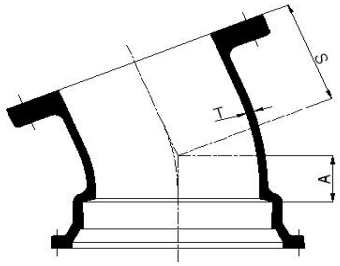
MJ x Flange 45º Bend

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

Certified to NSF/ ANSI/CAN 61 and NSF/ANSI 372

22 1/2° Bends: MJ X Flange

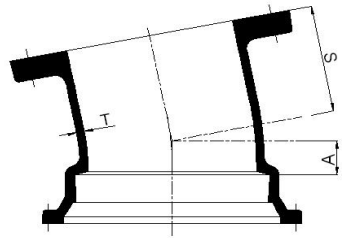
Size	Item No.	A	S	T	Wt.
3	MFB322	1.00	3.00	0.33	15
4	MFB422	1.50	4.00	0.34	23
6	MFB622	2.00	5.00	0.36	37
8	MFB822	2.50	5.50	0.38	56
10	MFB1022	3.00	6.50	0.40	81
12	MFB1222	3.50	7.50	0.42	114
14	MFB1422	3.75	7.50	0.47	158
16	MFB1622	3.75	8.00	0.50	198
18	MFB1822	4.50	8.50	0.54	244
20	MFB2022	4.50	9.50	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	1,108
42	MFB4222	9.00	21.00	0.82	1,583
48	MFB4822	10.00	24.00	0.90	2,156



MJ x Flange 22 1/2º Bend

11 1/4° Bends: MJ X Flange

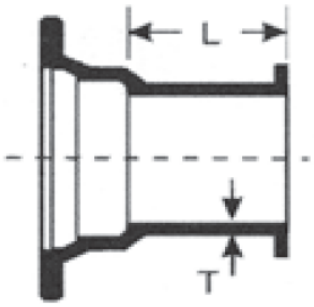
Size	Item No.	A	S	T	Wt.
3	MFB311	1.00	3.00	0.33	15
4	MFB411	1.25	4.00	0.34	23
6	MFB611	1.50	5.00	0.36	36
8	MFB811	1.75	5.50	0.38	54
10	MFB1011	2.00	6.50	0.40	78
12	MFB1211	2.25	7.50	0.42	110
14	MFB1411	2.50	7.50	0.47	148
16	MFB1611	2.50	8.00	0.50	187
18	MFB1811	3.00	8.50	0.54	229
20	MFB2011	3.00	9.50	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	1,042
42	MFB4211	6.00	21.00	0.82	1,528
48	MFB4811	6.50	24.00	0.90	2,024



MJ x Flange 11 1/4º 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	MFA12	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
54	MFA54	10.00	1.00	1,619
60	MFA60	12.00	1.05	1,966



MJ x Flange Adapters

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

Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372

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APPROVED

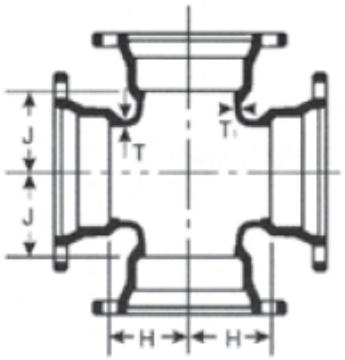
AWWA MEMBER

C153 DUCTILE IRON MECHANICAL JOINT

SIGMA WATERWORKS

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	98
10	6	DMC106	5.00	7.50	0.40	0.36	118
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	100
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	181
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	630
20	6	DMC206	6.50	14.00	0.57	0.36	306
20	8	DMC208	8.00	14.00	0.57	0.38	341
20	10	DMC2010	9.00	14.00	0.57	0.40	370
20	12	DMC2012	10.00	14.00	0.57	0.42	392
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	431
24	10	DMC2410	9.00	16.00	0.61	0.40	465
24	12	DMC2412	10.00	16.00	0.61	0.42	494
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	DMC2020	14.00	16.00	0.61	0.57	809
24	24	DMC2424	16.00	16.00	0.61	0.61	830



MJ Cross

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

NSF Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372

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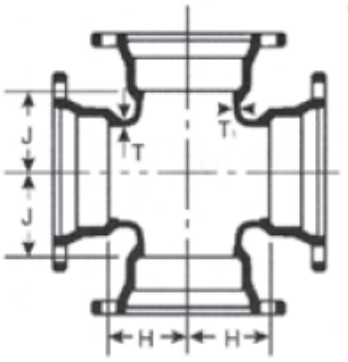
FM APPROVED

AWWA MEMBER

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

Crosses (Continued)

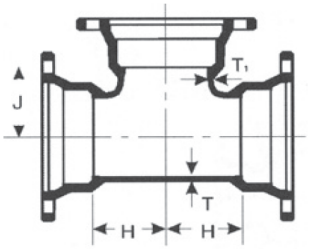
Size		Item No.	H	J	T	T1	Wt.
Run	Branch						
30	6	DMC306	8.50	20.00	0.66	0.36	664
30	8	DMC308	8.50	20.00	0.66	0.38	670
30	12	DMC3012	10.00	20.00	0.66	0.42	733
30	16	DMC3016	12.50	20.00	0.66	0.50	866
30	20	DMC3020	15.00	20.00	0.66	0.57	991
30	24	DMC3024	16.00	20.00	0.66	0.61	1,083
30	30	DMC3030	22.00	22.00	0.66	0.66	1,840
36	8	DMC368	10.00	22.50	0.74	0.38	
36	16	DMC3616	15.00	23.50	0.74	0.50	1,279
36	18	DMC3618	13.00	23.50	0.74	0.54	1,166
36	20	DMC3620	15.00	23.50	0.74	0.57	
36	24	DMC3624	16.00	23.50	0.74	0.61	1,433
36	30	DMC3630	20.00	23.50	0.74	0.66	
36	36	DMC3636	26.00	26.00	0.74	0.74	2,655
42	12	DMC4212	12.50	27.50	0.82	0.42	1,511
42	16	DMC4216	13.00	27.50	0.82	0.50	1,578
42	24	DMC4224	20.00	27.50	0.82	0.61	2,055
42	30	DMC4230	22.00	29.50	0.82	0.66	2,950
42	36	DMC4236	30.00	30.00	0.82	0.74	3,955
42	42	DMC4242	30.00	30.00	0.82	0.82	3,725
48	12	DMC4812	12.50	32.00	0.90	0.42	1,897
48	16	DMC4816	23.00	32.00	0.90	0.50	2,616
48	24	DMC4824	23.00	32.00	0.90	0.61	2,766
48	30	DMC4830	23.00	32.00	0.90	0.66	4,500
48	36	DMC4836	33.50	32.25	0.90	0.74	3,719
48	42	DMC4842	33.5	33.5	0.90	0.82	4,089
48	48	DMC4848	33.5	33.5	0.90	0.90	4,955
54	54	DMC5454	35.8	35.8	1.00	1.00	5,327



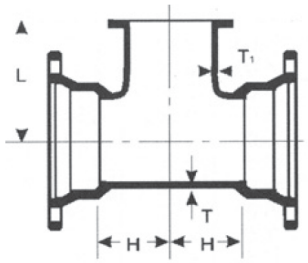
MJ Cross

Tees

SIZE		MJ x MJ						MJ x Flange			
Run	Branch	Item No.	Wt.	H	J	T	T1	Item No.	Wt.	H	L
2	2	DMT22	16	3.00	3.00	0.30	0.30				
3	3	DMT33	28	3.00	3.00	0.33	0.33	DMF33	28	3.00	5.50
4	2	DMT42	29	3.50	4.00	0.34	0.30				
4	3	DMT43	30	3.50	4.00	0.34	0.33	DMF43	30	3.50	6.50
4	4	DMT44	32	4.00	4.00	0.34	0.34	DMF44	38	4.00	6.50
6	3	DMT63	42	3.50	5.00	0.36	0.33	DMF63	51	3.50	8.00
6	4	DMT64	46	4.00	5.00	0.36	0.34	DMF64	54	4.00	8.00
6	6	DMT66	56	5.00	5.00	0.36	0.36	DMF66	56	5.00	8.00
8	3	DMT83	52	4.00	6.50	0.38	0.33	DMF83	70	4.00	9.00
8	4	DMT84	60	4.00	6.50	0.38	0.34	DMF84	72	4.00	9.00
8	6	DMT86	72	5.00	6.50	0.38	0.36	DMF86	83	5.00	9.00
8	8	DMT88	86	6.50	6.50	0.38	0.38	DMF88	94	6.50	9.00
10	3	DMT103	75	4.00	7.50	0.40	0.33				
10	4	DMT104	78	4.00	7.50	0.40	0.34	DMF104	89	4.00	11.00
10	6	DMT106	90	5.00	7.50	0.40	0.36	DMF106	107	5.00	11.00
10	8	DMT108	105	6.50	7.50	0.40	0.38	DMF108	115	6.50	11.00
10	10	DMT1010	120	7.50	7.50	0.40	0.40	DMF1010	130	7.50	11.00
12	3	DMT123	90	4.00	8.75	0.42	0.33				
12	4	DMT124	94	4.00	8.75	0.42	0.34	DMF124	115	4.00	12.00
12	6	DMT126	110	5.00	8.75	0.42	0.36	DMF126	120	5.00	12.00
12	8	DMT128	125	6.50	8.75	0.42	0.38	DMF128	146	6.50	12.00
12	10	DMT1210	140	7.50	8.75	0.42	0.40	DMF1210	174	7.50	12.00
12	12	DMT1212	160	8.75	8.75	0.42	0.42	DMF1212	198	8.75	12.00



