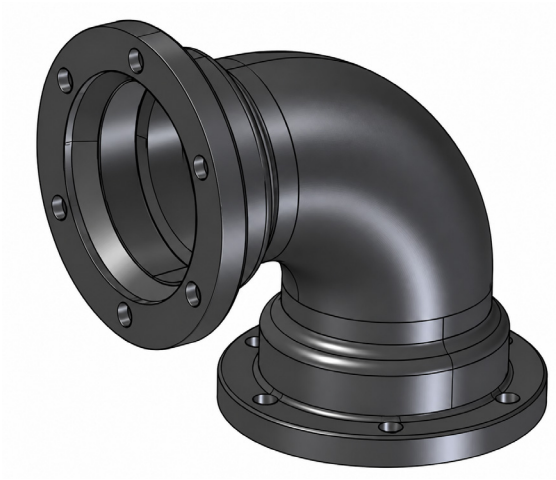
SIGMA WATERWORKS

C110 DUCTILE IRON

MECHANICAL JOINT FITTINGS



C110 DUCTILE IRON MECHANICAL JOINT FITTINGS BASIC SPECIFICATIONS

SIZES:
- 2” - 48”

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”.

TESTING:
- In accordance with ANSI/AWWA C110/A21.10
- In accordance with UL - FM requirements.
- All fittings are hydrostatically tested in accordance with SIGMA Quality Management Standard.
- All fittings are heat coded to ensure traceability and verification of metallurgical properties in accordance with the prevailing standards and SIGMA Quality Management Standards.

LAYING LENGTH:
- In accordance with ANSI / AWWA C110/A21.10.

DEFLECTION:
- Maximum allowable deflection for MJ Joint is as mentioned below:
  1. 3” - 4” = 8 Degrees
  2. 6” = 7 Degrees
  3. 8” - 12” = 5 Degrees
  4. 14” - 48” = 3 Degrees

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

COATING:
- Interior of fitting is seal coated (asphaltic material) in accordance with ANSI/AWWA C104/A21.4 and NSF61 approved.
- Exterior of fitting is seal coated (asphaltic material) in accordance with ANSI/AWWA C110/A21.10 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 C110/A21.10 for Full Body Ductile Iron Fittings 2”-48” 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.

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

SIGMA WATERWORKS
700 Goldman Drive
Cream Ridge, NJ 08514
800 999 2550 p
www.sigmawaterworks.com

SIGMA WATERWORKS

C110 DUCTILE IRON
MECHANICAL JOINT FITTINGS

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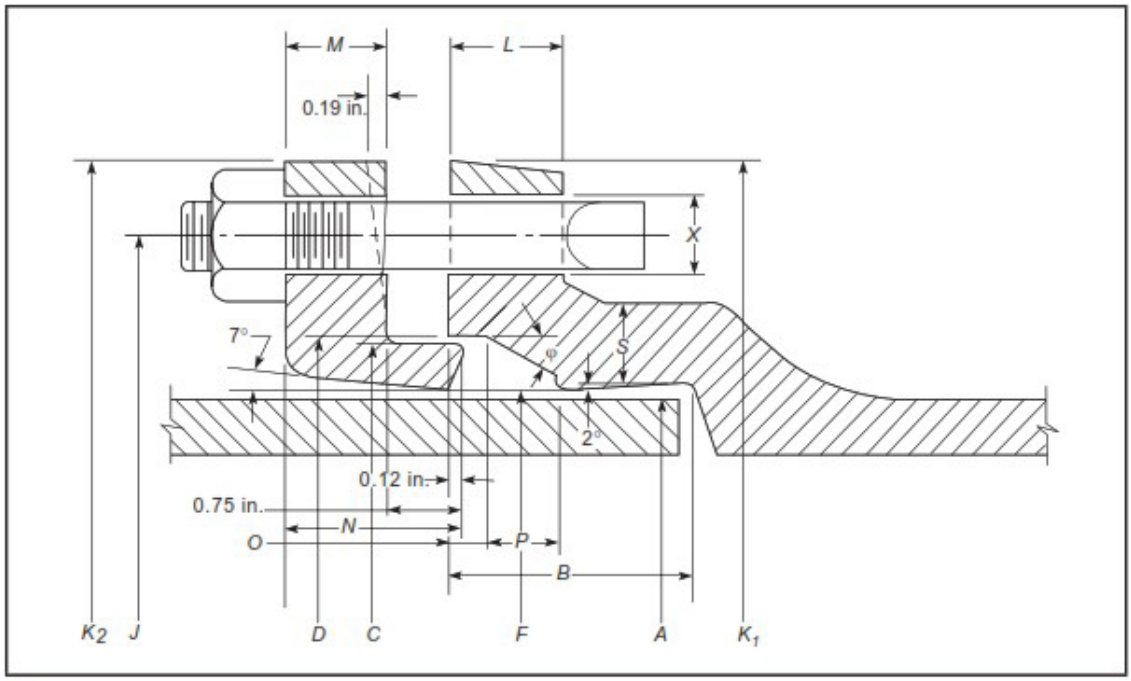
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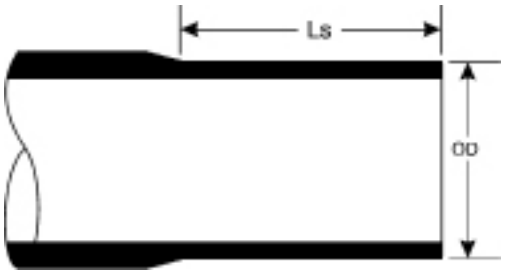
SLEEVES: XMS, XML, XMML 11

CAPS AND PLUGS: XMK, XTK, XMP, XTP, XMMP 14

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

SIGMA WATERWORKS
700 Goldman Drive
Cream Ridge, NJ 08514
800 999 2550 p
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Mechanical Joint Details Ductile Iron

Size	A	B	C	D	F	J	K1	K2	L	M	N	O	P	S	X
3	3.96	2.50	4.84	4.94	4.06	6.19	7.69	7.69	0.94	0.62	1.37	0.31	0.63	0.52	3/4
4	4.80	2.50	5.92	6.02	4.90	7.50	9.12	9.12	1.00	0.75	1.50	0.31	0.75	0.65	7/8
6	6.90	2.50	8.02	8.12	7.00	9.50	11.12	11.12	1.06	0.88	1.63	0.31	0.75	0.70	7/8
8	9.05	2.50	10.17	10.27	9.15	11.75	13.37	13.37	1.12	1.00	1.75	0.31	0.75	0.75	7/8
10	11.10	2.50	12.22	12.34	11.20	14.00	15.69	15.62	1.19	1.00	1.75	0.31	0.75	0.80	7/8
12	13.20	2.50	14.32	14.44	13.30	16.25	17.94	17.88	1.25	1.00	1.75	0.31	0.75	0.85	7/8
14	15.30	3.50	16.40	16.54	15.44	18.75	20.31	20.25	1.31	1.25	2.00	0.31	0.75	0.89	7/8
16	17.40	3.50	18.50	18.64	17.54	21.00	22.56	22.50	1.38	1.31	2.06	0.31	0.75	0.97	7/8
18	19.50	3.50	20.60	20.74	19.64	23.25	24.83	24.75	1.44	1.38	2.13	0.31	0.75	1.05	7/8
20	21.60	3.50	22.70	22.84	21.74	25.50	27.08	27.00	1.50	1.44	2.19	0.31	0.75	1.12	7/8
24	25.80	3.50	26.90	27.04	25.94	30.00	31.58	31.50	1.62	1.56	2.31	0.31	0.75	1.22	7/8
30	32.00	4.00	33.29	33.46	32.17	36.88	39.12	39.12	1.81	2.00	2.75	0.38	1.00	1.50	1 1/8
36	38.30	4.00	39.59	39.76	38.47	43.75	46.00	46.00	2.00	2.00	2.75	0.38	1.00	1.80	1 1/8
42	44.50	4.00	45.79	45.96	44.67	50.62	53.12	53.12	2.00	2.00	2.75	0.38	1.00	1.95	1 3/8
48	50.80	4.00	52.09	52.26	50.97	57.50	60.00	60.00	2.00	2.00	2.75	0.38	1.00	2.20	1 3/8

