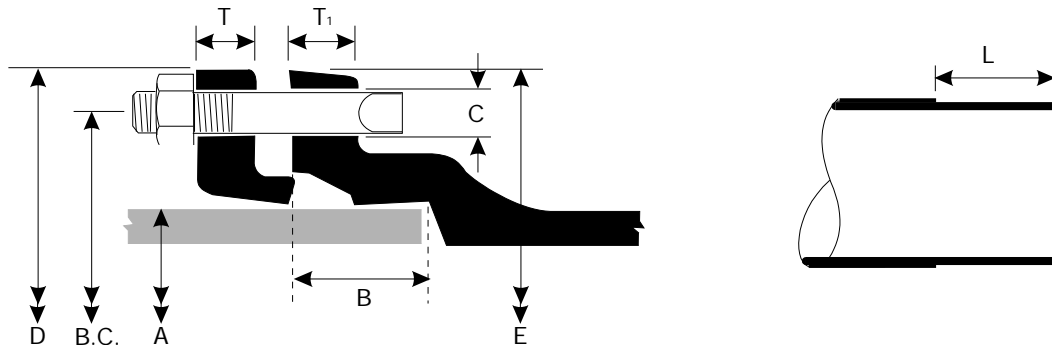


3"-48" DUCTILE IRON MECHANICAL JOINT FITTINGS CLASS 350

BASIC SPECIFICATIONS

- MATERIAL:** Ductile Iron ASTM A536
- PRESSURE:** 350 PSI Water Working Pressure (CLASS 350) 3"-24": 250 PSI 30"-48"
- TESTING:** In accordance with ANSI / AWWA C153 / A21.53 & UL - FM requirements
- 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 (3"-48")
- CEMENT LINING:** In accordance with ANSI / AWWA C104 / A21.4
- COATING:** Tar coated (bituminous) inside and out in accordance with ANSI / AWWA C104 / A21.4
- GASKETS:** SBR In accordance with ANSI / AWWA C111 / A21.11
- 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 61 Standard
 ANSI / AWWA C153 / A21.53 for Compact Ductile Iron Fittings 3"-24" for water and other liquids.



MECHANICAL JOINT DETAILS

PLAIN END DETAILS

Size	A	B	B.C.	C	D	E	T	T ₁	Bolts			Size	O.D.	L
									No.	Size	L			
3	3.96	2.50	6.19	3/4	7.69	7.62	.62	.58	4	5/8	3	3	3.96	5.5
4	4.80	2.50	7.50	7/8	9.12	9.06	.75	.60	4	3/4	3.5	4	4.80	5.5
6	6.90	2.50	9.50	7/8	11.12	11.06	.88	.63	6	3/4	3.5	6	6.90	5.5
8	9.05	2.50	11.75	7/8	13.37	13.31	1.00	.66	6	3/4	4	8	9.05	5.5
10	11.10	2.50	14.00	7/8	15.62	15.62	1.00	.70	8	3/4	4	10	11.10	5.5
12	13.20	2.50	16.25	7/8	17.88	17.88	1.00	.73	8	3/4	4	12	13.20	5.5
14	15.30	3.50	18.75	7/8	20.25	20.25	1.25	.79	10	3/4	4	14	15.30	8.0
16	17.40	3.50	21.00	7/8	22.50	22.50	1.31	.85	12	3/4	4	16	17.40	8.0
18	19.50	3.50	23.25	7/8	24.83	24.75	1.38	1.00	12	3/4	4	18	19.50	8.0
20	21.60	3.50	25.50	7/8	27.00	27.00	1.44	1.02	14	3/4	4	20	21.60	8.0
24	25.80	3.50	30.00	7/8	31.50	31.50	1.56	1.02	16	3/4	4.5	24	25.80	8.0
30	32.00	4.00	36.88	1 1/8	39.12	39.12	2.00	1.54	20	1	6	30	32.00	8.0
36	38.30	4.00	43.75	1 1/8	46.00	46.00	2.00	1.70	24	1	6	36	38.30	8.0
42	44.50	4.00	50.62	1 3/8	53.12	53.12	2.00	1.45	28	1 1/4	6	42	44.50	8.0
48	50.80	4.00	57.50	1 3/8	60.00	60.00	2.00	1.45	32	1 1/4	6	48	50.80	8.0

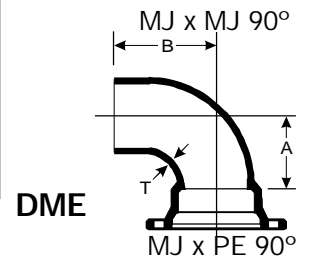
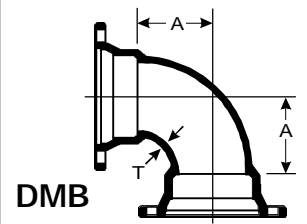
Weights in pounds
 Dimensions in inches
 All Weights shown without accessories

MJ x MJ

90° BENDS

MJ x PE

Size	Item No.	Wt.	A	B	T	Item No.	Wt.
2	DMB290	17	3.0		.30		
3	DMB390	19	3.5	9.5	.34	DME390	16
4	DMB490	25	4.0	10.2	.35	DME490	22
6	DMB690	39	5.0	11.7	.37	DME690	41
8	DMB890	57	6.5	12.7	.39	DME890	58
10	DMB1090	89	7.5	14.7	.41	DME1090	83
12	DMB1290	108	9.0	15.7	.43	DME1290	114
14	DMB1490	210	11.5	19.5	.51	DME1490	197
16	DMB1690	264	12.5	20.5	.52	DME1690	24
18	DMB1890	335	14.0	22.0	.54	DME1890	311
20	DMB2090	400	15.0	23.5	.57	DME2090	370
24	DMB2490	565	16.75	26.5	.61	DME2490	518
30	DMB3090	930	25.5		.66		
36	DMB3690	1450	24.5		.76		
42	DMB4290	2205	29.25		.82		
48	DMB4890	2990	33.25		.90		

