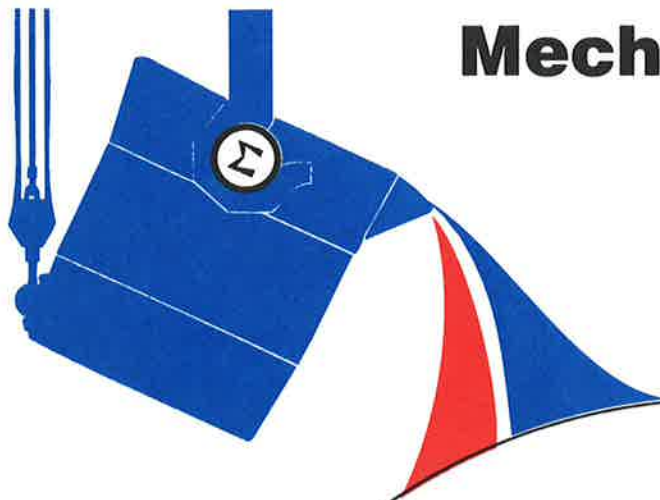
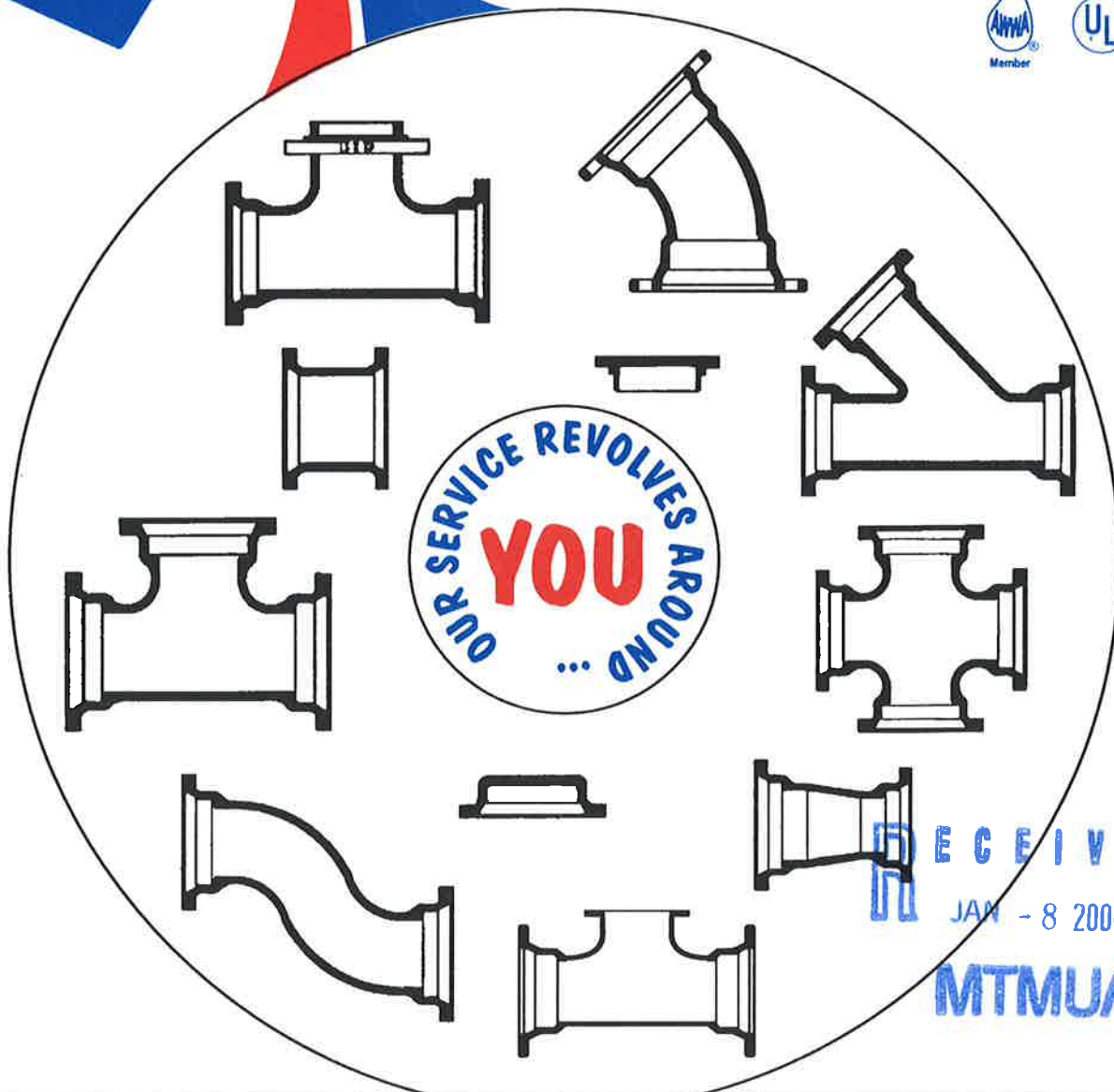




Your FITTING Choice !



Mechanical Joint Fittings **Ductile Iron &** **Cast Iron**



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FULL BODY MECHANICAL JOINT FITTINGS
Cast Iron / Ductile Iron as per AWWA / ANSI C-110 / A21.10

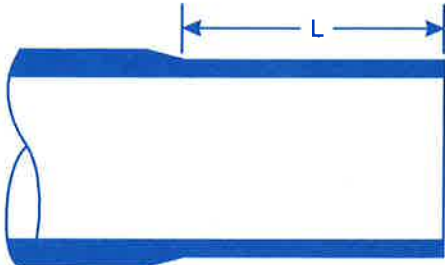
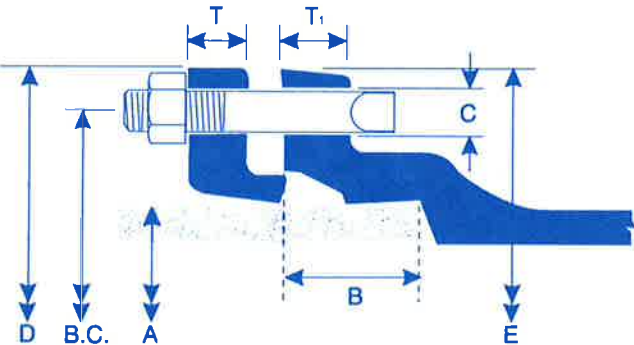


FULL BODY MECHANICAL JOINT FITTINGS
Cast Iron / Ductile Iron as per AWWA / ANSI C-110 / A21.10

3"-48" FULL BODY MECHANICAL JOINT FITTINGS

BASIC SPECIFICATIONS

- MATERIAL:** Cast Iron ASTM A48
Ductile Iron ASTM A536
- PRESSURE:** Cast Iron 250 PSI Water Working Pressure
Ductile Iron 3" - 24", 350 PSI Water Working Pressure
Ductile Iron 30" - 48", 250 PSI Water Working Pressure
- TESTING:** In accordance with ANSI / AWWA C110 / A21.10
- LAYING LENGTH:** In accordance with ANSI / AWWA C110 / A21.10
- 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"-12" Factory Mutual Approved
- STANDARDS:** ANSI / AWWA C110 / A21.10