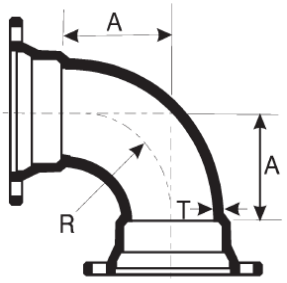
Plain End

Bolts			Plain End Details	
No.	Size	Length	OD	Ls
4	5/8	3.00	3.96	5.50
4	3/4	3.50	4.80	5.50
6	3/4	3.50	6.90	5.50
6	3/4	4.00	9.05	5.50
8	3/4	4.00	11.10	5.50
8	3/4	4.00	13.20	5.50
10	3/4	4.50	15.30	8.00
12	3/4	4.50	17.40	8.00
12	3/4	4.50	19.50	8.00
14	3/4	4.50	21.60	8.00
16	3/4	5.00	25.80	8.00
20	1.00	6.00	32.00	8.00
24	1.00	6.00	38.30	8.00
28	1 1/4	6.50	44.50	8.00
32	1 1/4	6.50	50.80	8.00

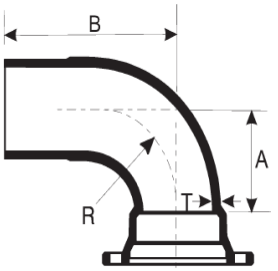
Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372

1/4 90° BENDS

Size	MJxMJ DUCTILE IRON		MJxPE DUCTILE IRON		R	T	MJxMJ	MJxPE
	Item No.	A	Item No.	B			Wt.	Wt.
3	XMB390	5.50	XME390	13.50	4.00	0.48	35	35
4	XMB490	6.50	XME490	14.50	4.50	0.52	55	50
6	XMB690	8.00	XME690	16.00	6.00	0.55	85	80
8	XMB890	9.00	XME890	17.00	7.00	0.60	125	120
10	XMB1090	11.00	XME1090	19.00	9.00	0.68	190	190
12	XMB1290	12.00	XME1290	20.00	10.00	0.75	255	255
14	XMB1490	14.00	XME1490	22.00	11.50	0.66	340	325
16	XMB1690	15.00	XME1690	23.00	12.50	0.70	430	410
18	XMB1890	16.50	XME1890	24.50	14.00	0.75	545	520
20	XMB2090	18.00	XME2090	26.00	15.50	0.80	680	650
24	XMB2490	22.00	XME2490	30.00	18.50	0.89	1,025	985
30	XMB3090	25.00	XME3090	33.00	21.50	1.03	1,690	1,585
36	XMB3690	28.00	XME3690	36.00	24.50	1.15	2,475	2,310
42	XMB4290	31.00	XME4290	39.00	27.50	1.28	3,410	3,200
48	XMB4890	34.00	XME4890	42.00	30.50	1.42	4,595	4,330



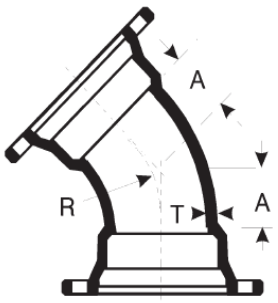
MJ x MJ Bends 90°



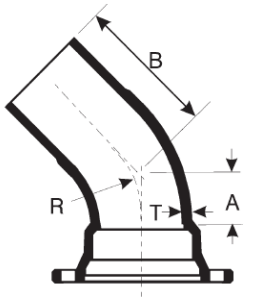
MJ x PE Bends 90°

1/8 45° BENDS

Size	MJxMJ DUCTILE IRON		MJxPE DUCTILE IRON		R	T	MJxMJ	MJxPE
	Item No.	A	Item No.	B			Wt.	Wt.
3	XMB345	3.00	XME345	11.00	3.62	0.48	30	30
4	XMB445	4.00	XME445	12.00	4.81	0.52	50	45
6	XMB645	5.00	XME645	13.00	7.25	0.55	75	70
8	XMB845	5.50	XME845	13.50	8.44	0.60	110	105
10	XMB1045	6.50	XME1045	14.50	10.88	0.68	155	155
12	XMB1245	7.50	XME1245	15.50	13.25	0.75	215	215
14	XMB1445	7.50	XME1445	15.50	12.06	0.66	270	255
16	XMB1645	8.00	XME1645	16.00	13.25	0.70	340	320
18	XMB1845	8.50	XME1845	16.50	14.50	0.75	420	395
20	XMB2045	9.50	XME2045	17.50	16.88	0.80	530	500
24	XMB2445	11.00	XME2445	19.00	18.12	0.89	755	715
30	XMB3045	15.00	XME3045	23.00	27.75	1.03	1,380	1,275
36	XMB3645	18.00	XME3645	26.00	35.00	1.15	2,095	1,930
42	XMB4245	21.00	XME4245	29.00	42.25	1.28	2,955	2,745
48	XMB4845	24.00	XME4845	32.00	49.50	1.42	4,080	3,815



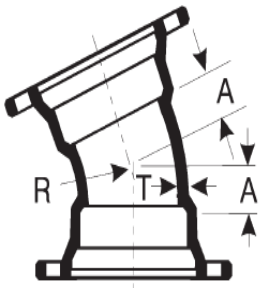
MJ x MJ Bends 45°



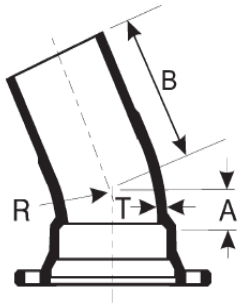
MJ x PE Bends 45°

1/16 22-1/2° BENDS

Size	MJxMJ DUCTILE IRON		MJxPE DUCTILE IRON		R	T	MJxMJ Wt.	MJxPE Wt.
	Item No.	A	Item No.	B				
3	XMB322	3.00	XME322	11.00	7.56	0.48	30	30
4	XMB422	4.00	XME422	12.00	10.06	0.52	50	45
6	XMB622	5.00	XME622	13.00	15.06	0.55	75	70
8	XMB822	5.50	XME822	13.50	17.62	0.60	110	105
10	XMB1022	6.50	XME1022	14.50	22.62	0.68	160	160
12	XMB1222	7.50	XME1222	15.50	27.62	0.75	220	220
14	XMB1422	7.50	XME1422	15.50	25.12	0.66	275	260
16	XMB1622	8.00	XME1622	16.00	27.62	0.70	345	325
18	XMB1822	8.50	XME1822	16.50	30.19	0.75	430	405
20	XMB2022	9.50	XME2022	17.50	35.19	0.80	535	505
24	XMB2422	11.00	XME2422	19.00	37.69	0.89	765	725
30	XMB3022	15.00	XME3022	23.00	57.81	1.03	1,400	1,295
36	XMB3622	18.00	XME3622	26.00	72.88	1.15	2,135	1,970
42	XMB4222	21.00	XME4222	29.00	88.00	1.28	3,020	2,810
48	XMB4822	24.00	XME4822	32.00	103.06	1.42	4,170	3,905



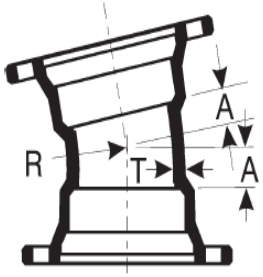
MJ x MJ Bends 22-1/2°



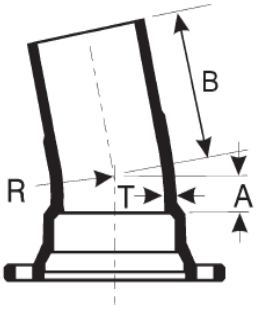
MJ x PE Bends 22-1/2°

1/32 11-1/4° BENDS

Size	MJxMJ DUCTILE IRON		MJxPE DUCTILE IRON		R	T	MJxMJ Wt.	MJxPE Wt.
	Item No.	A	Item No.	B				
3	XMB311	3.00	XME311	11.00	15.25	0.48	30	30
4	XMB411	4.00	XME411	12.00	20.31	0.52	50	45
6	XMB611	5.00	XME611	13.00	30.50	0.55	75	70
8	XMB811	5.50	XME811	13.50	35.50	0.60	110	105
10	XMB1011	6.50	XME1011	14.50	45.69	0.68	160	160
12	XMB1211	7.50	XME1211	15.50	55.81	0.75	220	220
14	XMB1411	7.50	XME1411	15.50	50.75	0.66	275	260
16	XMB1611	8.00	XME1611	16.00	55.81	0.70	345	325
18	XMB1811	8.50	XME1811	16.50	60.94	0.75	430	405
20	XMB2011	9.50	XME2011	17.50	71.06	0.80	540	510
24	XMB2411	11.00	XME2411	19.00	76.12	0.89	770	730
30	XMB3011	15.00	XME3011	23.00	116.75	1.03	1,410	1,305
36	XMB3611	18.00	XME3611	26.00	147.25	1.15	2,145	1,980
42	XMB4211	21.00	XME4211	29.00	177.69	1.28	3,035	2,825
48	XMB4811	24.00	XME4811	32.00	208.12	1.42	4,190	3,925