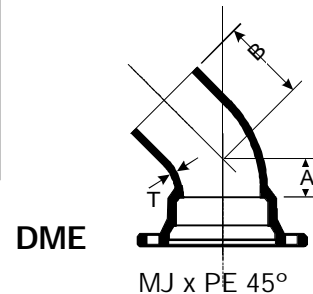
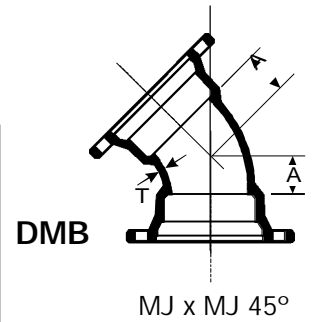


MJ x MJ

45° BENDS

MJ x PE

Size	Item No.	Wt.	A	B	T	Item No.	Wt.
2	DMB245	10	1.5		.30		
3	DMB345	16	1.5	7.0	.34	DME345	13
4	DMB445	22	2.0	7.7	.35	DME445	19
6	DMB645	32	3.0	8.7	.37	DME645	34
8	DMB845	46	3.5	9.2	.39	DME845	49
10	DMB1045	73	4.5	10.2	.41	DME1045	69
12	DMB1245	95	5.5	11.2	.43	DME1245	93
14	DMB1445	170	5.0	13.0	.51	DME1445	146
16	DMB1645	214	5.5	13.5	.52	DME1645	184
18	DMB1845	253	6.0	14.0	.54	DME1845	246
20	DMB2045	310	7.0	15.0	.57	DME2045	293
24	DMB2445	410	7.5	15.5	.61	DME2445	390
30	DMB3045	716	10.5		.66		
36	DMB3645	1110	11.5		.76		
42	DMB4245	1610	14.0		.82		
48	DMB4845	2090	15.0		.90		

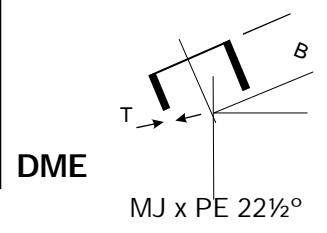
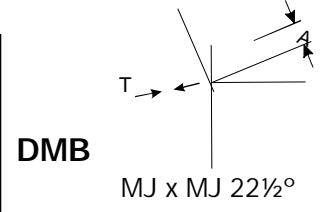


MJ x MJ

22½° BENDS

MJ x PE

Size	Item No.	Wt.	A	B	T	Item No.	Wt.
3	DMB322	15	1.00	6.5	.34	DME322	12
4	DMB422	18	1.50	7.0	.35	DME422	18
6	DMB622	31	2.00	7.5	.37	DME622	29
8	DMB822	46	2.50	8.0	.39	DME822	43
10	DMB1022	64	3.00	8.5	.41	DME1022	61
12	DMB1222	80	3.50	9.0	.43	DME1222	79
14	DMB1422	136	3.75	13.0	.51	DME1422	133
16	DMB1622	172	3.75	13.5	.52	DME1622	160
18	DMB1822	255	4.50	14.0	.54	DME1822	248
20	DMB2022	315	4.50	15.0	.57	DME2022	290
24	DMB2422	412	4.50	15.5	.61	DME2422	395
30	DMB3022	665	6.75		.66		
36	DMB3622	960	7.75		.76		
42	DMB4222	1350	9.00		.82		
48	DMB4822	1760	10.00		.90		

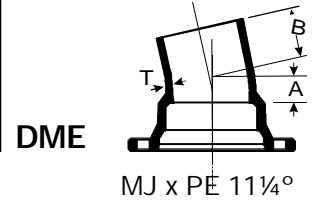
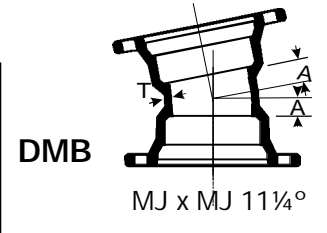


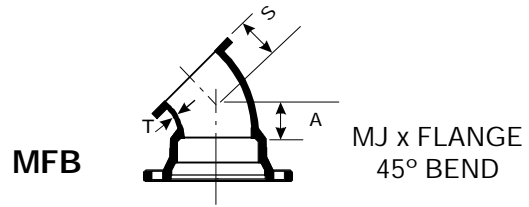
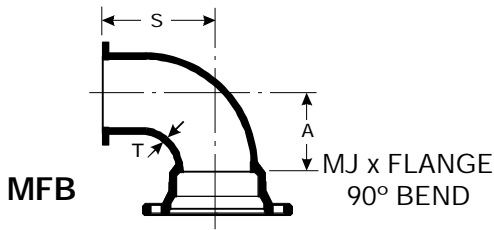
MJ x MJ

11¼° BENDS

MJ x PE

Size	Item No.	Wt.	A	B	T	Item No.	Wt.
3	DMB311	14	1.00	6.50	.34	DME311	12
4	DMB411	16	1.25	6.75	.35	DME411	17
6	DMB611	30	1.50	7.00	.37	DME611	27
8	DMB811	42	1.75	7.25	.39	DME811	39
10	DMB1011	58	2.00	7.50	.41	DME1011	52
12	DMB1211	67	2.25	7.75	.43	DME1211	69
14	DMB1411	93	2.50	13.00	.51	DME1411	118
16	DMB1611	148	2.50	13.50	.52	DME1611	136
18	DMB1811	205	3.00	14.00	.54	DME1811	248
20	DMB2011	245	3.00	15.00	.57	DME2011	291
24	DMB2411	315	3.00	15.50	.61	DME2411	400
30	DMB3011	600	4.75		.66		
36	DMB3611	820	5.00		.76		
42	DMB4211	1180	6.00		.82		
48	DMB4811	1475	6.50		.90		