MJ x MJ



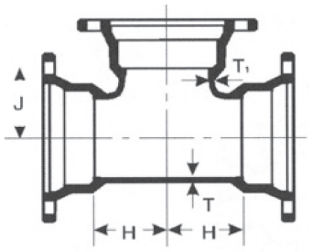
MJ x Flange

SIGMA WATERWORKS

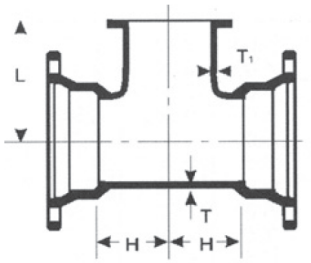
Weights in Pounds, Less Accessories / Dimensions in inches
Ductile Iron Class 350 per ANSI/AWWA C153/A21.53

Tees (Continued)

SIZE		MJ x MJ						MJ x Flange			
Run	Branch	Item No.	Wt.	H	J	T	T1	Item No.	Wt.	H	L
14	3	DMT143		5.50	10.50	0.47	0.33				
14	4	DMT144	172	5.50	10.50	0.47	0.34	DMF144	161	5.50	14.00
14	6	DMT146	182	6.50	10.50	0.47	0.36	DMF146	177	6.50	14.00
14	8	DMT148	206	7.50	10.50	0.47	0.38	DMF148	199	7.50	14.00
14	10	DMT1410	228	8.50	10.50	0.47	0.40	DMF1410		8.50	14.00
14	12	DMT1412	234	9.50	10.50	0.47	0.42	DMF1412	276	9.50	14.00
14	14	DMT1414	280	10.50	10.50	0.47	0.47	DMF1414	277	10.50	14.00
16	3	DMT163		6.50	11.50	0.50	0.33				
16	4	DMT164	316	6.50	11.50	0.50	0.34				
16	6	DMT166	228	6.50	11.50	0.50	0.36	DMF166	213	6.50	15.00
16	8	DMT168	248	7.50	11.50	0.50	0.38	DMF168	260	7.50	15.00
16	10	DMT1610	264	8.50	11.50	0.50	0.40	DMF1610	287	8.50	15.00
16	12	DMT1612	280	9.50	11.50	0.50	0.42	DMF1612	312	9.50	15.00
16	14	DMT1614	316	10.50	11.50	0.50	0.47	DMF1614	360	10.50	15.00
16	16	DMT1616	322	11.50	11.50	0.50	0.50	DMF1616	374	11.50	15.00
18	6	DMT186	275	6.50	12.50	0.54	0.36	DMF186	321	6.50	15.50
18	8	DMT188	295	7.50	12.50	0.54	0.38	DMF188	340	7.50	15.50
18	10	DMT1810	315	8.50	12.50	0.54	0.40	DMF1810		8.50	15.50
18	12	DMT1812	335	9.50	12.50	0.54	0.42	DMF1812		9.50	15.50
18	14	DMT1814	380	10.50	12.50	0.54	0.47	DMF1814		10.50	16.50
18	16	DMT1816	405	11.50	12.50	0.54	0.50	DMF1816	440	11.50	16.50
18	18	DMT1818	435	12.50	12.50	0.54	0.54	DMF1818	445	12.50	16.50
20	6	DMT206	315	6.50	14.00	0.57	0.36	DMF206	345	6.50	17.00
20	8	DMT208	345	8.00	14.00	0.57	0.38	DMF208	384	8.00	17.00
20	10	DMT2010	370	9.00	14.00	0.57	0.40	DMF2010	367	9.00	17.00
20	12	DMT2012	395	10.00	14.00	0.57	0.42	DMF2012	402	10.00	17.00
20	14	DMT2014	440	11.00	14.00	0.57	0.47	DMF2014	435	11.00	17.00
20	16	DMT2016	465	12.00	14.00	0.57	0.50	DMF2016	477	12.00	18.00
20	18	DMT2018	505	13.00	14.00	0.57	0.54	DMF2018	507	13.00	18.00
20	20	DMT2020	535	14.00	14.00	0.57	0.57	DMF2020	554	14.00	18.00
24	6	DMT246	415	7.00	16.00	0.61	0.36	DMF246	460	7.00	19.00
24	8	DMT248	445	8.00	16.00	0.61	0.38	DMF248	418	8.00	19.00
24	10	DMT2410	470	9.00	16.00	0.61	0.40	DMF2410	462	9.00	19.00
24	12	DMT2412	500	10.00	16.00	0.61	0.42	DMF2412	502	10.00	19.00
24	14	DMT2414	550	11.00	16.00	0.61	0.47	DMF2414	539	11.00	19.00
24	16	DMT2416	580	12.00	16.00	0.61	0.50	DMF2416	579	12.00	19.00
24	18	DMT2418	625	13.00	16.00	0.61	0.54	DMF2418	634	13.00	22.00
24	20	DMT2420	660	14.00	16.00	0.61	0.57	DMF2420	686	14.00	22.00
24	24	DMT2424	720	16.00	16.00	0.61	0.61	DMF2424	789	16.00	22.00
30	6	DMT306	700	8.50	20.00	0.66	0.36	DMF306	1,000	8.50	23.00
30	8	DMT308	739	8.50	20.00	0.66	0.38	DMF308		8.50	23.00
30	10	DMT3010	785	10.00	20.00	0.66	0.40				
30	12	DMT3012	830	10.00	20.00	0.66	0.42	DMF3012	740	10.00	23.00
30	16	DMT3016	959	12.50	20.00	0.66	0.50	DMF3016	1,035	12.50	23.00
30	18	DMT3018	1,085	13.00	20.00	0.66	0.54				
30	20	DMT3020	995	15.00	20.00	0.66	0.57	DMF3020		15.00	23.00
30	24	DMT3024	1,060	16.00	20.00	0.66	0.61	DMF3024	1,061	16.00	25.00
30	30	DMT3030	1,323	20.00	20.00	0.66	0.66	DMF3030	1,267	20.00	25.00



MJ x MJ



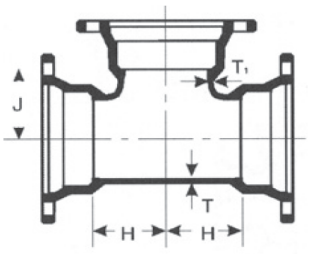
MJ x Flange

Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372

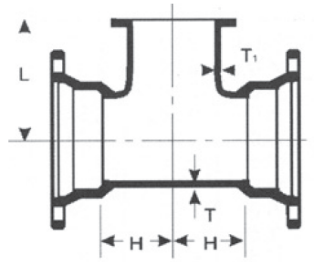
Weights in Pounds, Less Accessories / Dimensions in inches
Ductile Iron Class 350 per ANSI/AWWA C153/A21.53

Tees (Continued)