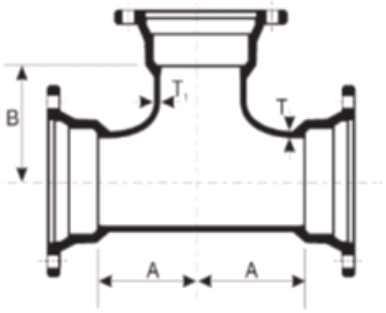


MJ x MJ Bends 11-1/4°

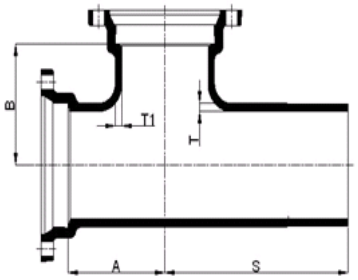


MJ x PE Bends 11-1/4°

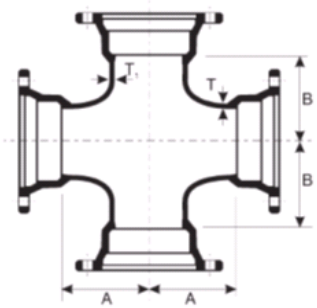
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MJ x MJ Tee



MJ x PE Tee

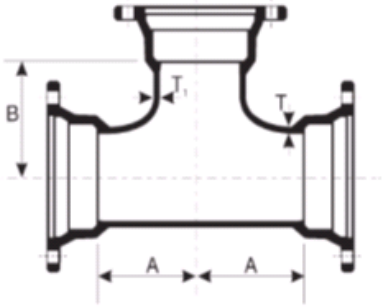


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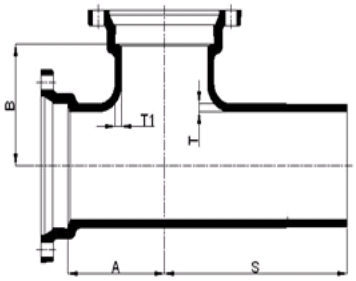
TEES AND CROSSES (continues on following page)

Size		psi	DI TEE		DI CROSS	T	T1	A	B	S	Tee Wt.	XTE Wt	Cross Wt
Run	Br		MJxMJ	MJxPE									
2	2	350	XMT22			0.45	0.45	5.50	5.50				
3	3	350	XMT33	XTE33	XMC33	0.48	0.48	5.50	5.50	13.50	55	55	70
4	3	350	XMT43	XTE43	XMC43	0.52	0.48	6.50	6.50	14.50	75	70	90
4	4	350	XMT44	XTE44	XMC44	0.52	0.52	6.50	6.50	14.50	80	75	105
6	2	350	XMT62			0.55	0.48	8.00	8.00		95		
6	3	350	XMT63	XTE63	XMC63	0.55	0.48	8.00	8.00	16.00	110	105	125
6	4	350	XMT64	XTE64	XMC64	0.55	0.52	8.00	8.00	16.00	115	110	140
6	6	350	XMT66	XTE66	XMC66	0.55	0.55	8.00	8.00	16.00	125	120	160
8	4	350	XMT84	XTE84	XMC84	0.60	0.52	9.00	9.00	17.00	165	160	185
8	6	350	XMT86	XTE86	XMC86	0.60	0.55	9.00	9.00	17.00	175	170	205
8	8	350	XMT88	XTE88	XMC88	0.60	0.60	9.00	9.00	17.00	185	180	235
10	4	350	XMT104	XTE104	XMC104	0.68	0.52	11.00	11.00	19.00	235	235	260
10	6	350	XMT106	XTE106	XMC106	0.68	0.55	11.00	11.00	19.00	250	250	285
10	8	350	XMT108	XTE108	XMC108	0.68	0.60	11.00	11.00	19.00	260	260	310
10	10	350	XMT1010	XTE1010	XMC1010	0.80	0.80	11.00	11.00	19.00	310	310	380
12	4	350	XMT124	XTE124	XMC124	0.75	0.52	12.00	12.00	20.00	315	315	340
12	6	350	XMT126	XTE126	XMC126	0.75	0.55	12.00	12.00	20.00	325	325	360
12	8	350	XMT128	XTE128	XMC128	0.75	0.60	12.00	12.00	20.00	340	340	385
12	10	350	XMT1210	XTE1210	XMC1210	0.87	0.80	12.00	12.00	20.00	390	390	460
12	12	350	XMT1212	XTE1212	XMC1212	0.87	0.87	12.00	12.00	20.00	410	410	495
14	4	350	XMT144			0.66	0.52	14.00	14.00		384		
14	6	350	XMT146	XTE146	XMC146	0.66	0.55	14.00	14.00	22.00	435	420	475
14	8	350	XMT148	XTE148	XMC148	0.66	0.60	14.00	14.00	22.00	450	435	500
14	10	350	XMT1410	XTE1410	XMC1410	0.66	0.68	14.00	14.00	22.00	465	450	540
14	12	350	XMT1412	XTE1412	XMC1412	0.66	0.75	14.00	14.00	22.00	495	475	585
14	14	350	XMT1414	XTE1414	XMC1414	0.66	0.66	14.00	14.00	22.00	520	500	635
16	4	350	XMT164			0.70	0.52	15.00	15.00				
16	6	350	XMT166	XTE166	XMC166	0.70	0.55	15.00	15.00	23.00	540	520	575
16	8	350	XMT168	XTE168	XMC168	0.70	0.60	15.00	15.00	23.00	550	530	605
16	10	350	XMT1610	XTE1610	XMC1610	0.70	0.68	15.00	15.00	23.00	570	550	645
16	12	350	XMT1612	XTE1612	XMC1612	0.70	0.75	15.00	15.00	23.00	590	570	685
16	14	350	XMT1614	XTE1614	XMC1614	0.70	0.66	15.00	15.00	23.00	620	600	735
16	16	350	XMT1616	XTE1616	XMC1616	0.70	0.70	15.00	15.00	23.00	650	625	790
18	6	350	XMT186	XTE186	XMC186	0.75	0.55	13.00	15.50	21.00	590	565	625
18	8	350	XMT188	XTE188	XMC188	0.75	0.60	13.00	15.50	21.00	605	580	655
18	10	350	XMT1810	XTE1810	XMC1810	0.75	0.68	13.00	15.50	21.00	620	595	685
18	12	350	XMT1812	XTE1812	XMC1812	0.75	0.75	13.00	15.50	21.00	640	615	725
18	14	350	XMT1814	XTE1814	XMC1814	0.75	0.66	16.50	16.50	24.50	755	730	870
18	16	350	XMT1816	XTE1816	XMC1816	0.75	0.70	16.50	16.50	24.50	785	760	930
18	18	350	XMT1818	XTE1818	XMC1818	0.75	0.75	16.50	16.50	24.50	820	795	995
20	6	350	XMT206	XTE206	XMC206	0.80	0.55	14.00	17.00	22.00	725	695	760
20	8	350	XMT208	XTE208	XMC208	0.80	0.60	14.00	17.00	22.00	735	705	790
20	10	350	XMT2010	XTE2010	XMC2010	0.80	0.68	14.00	17.00	22.00	755	725	820
20	12	350	XMT2012	XTE2012	XMC2012	0.80	0.75	14.00	17.00	22.00	775	745	860
20	14	350	XMT2014	XTE2014	XMC2014	0.80	0.66	14.00	17.00	22.00	795	765	905
20	16	350	XMT2016	XTE2016	XMC2016	0.80	0.70	18.00	18.00	26.00	945	915	1,085
20	18	350	XMT2018	XTE2018	XMC2018	0.80	0.75	18.00	18.00	26.00	985	950	1,155
20	20	350	XMT2020	XTE2020	XMC2020	0.80	0.80	18.00	18.00	26.00	1,020	990	1,230
24	4	350	XMT244			0.89	0.52	15.00	19.00		885		
24	6	350	XMT246	XTE246	XMC246	0.89	0.55	15.00	19.00	23.00	985	945	1,025
24	8	350	XMT248	XTE248	XMC248	0.89	0.60	15.00	19.00	23.00	1,000	960	1,045

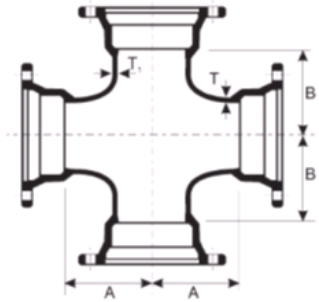
Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372