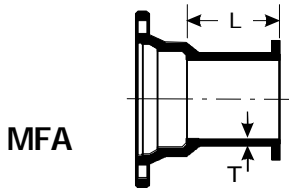


90° BENDS: MJ x FLANGE

Size	Item No.	A	S	T	Wt.
3	MFB390	4.0	5.5	.34	21
4	MFB490	4.7	6.5	.35	28
6	MFB690	6.2	8.0	.37	46
8	MFB890	7.2	9.0	.39	71
10	MFB1090	9.2	11.0	.41	121
12	MFB1290	10.2	12.0	.43	155
16	MFB1690	12.5	15.0	.52	280
20	MFB2090	15.5	18.0	.57	441
24	MFB2490	18.5	22.0	.61	618

45° BENDS: MJ x FLANGE

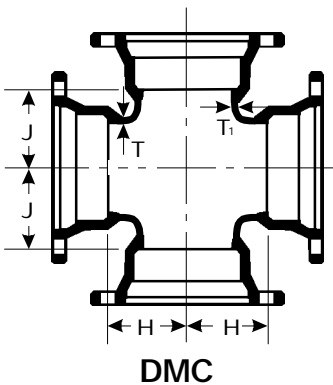
Size	Item No.	A	S	T	Wt.
3	MFB345	1.5	3.0	.34	17
4	MFB445	2.2	4.0	.35	34
6	MFB645	3.2	5.0	.37	57
8	MFB845	3.7	5.5	.39	83
10	MFB1045	4.7	6.5	.41	122
12	MFB1245	5.7	7.5	.43	159
16	MFB1645	5.5	8.0	.52	290
20	MFB2045	6.0	9.5	.57	338
24	MFB2490	7.0	11.0	.61	442



ADAPTERS: MJ x FLANGE

Size	Item No.	L	T	Wt.
3	MFA3	3.5	.34	18
4	MFA4	3.5	.35	24
6	MFA6	3.5	.37	36
8	MFA8	3.5	.39	52
10	MFA10	3.5	.41	67
12	MFA12	3.5	.43	80
14	MFA14	5.0	.51	126
16	MFA16	5.0	.52	166
18	MFA18	5.0	.54	206
20	MFA20	5.0	.57	275
24	MFA24	5.0	.61	324
30	MFA30	7.0	.66	420

CROSSES

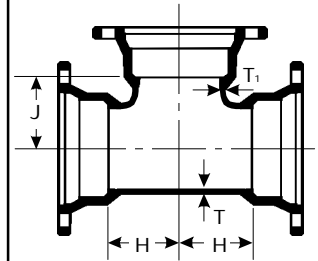


Size		Item No.	H	J	T	T ₁	Wt.
Run	Branch						
3	3	DMC33	3.0	3.0	.34	.34	35
4	3	DMC43	3.0	4.0	.35	.34	49
4	4	DMC44	4.0	4.0	.35	.35	40
6	4	DMC64	4.0	5.0	.37	.35	68
6	6	DMC66	5.0	5.0	.37	.37	75
8	4	DMC84	4.0	6.0	.39	.35	99
8	6	DMC86	5.0	6.0	.39	.37	108
8	8	DMC88	6.0	6.0	.39	.39	105
10	3	DMC103	3.0	7.0	.41	.34	115
10	4	DMC104	4.0	7.0	.41	.35	98
10	6	DMC106	5.0	7.0	.41	.37	118
10	8	DMC108	6.0	7.0	.41	.39	138
10	10	DMC1010	7.0	7.0	.41	.41	145
12	4	DMC124	4.0	8.5	.43	.35	100
12	6	DMC126	5.0	8.5	.43	.37	140
12	8	DMC128	6.0	8.5	.43	.39	162
12	10	DMC1210	7.0	8.5	.43	.41	190
12	12	DMC1212	8.5	8.5	.43	.43	213
14	8	DMC148	8.0	10.5	.51	.39	259
14	14	DMC1414	10.5	10.5	.51	.51	299
16	6	DMC166	7.0	12.0	.52	.37	250
16	8	DMC168	8.0	12.0	.52	.39	289
16	10	DMC1610	9.0	12.0	.52	.41	345
16	12	DMC1612	10.0	12.0	.52	.43	397
16	16	DMC1616	11.5	11.5	.52	.52	385
20	20	DMC2020	14.0	14.0	.57	.57	605
24	24	DMC2424	16.0	16.0	.61	.61	830

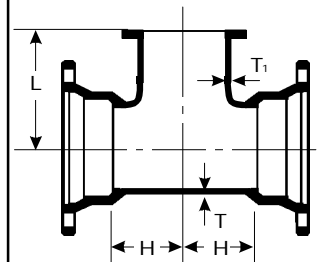
Weights in Pounds
 Dimensions in Inches
 All Weights shown without accessories