SIZE		MJ x MJ						MJ x Flange			
Run	Branch	Item No.	Wt.	H	J	T	T1	Item No.	Wt.	H	L
36	6	DMT366	1,025	8.00	23.50	0.74	0.36				
36	8	DMT368	1,091	9.00	23.50	0.74	0.38				
36	10	DMT3610	1,184	10.00	23.50	0.74	0.40				
36	12	DMT3612	1,205	10.00	23.50	0.74	0.42	DMF3612	1,034	10.00	26.00
36	14	DMT3614	1,112	12.50	23.50	0.74	0.47				
36	16	DMT3616	1,350	12.50	23.50	0.74	0.50				
36	18	DMT3618	1,155	13.00	23.50	0.74	0.54	DMF3618	1,307	16.00	26.00
36	20	DMT3620	1,240	15.00	23.50	0.74	0.57				
36	24	DMT3624	1,498	16.00	23.50	0.74	0.61	DMF3624	1,930	16.00	26.00
36	30	DMT3630	1,555	20.00	23.50	0.74	0.66	DMF3630	1,937	20.00	28.00
36	36	DMT3636	1,900	23.50	23.50	0.74	0.74	DMF3636	1,924	23.50	28.00
42	6	DMT426	1,343	10.00	27.50	0.82	0.36				
42	8	DMT428	1,347	10.00	27.50	0.82	0.38				
42	12	DMT4212	1,410	10.00	27.50	0.82	0.42	DMF4212	1,369	10.00	30.00
42	16	DMT4216	1,502	12.50	27.50	0.82	0.50				
42	18	DMT4218	2,000	16.00	27.50	0.82	0.54				
42	20	DMT4220	2,433	20.00	27.50	0.82	0.57				
42	24	DMT4224	2,270	20.00	27.50	0.82	0.61	DMF4224		20.00	30.00
42	30	DMT4230	2,425	22.00	29.50	0.82	0.66	DMF4230	3,132	22.00	31.00
42	36	DMT4236	3,000	30.00	30.00	0.82	0.74	DMF4236	2,765	30.00	31.00
42	42	DMT4242	3,175	30.00	30.00	0.82	0.82	DMF4242		30.00	31.00
48	6	DMT486	1,685	10.00	32.00	0.90	0.36				
48	8	DMT488	1,692	10.00	32.00	0.90	0.38				
48	12	DMT4812	2,030	15.00	32.00	0.90	0.42				
48	16	DMT4816	2,393	20.00	32.00	0.90	0.50				
48	18	DMT4818	2,345	16.00	32.00	0.90	0.54				
48	20	DMT4820	2,500	20.00	32.00	0.90	0.57				
48	24	DMT4824	2,870	23.00	32.00	0.90	0.61	DMF4824		23.00	34.00
48	30	DMT4830	3,050	23.00	32.00	0.90	0.66	DMF4830	2,762	23.00	34.00
48	36	DMT4836	3,900	33.50	32.25	0.90	0.74	DMF4836	3,594	33.50	34.00
48	42	DMT4842	4,100	33.50	33.50	0.90	0.82	DMF4842	3,739	33.50	34.00
48	48	DMT4848	4,250	33.50	33.50	0.90	0.90	DMF4848	3,878	33.50	34.00
54	8	DMT548	2,147	12.00	34.00	1.00	0.38				
54	12	DMT5412	2,151	12.00	34.00	1.00	0.42				
54	16	DMT5416	2,344	14.00	34.00	1.00	0.50				
54	20	DMT5420	2,985	21.00	35.00	1.00	0.57				
54	24	DMT5424	3,582	27.50	37.00	1.00	0.61				
54	30	DMT5430	3,582	29.30	37.00	1.00	0.66				
54	36	DMT5436	3,982	29.30	37.00	1.05	0.77	DMF5436	4,025	29.30	37.00
54	42	DMT5442	4,211	31.00	39.00	1.00	0.82				
54	54							DMF5454	5,028	35.80	39.80
60	4							DMF604	1,984	8.00	36.50
60	6	DMT606	2,184	10	35	1.05	0.36				
60	12	DMT6012	2,687	15	34.5	1.05	0.42				
60	24	DMT6024	4,007	27.5	37	1.05	0.61	DMF6024		27.50	39.00
60	36	DMT6036	4,354	29.5	39	1.05	0.74				
60	48	DMT6048	5,777	41	41	1.05	0.9	DMF6048	6,291	41.00	45.00
60	54	DMT6054	5,928	41	41	1.05	1.05				
60	60	DMT6060	5,959	41	41	1.05	1.05				
64	24	DMT6424	3,889	21.3	42	1.16	0.61				
64	36	DMT6436	4,966	29.3	42	1.16	0.77				
64	48	DMT6448	5,883.05	34.3	44	1.16	0.9				



MJ x MJ



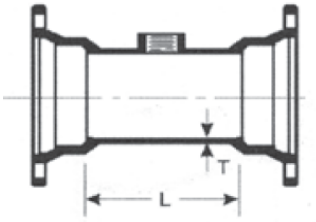
MJ x Flange

SIGMA WATERWORKS

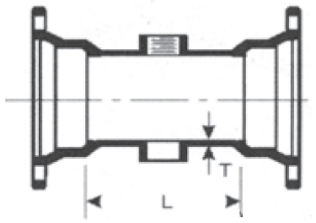
Weights in Pounds, Less Accessories / Dimensions in inches
Ductile Iron Class 350 per ANSI/AWWA C153/A21.53

Tapped Tees and Crosses

Size	TEE		CROSS		T	L	Tap Size
	Item No.	Wt.	Item No.	Wt.			
3	DTT3	19	DTC3	19	0.33	6.00	2
4	DTT4	24	DTC4	23	0.34	6.00	2
6	DTT6	42	DTC6	37	0.36	6.00	2
8	DTT8	53	DTC8	53	0.38	6.00	2
10	DTT10	68	DTC10	68	0.40	6.00	2
12	DTT12	88	DTC12	88	0.42	6.00	2
14	DTT14	118	DTC14	119	0.47	8.00	2
16	DTT16	164	DTC16	202	0.50	8.00	2
18	DTT18	205	DTC18	206	0.54	8.00	2
20	DTT20	259	DTC20	259	0.57	8.00	2
24	DTT24	320	DTC24	320	0.61	8.00	2
30	DTT30	554					
42	DTT42	1,098					
48	DTT48	1,372					



Tapped Tee (DTT)



Tapped Cross (DTC)

Caps and Plugs

Size	CAP SOLID	CAP TAPPED	Wt.	PLUG SOLID	PLUG TAPPED	Wt.
	Item No.	Item No.		Item No.	Item No.	
2	DMK2					
3	DMK3	DTK3	8	DMP3	DTP3	8
4	DMK4	DTK4	9	DMP4	DTP4	10
6	DMK6	DTK6	15	DMP6	DTP6	16
8	DMK8	DTK8	22	DMP8	DTP8	26
10	DMK10	DTK10	32	DMP10	DTP10	36
12	DMK12	DTK12	42	DMP12	DTP12	46
14	DMK14	DTK14	66	DMP14	DTP14	75
16	DMK16	DTK16	92	DMP16	DTP16	95
18	DMK18	DTK18	114	DMP18	DTP18	121
20	DMK20	DTK20	125	DMP20	DTP20	135
24	DMK24	DTK24	166	DMP24	DTP24	175
30	DMK30	DTK30	345	DMP30	DTP30	355
36	DMK36	DTK36	628	DMP36	DTP36	688
42	DMK42	DTK42	665	DMP42	DTP42	815
48	DMK48	DTK48	901	DMP48	DTP48	1,085
54	DMK54	DTK54	1,123	DMP54	DTP54	1,473
60	DMK60	DTK60	1,355	DMP60	DTP60	1,590
64	DMK64	DTK64	1,554	DMP64	DTP64	2,019