MJ x MJ Tee



MJ x PE Tee



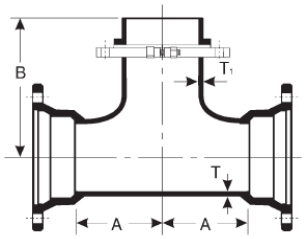
Cross

TEES AND CROSSES (continued)

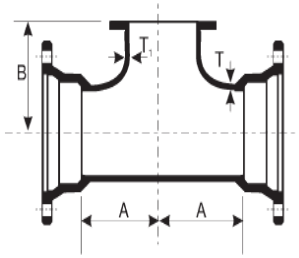
24	**10**	350	XMT2410	XTE2410	XMC2410	0.89	0.68	15.00	19.00	23.00	1,020	980	1,085
24	**12**	350	XMT2412	XTE2412	XMC2412	0.89	0.75	15.00	19.00	23.00	1,030	990	1,110
24	**14**	350	XMT2414	XTE2414	XMC2414	0.89	0.66	15.00	19.00	23.00	1,055	1,015	1,155
24	**16**	350	XMT2416	XTE2416	XMC2416	0.89	0.70	15.00	19.00	23.00	1,075	1,035	1,200
24	**18**	350	XMT2418	XTE2418	XMC2418	0.89	0.75	22.00	22.00	30.00	1,400	1,360	1,590
24	**20**	350	XMT2420	XTE2420	XMC2420	0.89	0.80	22.00	22.00	30.00	1,450	1,410	1,675
24	**24**	350	XMT2424	XTE2424	XMC2424	0.89	0.89	22.00	22.00	30.00	1,535	1,490	1,835
30	**6**	250	XMT306	XTE306	XMC306	1.03	0.55	18.00	23.00	26.00	1,730	1,615	1,770
30	**8**	250	XMT308	XTE308	XMC308	1.03	0.60	18.00	23.00	26.00	1,745	1,630	1,795
30	**10**	250	XMT3010	XTE3010	XMC3010	1.03	0.68	18.00	23.00	26.00	1,760	1,645	1,830
30	**12**	250	XMT3012	XTE3012	XMC3012	1.03	0.75	18.00	23.00	26.00	1,780	1,665	1,865
30	**14**	250	XMT3014	XTE3014	XMC3014	1.03	0.66	18.00	23.00	26.00	1,800	1,685	1,905
30	**16**	250	XMT3016	XTE3016	XMC3016	1.03	0.70	18.00	23.00	26.00	1,820	1,705	1,950
30	**18**	250	XMT3018	XTE3018	XMC3018	1.03	0.75	18.00	23.00	26.00	1,845	1,730	2,000
30	**20**	250	XMT3020	XTE3020	XMC3020	1.03	0.80	18.00	23.00	26.00	1,875	1,760	2,060
30	**24**	250	XMT3024	XTE3024	XMC3024	1.03	0.89	25.00	25.00	33.00	2,400	2,280	2,675
30	**30**	250	XMT3030	XTE3030	XMC3030	1.03	1.03	25.00	25.00	33.00	2,595	2,480	3,075
36	**6**	250	XMT366			1.15	0.55	20.00	26.00		2,223		
36	**8**	250	XMT368	XTE368	XMC368	1.15	0.60	20.00	26.00	28.00	2,520	2,345	2,565
36	**10**	250	XMT3610	XTE3610	XMC3610	1.15	0.68	20.00	26.00	28.00	2,535	2,360	2,600
36	**12**	250	XMT3612	XTE3612	XMC3612	1.15	0.75	20.00	26.00	28.00	2,550	2,375	2,630
36	**14**	250	XMT3614	XTE3614	XMC3614	1.15	0.66	20.00	26.00	28.00	2,570	2,395	2,665
36	**16**	250	XMT3616	XTE3616	XMC3616	1.15	0.70	20.00	26.00	28.00	2,585	2,410	2,705
36	**18**	250	XMT3618	XTE3618	XMC3618	1.15	0.75	20.00	26.00	28.00	2,610	2,435	2,750
36	**20**	250	XMT3620	XTE3620	XMC3620	1.15	0.80	20.00	26.00	28.00	2,635	2,460	2,805
36	**24**	250	XMT3624	XTE3624	XMC3624	1.15	0.89	20.00	26.00	28.00	2,690	2,515	2,910
36	**30**	250	XMT3630	XTE3630	XMC3630	1.15	1.03	28.00	28.00	36.00	3,545	3,365	3,965
36	**36**	250	XMT3636	XTE3636	XMC3636	1.15	1.15	28.00	28.00	36.00	3,745	3,565	4,370
42	**12**	250	XMT4212	XTE4212	XMC4212	1.28	0.75	23.00	30.00	31.00	3,555	3,335	3,640
42	**14**	250	XMT4214	XTE4214	XMC4214	1.28	0.66	23.00	30.00	31.00	3,575	3,355	3,675
42	**16**	250	XMT4216	XTE4216	XMC4216	1.28	0.70	23.00	30.00	31.00	3,595	3,375	3,715
42	**18**	250	XMT4218	XTE4218	XMC4218	1.28	0.75	23.00	30.00	31.00	3,615	3,395	3,755
42	**20**	250	XMT4220	XTE4220	XMC4220	1.28	0.80	23.00	30.00	31.00	3,640	3,420	3,810
42	**24**	250	XMT4224	XTE4224	XMC4224	1.28	0.89	23.00	30.00	31.00	3,690	3,470	3,910
42	**30**	250	XMT4230	XTE4230	XMC4230	1.28	1.03	31.00	31.00	39.00	4,650	4,425	5,040
42	**36**	250	XMT4236	XTE4236	XMC4236	1.78	1.58	31.00	31.00	39.00	6,075	5,850	6,655
42	**42**	250	XMT4242	XTE4242	XMC4242	1.78	1.78	31.00	31.00	39.00	6,320	6,095	7,145
48	**12**	250	XMT4812	XTE4812	XMC4812	1.42	0.75	26.00	34.00	34.00	4,870	4,580	4,955
48	**14**	250	XMT4814	XTE4814	XMC4814	1.42	0.66	26.00	34.00	34.00	4,885	4,595	4,985
48	**16**	250	XMT4816	XTE4816	XMC4816	1.42	0.70	26.00	34.00	34.00	4,905	4,615	5,025
48	**18**	250	XMT4818	XTE4818	XMC4818	1.42	0.75	26.00	34.00	34.00	4,925	4,635	5,065
48	**20**	250	XMT4820	XTE4820	XMC4820	1.42	0.80	26.00	34.00	34.00	4,950	4,660	5,115
48	**24**	250	XMT4824	XTE4824	XMC4824	1.42	0.89	26.00	34.00	34.00	4,995	4,705	5,210
48	**30**	250	XMT4830	XTE4830	XMC4830	1.42	1.03	26.00	34.00	34.00	5,140	4,855	5,495
48	**36**	250	XMT4836	XTE4836	XMC4836	1.42	1.15	34.00	34.00	42.00	6,280	5,995	6,790
48	**42**	250	XMT4842	XTE4842	XMC4842	1.96	1.78	34.00	34.00	42.00	8,130	7,845	8,815
48	**48**	250	XMT4848	XTE4848	XMC4848	1.96	1.96	34.00	34.00	42.00	8,420	8,135	9,380

HYDRANT TEES DUCTILE IRON

Size		Item No.	Wt.	A	B	T	T1
Run	Branch						
6	6	XMH66	116	8.00	10.50	0.55	0.55
8	6	XMH86	210	9.00	11.50	0.60	0.55
8	8	XMH88	198	9.00	11.50	0.60	0.60
10	6	XMH106	270	11.00	13.50	0.68	0.55
10	8	XMH108		11.00	13.50	0.68	0.60
12	6	XMH126	341	12.00	14.50	0.75	0.55
12	8	XMH128	300	12.00	14.50	0.75	0.60
14	6	XMH146	500	14.00	16.50	0.66	0.55
14	8	XMH148		14.00	16.50	0.66	0.60
16	6	XMH166	540	15.00	17.50	0.70	0.55
16	8	XMH168	649	15.00	17.50	0.70	0.60
18	6	XMH186	750	13.00	17.50	0.75	0.55
18	8	XMH188		13.00	17.50	0.75	0.60
20	6	XMH206	829	14.00	19.50	0.80	0.55
20	8	XMH208		14.00	19.50	0.80	0.60
24	6	XMH246	1,134	15.00	21.50	0.89	0.55
24	8	XMH248		15.00	21.50	0.89	0.60
30	6	XMH306	1,739	18.00	24.50	1.03	0.55