TEES

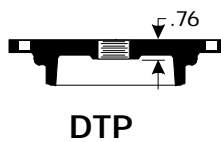
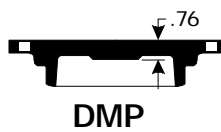
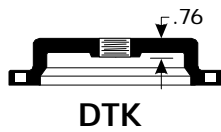
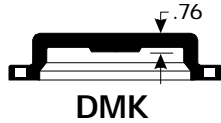
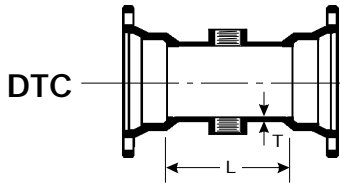
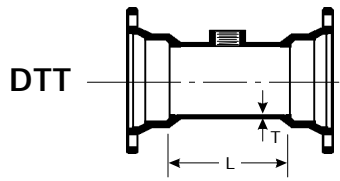
Size	MJ x MJ				T		MJ x FLANGE			
	Item No.	Wt.	H	J	T	T ₁	Item No.	Wt.	H	L
2 x 2	DMT22	16	3.00	3.00	.30	.30				
3 x 3	DMT33	28	3.00	3.00	.34	.34	DMF33	28	N/A	N/A
4 x 2	DMT42	29	3.00	4.00	.35	.30				
4 x 3	DMT43	30	3.50	4.00	.35	.34	DMF43	34	N/A	N/A
4 x 4	DMT44	32	4.00	4.00	.35	.35	DMF44	38	4.00	6.5
6 x 3	DMT63	42	3.50	5.00	.37	.34	DMF63	51	4.00	8.0
6 x 4	DMT64	46	4.00	5.00	.37	.35	DMF64	54	5.00	8.0
6 x 6	DMT66	56	5.00	5.00	.37	.37	DMF66	56	5.00	8.0
8 x 3	DMT83	52	N/A	N/A	N/A	N/A	DMF83	70	4.00	9.0
8 x 4	DMT84	60	4.00	6.50	.39	.35	DMF84	72	5.00	9.0
8 x 6	DMT86	72	5.00	6.50	.39	.37	DMF86	83	5.00	9.0
8 x 8	DMT88	86	6.50	6.50	.39	.39	DMF88	94	6.50	9.0
10 x 3	DMT103	75	4.00	7.50	.41	.34	DMF103	90		
10 x 4	DMT104	78	4.00	7.50	.41	.35	DMF104	89	5.00	11.0
10 x 6	DMT106	90	5.00	7.50	.41	.37	DMF106	107	5.00	11.0
10 x 8	DMT108	105	6.50	7.50	.41	.39	DMF108	115	6.50	11.0
10 x 10	DMT1010	120	7.50	7.50	.41	.41	DMF1010	130	7.50	11.0
12 x 3	DMT123	90	4.00	8.75	.43	.34				
12 x 4	DMT124	94	4.00	8.75	.43	.35	DMF124	115	5.00	12.0
12 x 6	DMT126	110	5.00	8.75	.43	.37	DMF126	120	5.00	12.0
12 x 8	DMT128	125	6.50	8.75	.43	.39	DMF128	146	6.50	12.0
12 x 10	DMT1210	140	7.50	8.75	.43	.41	DMF1210	174	7.50	12.0
12 x 12	DMT1212	160	8.75	8.75	.43	.43	DMF1212	198	8.75	12.0
14 x 6	DMT146	182	6.50	10.50	.51	.37				
14 x 8	DMT148	206	7.50	10.50	.51	.39				
14 x 10	DMT1410	228	8.50	10.50	.51	.41				
14 x 12	DMT1412	234	9.50	10.50	.51	.43				
14 x 14	DMT1414	280	10.50	10.50	.51	.51				
16 x 6	DMT166	228	6.50	11.50	.52	.37	DMF166	213	6.00	15.0
16 x 8	DMT168	248	7.50	11.50	.52	.39	DMF168	260	8.00	15.0
16 x 10	DMT1610	264	8.50	11.50	.52	.41	DMF1610	287	9.00	15.0
16 x 12	DMT1612	280	9.50	11.50	.52	.43	DMF1612	312	10.00	15.0
16 x 14	DMT1614	316	10.50	11.50	.52	.51				
16 x 16	DMT1616	322	11.50	11.50	.52	.52				
18 x 6	DMT186	275	6.50	12.50	.54	.37	DMF186	261	7.00	15.5
18 x 8	DMT188	295	7.50	12.50	.54	.39				
18 x 18	DMT1818	435	12.50	12.50	.54	.54				
20 x 6	DMT206	315	6.50	14.00	.57	.37	DMF206	345	7.00	17.0
20 x 8	DMT208	345	8.00	14.00	.57	.39	DMF208	384	8.00	17.0
20 x 10	DMT2010	370	9.00	14.00	.57	.41				
20 x 12	DMT2012	395	10.00	14.00	.57	.43				
20 x 16	DMT2016	465	12.00	14.00	.57	.52				
20 x 18	DMT2018	505	13.00	14.00	.57	.54				
20 x 20	DMT2020	535	14.00	14.00	.57	.57				
24 x 6	DMT246	415	7.00	16.00	.61	.37	DMF246	460	7.00	19.0
24 x 8	DMT248	445	8.00	16.00	.61	.39	DMF248	418	8.50	19.0
24 x 10	DMT2410	470	9.00	16.00	.61	.41				
24 x 12	DMT2412	500	10.00	16.00	.61	.43				
24 x 16	DMT2416	580	12.00	16.00	.61	.52				
24 x 18	DMT2418	625	13.00	16.00	.61	.54				
24 x 20	DMT2420	660	14.00	16.00	.61	.57				
24 x 24	DMT2424	720	16.00	16.00	.61	.61				
30 x 6	DMT306	700	7.00	20.00	.66	.37				
30 x 12	DMT3012	739	10.00	20.00	.66	.43				
30 x 16	DMT3016	959	12.50	20.00	.66	.52				
30 x 24	DMT3024	1160	16.00	20.00	.66	.61				
30 x 30	DMT3030	1323	20.00	20.00	.66	.66				
36 x 12	DMT3612	1205	10.00	23.50	.76	.43				
36 x 16	DMT3616	1350	12.50	23.50	.76	.52				
36 x 24	DMT3624	1498	16.00	23.50	.76	.61				
36 x 36	DMT3636	1900	23.50	23.50	.76	.76				
42 x 24	DMT4224	2270	20.00	29.50	.82	.61				
42 x 30	DMT4230	2425	22.00	29.50	.82	.66				
42 x 36	DMT4236	3000	30.00	30.00	.82	.74				
42 x 42	DMT4242	3175	30.00	30.00	.82	.82				
48 x 24	DMT4824	2870	23.00	32.00	.90	.61				
48 x 30	DMT4830	3050	23.00	32.00	.90	.66				
48 x 36	DMT4836	3900	33.50	33.25	.90	.74				
48 x 42	DMT4842	4100	33.50	33.50	.90	.82				
48 x 48	DMT4848	4250	33.50	33.50	.90	.90				