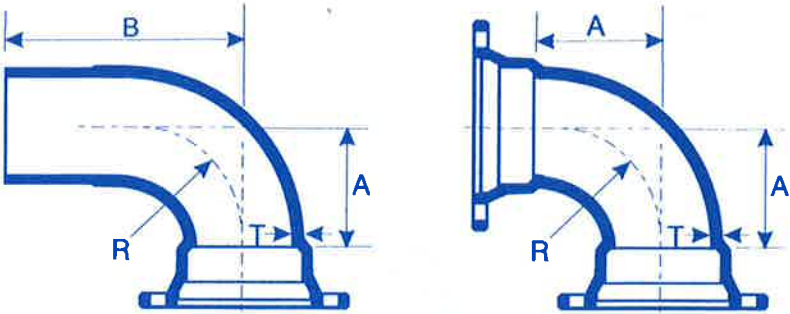
**MECHANICAL JOINT
DETAILS**

**PLAIN END
DETAILS**

Size	A	B	B.C.	C	D	E	T	T ₁	BOLTS		
									No.	Size	L
3	3.96	2.50	6.19	3/4	7.69	7.69	.62	.94	4	5/8	3
4	4.80	2.50	7.50	7/8	9.12	9.12	.75	1.00	4	3/4	3.5
6	6.90	2.50	9.50	7/8	11.12	11.12	.88	1.06	6	3/4	3.5
8	9.05	2.50	11.75	7/8	13.37	13.37	1.00	1.12	6	3/4	4
10	11.10	2.50	14.00	7/8	15.69	15.69	1.00	1.19	8	3/4	4
12	13.20	2.50	16.25	7/8	17.88	17.94	1.00	1.25	8	3/4	4
14	15.30	3.50	18.75	7/8	20.25	20.31	1.25	1.31	10	3/4	4.5
16	17.40	3.50	21.00	7/8	22.50	22.56	1.31	1.38	12	3/4	4.5
18	19.50	3.50	23.25	7/8	24.75	24.83	1.38	1.44	12	3/4	4.5
20	21.60	3.50	25.50	7/8	27.00	27.08	1.44	1.50	14	3/4	4.5
24	25.80	3.50	30.00	7/8	31.50	31.58	1.56	1.62	16	3/4	5.0
30	32.00	4.00	36.88	1 1/8	39.12	39.12	2.00	1.81	20	1	6
36	38.30	4.00	43.75	1 1/8	46.00	46.00	2.00	2.00	24	1	6
42	44.50	4.00	50.62	1 3/8	53.12	53.12	2.00	2.00	28	1 1/4	6
48	50.80	4.00	57.50	1 3/8	60.00	60.00	2.00	2.00	32	1 1/4	6

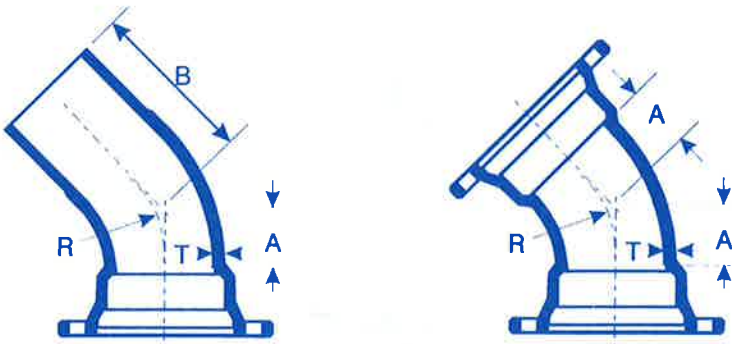
Size	O.D.	L
3	3.96	5.5
4	4.80	5.5
6	6.90	5.5
8	9.05	5.5
10	11.10	5.5
12	13.20	5.5
14	15.30	8.0
16	17.40	8.0
18	19.50	8.0
20	21.60	8.0
24	25.80	8.0
30	32.00	8.0
36	38.30	8.0
42	44.50	8.0
48	50.80	8.0

Weights in pounds
Dimensions in Inches
All Weights shown without accessories



BENDS, 1/4 (90 DEG)

Size	MJxMJ CAST IRON Item No.	MJxMJ DUCTILE IRON Item No.	A	MJxPE CAST IRON Item No.	MJxPE DUCTILE IRON Item No.	B	R	T	MJxMJ Approx Wt.	MJxPE Approx Wt.
3	CMB390	XMB390	5.5	CME390	XME390	13.5	4.0	.48	35	35
4	CMB490	XMB490	6.5	CME490	XME490	14.5	4.5	.52	55	50
6	CMB690	XMB690	8.0	CME690	XME690	16.0	6.0	.55	85	80
8	CMB890	XMB890	9.0	CME890	XME890	17.0	7.0	.60	125	120
10	CMB1090	XMB1090	11.0	CME1090	XME1090	19.0	9.0	.68	190	190
12	CMB1290	XMB1290	12.0	CME1290	XME1290	20.0	10.0	.75	255	255
14		XMB1490	14.0		XME1490	22.0	11.5	.66	340	325
16		XMB1690	15.0		XME1690	23.0	12.5	.70	430	410
18		XMB1890	16.5		XME1890	24.5	14.0	.75	545	520
20		XMB2090	18.0		XME2090	26.0	15.5	.80	680	650
24		XMB2490	22.0		XME2490	30.0	18.5	.89	1025	985
30		XMB3090	25.0		XME3090	33.0	21.5	1.03	1690	1585
36		XMB3690	28.0		XME3690	36.0	24.5	1.15	2475	2310
42		XMB4290	31.0		XME4290	39.0	27.5	1.28	3410	3200
48		XMB4890	34.0		XME4890	42.0	30.5	1.42	4595	4330

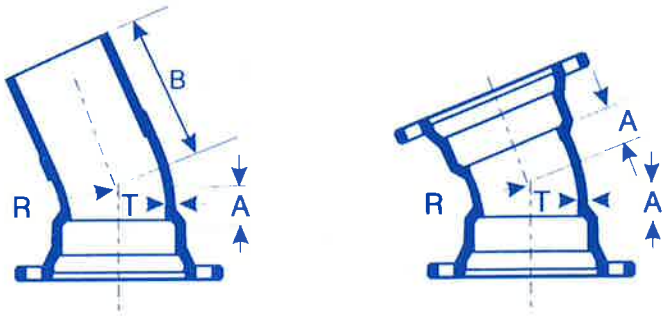


BENDS, 1/8 (45 DEG)