Hydrant Tees



MJ x Flange Tees

MJ X FLANGE TEES DUCTILE IRON

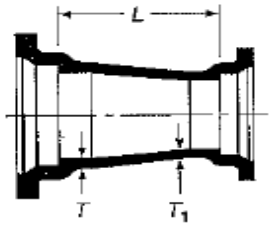
Size		Item No.	Wt.	A	B	T	T1
Run	Br						
3	3	XMF33		5.50	5.50	0.48	0.48
4	3	XMF43		6.50	6.50	0.52	0.48
4	4	XMF44	89	6.50	6.50	0.52	0.52
6	3	XMF63		8.00	8.00	0.55	0.48
6	4	XMF64	129	8.00	8.00	0.55	0.52
6	6	XMF66	140	8.00	8.00	0.55	0.55
8	4	XMF84	159	9.00	9.00	0.60	0.52
8	6	XMF86	195	9.00	9.00	0.60	0.55
8	8	XMF88	175	9.00	9.00	0.60	0.60
10	4	XMF104	229	11.00	11.00	0.68	0.52
10	6	XMF106	222	11.00	11.00	0.68	0.55
10	8	XMF108	250	11.00	11.00	0.68	0.60
10	10	XMF1010	260	11.00	11.00	0.80	0.80
12	4	XMF124	309	12.00	12.00	0.75	0.52
12	6	XMF126	336	12.00	12.00	0.75	0.55
12	8	XMF128	330	12.00	12.00	0.75	0.60
12	10	XMF1210	380	12.00	12.00	0.87	0.80
12	12	XMF1212	400	12.00	12.00	0.87	0.87
14	6	XMF146	490	14.00	14.00	0.66	0.55
14	8	XMF148	500	14.00	14.00	0.66	0.60
14	10	XMF1410		14.00	14.00	0.66	0.68
14	12	XMF1412		14.00	14.00	0.66	0.75
14	14	XMF1414		14.00	14.00	0.66	0.66
16	4	XMF164	575	15.00	15.00	0.70	0.52
16	6	XMF166	605	15.00	15.00	0.70	0.55
16	8	XMF168	615	15.00	15.00	0.70	0.60
16	10	XMF1610	635	15.00	15.00	0.70	0.68
16	12	XMF1612	650	15.00	15.00	0.70	0.75
16	14	XMF1614		15.00	15.00	0.70	0.66
16	16	XMF1616	730	15.00	15.00	0.70	0.70
18	6	XMF186	665	13.00	15.50	0.75	0.55
18	8	XMF188	675	13.00	15.50	0.75	0.60
18	10	XMF1810		13.00	15.50	0.75	0.68
18	12	XMF1812	705	13.00	15.50	0.75	0.75
18	14	XMF1814		16.50	16.50	0.75	0.66
18	16	XMF1816		16.50	16.50	0.75	0.70
18	18	XMF1818	915	16.50	16.50	0.75	0.75
20	4	XMF204		14.00	17.00	0.80	0.52
20	6	XMF206	820	14.00	17.00	0.80	0.55
20	8	XMF208	835	14.00	17.00	0.80	0.60
20	10	XMF2010		14.00	17.00	0.80	0.68
20	12	XMF2012	865	14.00	17.00	0.80	0.75
20	14	XMF2014		14.00	17.00	0.80	0.66
20	16	XMF2016	1,075	18.00	18.00	0.80	0.70
20	18	XMF2018		18.00	18.00	0.80	0.75
20	20	XMF2020	1,165	18.00	18.00	0.80	0.80
24	6	XMF246	1,125	15.00	19.00	0.89	0.55
24	8	XMF248	1,140	15.00	19.00	0.89	0.60
24	10	XMF2410	1,150	15.00	19.00	0.89	0.68
24	12	XMF2412	1,165	15.00	19.00	0.89	0.75
24	14	XMF2414	1,205	15.00	19.00	0.89	0.66
24	16	XMF2416	1,230	15.00	19.00	0.89	0.70
24	18	XMF2418	1,640	22.00	22.00	0.89	0.75
24	20	XMF2420	1,705	22.00	22.00	0.89	0.80
24	24	XMF2424	1,795	22.00	22.00	0.89	0.89
30	6	XMF306	1,710	18.00	23.00	1.03	0.55
30	8	XMF308	1,725	18.00	23.00	1.03	0.60
30	10	XMF3010		18.00	23.00	1.03	0.68
30	12	XMF3012		18.00	23.00	1.03	0.75
30	14	XMF3014		18.00	23.00	1.03	0.66
30	16	XMF3016		18.00	23.00	1.03	0.70
30	18	XMF3018		18.00	23.00	1.03	0.75
30	20	XMF3020		18.00	23.00	1.03	0.80
30	24	XMF3024		25.00	25.00	1.03	0.89
30	30	XMF3030		25.00	25.00	1.03	1.03
36	6	XMF366	2,430	20.00	26.00	1.15	0.55
36	8	XMF368	2,505	20.00	26.00	1.15	0.60
36	10	XMF3610		20.00	26.00	1.15	0.68
36	12	XMF3612		20.00	26.00	1.15	0.75
36	14	XMF3614		20.00	26.00	1.15	0.66
36	16	XMF3616		20.00	26.00	1.15	0.70
36	18	XMF3618		20.00	26.00	1.15	0.75
36	20	XMF3620		20.00	26.00	1.15	0.80
36	24	XMF3624		20.00	26.00	1.15	0.89
36	30	XMF3630		28.00	28.00	1.15	1.03
36	36	XMF3636		28.00	28.00	1.15	1.15
42	12	XMF4212		23.00	30.00	1.28	0.75
42	14	XMF4214		23.00	30.00	1.28	0.66
42	16	XMF4216		23.00	30.00	1.28	0.70
42	18	XMF4218		23.00	30.00	1.28	0.75
42	20	XMF4220		23.00	30.00	1.28	0.80
42	24	XMF4224		23.00	30.00	1.28	0.89
42	30	XMF4230		31.00	31.00	1.28	1.03
42	36	XMF4236		31.00	31.00	1.78	1.58
42	42	XMF4242		31.00	31.00	1.78	1.78
48	8	XMF488		20.00	34.00	1.42	0.60
48	12	XMF4812		26.00	34.00	1.42	0.75
48	14	XMF4814		26.00	34.00	1.42	0.66
48	16	XMF4816		26.00	34.00	1.42	0.70
48	18	XMF4818		26.00	34.00	1.42	0.75
48	20	XMF4820		26.00	34.00	1.42	0.80
48	24	XMF4824		26.00	34.00	1.42	0.89
48	30	XMF4830		26.00	34.00	1.42	1.03
48	36	XMF4836		34.00	34.00	1.42	1.15
48	42	XMF4842		34.00	34.00	1.96	1.78
48	48	XMF4848		34.00	34.00	1.96	1.96

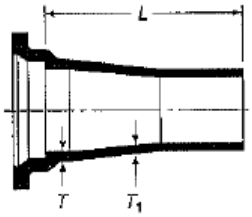
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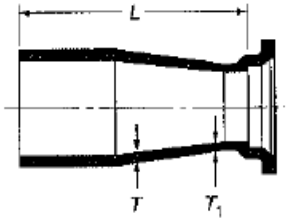
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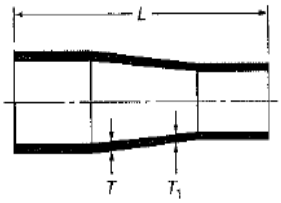
APPROVED