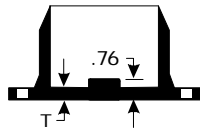
**MJ x MJ
DMT**



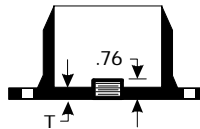
**MJ x FLANGE
DMF**



DPP



PTP



TAPPED TEES AND TAPPED CROSSES

Size	TEE		CROSS		T	L	Tap Size
	Item No.	Wt.	Item No.	Wt.			
3	DTT3	19	DTC3	19	.34	6	2
4	DTT4	23	DTC4	23	.35	6	2
6	DTT6	37	DTC6	37	.37	6	2
8	DTT8	53	DTC8	53	.39	6	2
10	DTT10	68	DTC10	68	.41	6	2
12	DTT12	88	DTC12	88	.43	6	2
16	DTT16	164	DTC16	202	.52	8	2
20	DTT20	259	DTC20	259	.57	10	2
24	DTT24	320	DTC24	320	.61	10	2

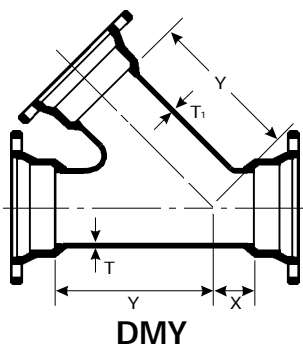
CAPS AND PLUGS

Size	SOLID CAP	TAPPED CAP	Wt.	SOLID PLUG	TAPPED PLUG	Wt.
	Item No.	Item No.		Item No.	Item No.	
2	DMK2		10			
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

PUSH-IN PLUGS

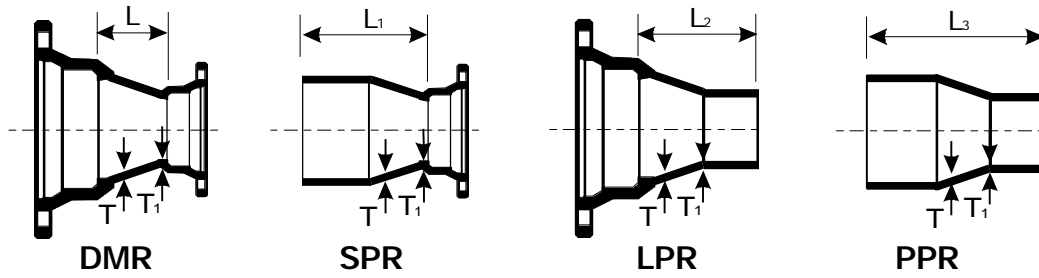
Size	SOLID PLUG Item No.	TAPPED PLUG Item No.	Wt.	T
4	DPP4	PTP4	12	.43
6	DPP6	PTP6	20	.47
8	DPP8	PTP8	27	.49
10	DPP10	PTP10	36	.52
12	DPP12	PTP12	47	.54
16	DPP16	PTP16	59	.60

45° LATERALS



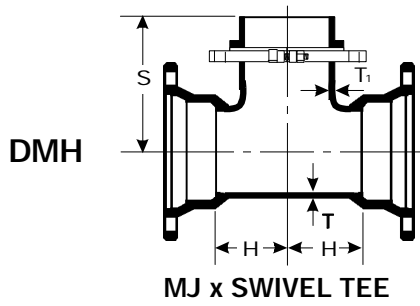
Run	Branch	Item No.	Size		T	T ₁	Wt.
			X	Y			
3	3	DMY33	2.0	8.5	.34	.34	36
4	4	DMY44	2.5	9.5	.35	.35	45
6	4	DMY64	1.5	11.0	.37	.35	67
6	6	DMY66	3.0	13.0	.37	.37	93
8	4	DMY84	0.5	13.0	.39	.35	93
8	6	DMY86	2.0	14.5	.39	.37	113
8	8	DMY88	3.5	16.0	.39	.39	136
10	4	DMY104	0.0	15.0	.41	.35	118
10	6	DMY106	1.0	16.0	.41	.37	136
10	8	DMY108	2.5	17.0	.41	.39	170
10	10	DMY1010	3.5	19.0	.41	.41	199
12	4	DMY124	0.0	16.5	.43	.35	150
12	6	DMY126	1.5	18.5	.43	.37	186
12	8	DMY128	1.5	18.5	.43	.39	188
12	10	DMY1210	3.0	20.0	.43	.41	223
12	12	DMY1212	4.5	22.5	.43	.43	272