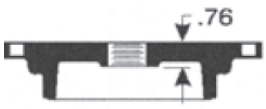
DMK
Solid Cap



DMP
Solid Plug



DTK
Tapped Cap

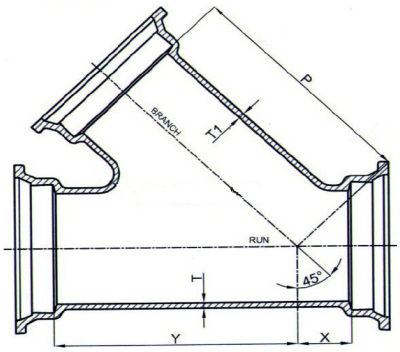


DTP
Tapped Plug

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

Wyes 45° laterals

Size		Item No.	X	Y	P	T	TI	Wt.
Run	Branch							
3	3	DMY33	2.00	8.50	8.50	0.33	0.33	36
4	2	DMY42	2.00	8.50	8.50	0.34	0.30	39
4	3	DMY43	2.50	9.50	9.50	0.34	0.33	
4	4	DMY44	2.50	9.50	9.50	0.34	0.34	45
6	4	DMY64	1.50	11.00	11.00	0.36	0.34	67
6	6	DMY66	3.00	13.00	13.00	0.36	0.36	93
8	3	DMY83	0.50	13.00	13.00	0.38	0.33	
8	4	DMY84	0.50	13.00	13.00	0.38	0.34	93
8	6	DMY86	2.00	14.50	14.50	0.38	0.36	113
8	8	DMY88	3.50	16.00	16.00	0.38	0.38	136
10	3	DMY103	0.00	15.00	15.00	0.40	0.33	
10	4	DMY104	0.00	15.00	15.00	0.40	0.34	118
10	6	DMY106	1.00	16.00	16.00	0.40	0.36	136
10	8	DMY108	2.50	17.00	17.00	0.40	0.38	170
10	10	DMY1010	3.50	19.00	19.00	0.40	0.40	199
12	3	DMY123	0.00	16.50	16.50	0.42	0.33	
12	4	DMY124	0.00	16.50	16.50	0.42	0.34	150
12	6	DMY126	1.50	18.50	18.50	0.42	0.36	186
12	8	DMY128	1.50	18.50	18.50	0.42	0.38	188
12	10	DMY1210	3.00	20.00	20.00	0.42	0.40	223
12	12	DMY1212	4.50	22.50	22.50	0.42	0.42	272
14	6	DMY146	0.00	19.00	21.50	0.47	0.36	
14	8	DMY148	1.50	20.00	22.50	0.47	0.38	230
14	10	DMY1410	4.00	25.00	25.00	0.47	0.40	
14	12	DMY1412	5.00	25.00	25.00	0.47	0.42	
14	14	DMY1414	6.00	25.00	25.00	0.47	0.47	
16	6	DMY166	0.00	21.50	24.00	0.50	0.36	
16	8	DMY168	1.50	23.00	25.00	0.50	0.38	
16	10	DMY1610	6.50	28.00	28.00	0.50	0.40	
16	12	DMY1612	6.50	28.00	28.00	0.50	0.42	
16	14	DMY1614	6.50	28.00	28.00	0.50	0.47	
16	16	DMY1616	6.50	28.00	28.00	0.50	0.50	
18	4	DMY184	0.00	23.00	25.50	0.54	0.34	
18	6	DMY186	0.00	23.00	25.50	0.54	0.36	348
18	8	DMY188	1.50	25.00	27.50	0.54	0.38	380
18	10	DMY1810	4.50	30.00	30.00	0.54	0.40	
18	12	DMY1812	4.50	30.00	30.00	0.54	0.42	479
18	14	DMY1814	4.50	30.00	30.00	0.54	0.47	479
18	16	DMY1816	4.50	30.00	30.00	0.54	0.50	
18	18	DMY1818	6.50	30.00	30.00	0.54	0.54	500
20	6	DMY206	0.00	25.00	27.50	0.57	0.36	415
20	8	DMY208	1.50	25.00	27.50	0.57	0.38	500
20	10	DMY2010	3.00	28.00	30.00	0.57	0.40	
20	12	DMY2012	6.50	32.00	32.00	0.57	0.42	588
20	14	DMY2014	6.50	32.00	32.00	0.57	0.47	
20	16	DMY2016	6.50	32.00	32.00	0.57	0.50	
20	18	DMY2018	6.50	32.00	32.00	0.57	0.54	
20	20	DMY2020	8.00	33.00	33.00	0.57	0.57	747
24	6	DMY246	0.00	29.50	32.50	0.61	0.36	602
24	8	DMY248	0.00	29.50	32.50	0.61	0.38	
24	10	DMY2410	1.50	32.00	34.50	0.61	0.40	
24	12	DMY2412	3.00	32.00	34.50	0.61	0.42	
24	14	DMY2414	4.50	33.00	34.50	0.61	0.47	
24	16	DMY2416	5.50	35.00	35.00	0.61	0.50	2,010
24	18	DMY2418	7.00	36.00	36.00	0.61	0.54	887
24	20	DMY2420	9.00	38.50	38.50	0.61	0.57	
24	24	DMY2424	9.00	38.50	38.50	0.61	0.61	1061



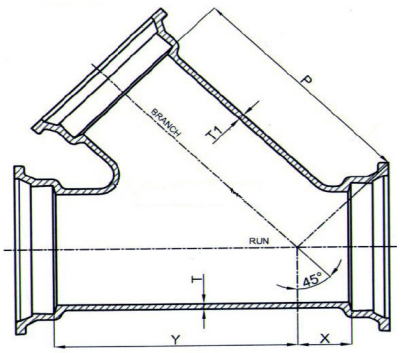
Wyes Lateral 45°

SIGMA WATERWORKS

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

Wyes 45° laterals (Continued)

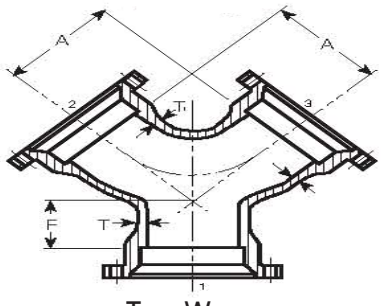
Size		Item No.	X	Y	P	T	T1	Wt.
Run	Branch							
30	4	DMY304	0.00	30.00	35.00	0.66	0.34	
30	6	DMY306	0.00	45.00	50.00	0.66	0.36	
30	8	DMY308	0.00	40.00	40.00	0.66	0.38	1,160
30	12	DMY3012	5.00	40.00	44.00	0.66	0.42	
30	14	DMY3014	7.00	42.00	44.00	0.66	0.47	
30	16	DMY3016	7.00	44.00	44.00	0.66	0.50	
30	18	DMY3018	8.00	46.00	46.00	0.66	0.54	
30	20	DMY3020	10.00	47.00	47.00	0.66	0.57	1,531
30	24	DMY3024	10.00	47.00	47.00	0.66	0.61	1,663
30	30	DMY3030	10.00	50.00	50.00	0.66	0.66	2,200
36	10	DMY3610	5.00	42.50	46.00	0.74	0.40	1,601
36	12	DMY3612	5.00	42.50	46.00	0.74	0.42	
36	14	DMY3614	5.00	42.50	46.00	0.74	0.47	
36	16	DMY3616	5.00	42.50	46.00	0.74	0.50	
36	18	DMY3618	8.00	45.00	48.00	0.74	0.54	
36	20	DMY3620	10.00	48.50	50.00	0.74	0.57	2,008
36	24	DMY3624	12.50	52.00	52.00	0.74	0.61	
36	30	DMY3630	15.00	54.00	54.00	0.74	0.66	2,491
36	36	DMY3636	15.00	57.50	57.50	0.74	0.74	4,754
42	8	DMY428	0.00	48.00	56.00	0.82	0.38	2,162
42	20	DMY4220	8.00	58.00	58.00	0.82	0.57	2,845
42	24	DMY4224	10.00	58.00	58.00	0.82	0.61	
42	30	DMY4230	12.00	60.00	60.00	0.82	0.66	
42	36	DMY4236	12.00	64.00	64.00	0.82	0.74	
42	42	DMY4242	15.00	68.00	68.00	0.82	0.82	4,048
48	6	DMY486	0.00	50.00	58.00	0.90	0.36	
48	8	DMY488	0.00	50.00	58.00	0.90	0.38	2,756
48	16	DMY4816	0.00	52.00	58.00	0.90	0.50	2,852
48	20	DMY4820	0.00	52.00	58.00	0.90	0.57	2,967
48	24	DMY4824	5.00	56.00	62.00	0.90	0.61	
48	30	DMY4830	4.00	57.00	62.00	0.90	0.66	3,433
48	36	DMY4836	5.00	62.00	66.00	0.90	0.74	
48	42	DMY4842	12.00	75.00	75.00	0.90	0.82	
48	48	DMY4848	16.00	75.00	75.00	0.90	0.90	
54	30	DMY5430	3.00	59.00	65.00	1.00	0.66	4,142
54	36	DMY5436	5.00	70.00	70.00	1.00	0.74	5,078
54	54	DMY5454	17.00	86.00	88.50	1.00	1.00	2,465



Wyes Lateral 45°

True Wye

Size		Pressure Rating	Dimensions in Inches				Weight	Item No.
Side 1	Side 2		T	T1	A	F		
18	18	250	0.54	0.54	14	6	390.32	DMW1818
20	20	250	0.57	0.57	15	6	465.06	DMW2020
30	30	250	0.66	0.66	25	15	1290	DMW3030
30	24	250	0.66	0.61	20	10		DMW302424
36	30	250	0.74	0.66	25	15		DMW363030