Size	MJxMJ CAST IRON Item No.	MJxMJ DUCTILE IRON Item No.	A	MJxPE CAST IRON Item No.	MJxPE DUCTILE IRON Item No.	B	R	T	MJxMJ Approx Wt.	MJxPE Approx Wt.
3	CMB345	XMB345	3.0	CME345	XME345	11.0	4.0	.48	30	30
4	CMB445	XMB445	4.0	CME445	XME445	12.0	4.5	.52	50	45
6	CMB645	XMB645	5.0	CME645	XME645	13.0	6.0	.55	75	70
8	CMB845	XMB845	5.5	CME845	XME845	13.5	7.0	.60	110	105
10	CMB1045	XMB1045	6.5	CME1045	XME1045	14.5	9.0	.68	155	155
12	CMB1245	XMB1245	7.5	CME1245	XME1245	15.5	10.0	.75	215	215
14		XMB1445	7.5		XME1445	15.5	11.5	.66	270	255
16		XMB1645	8.0		XME1645	16.0	12.5	.70	340	320
18		XMB1845	8.5		XME1845	16.5	14.0	.75	420	395
20		XMB2045	9.5		XME2045	17.5	15.5	.80	530	500
24		XMB2445	11.0		XME2445	19.0	18.5	.89	755	715
30		XMB3045	15.0		XME3045	23.0	21.5	1.03	1380	1275
36		XMB3645	18.0		XME3645	26.0	24.5	1.15	2095	1930
42		XMB4245	21.0		XME4245	29.0	27.5	1.28	2955	2745
48		XMB4845	24.0		XME4845	32.0	30.5	1.42	4080	3815

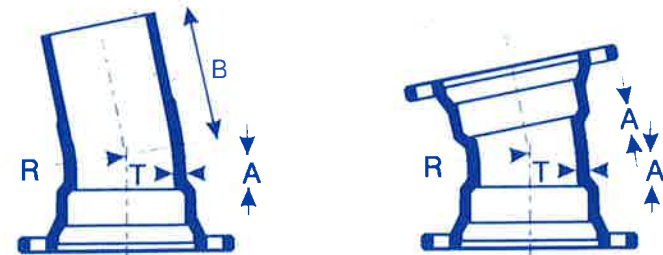
Weights in pounds
Dimensions in Inches
All Weights shown without accessories

FULL BODY MECHANICAL JOINT FITTINGS
Cast Iron / Ductile Iron as per AWWA / ANSI C-110 / A21.10



BENDS, 1/16 (22.5 DEG)

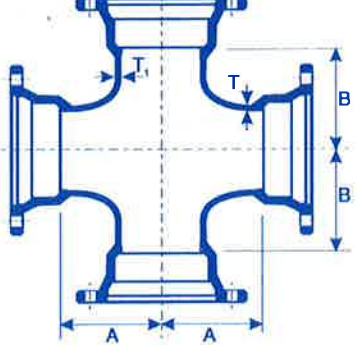
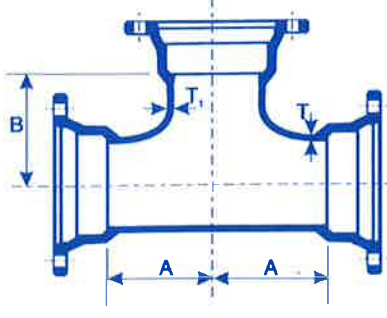
Size	MJxMJ CAST IRON Item No.	MJxMJ DUCTILE IRON Item No.	A	MJxPE CAST IRON Item No.	MJxPE DUCTILE IRON Item No.	B	R	T	MJxMJ Approx Wt.	MJxPE Approx Wt.
3	CMB322	XMB322	3.0	CME322	XME322	11.0	7.56	.48	30	30
4	CMB422	XMB422	4.0	CME422	XME422	12.0	10.06	.52	50	45
6	CMB622	XMB622	5.0	CME622	XME622	13.0	15.06	.55	75	70
8	CMB822	XMB822	5.5	CME822	XME822	13.5	17.62	.60	110	105
10	CMB1022	XMB1022	6.5	CME1022	XME1022	14.5	22.62	.68	160	160
12	CMB1222	XMB1222	7.5	CME1222	XME1222	15.5	27.62	.75	220	220
14		XMB1422	7.5		XME1422	15.5	25.12	.66	275	260
16		XMB1622	8.0		XME1622	16.0	27.62	.70	345	325
18		XMB1822	8.5		XME1822	16.5	30.19	.75	430	405
20		XMB2022	9.5		XME2022	17.5	35.19	.80	535	505
24		XMB2422	11.0		XME2422	19.0	37.69	.89	765	725
30		XMB3022	15.0		XME3022	23.0	57.81	1.03	1400	1295
36		XMB3622	18.0		XME3622	26.0	72.88	1.15	2135	1970
42		XMB4222	21.0		XME4222	29.0	88.00	1.28	3020	2810
48		XMB4822	24.0		XME4822	32.0	103.06	1.42	4170	3905



BENDS, 1/32 (11 1/4 DEG)

Size	MJxMJ CAST IRON Item No.	MJxMJ DUCTILE IRON Item No.	A	MJxPE CAST IRON Item No.	MJxPE DUCTILE IRON Item No.	B	R	T	MJxMJ Approx Wt.	MJxPE Approx Wt.
3	CMB311	XMB311	3.0	CME311	XME311	11.0	15.25	.48	30	30
4	CMB411	XMB411	4.0	CME411	XME411	12.0	20.31	.52	50	45
6	CMB611	XMB611	5.0	CME611	XME611	13.0	30.50	.55	75	70
8	CMB811	XMB811	5.5	CME811	XME811	13.5	35.50	.60	110	105
10	CMB1011	XMB1011	6.5	CME1011	XME1011	14.5	45.69	.68	160	160
12	CMB1212	XMB1212	7.5	CME1212	XME1212	15.5	55.81	.75	220	220
14		XMB1411	7.5		XME1411	15.5	50.75	.66	275	260
16		XMB1611	8.0		XME1611	16.0	55.81	.70	345	325
18		XMB1811	8.5		XME1811	16.5	60.94	.75	430	405
20		XMB2011	9.5		XME2011	17.5	71.06	.80	540	510
24		XMB2411	11.0		XME2411	19.0	76.12	.89	770	730
30		XMB3011	15.0		XME3011	23.0	116.75	1.03	1410	1305
36		XMB3611	18.0		XME3611	26.0	147.25	1.15	2145	1980
42		XMB4212	21.0		XME4212	29.0	177.69	1.28	3035	2825
48		XMB4811	24.0		XME4811	32.0	208.12	1.42	4190	3925

Weights in pounds
Dimensions in Inches
All Weights shown without accessories



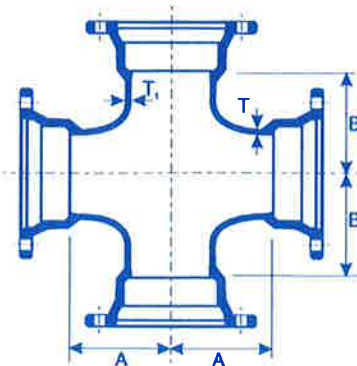
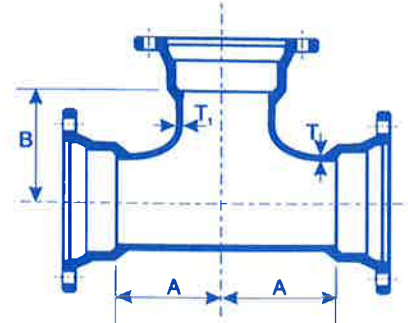
FULL BODY MECHANICAL JOINT FITTINGS
Cast Iron / Ductile Iron as per AWWA / ANSI C-110 / A21.10