AWWA MEMBER


MJxMJ


MJxPE


PExMJ


PExPE

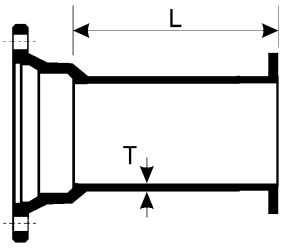
REDUCERS DUCTILE IRON

Size		MJ x MJ			MJ x PE			PE x MJ			PE x PE			T	T1
D	D1	Item No.	Wt.	L	Item No.	Wt.	L	Item No.	Wt.	L	Item No.	Wt.	L		
4	3	XMR43	40	7.00	XSPR43	35	15.00	XLPR43	40	15.00	XPPR43	35	23.00	0.52	0.48
6	3	XMR63	55	9.00	XSPR63	50	17.00	XLPR63	55	17.00	XPPR63	50	25.00	0.55	0.48
6	4	XMR64	60	9.00	XSPR64	60	17.00	XLPR64	60	17.00	XPPR64	55	25.00	0.55	0.52
8	4	XMR84	80	11.00	XSPR84	80	19.00	XLPR84	80	19.00	XPPR84	75	27.00	0.60	0.52
8	6	XMR86	95	11.00	XSPR86	90	19.00	XLPR86	90	19.00	XPPR86	85	27.00	0.60	0.55
10	4	XMR104	105	12.00	XSPR104	100	20.00	XLPR104	100	20.00	XPPR104	100	28.00	0.68	0.52
10	6	XMR106	115	12.00	XSPR106	115	20.00	XLPR106	115	20.00	XPPR106	115	28.00	0.68	0.55
10	8	XMR108	135	12.00	XSPR108	130	20.00	XLPR108	130	20.00	XPPR108	130	28.00	0.68	0.60
12	4	XMR124	135	14.00	XSPR124	130	22.00	XLPR124	130	22.00	XPPR124	130	30.00	0.75	0.52
12	6	XMR126	150	14.00	XSPR126	150	22.00	XLPR126	145	22.00	XPPR126	145	30.00	0.75	0.55
12	8	XMR128	165	14.00	XSPR128	165	22.00	XLPR128	165	22.00	XPPR128	165	30.00	0.75	0.60
12	10	XMR1210	190	14.00	XSPR1210	190	22.00	XLPR210	185	22.00	XPPR1210	185	30.00	0.75	0.68
14	6	XMR146	190	16.00	XSPR146	175	24.00	XLPR146	185	24.00	XPPR146	170	32.00	0.66	0.55
14	8	XMR148	210	16.00	XSPR148	190	24.00	XLPR148	205	24.00	XPPR148	190	32.00	0.66	0.60
14	10	XMR1410	230	16.00	XSPR1410	215	24.00	XLPR1410	230	24.00	XPPR1410	215	32.00	0.66	0.68
14	12	XMR1412	255	16.00	XSPR1412	240	24.00	XLPR1412	255	24.00	XPPR1412	240	32.00	0.66	0.75
16	6	XMR166	230	18.00	XSPR166	210	26.00	XLPR166	230	26.00	XPPR166	210	34.00	0.70	0.55
16	8	XMR168	250	18.00	XSPR168	230	26.00	XLPR168	250	26.00	XPPR168	230	34.00	0.70	0.60
16	10	XMR1610	280	18.00	XSPR1610	255	26.00	XLPR1610	275	26.00	XPPR1610	255	34.00	0.70	0.68
16	12	XMR1612	305	18.00	XSPR1612	285	26.00	XLPR1612	305	26.00	XPPR1612	285	34.00	0.70	0.75
16	14	XMR1614	335	18.00	XSPR1614	310	26.00	XLPR1614	315	26.00	XPPR1614	295	34.00	0.70	0.66
18	8	XMR188	295	19.00	XSPR188	270	27.00	XLPR188	295	27.00	XPPR188	270	35.00	0.75	0.60
18	10	XMR1810	325	19.00	XSPR1810	300	27.00	XLPR1810	320	27.00	XPPR1810	295	35.00	0.75	0.68
18	12	XMR1812	350	19.00	XSPR1812	325	27.00	XLPR1812	350	27.00	XPPR1812	325	35.00	0.75	0.75
18	14	XMR1814	380	19.00	XSPR1814	355	27.00	XLPR1814	365	27.00	XPPR1814	340	35.00	0.75	0.66
18	16	XMR1816	415	19.00	XSPR1816	390	27.00	XLPR1816	395	27.00	XPPR1816	370	35.00	0.75	0.70
20	8				XSPR208		28.00							0.80	0.60
20	10	XMR2010	375	20.00	XSPR2010	345	28.00	XLPR2010	375	28.00	XPPR2010	345	36.00	0.80	0.68
20	12	XMR2012	405	20.00	XSPR2012	375	28.00	XLPR2012	405	28.00	XPPR2012	375	36.00	0.80	0.75
20	14	XMR2014	430	20.00	XSPR2014	400	28.00	XLPR2014	415	28.00	XPPR2014	385	36.00	0.80	0.66
20	16	XMR2016	470	20.00	XSPR2016	435	28.00	XLPR2016	445	28.00	XPPR2016	415	36.00	0.80	0.70
20	18	XMR2018	510	20.00	XSPR2018	475	28.00	XLPR2018	485	28.00	XPPR2018	455	36.00	0.80	0.75
24	8	XMR248	457	24.00										0.89	0.60
24	12	XMR2412	550	24.00	XSPR2412	510	32.00	XLPR2412	550	32.00	XPPR2412	510	40.00	0.89	0.75
24	14	XMR2414	575	24.00	XSPR2414	535	32.00	XLPR2414	560	32.00	XPPR2414	520	40.00	0.89	0.66
24	16	XMR2416	615	24.00	XSPR2416	575	32.00	XLPR2416	595	32.00	XPPR2416	555	40.00	0.89	0.70
24	18	XMR2418	660	24.00	XSPR2418	620	32.00	XLPR2418	635	32.00	XPPR2418	595	40.00	0.89	0.75
24	20	XMR2420	705	24.00	XSPR2420	665	32.00	XLPR2420	675	32.00	XPPR2420	635	40.00	0.89	0.80
30	6	XMR306		30.00										1.03	0.55
30	8				XSPR308	629	38.00							1.03	0.60
30	12	XMR3012		30.00										1.03	0.75
30	16	XMR3016	985	30.00	XSPR3016	900	38.00	XLPR3016	910	38.00	XPPR3016		46.00	1.03	0.70
30	18	XMR3018	990	30.00	XSPR3018	885	38.00	XLPR3018	965	38.00	XPPR3018	860	46.00	1.03	0.75
30	20	XMR3020	1,050	30.00	XSPR3020	945	38.00	XLPR3020	1,020	38.00	XPPR3020	915	46.00	1.03	0.80
30	24	XMR3024	1,165	30.00	XSPR3024	1,060	38.00	XLPR3024	1,125	38.00	XPPR3024	1,020	46.00	1.03	0.89
36	14	XMR3614		36.00										1.15	0.66
36	18	XMR3618		36.00										1.15	0.75
36	20	XMR3620	1,450	36.00	XSPR3620	1,285	44.00	XLPR3620	1,420	44.00	XPPR3620	1,255	52.00	1.15	0.80
36	24	XMR3624	1,580	36.00	XSPR3624	1,410	44.00	XLPR3624	1,535	44.00	XPPR3624	1,370	52.00	1.15	0.89
36	30	XMR3630	1,855	36.00	XSPR3630	1,690	44.00	XLPR3630	1,750	44.00	XPPR3630	1,585	52.00	1.15	1.03
42	20	XMR4220	1,915	42.00	XSPR4220	1,705	50.00	XLPR4220	1,880	50.00	XPPR4220	1,670	58.00	1.28	0.80
42	24	XMR4224	2,060	42.00	XSPR4224	1,855	50.00	XLPR4224	2,020	50.00	XPPR4224	1,810	58.00	1.28	0.89
42	30	XMR4230	2,370	42.00	XSPR4230	2,165	50.00	XLPR4230	2,265	50.00	XPPR4230	2,055	58.00	1.28	1.03
42	36	XMR4236	2,695	42.00	XSPR4236	2,485	50.00	XLPR4236	2,530	50.00	XPPR4236	2,320	58.00	1.28	1.15
48	24	XMR4824		45.00	XSPR4824		56.00							1.42	0.89
48	30	XMR4830	3,005	48.00	XSPR4830	2,740	56.00	XLPR4830	2,900	56.00	XPPR4830	2,635	64.00	1.42	1.03
48	36	XMR4836	3,370	48.00	XSPR4836	3,100	56.00	XLPR4836	3,205	56.00	XPPR4836	2,940	64.00	1.42	1.15
48	42	XMR4842	3,750	48.00	XSPR4842	3,480	56.00	XLPR4842	3,540	56.00	XPPR4842	3,275	64.00	1.42	1.28

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MJ x FLANGE ADAPTERS DUCTILE IRON