True Wyes

Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372

LISTED

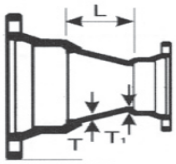
APPROVED

AWWA MEMBER

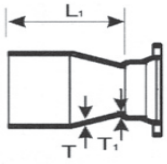
C153 DUCTILE IRON MECHANICAL JOINT

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

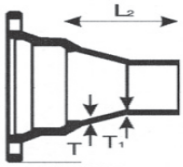
Reducers



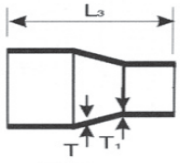
DMR



SPR



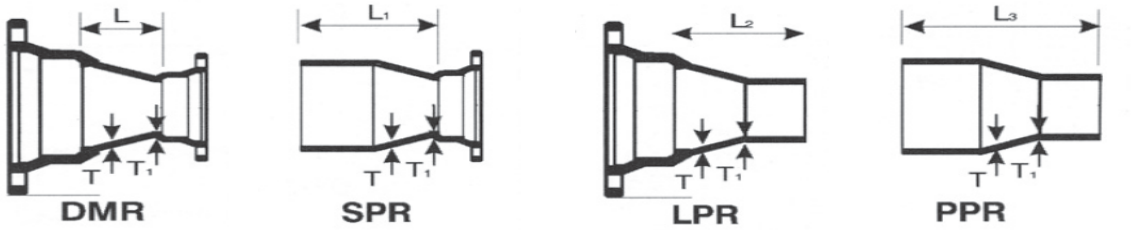
LPR



PPR

Size	MJ x MJ			PE x MJ (Small End MJ)			MJ X PE (Large End MJ)			PE x PE				
	Item No.	Wt.	L	Item No.	Wt.	L1	Item No.	Wt.	L2	Item No.	Wt.	L3	T	T1
3 x 2	DMR32	14	2.50										0.33	0.30
4 x 2	DMR42	16	2.50	SPR42	14	8.00							0.34	0.30
4 x 3	DMR43	18	3.00	SPR43	17	8.50	LPR43	18	8.50	PPR43	14	14.00	0.34	0.33
6 x 3	DMR63	22	5.00	SPR63	24	10.50	LPR63	19	10.50	PPR63	19	16.00	0.36	0.33
6 x 4	DMR64	24	4.00	SPR64	25	9.50	LPR64	25	9.50	PPR64	22	15.00	0.36	0.34
8 x 3	DMR83		5.00										0.38	0.33
8 x 4	DMR84	32	5.00	SPR84	30	10.50	LPR84	34	10.50	PPR84	30	16.00	0.38	0.34
8 x 6	DMR86	36	4.00	SPR86	35	9.50	LPR86	32	9.50	PPR86	30	15.00	0.38	0.36
10 x 4	DMR104	46	7.00	SPR104	43	12.50	LPR104	43	12.50	PPR104	46	18.00	0.40	0.34
10 x 6	DMR106	47	5.00	SPR106	46	10.50	LPR106	42	10.50	PPR106	46	16.00	0.40	0.36
10 x 8	DMR108	50	4.00	SPR108	42	9.50	LPR108	50	9.50	PPR108	47	15.00	0.40	0.38
12 x 4	DMR124	58	9.00	SPR124	60	14.50	LPR124	60	14.50	PPR124	58	20.00	0.42	0.34
12 x 6	DMR126	58	7.00	SPR126	58	12.50	LPR126	58	12.50	PPR126	57	18.00	0.42	0.36
12 x 8	DMR128	57	5.00	SPR128	54	10.50	LPR128	55	10.50	PPR128	54	16.00	0.42	0.38
12 x10	DMR1210	61	4.00	SPR1210	59	9.50	LPR1210	59	9.50	PPR1210	54	15.00	0.42	0.40
14 x 6	DMR146	100	9.00	SPR146	100	16.90	LPR146	104	14.50	PPR146	93	22.30	0.47	0.36
14 x 8	DMR148	100	7.00	SPR148	98	14.90	LPR148	98	12.40	PPR148	94	20.30	0.47	0.38
14 x 10	DMR1410	100	5.00	SPR1410	94	12.90	LPR1410	92	10.40	PPR1410	90	18.30	0.47	0.40
14 x 12	DMR1412	100	4.00	SPR1412	90	11.90	LPR1412	92	9.40	PPR1412	88	17.30	0.47	0.42
16 x 6	DMR166	124	11.00	SPR166	125	18.90	LPR166	136	16.50	PPR166	93	24.30	0.50	0.36
16 x 8	DMR168	124	9.00	SPR168	121	16.90	LPR168	128	14.40	PPR168	119	22.30	0.50	0.38
16 x 10	DMR1610	124	7.00	SPR1610	105	15.00	LPR1610	123	12.50	PPR1610	119	20.50	0.50	0.40
16 x 12	DMR1612	112	5.00	SPR1612	109	12.90	LPR1612	108	10.50	PPR1612	99	18.30	0.50	0.42
16 x 14	DMR1614	140	4.00	SPR1614	126	12.00	LPR1614	132	12.00	PPR1614	129	19.70	0.50	0.47
18 x 4	DMR184		11.00										0.54	0.34
18 x 6	DMR186	194	13.00										0.54	0.36
18 x 8	DMR188	190	13.00	SPR188	170	20.00	LPR188	195	19.50	PPR188	170	27.40	0.54	0.38
18 x 10	DMR1810	195	10.00	SPR1810	165	18.00	LPR1810	185	17.40	PPR1810	160	25.50	0.54	0.40
18 x 12	DMR1812	180	7.00	SPR1812	150	15.50	LPR1812	175	14.00	PPR1812	150	19.50	0.54	0.42
18 x 14	DMR1814	190	6.00	SPR1814	175	15.00	LPR1814	190	15.00	PPR1814	160	23.00	0.54	0.47
18 x 16	DMR1816	195	5.00	SPR1816	170	12.50	LPR1816	190	12.50	PPR1816	145	18.00	0.54	0.50
20 x 6	DMR206	232	16.00	SPR206	201	22.00	LPR206	231	19.00	PPR206	106	27.50	0.57	0.36
20 x 8	DMR208	227	16.00	SPR208	198	27.00	LPR208	227	19.00	PPR208	106	27.50	0.57	0.38
20 x 10	DMR2010	220	14.00	SPR2010	200	22.00	LPR2010	210	19.00	PPR2010	180	27.50	0.57	0.40
20 x 12	DMR2012	205	12.00	SPR2012	170	17.50	LPR2012	205	16.00	PPR2012	190	21.50	0.57	0.42
20 x 14	DMR2014	200	10.00	SPR2014	190	18.00	LPR2014	205	17.90	PPR2014	195	26.00	0.57	0.47
20 x 16	DMR2016	200	7.00	SPR2016	185	13.50	LPR2016	200	13.50	PPR2016	170	19.00	0.57	0.50
20 x 18	DMR2018	225	4.00	SPR2018	200	12.00	LPR2018	215	12.00	PPR2018	190	20.00	0.57	0.54
24 x 6	DMR246	322	18.00	SPR246	284	21.50	LPR246	320	21.00	PPR246	283	22.50	0.61	0.36
24 x 8	DMR248	318	16.00	SPR248	282	21.50	LPR248	316	21.00	PPR248	281	22.50	0.61	0.38
24 x 10	DMR2410	312	16.00	SPR2410	276	21.50	LPR2410	310	21.00	PPR2410	274	22.50	0.61	0.40
24 x 12	DMR2412	305	16.00	SPR2412	275	21.50	LPR2412	290	21.00	PPR2412	240	22.50	0.61	0.42
24 x 14	DMR2414	310	14.00	SPR2414	310	22.00	LPR2414	315	21.90	PPR2414	295	25.00	0.61	0.47
24 x 16	DMR2416	320	12.00	SPR2416	285	17.50	LPR2416	285	17.50	PPR2416	285	23.00	0.61	0.50
24 x 18	DMR2418	305	10.00	SPR2418	300	18.00	LPR2418	310	18.00	PPR2418	290	21.00	0.61	0.54
24 x 20	DMR2420	300	7.00	SPR2420	270	13.50	LPR2420	275	13.50	PPR2420	240	14.00	0.61	0.57
30 x 12	DMR3012	499	30.00										0.66	0.42
30 x 16	DMR3016	633	30.00	SPR3016	565	39.00	LPR3016	623	39.00	PPR3016	555	48.00	0.66	0.50
30 x 18	DMR3018	658	28.00	SPR3018	590	37.00	LPR3018	635	37.00	PPR3018	567	46.00	0.66	0.54
30 x 20	DMR3020	628	24.00	SPR3020	560	33.00	LPR3020	603	33.00	PPR3020	535	42.00	0.66	0.57
30 x 24	DMR3024	478	10.00	SPR3024	495	24.50	LPR3024	526	24.50	PPR3024	458	33.50	0.66	0.61

Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372



Reducers (Continued)