Ductile Iron and Cast Iron TEES and CROSSES

Run	Br	psi	CI Tee	DI Tee	CI Cross	DI Cross	T	T1	H	J	Tee Wt.	Cross Wt.
3	3	250	CMT33	XMT33	CMC33	XMC33	.48	.48	5.5	5.5	55	70
4	3	250	CMT43	XMT43	CMC43	XMC43	.52	.48	6.5	6.5	75	90
4	4	250	CMT44	XMT44	CMC44	XMC44	.52	.52	6.5	6.5	80	105
6	3	250	CMT63	XMT63	CMC63	XMC63	.55	.48	8.0	8.0	110	125
6	4	250	CMT64	XMT64	CMC64	XMC64	.55	.52	8.0	8.0	115	140
6	6	250	CMT66	XMT66	CMC66	XMC66	.55	.55	8.0	8.0	125	160
8	4	250	CMT84	XMT84	CMC84	XMC84	.60	.52	9.0	9.0	165	185
8	6	250	CMT86	XMT86	CMC86	XMC86	.60	.55	9.0	9.0	175	205
8	8	250	CMT88	XMT88	CMC88	XMC88	.60	.60	9.0	9.0	185	235
10	4	250	CMT104	XMT104	CMC104	XMC104	.68	.52	11.0	11.0	235	260
10	6	250	CMT106	XMT106	CMC106	XMC106	.68	.55	11.0	11.0	250	285
10	8	250	CMT108	XMT108	CMC108	XMC108	.68	.60	11.0	11.0	260	310
10	10	250	CMT1010	XMT1010	CMC1010	XMC1010	.80	.80	11.0	11.0	310	380
12	4	250	CMT124	XMT124	CMC124	XMC124	.75	.52	12.0	12.0	315	340
12	6	250	CMT126	XMT126	CMC126	XMC126	.75	.55	12.0	12.0	325	360
12	8	250	CMT128	XMT128	CMC128	XMC128	.75	.60	12.0	12.0	340	385
12	10	250	CMT1210	XMT1210	CMC1210	XMC1210	.87	.80	12.0	12.0	390	460
12	12	250	CMT1212	XMT1212	CMC1212	XMC1212	.87	.87	12.0	12.0	410	495
14	6	250		XMT146		XMC146	.66	.55	14.0	14.0	435	475
14	8	250		XMT148		XMC148	.66	.60	14.0	14.0	450	500
14	10	250		XMT1410		XMC1410	.66	.68	14.0	14.0	465	540
14	12	250		XMT1412		XMC1412	.66	.75	14.0	14.0	495	585
14	14	250		XMT1414		XMC1414	.66	.66	14.0	14.0	520	635
16	6	250		XMT166		XMC166	.70	.55	15.0	15.0	540	575
16	8	250		XMT168		XMC168	.70	.60	15.0	15.0	550	605
16	10	250		XMT1610		XMC1610	.70	.68	15.0	15.0	570	645
16	12	250		XMT1612		XMC1612	.70	.75	15.0	15.0	590	685
16	14	250		XMT1614		XMC1614	.70	.66	15.0	15.0	620	735
16	16	250		XMT1616		XMC1616	.70	.70	15.0	15.0	650	790
18	6	250		XMT186		XMC186	.75	.55	13.0	15.5	590	625
18	8	250		XMT188		XMC188	.75	.60	13.0	15.5	605	655
18	10	250		XMT1810		XMC1810	.75	.68	13.0	15.5	620	685
18	12	250		XMT1812		XMC1812	.75	.75	13.0	15.5	640	725
18	14	250		XMT1814		XMC1814	.75	.66	16.5	16.5	755	870
18	16	250		XMT1816		XMC1816	.75	.70	16.5	16.5	785	930
18	18	250		XMT1818		XMC1818	.75	.75	16.5	16.5	820	995
20	6	250		XMT206		XMC206	.80	.55	14.0	17.0	725	760
20	8	250		XMT208		XMC208	.80	.60	14.0	17.0	735	790
20	10	250		XMT2010		XMC2010	.80	.68	14.0	17.0	755	820
20	12	250		XMT2012		XMC2012	.80	.75	14.0	17.0	775	860
20	14	250		XMT2014		XMC2014	.80	.66	14.0	17.0	795	905
20	16	250		XMT2016		XMC2016	.80	.70	18.0	18.0	945	1085
20	18	250		XMT2018		XMC2018	.80	.75	18.0	18.0	985	1155
20	20	250		XMT2020		XMC2020	.80	.80	18.0	18.0	1020	1230

Ductile Iron and Cast Iron TEES and CROSSES data continued on following page

Weights in pounds
Dimensions in Inches
All Weights shown without accessories



Ductile Iron and Cast Iron TEES and CROSSES (Continued)