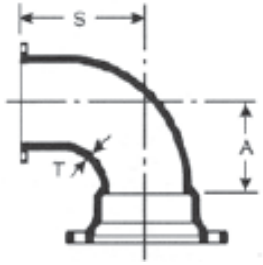
SIZE	Item No.	Wt.	L	T
3	XMFA3	30	8.00	0.48
4	XMFA4	40	8.00	0.52
6	XMFA6	60	8.00	0.55
8	XMFA8	85	8.00	0.60
10	XMFA10	115	8.00	0.68
12	XMFA12	155	8.00	0.75
14	XMFA14	195	8.00	0.66
16	XMFA16	240	8.00	0.70
18	XMFA18	280	8.00	0.75
20	XMFA20	340	8.00	0.80
24	XMFA24	455	8.00	0.89
30	XMFA30	760	10.00	1.03
36	XMFA36	1070	10.00	1.15
42	XMFA42	1505	12.00	1.28
48	XMFA48	1885	12.00	1.42



MJ x Flange Adapters

MJ X FLANGE 90° BEND DUCTILE IRON

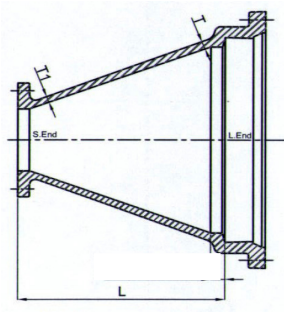
SIZE	Item No.	A	S	T
14	XMFB1490	14.00	14.00	0.66
16	XMFB1690	15.00	15.00	0.70
18	XMFB1890	16.50	16.50	0.75
20	XMFB2090	18.00	18.00	0.80
24	XMFB2490	22.00	22.00	0.89
36	XMFB3690	28.00	28.00	1.15



MJ x Flange Bend

MJ X FLANGE 45° BEND DUCTILE IRON

SIZE	Item No.	A	S	T
30	XMFB3045	15.00	15.00	1.03
36	XMFB3645	18.00	18.00	1.15
42	XMFB4245	21.00	21.00	1.28
48	XMFB4845	24.00	24.00	1.42



MJ x Flange Reducer

MJ X FLANGE REDUCER DUCTILE IRON

Size		Item No.	L	T	T1	Wt.
4	3	XMFR43	7.00	0.52	0.48	
6	3	XMFR63	9.00	0.55	0.48	
6	4	XMFR64	9.00	0.55	0.52	
8	4	XMFR84	11.00	0.60	0.52	
8	6	XMFR86	11.00	0.60	0.55	
10	4	XMFR104	12.00	0.68	0.52	
10	6	XMFR106	12.00	0.68	0.55	
10	8	XMFR108	12.00	0.68	0.60	
12	4	XMFR124	14.00	0.75	0.52	
12	6	XMFR126	14.00	0.75	0.55	
12	8	XMFR128	14.00	0.75	0.60	
12	10	XMFR1210	14.00	0.75	0.68	
14	6	XMFR146	16.00	0.66	0.55	
14	8	XMFR148	16.00	0.66	0.60	
14	10	XMFR1410	16.00	0.66	0.68	
14	12	XMFR1412	16.00	0.66	0.75	
16	6	XMFR166	18.00	0.70	0.55	
16	8	XMFR168	18.00	0.70	0.60	
16	10	XMFR1610	18.00	0.70	0.68	
16	12	XMFR1612	18.00	0.70	0.75	
16	14	XMFR1614	18.00	0.70	0.66	
18	6	XMFR186	18.00	0.75	0.55	
18	8	XMFR188	19.00	0.75	0.60	
18	10	XMFR1810	19.00	0.75	0.68	
18	12	XMFR1812	19.00	0.75	0.75	

Size		Item No.	L	T	T1	Wt.
18	14	XMFR1814	19.00	0.75	0.66	
18	16	XMFR1816	19.00	0.75	0.70	
20	10	XMFR2010	20.00	0.80	0.68	
20	12	XMFR2012	20.00	0.80	0.75	
20	14	XMFR2014	20.00	0.80	0.66	
20	16	XMFR2016	20.00	0.80	0.70	
20	18	XMFR2018	20.00	0.80	0.75	
24	12	XMFR2412	24.00	0.89	0.75	
24	14	XMFR2414	24.00	0.89	0.66	
24	16	XMFR2416	24.00	0.89	0.70	
24	18	XMFR2418	24.00	0.89	0.75	
24	20	XMFR2420	24.00	0.89	0.80	
30	18	XMFR3018	30.00	1.03	0.75	
30	20	XMFR3020	30.00	1.03	0.80	
30	24	XMFR3024	30.00	1.03	0.89	
36	20	XMFR3620	36.00	1.15	0.80	
36	24	XMFR3624	36.00	1.15	0.89	
36	30	XMFR3630	36.00	1.15	1.03	
42	20	XMFR4220	42.00	1.28	0.80	
42	24	XMFR4224	42.00	1.28	0.89	
42	30	XMFR4230	42.00	1.28	1.03	
42	36	XMFR4236	42.00	1.28	1.15	
48	30	XMFR4830	48.00	1.42	1.03	
48	36	XMFR4836	48.00	1.42	1.15	
48	42	XMFR4842	48.00	1.42	1.28	

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

LISTED

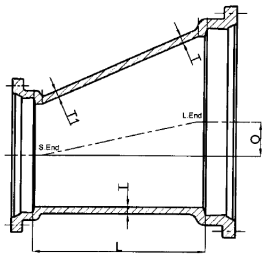
APPROVED

AWWA MEMBER

SIGMA WATERWORKS

ECCENTRIC REDUCER DUCTILE IRON

Size		Item No.	L	T	T1	Wt.
4	3	XMRE43	7.00	0.52	0.48	
6	3	XMRE63	9.00	0.55	0.48	
6	4	XMRE64	9.00	0.55	0.52	
8	4	XMRE84	11.00	0.60	0.52	
8	6	XMRE86	11.00	0.60	0.55	
10	4	XMRE104	12.00	0.68	0.52	
10	6	XMRE106	12.00	0.68	0.55	
10	8	XMRE108	12.00	0.68	0.60	
12	4	XMRE124	14.00	0.75	0.52	
12	6	XMRE126	14.00	0.75	0.55	
12	8	XMRE128	14.00	0.75	0.60	
12	10	XMRE1210	14.00	0.75	0.68	
14	6	XMRE146	16.00	0.66	0.55	
14	8	XMRE148	16.00	0.66	0.60	
14	10	XMRE1410	16.00	0.66	0.68	
14	12	XMRE1412	16.00	0.66	0.75	
16	6	XMRE166	18.00	0.70	0.55	
16	8	XMRE168	18.00	0.70	0.60	
16	10	XMRE1610	18.00	0.70	0.68	
16	12	XMRE1612	18.00	0.70	0.75	
16	14	XMRE1614	18.00	0.70	0.66	
18	8	XMRE188	19.00	0.75	0.60	
18	10	XMRE1810	19.00	0.75	0.68	
18	12	XMRE1812	19.00	0.75	0.75	
18	14	XMRE1814	19.00	0.75	0.66	
18	16	XMRE1816	19.00	0.75	0.70	
20	10	XMRE2010	20.00	0.80	0.68	
20	12	XMRE2012	20.00	0.80	0.75	
20	14	XMRE2014	20.00	0.80	0.66	
20	16	XMRE2016	20.00	0.80	0.70	
20	18	XMRE2018	20.00	0.80	0.75	

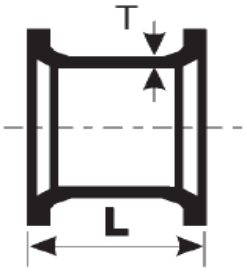


Eccentric Reducer

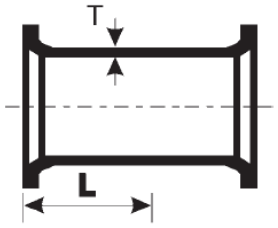
Size		Item No.	L	T	T1	Wt.
24	6	XMRE246	24.00	0.89	0.55	
24	12	XMRE2412	24.00	0.89	0.75	
24	14	XMRE2414	24.00	0.89	0.66	
24	16	XMRE2416	24.00	0.89	0.70	
24	18	XMRE2418	24.00	0.89	0.75	
24	20	XMRE2420	24.00	0.89	0.80	
30	16	XMRE3016	30.00	1.03	0.70	
30	18	XMRE3018	30.00	1.03	0.75	
30	20	XMRE3020	30.00	1.03	0.80	
30	24	XMRE3024	30.00	1.03	0.89	
36	14	XMRE3614	36.00	1.15	0.66	
36	20	XMRE3620	36.00	1.15	0.80	
36	24	XMRE3624	36.00	1.15	0.89	
36	30	XMRE3630	36.00	1.15	1.03	
42	20	XMRE4220	42.00	1.28	0.80	
42	24	XMRE4224	42.00	1.28	0.89	
42	30	XMRE4230	42.00	1.28	1.03	
42	36	XMRE4236	42.00	1.28	1.15	
48	24	XMRE4824	45.00	1.42	0.89	
48	30	XMRE4830	48.00	1.42	1.03	
48	36	XMRE4836	48.00	1.42	1.15	
48	42	XMRE4842	48.00	1.42	1.28	