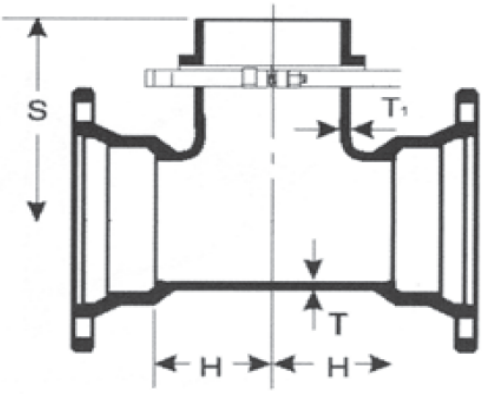
Size	MJ x MJ			PE x MJ (Small End MJ)			MJ X PE (Large End MJ)			PE x PE				
	Item No.	Wt.	L	Item No.	Wt.	L1	Item No.	Wt.	L2	Item No.	Wt.	L3	T	T1
36 x 12	DMR3612	1,058	30.00										0.74	0.42
36 x 16	DMR3616	1,016	30.00	SPR3616	595	27							0.74	0.50
36 x 18	DMR3618	983	36.00										0.74	0.54
36 x 20	DMR3620	975	36.00	SPR3620	874	45.00	LPR3620	950	45.00	PPR3620	849	54.00	0.74	0.57
36 x 24	DMR3624	770	19.00	SPR3624	746	33.00	LPR3624	810	33.00	PPR3624	709	42.00	0.74	0.61
36 x 30	DMR3630	650	15.50	SPR3630	725	24.50	LPR3630	2,758	24.50	PPR3630	657	33.50	0.74	0.66
42 x 20	DMR4220		40.00										0.82	0.57
42 x 24	DMR4224	1,356	40.00	SPR4224	1,204	49.00	LPR4224	1,319	49.00	PPR4224	1,167	58.00	0.82	0.61
42 x 30	DMR4230	1,083	20.00	SPR4230	931	29.00	LPR4230	1,015	29.00	PPR4230	863	38.00	0.82	0.66
42 x 36	DMR4236	1,114	15.50	SPR4236	962	24.50	LPR4236	1,013	24.50	PPR4236	861	33.50	0.82	0.74
48 x 20	DMR4820		40.00										0.90	0.57
48 x 24	DMR4824		40.00										0.90	0.61
48 x 30	DMR4830	1,779	40.00	SPR4830	1594	49.00	LPR4830	1,711	49.00	PPR4830	1,526	58.00	0.90	0.66
48 x 36	DMR4836	1,641	28.00	SPR4836	1456	37.00	LPR4836	1,540	37.00	PPR4836	1,355	46.00	0.90	0.74
48 x 42	DMR4842	1,426	15.50	SPR4842	1241	24.50	LPR4842	1,274	24.50	PPR4842	1,089	33.50	0.90	0.82
54 x 36	DMR5436	1,641	27.50	SPR5436	1,564	37.25							1.00	0.74
54 x 42	DMR5442	1,628	19.50	SPR5442	1,496	29.25	LPR5442	1,471	27.25				1.00	0.82
54 x 48	DMR5448	1,634	15.50										1.00	0.90
60 x 12	DMR6012	2,032	60.00											
60 x 30	DMR6030	1,891	35.50										1.05	0.66
60 x 42	DMR6042	1,914	23.50	SPR6042	1,754	33.50	LPR6042	1,741	31.50				1.05	0.82
60 x 48	DMR6048	1,832	18.00										1.05	0.90
60 x 54	DMR6054	1,602	10.00										1.05	1.00
64 x 36	DMR6436	2,152	32.50										1.11	0.74
64 x 42	DMR6442	2,161	27.25										1.11	0.82
64 x 48	DMR6448	2,148	22.50										1.11	0.90
64 x 54	DMR6454	2,097	18											

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

Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372

Tees: MJ x Swivel (Hydrant Tees)

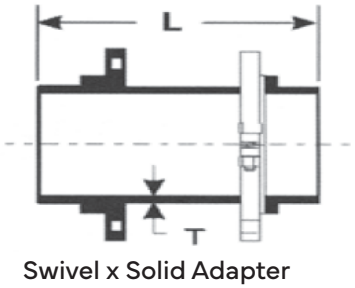
Size	Item No.	H	S	T	T1	Wt.
6 x 4	DMH64	4.00	10.00	0.36	0.34	
6 x 6	DMH66	5.00	10.00	0.36	0.36	77
8 x 6	DMH86	5.00	11.00	0.38	0.36	89
8 x 8	DMH88	6.50	11.00	0.38	0.38	116
10 x 4	DMH104	4.00	12.50	0.40	0.34	
10 x 6	DMH106	5.00	12.50	0.40	0.36	113
10 x 8	DMH108	6.50	12.50	0.40	0.38	129
12 x 4	DMH124	4.00	13.50	0.42	0.34	
12 x 6	DMH126	5.00	13.50	0.42	0.36	128
12 x 8	DMH128	6.50	13.50	0.42	0.38	149
12 x 12	DMH1212	8.75	13.50	0.42	0.42	
14 x 6	DMH146	6.50	15.00	0.47	0.36	211
14 x 8	DMH148	7.50	15.00	0.47	0.38	182
16 x 6	DMH166	6.50	16.00	0.50	0.36	248
16 x 8	DMH168	7.50	16.00	0.50	0.38	298
18 x 6	DMH186	6.50	17.00	0.54	0.36	300
18 x 8	DMH188	7.50	17.00	0.54	0.38	272
20 x 6	DMH206	6.50	18.50	0.57	0.36	358
20 x 8	DMH208	8.00	18.50	0.57	0.38	382
24 x 6	DMH246	7.00	19.00	0.61	0.36	458
24 x 8	DMH248	8.00	19.00	0.61	0.38	477
30 x 6	DMH306	7.50	24.50	0.66	0.36	614.36
30 x 8	DMH308	8.50	24.50	0.66	0.38	
36 x 6	DMH366	8.00	27.50	0.74	0.36	891
36 x 8	DMH368	9.00	27.50	0.74	0.38	936
42 x 6	DMH426	8.50	31.50	0.82	0.36	
42 x 8	DMH428	10.00	31.50	0.82	0.38	1330.19
48 x 6	DMH486	9.00	35.50	0.9	0.36	
48 x 8	DMH488	11	35.50	0.9	0.38	



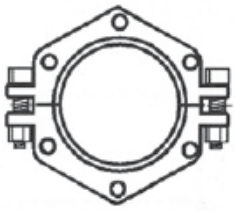
MJ x Swivel Tee

Swivel x Solid Adapter

Size	Item No.	L	T	Wt.
4	SSA413	13.00	0.34	29
6	SSA613	13.00	0.36	47
6	SSA618	18.00	0.36	58
6	SSA624	24.00	0.36	69
6	SSA630	30.00	0.36	66
6	SSA636	36.00	0.36	75
6	SSA648	48.00	0.36	94
6	SSA660	60.00	0.36	112
6	SSA672	72.00	0.36	131
8	SSA813	13.00	0.38	52
10	SSA1013	13.00	0.40	69
12	SSA1213	13.00	0.42	87



Swivel x Solid Adapter



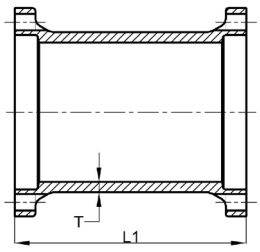
Swivel Gland

Swivel Gland

Size	Item No.	Wt.
4	HR4	8
6	HR6	18
8	HR8	15
10	HR10	18
12	HR12	24

Dual Purpose Sleeves

Item No.	L1	T	Wt.
DDL4	12	0.52	32
DDL6	12	0.55	50
DDL8	12	0.60	65
DDL10	12	0.63	89
DDL12	12	0.68	104



Dual Purpose Sleeves

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

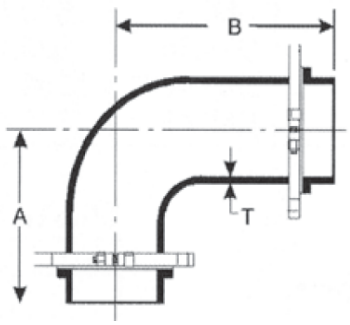
Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372

C153 DUCTILE IRON MECHANICAL JOINT

SIGMA WATERWORKS

Swivel x Solid 90° Bend

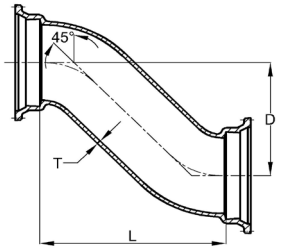
Size	Item No.	A	B	T	Wt.
3	SSB3	8.50	13.00	0.33	
4	SSB4	9.50	14.00	0.34	
6	SSB6	10.50	16.00	0.36	52
8	SSB8	12.50	18.00	0.38	74
10	SSB10	13.00	20.00	0.40	102
12	SSB12	14.50	22.00	0.42	
14	SSB14	19.50	24.00	0.47	
16	SSB16	20.50	26.00	0.50	
18	SSB18	21.00	28.00	0.54	
20	SSB20	22.50	30.00	0.57	
24	SSB24	25.00	34.00	0.61	
30	SSB30	30.50	40.00	0.66	
36	SSB36	33.50	46.00	0.74	
42	SSB42	38.25	52.00	0.82	
48	SSB48	42.25	58.00	0.90	