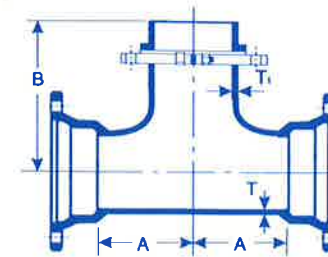
Run	Br	psi	CI Tee	DI Tee	CI Cross	DI Cross	T	T1	H	J	Tee Wt.	Cross Wt.
24	6	250		XMT246		XMC246	.89	.55	15.0	19.0	985	1025
24	8	250		XMT248		XMC248	.89	.60	15.0	19.0	1000	1045
24	10	250		XMT2410		XMC2410	.89	.68	15.0	19.0	1020	1085
24	12	250		XMT2412		XMC2412	.89	.75	15.0	19.0	1030	1110
24	14	250		XMT2414		XMC2414	.89	.66	15.0	19.0	1055	1155
24	16	250		XMT2416		XMC2416	.89	.70	15.0	19.0	1075	1200
24	18	250		XMT2418		XMC2418	.89	.75	22.0	22.0	1400	1590
24	20	250		XMT2420		XMC2420	.89	.80	22.0	22.0	1450	1675
24	24	250		XMT2424		XMC2424	.89	.89	22.0	22.0	1535	1835
30	6	250		XMT306		XMC306	1.03	.55	18.0	23.0	1730	1770
30	8	250		XMT308		XMC308	1.03	.60	18.0	23.0	1745	1795
30	10	250		XMT3010		XMC3010	1.03	.68	18.0	23.0	1760	1830
30	12	250		XMT3012		XMC3012	1.03	.75	18.0	23.0	1780	1865
30	14	250		XMT3014		XMC3014	1.03	.66	18.0	23.0	1800	1905
30	16	250		XMT3016		XMC3016	1.03	.70	18.0	23.0	1820	1950
30	18	250		XMT3018		XMC3018	1.03	.75	18.0	23.0	1845	2000
30	20	250		XMT3020		XMC3020	1.03	.80	18.0	23.0	1875	2060
30	24	250		XMT3024		XMC3024	1.03	.89	25.0	25.0	2400	2675
30	30	250		XMT3030		XMC3030	1.03	1.03	25.0	25.0	2595	3075
36	8	250		XMT368		XMC368	1.15	.60	20.0	26.0	2520	2565
36	10	250		XMT3610		XMC3610	1.15	.68	20.0	26.0	2535	2600
36	12	250		XMT3612		XMC3612	1.15	.75	20.0	26.0	2550	2630
36	14	250		XMT3614		XMC3614	1.15	.66	20.0	26.0	2570	2665
36	16	250		XMT3616		XMC3616	1.15	.70	20.0	26.0	2585	2705
36	18	250		XMT3618		XMC3618	1.15	.75	20.0	26.0	2610	2750
36	20	250		XMT3620		XMC3620	1.15	.80	20.0	26.0	2635	2805
36	24	250		XMT3624		XMC3624	1.15	.89	20.0	26.0	2690	2910
36	30	250		XMT3630		XMC3630	1.15	1.03	28.0	28.0	3545	3965
36	36	250		XMT3636		XMC3636	1.15	1.15	28.0	28.0	3745	4370
42	12	250		XMT4212		XMC4212	1.28	.75	23.0	30.0	3555	3640
42	14	250		XMT4214		XMC4214	1.28	.66	23.0	30.0	3575	3675
42	16	250		XMT4216		XMC4216	1.28	.70	23.0	30.0	3595	3715
42	18	250		XMT4218		XMC4218	1.28	.75	23.0	30.0	3615	3755
42	20	250		XMT4220		XMC4220	1.28	.80	23.0	30.0	3640	3810
42	24	250		XMT4224		XMC4224	1.28	.89	23.0	30.0	3690	3910
42	30	250		XMT4230		XMC4230	1.28	1.03	31.0	31.0	4650	5040
42	36	150		XMT4236		XMC4236	1.28	1.15	31.0	31.0	4880	5425
42	36	250		XMT4236		XMC4236	1.78	1.58	31.0	31.0	6075	6655
42	42	150		XMT4242		XMC4242	1.28	1.28	31.0	31.0	5085	5840
42	42	250		XMT4242		XMC4242	1.78	1.78	31.0	31.0	6320	7145
48	12	250		XMT4812		XMC4812	1.42	.75	26.0	34.0	4870	4955
48	14	250		XMT4814		XMC4814	1.42	.66	26.0	34.0	4885	4985
48	16	250		XMT4816		XMC4816	1.42	.70	26.0	34.0	4905	5025
48	18	250		XMT4818		XMC4818	1.42	.75	26.0	34.0	4925	5065
48	20	250		XMT4820		XMC4820	1.42	.80	26.0	34.0	4950	5115
48	24	250		XMT4824		XMC4824	1.42	.89	26.0	34.0	4995	5210
48	30	250		XMT4830		XMC4830	1.42	1.03	26.0	34.0	5140	5495
48	36	250		XMT4836		XMC4836	1.42	1.15	34.0	34.0	6280	6790
48	42	150		XMT4842		XMC4842	1.42	1.28	34.0	34.0	6510	7150
48	42	250		XMT4842		XMC4842	1.96	1.78	34.0	34.0	8130	8815
48	48	150		XMT4848		XMC4848	1.42	1.42	34.0	34.0	6765	7655
48	48	250		XMT4848		XMC4848	1.96	1.96	34.0	34.0	8420	9380

Shaded items available in both 150 & 250 lb Water Working Pressure

Weights in pounds
Dimensions in Inches
All Weights shown without accessories

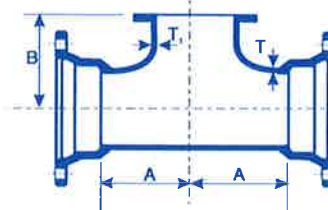


FULL BODY MECHANICAL JOINT FITTINGS
Cast Iron / Ductile Iron as per AWWA / ANSI C-110 / A21.10



HYDRANT TEES

Size		DUCTILE IRON					
Run	Branch	Item No.	Wt.	A	B	T	T ₁
6	6	XMH66	116	8.0	10.5	.55	.55
8	6	XMH86	210	9.0	11.5	.60	.55
8	8	XMH88	198	9.0	11.5	.60	.60
10	6	XMH106	270	11.0	13.5	.68	.55
12	6	XMH126	341	12.0	14.5	.75	.55
14	6	XMH146	500	14.0	16.5	.66	.55
16	6	XMH166	540	15.0	17.5	.70	.55
16	8	XMH168	649	15.0	17.5	.70	.60
18	6	XMH186	750	13.0	17.5	.75	.55
20	6	XMH206	829	14.0	19.5	.80	.55
24	6	XMH246	1134	15.0	21.5	.89	.55
30	6	XMH306	1739	18.0	24.5	1.03	.55



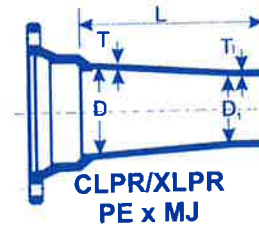
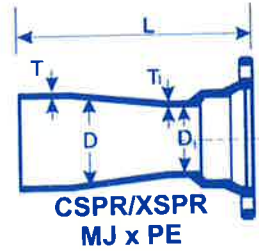
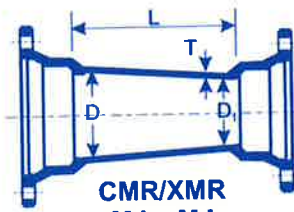
TEES, MJ x FLANGE

		DUCTILE IRON					
Run	Branch	Item No.	Wt.	A	B	T	T
4	4	XMF44	89	6.5	6.5	.52	.52
6	4	XMF64	129	8.0	8.0	.55	.52
6	6	XMF66	140	8.0	8.0	.55	.55
8	4	XMF84	159	9.0	9.0	.60	.52
8	6	XMF86	195	9.0	9.0	.60	.55
8	8	XMF88	175	9.0	9.0	.60	.60
10	4	XMF104	229	11.0	11.0	.68	.52
10	6	XMF106	222	11.0	11.0	.68	.55
10	8	XMF108	250	11.0	11.0	.68	.60
10	10	XMF1010	260	11.0	11.0	.68	.68
12	4	XMF124	309	12.0	12.0	.75	.52
12	6	XMF126	336	12.0	12.0	.75	.55
12	8	XMF128	330	12.0	12.0	.75	.60
12	10	XMF1210	380	12.0	12.0	.75	.68
12	12	XMF1212	400	12.0	12.0	.75	.75
14	6	XMF146	490	14.0	14.0	.66	.55
14	8	XMF148	500	14.0	14.0	.66	.60
16	4	XMF164	575	15.0	15.0	.70	.52
16	6	XMF166	605	15.0	15.0	.70	.55
16	8	XMF168	615	15.0	15.0	.70	.60
16	10	XMF1610	635	15.0	15.0	.70	.68
16	12	XMF1612	650	15.0	15.0	.70	.75
16	16	XMF1616	730	15.0	15.0	.70	.70
18	6	XMF186	665	13.0	15.5	.75	.55
18	8	XMF188	675	13.0	15.5	.75	.60
18	12	XMF1812	705	13.0	15.5	.75	.75
18	18	XMF1818	915	16.5	16.5	.75	.75
20	6	XMF206	820	14.0	17.0	.80	.55
20	8	XMF208	835	14.0	17.0	.80	.60
20	12	XMF2012	865	14.0	17.0	.80	.75
20	16	XMF2016	1075	18.0	18.0	.80	.70
20	20	XMF2020	1165	18.0	18.0	.80	.80
24	6	XMF246	1125	15.0	19.0	.89	.55
24	8	XMF248	1140	15.0	19.0	.89	.55
24	10	XMF2410	1150	15.0	19.0	.89	.60
24	12	XMF2412	1165	15.0	19.0	.89	.68
24	14	XMF2414	1205	15.0	19.0	.89	.66
24	16	XMF2416	1230	15.0	19.0	.89	.70
24	18	XMF2418	1640	22.0	22.0	.89	.75
24	20	XMF2420	1705	22.0	22.0	.89	.80
24	24	XMF2424	1795	22.0	22.0	.89	.89
30	6	XMF306	1710	18.0	23.0	1.03	.55
30	8	XMF308	1725	18.0	23.0	1.03	.60
36	6	XMF366	2430	20.0	26.0	1.15	.55
36	8	XMF368	2505	20.0	26.0	1.15	.60