Weights in Pounds
 Dimensions in Inches
 All Weights shown without accessories



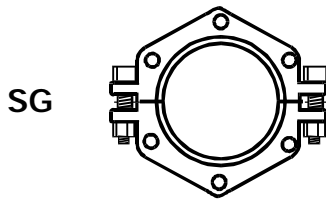
REDUCERS

Size	MJ x MJ			PE x MJ (Small End MJ)			MJ x PE (Large End MJ)			PE x PE			T	T ₁
	Item No.	Wt.	L	Item No.	Wt.	L ₁	Item No.	Wt.	L ₂	Item No.	Wt.	L ₃		
4 x 2	DMR42	16	2.5	SPR42	14	8.0							.35	.30
4 x 3	DMR43	18	3.0	SPR43	17	8.5	LPR43	18	8.5	PPR43	17	14.0	.35	.34
6 x 3	DMR63	22	5.0	SPR63	23	10.5	LPR63	26	10.5	PPR63	25	16.0	.37	.34
6 x 4	DMR64	24	4.0	SPR64	26	9.5	LPR64	28	9.5	PPR64	25	15.0	.37	.35
8 x 4	DMR84	32	5.0	SPR84	33	10.5	LPR84	34	10.5	PPR84	33	16.0	.39	.35
8 x 6	DMR86	36	4.0	SPR86	36	9.5	LPR86	37	9.5	PPR86	35	15.0	.39	.37
10 x 4	DMR104	46	7.0	SPR104	44	12.5	LPR104	44	12.5	PPR104	47	18.0	.41	.35
10 x 6	DMR106	47	5.0	SPR106	46	10.5	LPR106	46	10.5	PPR106	46	16.0	.41	.37
10 x 8	DMR108	50	4.0	SPR108	49	9.5	LPR108	50	9.5	PPR108	50	15.0	.41	.39
12 x 4	DMR124	58	9.0	SPR124	60	14.5	LPR124	61	14.5	PPR124	59	20.0	.43	.35
12 x 6	DMR126	58	7.0	SPR126	60	12.5	LPR126	60	12.5	PPR126	60	18.0	.43	.37
12 x 8	DMR128	57	5.0	SPR128	61	10.5	LPR128	62	10.5	PPR128	60	16.0	.43	.39
12 x 10	DMR1210	61	4.0	SPR1210	61	9.5	LPR1210	64	9.5	PPR1210	65	15.0	.43	.41
14 x 6	DMR146	100	9.0										.51	.37
14 x 8	DMR148	100	7.0										.51	.39
14 x 10	DMR1410	100	5.0										.51	.41
14 x 12	DMR1412	100	4.0										.51	.43
16 x 6	DMR166	124	11.0	SPR166	139	20.0	LPR166	158	21.0	PPR166	133	29.0	.52	.37
16 x 8	DMR168	124	9.0	SPR168	134	18.0	LPR168	158	18.0	PPR168	133	26.0	.52	.39
16 x 10	DMR1610	124	7.0	SPR1610	132	16.0	LPR1610	151	16.0	PPR1610	129	22.0	.52	.41
16 x 12	DMR1612	112	5.0	SPR1612	124	14.0	LPR1612	141	14.0	PPR1612	119	20.0	.52	.43
16 x 14	DMR1614	140	4.0				LPR1614	135	13.0				.52	.51
18 x 6	DMR186	194	16.0										.54	.37
18 x 8	DMR188	190	13.0										.54	.39
18 x 12	DMR1812	180	7.0	SPR1812	155	16.0	LPR1812	175	16.0	PPR1812	150	22.0	.54	.43
18 x 14	DMR1814	190	6.0	SPR1814	175	15.0	LPR1814	190	15.0	PPR1814	160	23.0	.54	.51
18 x 16	DMR1816	195	5.0				LPR1816	190	13.0				.54	.52
20 x 6	DMR206	232	22.0	SPR206	201	30.0	LPR206	231	27.5	PPR206	106	35.5	.57	.37
20 x 8	DMR208	227	19.0	SPR208	198	27.0	LPR208	227	24.5	PPR208	106	32.5	.57	.39
20 x 10	DMR2010	220	14.0	SPR2010	200	24.0	LPR2010	217	21.5	PPR2010	193	29.5	.57	.41
20 x 12	DMR2012	205	12.0	SPR2012	186	21.0	LPR2012	211	18.0	PPR2012	190	26.0	.57	.43
20 x 14										PPR2014	195	26.0	.57	.51
20 x 16	DMR2016	200	7.0	SPR2016	201	15.0	LPR2016	209	15.0	PPR2016	181	23.0	.57	.52
20 x 18	DMR2018	225	4.0	SPR2018	200	12.0	LPR2018	193	12.0	PPR2018	190	20.0	.57	.54
24 x 6	DMR246	322	28.0	SPR246	284	36.0	LPR246	320	33.5	PPR246	283	41.5	.61	.37
24 x 8	DMR248	318	25.0	SPR248	282	33.0	LPR248	316	30.5	PPR248	281	38.5	.61	.39
24 x 10	DMR2410	312	22.0	SPR2410	276	30.0	LPR2410	310	27.5	PPR2410	274	35.5	.61	.41
24 x 12	DMR2412	305	16.0	SPR2412	275	27.0	LPR2412	299	24.0	PPR2412	262	32.0	.61	.43
24 x 16	DMR2416	320	12.0	SPR2416	285	21.0	LPR2416	297	21.0	PPR2416	285	29.0	.61	.52
24 x 18	DMR2418	305	10.0										.61	.54
24 x 20	DMR2420	300	7.0	SPR2420	270	15.0	LPR2420	283	15.0	PPR2420	240	23.0	.61	.57
30 x 24	DMR3024	478	10.0										.66	.61
36 x 24	DMR3624	770	19.0										.76	.61
42 x 30	DMR4224	1356	40.0										.82	.61
42 x 36	DMR4236	1114	15.5										.82	.74
48 x 36	DMR4836	1641	28.0										.90	.74



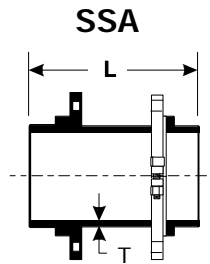
TEES: MJ x SWIVEL

Size	Item No.	H	S	T	T ₁	Wt.
6 x 6	DMH66	5.0	10.0	.37	.37	77
8 x 6	DMH86	5.0	11.0	.39	.37	89
8 x 8	DMH88	6.5	11.0	.39	.39	116
10 x 6	DMH106	5.0	12.5	.41	.37	113
10 x 8	DMH108	6.5	12.5	.41	.39	129
12 x 6	DMH126	5.0	13.5	.43	.37	128
12 x 8	DMH128	6.5	13.5	.43	.39	149
14 x 6	DMH146	7.0	15.0	.51	.37	211
16 x 6	DMH166	7.0	16.0	.52	.37	248
16 x 8	DMH168	8.0	16.0	.52	.39	298
18 x 6	DMH186	7.0	17.0	.54	.37	300
20 x 6	DMH206	7.0	18.5	.57	.37	358
20 x 8	DMH208	8.0	18.5	.57	.39	382
24 x 6	DMH246	7.0	19.0	.61	.37	458
24 x 8	DMH248	8.5	19.0	.61	.39	477