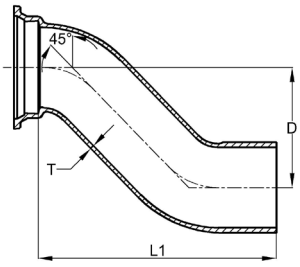
Swivel x Solid 90° Bend

Offsets

MJ x MJ Size	Item No.	Wt.	D	L	L1	T	MJ x PE Item No.	Wt.
3 x 6	DMO36	30	6.00	9.00	14.50	0.33	DMQ36	29
3 x 12	DMO312	40	12.00	15.00	20.50	0.33	DMQ312	39
3 x 18	DMO318	49	18.00	21.00	26.50	0.33	DMQ318	48
3 x 24	DMO324	55	24.00	27.00	33.50	0.33	DMQ324	53
4 x 6	DMO46	45	6.00	10.00	15.50	0.34	DMQ46	44
4 x 12	DMO412	55	12.00	16.00	21.50	0.34	DMQ412	54
4 x 18	DMO418	65	18.00	22.00	27.50	0.34	DMQ418	63
4 x 24	DMO424	75	24.00	28.00	33.50	0.34	DMQ424	72
6 x 6	DMO66	41	6.00	12.00	17.50	0.36	DMQ66	54
6 x 12	DMO612	65	12.00	18.00	23.50	0.36	DMQ612	64
6 x 18	DMO618	75	18.00	24.00	29.50	0.36	DMQ618	72
6 x 24	DMO624	85	24.00	30.00	35.50	0.36	DMQ624	82
8 x 6	DMO86	84	6.00	13.00	18.50	0.38	DMQ86	78
8 x 12	DMO812	90	12.00	19.00	24.50	0.38	DMQ812	88
8 x 18	DMO818	100	18.00	25.00	30.50	0.38	DMQ818	96
8 x 24	DMO824	147	24.00	30.00	35.50	0.38	DMQ824	149
10 x 6	DMO106	105	6.00	15.00	20.50	0.40	DMQ106	102
10 x 12	DMO1012	135	12.00	21.00	26.50	0.40	DMQ1012	132
10 x 18	DMO1018	165	18.00	27.00	32.50	0.40	DMQ1018	160
10 x 24	DMO1024	179	24.00	24.00		0.40		
12 x 6	DMO126	124	6.00	17.00	22.50	0.42	DMQ126	112
12 x 12	DMO1212	153	12.00	23.00	28.50	0.42	DMQ1212	146
12 x 18	DMO1218	190	18.00	29.00	34.50	0.42	DMQ1218	184
12 x 24	DMO1224	202	24.00	35.00	40.50	0.42	DMQ1224	194
12 x 30	DMO1230	213	30.00	41.00	46.50	0.42	DMQ1230	205
14 x 6	DMO146		6.00	16.00	24.00	0.47	DMQ146	
14 x 12	DMO1412		12.00	22.00	30.00	0.47	DMQ1412	
14 x 18	DMO1418		18.00	28.00	36.00	0.47	DMQ1418	
14 x 24	DMO1424		24.00	34.00	42.00	0.47	DMQ1424	
16 x 6	DMO166		6.00	17.00	25.00	0.50	DMQ166	
16 x 12	DMO1612		12.00	23.00	31.00	0.50	DMQ1612	
16 x 18	DMO1618		18.00	29.00	37.00	0.50	DMQ1618	356
16 x 24	DMO1624		24.00	35.00	43.00	0.50	DMQ1624	
18 x 6	DMO186		6.00	18.00	25.00	0.54	DMQ186	
18 x 12	DMO1812		12.00	24.00	31.00	0.54	DMQ1812	
18 x 18	DMO1818		18.00	30.00	37.00	0.54	DMQ1818	
18 x 24	DMO1824		24.00	36.00	43.00	0.54	DMQ1824	
20 x 6	DMO206		6.00	20.00	27.00	0.57	DMQ206	
20 x 12	DMO2012		12.00	26.00	33.00	0.57	DMQ2012	
20 x 18	DMO2018		18.00	32.00	39.00	0.57	DMQ2018	
20 x 24	DMO2024		24.00	38.00	45.00	0.57	DMQ2024	
24 x 6	DMO246		6.00	21.00	28.00	0.61	DMQ246	
24 x 12	DMO2412		12.00	27.00	34.00	0.61	DMQ2412	
24 x 18	DMO2418		18.00	33.00	40.00	0.61	DMQ2418	
24 x 24	DMO2424		24.00	39.00	46.00	0.61	DMQ2424	



MJ x MJ



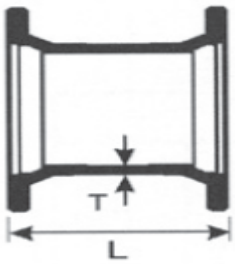
MJ x PE

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

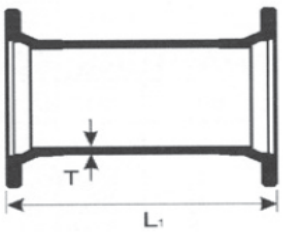
Certified to NSF/ ANSI/CAN 61 and NSF/ANSI 372

Sleeves

Size	SHORT SLEEVE Item No.	Wt.	L	LONG SLEEVE Item No.	Wt.	L1	T
2				DML2		12	0.3
3	DMS3	13	7.50	DML3	18	12	0.33
4	DMS4	17	7.50	DML4	20	12.00	0.34
6	DMS6	28	7.50	DML6	33	12.00	0.36
8	DMS8	38	7.50	DML8	46	12.00	0.38
10	DMS10	49	7.50	DML10	62	12.00	0.40
12	DMS12	56	7.50	DML12	76	12.00	0.42
14	DMS14	111	9.50	DML14	140	15.00	0.47
16	DMS16	123	9.50	DML16	170	15.00	0.50
18	DMS18	160	9.00	DML18	200	15.00	0.54
20	DMS20	195	9.00	DML20	255	15.00	0.57
24	DMS24	225	9.00	DML24	335	15.00	0.61
30	DMS30	423	15.00	DML30	640	24.00	0.66
36	DMS36	591	15.00	DML36	925	24.00	0.74
42	DMS42	788	15.00	DML42	1390	24.00	0.82
48	DMS48	978	15.00	DML48	1740	24.00	0.90
54	DMS54	978	20.00	DML54	1800.46	30.00	1.00
60				DML60	2081.22	30.00	1.05
64				DML64	2310.78	30.00	1.11



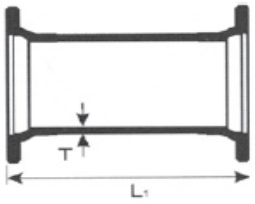
Short Sleeve



Long Sleeve

Dual Purpose Sleeves

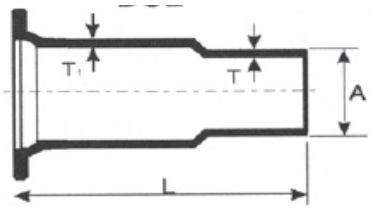
Size	Item No.	Wt.	L1	T
4	DDL4	32	12	0.52
6	DDL6	50	12	0.55
8	DDL8	65	12	0.60
10	DDL10	89	12	0.63
12	DDL12	104	12	0.68



Dual Purpose Sleeve

Dual Cutting In Sleeves

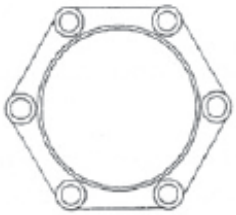
Size	Item No.	Wt.	T	T1	A	L1
3	DCL3	34	0.33	0.35	3.96	20
4	DCL4	50	0.34	0.37	4.80	20
6	DCL6	62	0.36	0.39	6.90	20
8	DCL8	90	0.38	0.41	9.05	20
10	DCL10	105	0.40	0.43	11.10	20
12	DCL12	128	0.42	0.45	13.20	20
14	DCL14		0.47	0.50	15.30	24
16	DCL16		0.50	0.53	17.40	24
18	DCL18		0.54	0.57	19.50	24
20	DCL20		0.57	0.60	21.60	24
24	DCL24		0.61	0.64	25.8	24

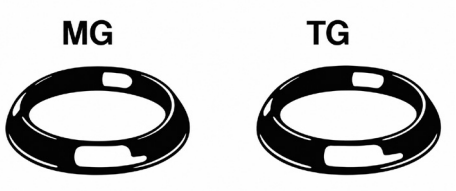


Dual Cutting- In Sleeves

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

Mechanical Joint Accessories





Standard MJ Glands

Size	Item No.	Wt.
2	DG2	1.30
3	DG3	2.08
4	DG4	3.33
6	DG6	4.93
8	DG8	5.85
10	DG10	7.84
12	DG12	9.85
14	DG14	14.70
16	DG16	18.19
18	DG18	29.81
20	DG20	33.95
24	DG24	40.00
30	DG30	83.77
36	DG36	114.00
42	DG42	165
48	DG48	192
54	DG54	286.5
60	DG60	312

Light Weight MJ Glands

Size	Item No.	Wt.
3	DG3	2.08
4	DG4	3.33
6	DG6	4.93
8	DG8	5.85
10	DG10	7.84
12	DG12	9.85
14	DG14	14.70
16	DG16	18.19

Standard MJ Gaskets / Transition Gaskets

Size	Item No.	Wt.	Item No.	Wt.
2	MG2			
3	MG3	0.25	TG3	0.50
4	MG4	0.30	TG4	0.60
6	MG6	0.50	TG6	0.75
8	MG8	0.75	TG8	1.10
10	MG10	0.80	TG10	1.30
12	MG12	1.00	TG12	1.65
14	MG14	1.30		
16	MG16	1.45		
18	MG18	1.60		
20	MG20	1.90		
24	MG24	2.10		
30	MG30	2.30		
36	MG36	2.75		
42	MG42	3.20		
48	MG48	3.65		
54	MG54			
60	MG60			
64	MG64			