Weights in pounds
Dimensions in Inches
All Weights shown without accessories



FULL BODY MECHANICAL JOINT FITTINGS
Cast Iron / Ductile Iron as per AWWA / ANSI C-110 / A21.10

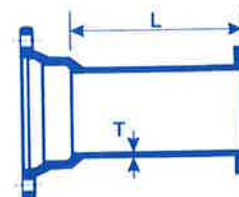


REDUCERS

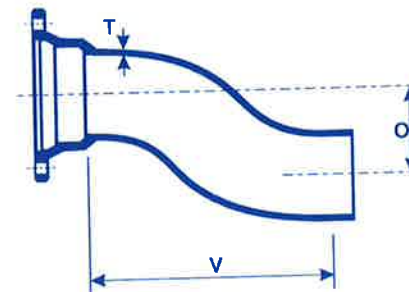
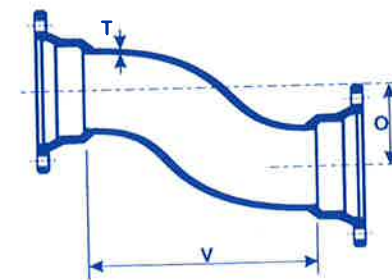
REDUCERS													
Size		CAST DUCTILE			CAST DUCTILE			CAST DUCTILE					
D	D	IRON Item No.	IRON Item No.	Wt.	IRON Item No.	IRON Item No.	Wt.	IRON Item No.	IRON Item No.	Wt.	L	T	T
4	3	CMR43	XMR43	40	CSPR43	XSPR43	35	CLPR43	XLPR43	40	7	.52	.48
6	3	CMR63	XMR63	55	CSPR63	XSPR63	50	CLPR63	XLPR63	55	9	.55	.48
6	4	CMR64	XMR64	60	CSPR64	XSPR64	60	CLPR64	XLPR64	60	9	.55	.52
8	4	CMR84	XMR84	80	CSPR84	XSPR84	80	CLPR84	XLPR84	80	11	.50	.52
8	6	CMR86	XMR86	95	CSPR86	XSPR86	90	CLPR86	XLPR86	90	11	.60	.55
10	4	CMR104	XMR104	105	CSPR104	XSPR104	100	CLPR104	XLPR104	100	12	.68	.52
10	6	CMR106	XMR106	115	CSPR106	XSPR106	115	CLPR106	XLPR106	115	12	.68	.55
10	8	CMR108	XMR108	135	CSPR108	XSPR108	130	CLPR108	XLPR108	130	12	.68	.60
12	4	CMR124	XMR124	135	CSPR124	XSPR124	130	CLPR124	XLPR124	130	14	.75	.52
12	6	CMR126	XMR126	150	CSPR126	XSPR126	150	CLPR126	XLPR126	145	14	.75	.55
12	8	CMR128	XMR128	165	CSPR128	XSPR128	165	CLPR128	XLPR128	165	14	.75	.60
12	10	CMR1210	XMR1210	190	CSPR1210	XSPR1210	190	CLPR1210	XLPR1210	185	14	.75	.68
14	6		XMR146	190		XSPR146	175		XLPR146	185	16	.66	.55
14	8		XMR148	210		XSPR148	190		XLPR148	205	16	.66	.60
14	10		XMR1410	230		XSPR1410	215		XLPR1410	230	16	.66	.68
14	12		XMR1412	255		XSPR1412	240		XLPR1412	255	16	.66	.75
16	6		XMR166	230		XSPR166	210		XLPR166	230	18	.70	.55
16	8		XMR168	250		XSPR168	230		XLPR168	250	18	.70	.60
16	10		XMR1610	280		XSPR1610	255		XLPR1610	275	18	.70	.68
16	12		XMR1612	305		XSPR1612	285		XLPR1612	305	18	.70	.75
16	14		XMR1614	335		XSPR1614	310		XLPR1614	315	18	.70	.66
18	8		XMR188	295		XSPR188	270		XLPR188	295	19	.75	.60
18	10		XMR1810	325		XSPR1810	300		XLPR1810	320	19	.75	.68
18	12		XMR1812	350		XSPR1812	325		XLPR1812	350	19	.75	.75
18	14		XMR1814	380		XSPR1814	355		XLPR1814	365	19	.75	.66
18	16		XMR1816	415		XSPR1816	390		XLPR1816	395	19	.75	.70
20	10		XMR2010	375		XSPR2010	345		XLPR2010	375	20	.80	.68
20	12		XMR2012	405		XSPR2012	375		XLPR2012	405	20	.80	.75
20	14		XMR2014	430		XSPR2014	400		XLPR2014	415	20	.80	.66
20	16		XMR2016	470		XSPR2016	435		XLPR2016	445	20	.80	.70
20	18		XMR2018	510		XSPR2018	475		XLPR2018	485	20	.80	.75
24	12		XMR2412	550		XSPR2412	510		XLPR2412	550	24	.89	.75
24	14		XMR2414	575		XSPR2414	535		XLPR2414	560	24	.89	.66
24	16		XMR2416	615		XSPR2416	575		XLPR2416	595	24	.89	.70
24	18		XMR2418	660		XSPR2418	620		XLPR2418	635	24	.89	.75
24	20		XMR2420	705		XSPR2420	665		XLPR2420	675	24	.89	.80
30	16		XMR3016	985		XSPR3016	900		XLPR3016	910	30	1.03	.70
30	18		XMR3018	990		XSPR3018	885		XLPR3018	965	30	1.03	.75
30	20		XMR3020	1050		XSPR3020	945		XLPR3020	1020	30	1.03	.80
30	24		XMR3024	1165		XSPR3024	1060		XLPR3024	1125	30	1.03	.89
36	20		XMR3620	1450		XSPR3620	1285		XLPR3620	1420	36	1.15	.80
36	24		XMR3624	1580		XSPR3624	1410		XLPR3624	1535	36	1.15	.89
36	30		XMR3630	1855		XSPR3630	1690		XLPR3630	1750	36	1.15	1.03
42	20		XMR4220	1915		XSPR4220	1705		XLPR4220	1880	42	1.28	.80
42	24		XMR4224	2060		XSPR4224	1855		XLPR4224	2020	42	1.28	.89
42	30		XMR4230	2370		XSPR4230	2165		XLPR4230	2265	42	1.28	1.03
42	36		XMR4236	2695		XSPR4236	2485		XLPR4236	2530	42	1.28	1.15
48	30		XMR4830	3005		XSPR4830	2740		XLPR4830	2900	48	1.42	1.03
48	36		XMR4836	3370		XSPR4836	3100		XLPR4836	3205	48	1.42	1.15
48	42		XMR4842	3750		XSPR4842	3480		XLPR4842	3540	48	1.42	1.28