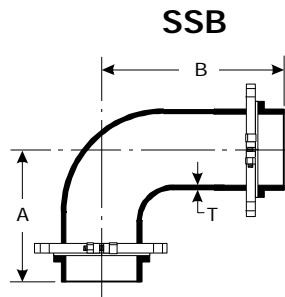
SWIVEL GLAND

Size	Item No.	Wt.
4	SG4	8
6	SG6	18
8	SG8	15
10	SG10	18
12	SG12	24



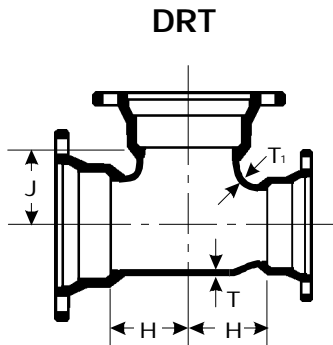
ADAPTERS: SOLID x SWIVEL

Size	Item No.	L	T	Wt.
4	SSA413	13	.35	29
6	SSA613	13	.37	47
6	SSA618	18	.37	58
6	SSA624	24	.37	69
6	SSA630	30	.37	66
6	SSA636	36	.37	75
6	SSA648	48	.37	94
6	SSA660	60	.37	112
6	SSA672	72	.37	131
8	SSA813	13	.39	52
10	SSA1013	13	.41	69
12	SSA1213	13	.43	87



SWIVEL x SWIVEL BEND

Size	Item No.	A	B	T	Wt.
6	SSB6	10.5	16.0	.36	52
8	SSB8				74
10	SSB10				102

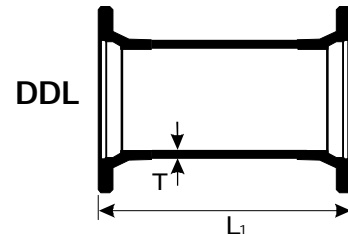
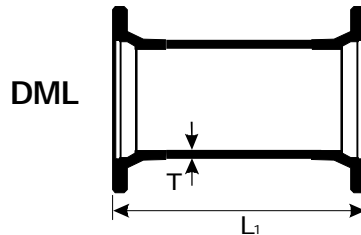
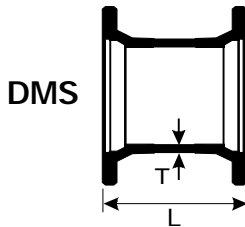
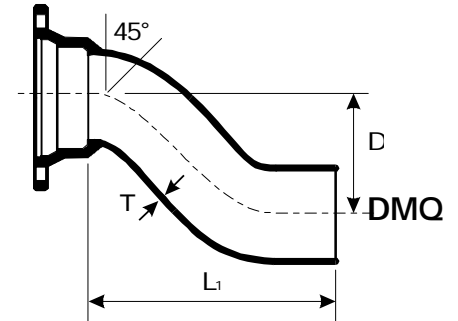
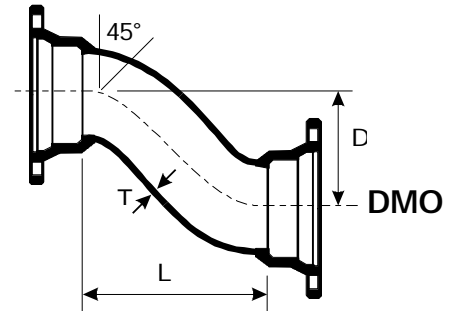


REDUCING TEES

Size	Item No.	H	J	T	T ₁	Wt.
6 x 4 x 4	DRT644	5.0	5.00	.37	.35	43
6 x 4 x 6	DRT646	5.0	5.00	.37	.35	57
8 x 6 x 6	DRT866	5.0	6.50	.39	.37	73
8 x 6 x 8	DRT868	6.0	6.50	.39	.37	82
10 x 6 x 6	DRT1066	6.5	7.50	.41	.37	86
12 x 6 x 6	DRT1266	7.0	8.75	.43	.37	96
12 x 6 x 8	DRT1268	7.0	8.75	.43	.39	105

OFFSETS

Size	MJ x MJ		D	L	L ₁	T	MJ x PE	
	Item No.	Wt.					Item No.	Wt.
3 x 6	DMO36	30	6	9	14.5	.34	DMQ36	29
3 x 12	DMO312	40	12	15	20.5	.34	DMQ312	39
3 x 18	DMO318	49	18	21	26.5	.34	DMQ318	48
3 x 24	DMO324	55	24	27	33.5	.34	DMQ324	53
4 x 6	DMO46	45	6	10	15.5	.35	DMQ46	44
4 x 12	DMO412	55	12	16	21.5	.35	DMQ412	54
4 x 18	DMO418	65	18	22	27.5	.35	DMQ418	63
4 x 24	DMO424	75	24	28	33.5	.35	DMQ424	72
6 x 6	DMO66	41	6	12	17.5	.37	DMQ66	54
6 x 12	DMO612	65	12	18	23.5	.37	DMQ612	64
6 x 18	DMO618	75	18	24	29.5	.37	DMQ618	72
6 x 24	DMO624	85	24	30	35.5	.37	DMQ624	82
8 x 6	DMO86	84	6	13	18.5	.39	DMQ86	78
8 x 12	DMO812	90	12	19	24.5	.39	DMQ812	88
8 x 18	DMO818	100	18	25	30.5	.39	DMQ818	96
10 x 6	DMO106	105	6	15	20.5	.41	DMQ106	102
10 x 12	DMO1012	135	12	21	26.5	.41	DMQ1012	132
10 x 18	DMO1018	165	18	27	32.5	.41	DMQ1018	160
12 x 6	DMO126	124	6	17	22.5	.43	DMQ126	112
12 x 12	DMO1212	153	12	23	28.5	.43	DMQ1212	146
12 x 18	DMO1218	190	18	29	34.5	.43	DMQ1218	184
12 x 24	DMO1224	202	24	35	40.5	.43	DMQ1224	194
12 x 30	DMO1230	213	30	41	46.5	.43	DMQ1230	205