Gasket/Bolt Packs

Size (in.)	Item No.	Wt. (lb.)
3	MGP3	3
4	MGP4	4
6	MGP6	6
8	MGP8	7
10	MGP10	8
12	MGP12	9

MJ Gland Packs

Size (in.)	Item No.	Wt. (lb.)
2	DGP2	6
3	DGP3	7
4	DGP4	8
6	DGP6	12
8	DGP8	15
10	DGP10	20
12	DGP12	25
14	DGP14	37
16	DGP16	43
18	DGP18	47
20	DGP20	61
24	DGP24	72

Includes: Gland, MJ Gasket, and Standard T-Head Bolts & Nuts

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

Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372

Mechanical Joint Accessories (Continued)

Low Alloy, Corrosion Resistant Steel T-Head Bolts

Standard Bolts

Size (in.)	Item No.	Wt. (lb.)
5/8 x 3	TB30	0.5
3/4 x 3 1/2	TB35	0.75
3/4 x 4	TB40	0.85
3/4 x 4 1/2	TB45	1
3/4 x 5	TB50	1.25
1 x 6	TB60	2.25
1 1/4 x 6	TB61	2.5

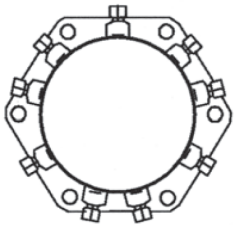


Anti-Rotation Bolts

Size (in.)	Item No.	Wt. (lb.)
3/4 x 3	ATB35	0.75
3/4 x 4	ATB40	1
3/4 x 4	ATB45	1.25
3/4 x 5	ATB50	1.5

MJ Retainer Glands

Pipe Size	Item No.	Wt.	IRON PIPE O.D	Rating (psi)	Set Screws		
					Qty	Size	Torque (ft-lbs)
3	RMG3	5	3.96	350	4	5/8 X 2	85
4	RMG4	7	4.80	350	4	5/8 X 2	85
6	RMG6	12	6.90	350	6	5/8 X 2	85
8	RMG8	16	9.05	250	9	5/8 X 2	85
10	RMG10	22	11.10	250	16	5/8 X 2	85
12	RMG12	28	13.20	250	16	5/8 X 2	85
14	RMG14	45	15.30	250	20	5/8 X 2	85
16	RMG16	52	17.40	250	24	5/8 X 2	85
18	RMG18	62	19.50	200	24	5/8 X 2	85
20	RMG20	75	21.60	200	28	3/4 X 2-1/2	110
24	RMG24	97	25.80	200	32	3/4 X 2-1/2	110
30	RMG30	196	32.00	100	40	3/4 X 2-1/2	110
36	RMG36	246	38.30	100	48	3/4 X 2-1/2	110
42	RMG42	302	44.50	100	56	3/4 X 2-1/2	110
48	RMG48	380	50.80	100	64	3/4 X 2-1/2	110



Retainer Packs

Size	Item No.	Wt.
3	RGP3	9
4	RGP4	10
6	RGP6	15
8	RGP8	19
10	RGP10	25
12	RGP12	32

Transition Gland Pack - (includes Gland, Transition Gasket and Std. T-head bolts)

Size	Item No.	Wt.
3	DXP3	7
4	DXP4	8
6	DXP6	12
8	DXP8	15
10	DXP10	20
12	DXP12	25

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

Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372

C153 MJ Non-Standard Items:

Item #	Description
•DCL16	C153 DI 16" X 16" MJ X MJ CUT-IN SLEEVE
•DMB1612	C153 DI 16" X 12" MJ X MJ REDUCING BEND
•DMB1830	C153 DI 18" X 30" MJ X MJ 30 BEND
•DMB211	C153 DI 2" MJ x MJ 11-1/4 DEGREE BEND
•DMB222	C153 DI 2" MJ x MJ 22-1/2 DEGREE BEND
•DMB2405	C153 DI 24" X 24" MJ X MJ 5-5/8 DEGREE BEND
•DMB3005	C153 DI 30" X 30" MJ X MJ 5-5/8 DEGREE BEND
•DMB3605	C153 DI 36" x 36" MJ X MJ 5-5/8 DEGREE BEND
•DMB4205	C153 DI 42" X 42" MJ X MJ 5-5/8 DEGREE BEND
•DMB4260	C153 DI MJ 42X60 BEND
•DMB4805	C153 DI 48" X 48" MJ X MJ 5-5/8 DEGREE BEND
•DMB4830	C153 DI 48" X 30" MJ X MJ 30 DEGREE BEND
•DMC186	C153 DI 18" X 6" MJ X MJ CROSS
•DMF103	C153 DI 10" X 3" MJ X FLG TEE
•DML2	C153 DI 2" X 2" MJ X MJ LONG SLEEVE
•DTK2	C153 DI 2" MJ CAP (TAPPED)
•PPR83	C153 DI 8" X 3" PE X PE CONCENTRIC REDUCER
•SPR62	C153 DI 6" X 2" PE X MJ SEB CONCENTRIC REDUCER
•SPR83	C153 DI 8" X 3" PE X MJ SEB CONCENTRIC REDUCER
•SSA824	C153 DI 8" X 24" SOLID X SWL ADAPTER
•SSA836	C153 DI 8" X 36" SOLID X SWL ADAPTER
•TG2	2" MJ TRANS RUBBER GSKT
•DML2	C153 DI 2" X 2" MJ X MJ LONG SLEEVE
•DMR4220	C153 DI 42" X 20" MJ X MJ CONCENTRIC REDUCER
•DMR4820	C153 DI 48" X 20" MJ X MJ CONCENTRIC REDUCER
•DMR83	C153 DI 8" X 3" MJ X MJ CONCENTRIC REDUCER
•DMT304	C153 DI 30" X 4" MJ X MJ TEE
•DMT62	C153 DI 6" X 2" MJ X MJ TEE

Note: Contact SIGMA for more information on non-standard fittings.

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jboucher@repco.ca

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- 3-24” C153 Ductile Iron Push-On Fittings
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- 3-36” Ductile Iron Mechanical Joint Connector
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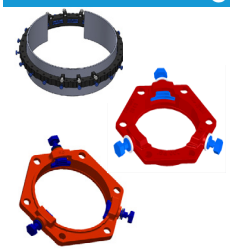
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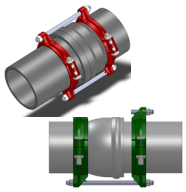
ONE-LOK™ Wedge Action Restraints



- 3-48” ONE-LOK™ D-SLDE Domestic Wedge Restraint for Ductile Iron Pipe
- 3-64” ONE-LOK™ SLDE Wedge Restraint for Ductile Iron Pipe (Import)
- 4-48” ONE-LOK™ T-SLDE Tandem Wedge Restraint for High Pressure Ductile Iron Pipe
- 3-36” ONE-LOK™ D-SLCE Domestic Wedge Restraint for PVC Pipe
- 3-12” ONE-LOK™ SLC Wedge Restraint for PVC Pipe (Import)
- 3-60” ONE-LOK™ SLCE Wedge Restraint for PVC Pipe (Import)
- 3-42” ONE-LOK™ SLDEH Wedge Harness Restraint for Ductile Iron Pipe
- 4-12” /16” /20” ONE-LOK™ SLDM Wedge Restraint for Oversized Cast Iron Pipe
- 4-48” ONE-LOK SSLD™ Split Wedge Restraint for Installed Ductile Iron Pipe & Fitting
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- 4-12” PV-LOK™ PWH Serrated Harness Restraint for AWWA C900 PVC Pipe
- 2-12” PV-LOK™ PVM Serrated Restraint for Ductile Iron & IPS OD PVC pipe
- 2-12” PV-LOK™ PVP Serrated Bell Joint Restraint for IPS OD PVC Pipe
- 2-8” PV-LOK™ PVPF Serrated Restraint for IPS OD PVC Pipe & PVC Fitting
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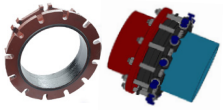
- 3-64” High Hub Threaded Flanges
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- 3-48” Threaded MJ Bell Adapters
- 3-48” MJ x PE Bell adapter
- 3-48” Anchor Flanges
- 3-16” Filler Flanges

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- Flange-Pak™ Prepackaged Flange Accessory Sets
- Polyethylene Encasement for Ductile Iron Pipe
- Copper Tubing Products
- Tracer Wire & Detectable/Non-Detectable Marking Tape
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- Socket Clamps and Tie Rod Accessories
- Boxlok Valve Box Alignment Device
- Cast Iron Companion Flanges

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- 3-36” SIGMAFLANGE Flange Adapter Sleeve for PVC and Ductile Iron Pipe
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