ADAPTERS, MJ x FLANGE

Size	DUCTILE IRON Item No.	Wt.	L	T
6	XMFA6	60	8.0	.55
8	XMFA8	85	8.0	.60
12	XMFA12	155	8.0	.75
14	XMFA14	195	8.0	.66
16	XMFA16	240	8.0	.70
18	XMFA18	280	8.0	.75
20	XMFA20	340	8.0	.80
24	XMFA24	455	8.0	.89
30	XMFA30	760	10.0	1.03
36	XMFA36	1070	10.0	1.15
42	XMFA42	1115	12.0	1.28
48	XMFA48	1390	12.0	1.42



Weights in pounds
Dimensions in inches
All Weights shown without accessories



OFFSETS, MJ x MJ

Size	Item No.	Wt.	O	V	T
3x6	XMO36	50	6	19	.48
3x12	XMO312	60	12	22	.48
3x18	XMO318	75	18	30	.48
4x6	XMO46	75	6	19	.52
4x12	XMO412	85	12	22	.52
4x18	XMO418	105	18	30	.52
6x6	XMO66	110	6	20	.55
6x12	XMO612	135	12	26	.55
6x18	XMO618	165	18	33	.55
6x24	XMO624	195	24	33	.55
8x6	XMO86	160	6	21	.60
8x12	XMO812	200	12	28	.60
8x18	XMO818	245	18	35	.60
8x24	XMO824	325	24	35	.60
10x6	XMO106	220	6	22	.68
10x12	XMO1012	250	12	30	.68
10x18	XMO1018	340	18	38	.68
10x24	XMO1024	400	24	38	.68
12x6	XMO126	320	6	26	.75
12x12	XMO1212	420	12	37	.75
12x18	XMO1218	520	18	48	.75
12x24	XMO1224	600	24	48	.75
20x12	XMO2012	725	12	40	.80
20x18	XMO2018	1050	18	50	.80
20x24	XMO2024	1245	24	50	.80

OFFSETS, MJ x PE

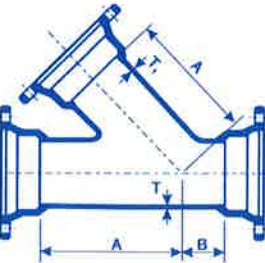
Size	DUCTILE IRON Item No.	Wt.	O	V	T
6x12	XM612	130	12	34	.55
6x18	XM618	160	18	41	.55
6x24	XM624	195	24	41	.55

Weights in pounds
Dimensions in inches
All Weights shown without accessories

FULL BODY MECHANICAL JOINT FITTINGS
Cast Iron / Ductile Iron as per AWWA / ANSI C-110 / A21.10

LATERAL WYES

Run	Branch	CAST IRON Item No.	DUCTILE IRON Item No.	Wt.	A	B	C	T	T ₁
3	3		XMY33	60	10.0	3.0	10	.48	.48
4	3		XMY43	85	12.0	3.0	12	.52	.48
4	4		XMY44	95	12.0	3.0	12	.52	.52
6	3		XMY63	125	14.5	3.5	14.5	.55	.48
6	4		XMY64	135	14.5	3.5	14.5	.55	.52
6	6		XMY66	150	14.5	3.5	14.5	.55	.55
8	4		XMY84	190	17.5	4.5	17.5	.60	.52
8	6		XMY86	205	17.5	4.5	17.5	.60	.55
8	8		XMY88	225	17.5	4.5	17.5	.60	.60
10	4		XMY104	270	20.5	5.0	20.5	.68	.52
10	6		XMY106	285	20.5	5.0	20.5	.68	.55
10	8		XMY108	305	20.5	5.0	20.5	.68	.60
10	10		XMY1010	375	20.5	5.0	20.5	.68	.68
12	4		XMY124	380	24.5	5.5	24.5	.75	.52
12	6		XMY126	390	24.5	5.5	24.5	.75	.55
12	8		XMY128	415	24.5	5.5	24.5	.75	.60
12	10		XMY210	500	24.5	5.5	24.5	.75	.68
12	12		XMY1212	535	24.5	5.5	24.5	.75	.75
14	4		XMY144	540	27	6	27	.82	.55
14	6		XMY146	565	27	6	27	.82	.60
14	8		XMY148	595	27	6	27	.82	.68
14	10		XMY1410	630	27	6	27	.82	.75
14	12		XMY1412	690	27	6	27	.82	.82
14	14		XMY1414	700	30	6.5	30	.89	.55
16	4		XMY164	720	30	6.5	30	.89	.60
16	6		XMY166	755	30	6.5	30	.89	.68
16	8		XMY168	790	30	6.5	30	.89	.75
16	10		XMY1610	850	30	6.5	30	.89	.82
16	12		XMY1612	905	30	6.5	30	.89	.89
16	14		XMY1614	865	32	7	32	.96	.55
16	16		XMY1616	890	32	7	32	.96	.60
18	4		XMY184	925	32	7	32	.96	.68
18	6		XMY186	960	32	7	32	.96	.75
18	8		XMY188	1015	32	7	32	.96	.82
18	10		XMY1810	1070	32	7	32	.96	.89
18	12		XMY1812	1130	32	7	32	.96	.96
18	14		XMY1814	1115	35	8	35	1.03	.60
18	16		XMY1816	1150	35	8	35	1.03	.68
18	18		XMY1818	1190	35	8	35	1.03	.75
20	4		XMY204	1250	35	8	35	1.03	.82
20	6		XMY206	1300	35	8	35	1.03	.89
20	8		XMY208	1365	35	8	35	1.03	.96
20	10		XMY2010	1435	35	8	35	1.03	1.03
20	12		XMY2012	540	27	6	27	.82	.55
20	14		XMY2014	565	27	6	27	.82	.60
20	16		XMY2016	595	27	6	27	.82	.68
20	18		XMY2018	630	27	6	27	.82	.75
20	20		XMY2020	690	27	6	27	.82	.82
24	8		XMY248	1625	40.5	9	40.5	1.16	.60
24	10		XMY2410	1660	40.5	9	40.5	1.16	.68
24	12		XMY2412	1700	40.5	9	40.5	1.16	.75
24	14		XMY2414	1760	40.5	9	40.5	1.16	.82
24	16		XMY2416	1815	40.5	9	40.5	1.16	.89
24	18		XMY2418	1880	40.5	9	40.5	1.16	.96
24	20		XMY2420	1950	40.5	9	40.5	1.16	1.03
24	24		XMY2424	2115	40.5	9	40.5	1.16	1.16
30	12		XMY3012	2850	49	10	49	1.37	.75
30	14		XMY3015	2915	49	10	49	1.37	.82
30	16		XMY3016	2975	49	10	49	1.37	.89
30	18		XMY3018	3040	49	10	49	1.37	.96
30	20		XMY3020	3115	49	10	49	1.37	1.03
30	24		XMY3024	3280	49	10	49	1.37	1.16
30	30		XMY3030	3670	49	10	49	1.37	1.37
36	12		XMY3612	4895	60	19.5	60	1.58	.75
36	14		XMY3614	4970	60	19.5	60	1.58	.82
36	16		XMY3616	5040	60	19.5	60	1.58	.89
36	18		XMY3618	5120	60	19.5	60	1.58	.96
36	20		XMY3620	5205	60	19.5	60	1.58	1.03
36	24		XMY3624	5390	60	19.5	60	1.58	1.16
36	30		XMY3630	5805	60	19.5	60	1.58	1.37
36	36		XMY3636	6335	60	19.5	60	1.58	1.58