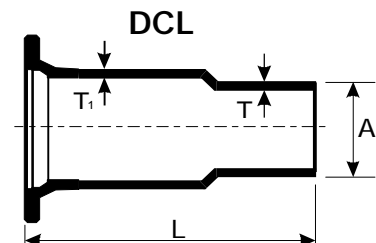
SLEEVES

Size	SHORT SLEEVE			LONG SLEEVE			T
	Item No.	Wt.	L	Item No.	Wt.	L ₁	
3	DMS3	13	7.5	DML3	18	12	.34
4	DMS4	18	7.5	DML4	20	12	.35
6	DMS6	28	7.5	DML6	33	12	.37
8	DMS8	38	7.5	DML8	46	12	.39
10	DMS10	49	7.5	DML10	62	12	.41
12	DMS12	56	7.5	DML12	76	12	.43
14	DMS14	111	9.5	DML14	140	15	.51
16	DMS16	123	9.5	DML16	170	15	.52
18	DMS18	160	9.0	DML18	200	15	.54
20	DMS20	195	9.0	DML20	255	15	.57
24	DMS24	225	9.0	DML24	335	15	.61
30				DML30	640	24	.66
36				DML36	925	24	.76
42				DML42	1390	24	.82
48				DML48	1740	24	.90

DUAL PURPOSE SLEEVES			
Item No.	Wt.	L ₁	T
DDL3	23	12	.34
DDL4	32	12	.35
DDL6	50	12	.37
DDL8	65	12	.39
DDL10	89	12	.41
DDL12	104	12	.43

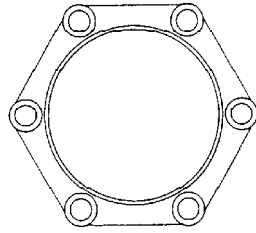
DUAL CUT-IN SLEEVES

Size	Item No.	Wt.	T	T ₁	A	S	L
3	DCL3	34	.34	.36	3.96	8	20
4	DCL4	50	.35	.37	4.80	8	20
6	DCL6	62	.37	.39	6.90	8	20
8	DCL8	90	.39	.41	9.05	8	20
10	DCL10	105	.41	.43	11.10	8	20
12	DCL12	128	.43	.45	13.20	8	20



ACCESSORIES

DG



MG



TG



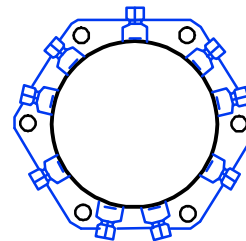
STANDARD GLANDS

Size	Item No.	Wt.
2	DG2	2
3	DG3	4
4	DG4	5
6	DG6	6
8	DG8	7
10	DG10	10
12	DG12	15
14	DG14	23
16	DG16	28
18	DG18	30
20	DG20	43
24	DG24	50
30	DG30	85
36	DG36	115
42	DG42	180
48	DG48	275

GASKETS

Size	STANDARD		TRANSITION	
	Item No.	Wt.	Item No.	Wt.
2	MG2			
3	MG3	.25	TG3	.50
4	MG4	.30	TG4	.60
6	MG6	.50	TG6	.75
8	MG8	.75	TG8	1.10
10	MG10	.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		

RMG



RETAINER GLANDS

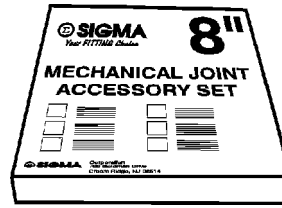
Nominal Pipe Size	Item No.	Wt.	AWWA DUCTILE IRON PIPE O.D	WWP Rating (psi)	SET SCREWS		
					Qty	Size	Torque (Ft Lbs)
3	RMG3	5	3.96	350	4	5/8 X 2	85
4	RMG4	7	4.80	350	4	5/8 X 2	85
6	RMG6	12	6.90	350	6	5/8 X 2	85
8	RMG8	16	9.05	250	9	5/8 X 2	85
10	RMG10	22	11.10	250	16	5/8 X 2	85
12	RMG12	28	13.20	250	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

Weights in Pounds
 Dimensions in Inches
 All Weights shown without accessories

PACKAGED ACCESSORIES

Gland Pack - includes Gland, MJ Gasket and Std. T-Head Bolts

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



Transition Gland Pack - includes Gland, Transition Gasket and Std. T-Head Bolts

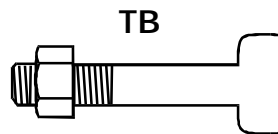
Size in.	Item No.	Wt. lb.
3	DXP3	7
4	DXP4	8
6	DXP6	12
8	DXP8	15
10	DXP10	20
12	DXP12	25

Retainer Gland Pack - includes Gland, MJ Gasket and Std. T-Head Bolts

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

Bolt Pack - Gasket & Bolts, without Gland

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



LOW ALLOY, CORROSION RESISTANT, STEEL T-HEAD BOLTS

Standard Bolts		
Size in.	Item No.	Wt.
5/8 x 3	TB30	.50
3/4 x 3 1/2	TB35	.75
3/4 x 4	TB40	.85
3/4 x 4 1/2	TB45	1.00
3/4 x 5	TB50	1.25
1 x 6	TB60	2.25
1 1/4 x 6	TB61	2.50

Anti-Rotation Bolts		
Size in.	Item No.	Wt. lb.
3/4 x 3 1/2	ATB35	.75
3/4 x 4	ATB40	1.00
3/4 x 4 1/2	ATB45	1.25
3/4 x 5	ATB50	1.50