42" and 48" lateral wyes are available on special order. Contact SIGMA for details.

Weights in pounds
Dimensions in Inches
All Weights shown without accessories



FULL BODY MECHANICAL JOINT FITTINGS
Cast Iron / Ductile Iron as per AWWA / ANSI C-110 / A21.10

SLEEVES

Size	SHORT SLEEVES							LONG SLEEVES						
	CAST IRON			DUCTILE IRON				CAST IRON			DUCTILE IRON			
	Item No.	T	Wt.	L	Item No.	T	Wt.	Item No.	T	Wt.	L	Item No.	T	Wt.
3	CMS3	.48	25	7.5	XMS3	.48	25	CML3	.48	30	12.0	XML3	.48	30
4	CMS4	.52	35	7.5	XMS4	.52	35	CML4	.52	45	12.0	XML4	.52	45
6	CMS6	.55	45	7.5	XMS6	.55	45	CML6	.55	65	12.0	XML6	.55	65
8	CMS8	.60	65	7.5	XMS8	.60	65	CML8	.60	85	12.0	XML8	.60	85
10	CMS10	.68	85	7.5	XMS10	.68	85	CML10	.68	115	12.0	XML10	.68	115
12	CMS12	.75	110	7.5	XMS12	.75	110	CML12	.75	145	12.0	XML12	.75	145
14				9.5	XMS14	.66	150				15.0	XML14	.66	195
16				9.5	XMS16	.70	180				15.0	XML16	.70	235
18				9.5	XMS18	.75	215				15.0	XML18	.75	285
20				9.5	XMS20	.80	240				15.0	XML20	.80	325
24				9.5	XMS24	.89	320				15.0	XML24	.89	425
30				15.0	XMS30	1.03	635				24.0	XML30	1.03	885
36				15.0	XMS36	1.15	855				24.0	XML36	1.15	1190
42				15.0	XMS42	1.28	1115				24.0	XML42	1.28	1550
48				15.0	XMS48	1.42	1385				24.0	XML48	1.42	1940



CAPS AND PLUGS

Size	CAST IRON							DUCTILE IRON						
	Cap Item No.		Plug Item No.		T	Cap Wt.	Plug Wt.	Cap Item No.		Plug Item No.		T	Cap Wt.	Plug Wt.
	Solid	Tapped	Solid	Tapped				Solid	Tapped	Solid	Tapped			
3	CMK3	CTK3	CMP3	CTP3	.50	12	10	XMK3	XTK3	XMP3	XTP3	.50	12	10
4	CMK4	CTK4	CMP4	CTP4	.60	15	15	XMK4	XTK4	XMP4	XTP4	.60	15	15
6	CMK6	CTK6	CMP6	CTP6	.65	25	25	XMK6	XTK6	XMP6	XTP6	.65	25	25
8	CMK8	CTK8	CMP8	CTP8	.70	45	45	XMK8	XTK8	XMP8	XTP8	.70	45	45
10	CMK10	CTK10	CMP10	CTP10	.75	60	65	XMK10	XTK10	XMP10	XTP10	.75	60	65
12	CMK12	CTK12	CMP12	CTP12	.75	80	85	XMK12	XTK12	XMP12	XTP12	.75	80	85
14								XMK14	XTK14	XMP14	XTP14	.66	110	115
16								XMK16	XTK16	XMP16	XTP16	.70	150	145
18								XMK18	XTK18	XMP18	XTP18	.75	185	185
20								XMK20	XTK20	XMP20	XTP20	.80	240	225
24								XMK24	XTK24	XMP24	XTP24	.89	345	335
30								XMK30	XTK30	XMP30	XTP30	1.03	590	575
36								XMK36	XTK36	XMP36	XTP36	1.15	850	815
42								XMK42	XTK42	XMP42	XTP42	1.28	1180	1110
48								XMK48	XTK48	XMP48	XTP48	1.42	1595	1455

Weights in pounds
Dimensions in Inches
All Weights shown without accessories



WAREHOUSE & SALES LOCATIONS	Cream Ridge, NJ	Houston, TX	Ontario, CA	Alexander City, AL (Russell Pipe)	Victoriaville, Que., CAN (SIGMA-MAG)
	Warehouse, Sales & Corp. Office	Warehouse & Sales Office	Warehouse & Sales Office	Warehouse & Sales Office	Warehouse & Sales Office
PHONE	(609) 758-0800	(281) 987-1200	(909) 983-7944	(256) 234-2514	(819) 758-2222
TOLL FREE	(800) 999-2550	(800) 999-0109	(800) 688-6230	(800) 824-4513	(888) 744-6262
FAX	(609) 758-1158/1159	(281) 987-0200	(909) 391-2033	(256) 234-4956	(819) 758-1153

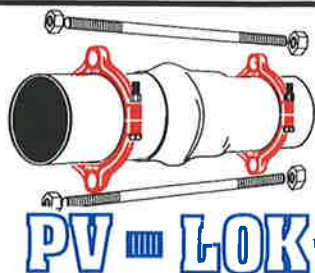


The TOTAL SIGMA PRODUCT LINE:

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Gland Packs
CI MJ Fittings
Retainer Glands
Compact DI Push-On Fittings
CI/DI Flanged Fittings

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A superior restraint for PVC Pipe, featuring improved Gripping Surface, Improved High Strength Clamp Ring, Locking Head Bolt Design. Restrains PVC Pipes to MJ Fittings. Also restrains PVC Bell and Spigot Joints.



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Patented lug-type pipe restraints for DI and PVC pipe, featuring contoured lugs that maximize pipe surface contact. One-Lok increases its grip on the pipe under pressure surges and water hammers.



omni-sleeve™
An all-in-one patented wall sleeve that installs easily, seals, restrains and allows adjustment and realignment of carrier pipe. All the advantages of wall pipes and wall sleeves with none of the drawbacks.