SLEEVES DUCTILE IRON

Size	SHORT SLEEVES				LONG SLEEVES			
	Item No.	L	T	Wt.	Item No.	L	T	Wt.
3	XMS3	7.5	.48	25	XML3	12.0	.48	30
4	XMS4	7.5	.52	35	XML4	12.0	.52	45
6	XMS6	7.5	.55	45	XML6	12.0	.55	65
8	XMS8	7.5	.60	65	XML8	12.0	.60	85
10	XMS10	7.5	.68	85	XML10	12.0	.68	115
12	XMS12	7.5	.75	110	XML12	12.0	.75	145
14	XMS14	9.5	.66	150	XML14	15.0	.66	195
16	XMS16	9.5	.70	180	XML16	15.0	.70	235
18	XMS18	9.5	.75	215	XML18	15.0	.75	285
20	XMS20	9.5	.80	240	XML20	15.0	.80	325
24	XMS24	9.5	.89	320	XML24	15.0	.89	425
30	XMS30	15.0	1.03	635	XML30	24.0	1.03	885
36	XMS36	15.0	1.15	855	XML36	24.0	1.15	1,190
42	XMS42	15.0	1.28	1,115	XML42	24.0	1.28	1,550
48	XMS48	15.0	1.42	1,385	XML48	24.0	1.42	1,940



Short Sleeves



Long Sleeves

MODIFIED SLEEVES DUCTILE IRON

Size	LONG SLEEVES		
	Item No.	L	Wt.
4	XMML4	12	46
6	XMML6	12	63
8	XMML8	12	84
10	XMML10	12	115
12	XMML12	12	149
16	XMML16	15	235
20	XMML20	15	362
24	XMML24	15	484

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

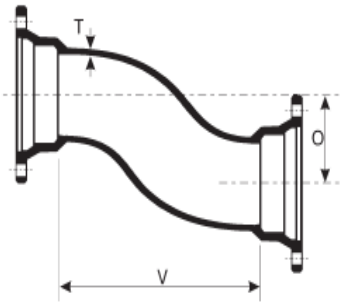
UL® LISTED

FM APPROVED

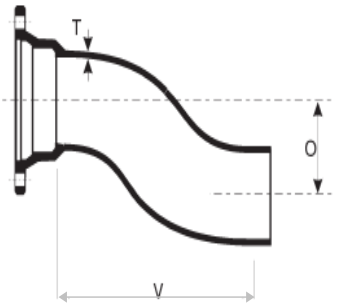
AWWA MEMBER

OFFSETS DUCTILE IRON

MJ x MJ Size	Item No.	Wt.	O	V	T	MJ x PE Item No.	Wt.	O	V	T
3 x 5	XMO35	50	5	19	0.48	XMQ35		5	27	0.48
3x6	XMO36	50	6	19	0.48					
3x12	XMO312	60	12	22	0.48	XMQ312	60	12	30	0.48
3x18	XMO318	75	18	30	0.48	XMQ318	75	18	38	0.48
4x6	XMO46	75	6	19	0.52	XMQ46	70	6	27	0.52
4x12	XMO412	85	12	22	0.52	XMQ412	80	12	30	0.52
4x18	XMO418	105	18	30	0.52	XMQ418	100	18	38	0.52
4x24						XMQ424		24	44	0.52
6x6	XMO66	110	6	20	0.55	XMQ66	105	6	28	0.55
6x12	XMO612	135	12	26	0.55	XMQ612	130	12	34	0.55
6x18	XMO618	165	18	33	0.55	XMQ618	160	18	41	0.55
6x24	XMO624	195	24	39	0.55	XMQ624	195	24	47	0.55
8x6	XMO86	160	6	21	0.60	XMQ86	155	6	29	0.60
8x12	XMO812	200	12	28	0.60	XMQ812	195	12	36	0.60
8x18	XMO818	245	18	35	0.60	XMQ818	240	18	43	0.60
8x24	XMO824	325	24	41	0.60	XMQ824		24	49	0.60
10x6	XMO106	220	6	22	0.68	XMQ106	220	6	30	0.68
10x12	XMO1012	250	12	30	0.68	XMQ1012	250	12	38	0.68
10x18	XMO1018	340	18	38	0.68	XMQ1018	340	18	46	0.68
10x24	XMO1024	400	24	44	0.68	XMQ1024		24	52	0.68
12x6	XMO126	320	6	26	0.75	XMQ126	320	6	34	0.75
12x12	XMO1212	420	12	37	0.75	XMQ1212	420	12	45	0.75
12x18	XMO1218	520	18	48	0.75	XMQ1218	520	18	56	0.75
12x24	XMO1224	600	24	54	0.75	XMQ1224		24	62	0.75
14 x 6	XMO146	380	6	27	0.66	XMQ146	365	6	35	0.66
14 x 12	XMO1412	480	12	38	0.66	XMQ1412	465	12	46	0.66
14 x 18	XMO1418	585	18	49	0.66	XMQ1418	570	18	57	0.66
14 x 24	XMO1424		24	55	0.66	XMQ1424		24	63	0.66
16 x 6	XMO166	460	6	27	0.70	XMQ166	440	6	35	0.70
16 x 12	XMO1612	600	12	40	0.70	XMQ1612	690	12	48	0.70
16 x 18	XMO1618	710	18	50	0.70	XMQ1618	690	18	58	0.70
16 x 24	XMO1624		24	56	0.70	XMQ1624		24	64	0.70
18 x 6	XMO186		6	28	0.75	XMQ186		6	36	0.75
18 x 12	XMO1812		12	40	0.75	XMQ1812		12	48	0.75
18 x 18	XMO1818		18	51	0.75	XMQ1818		18	59	0.75
18 x 24	XMO1824		24	57	0.75	XMQ1824		24	65	0.75
20 x 6	XMO206		6	28	0.80	XMQ206		6	36	0.80
20x12	XMO2012	725	12	40	0.80	XMQ2012		12	48	0.80
20x18	XMO2018	1050	18	52	0.80	XMQ2018		18	60	0.80
20x24	XMO2024	1245	24	58	0.80	XMQ2024		24	66	0.80
24 x 6	XMO246		6	28	0.89	XMQ246		6	36	0.89
24 x 12	XMO2412		12	40	0.89	XMQ2412		12	48	0.89
24 x 18	XMO2418		18	52	0.89	XMQ2418		18	60	0.89
24 x 24	XMO2424		24	58	0.89	XMQ2424		24	66	0.89



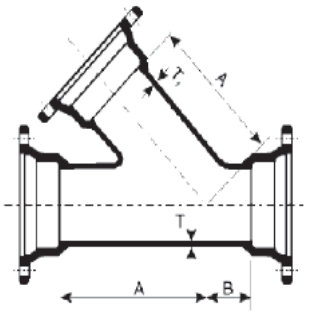
MJ x MJ



MJ x PE

LATERAL WYES DUCTILE IRON

Size		Item No.	Wt.	A	B	C	T	T1
Run	Br							
3	3	XMY33	60	10.00	3.00	10.00	0.48	0.48
4	3	XMY43	85	12.00	3.00	12.00	0.52	0.48
4	4	XMY44	95	12.00	3.00	12.00	0.52	0.52
6	3	XMY63	125	14.50	3.50	14.50	0.55	0.48
6	4	XMY64	135	14.50	3.50	14.50	0.55	0.52
6	6	XMY66	150	14.50	3.50	14.50	0.55	0.55
8	4	XMY84	190	17.50	4.50	17.50	0.60	0.52
8	6	XMY86	205	17.50	4.50	17.50	0.60	0.55
8	8	XMY88	225	17.50	4.50	17.50	0.60	0.60
10	4	XMY104	270	20.50	5.00	20.50	0.68	0.52
10	6	XMY106	285	20.50	5.00	20.50	0.68	0.55
10	8	XMY108	305	20.50	5.00	20.50	0.68	0.60
10	10	XMY1010	375	20.50	5.00	20.50	0.68	0.68
12	4	XMY124	380	24.50	5.50	24.50	0.75	0.52
12	6	XMY126	390	24.50	5.50	24.50	0.75	0.55
12	8	XMY128	415	24.50	5.50	24.50	0.75	0.60
12	10	XMY210	500	24.50	5.50	24.50	0.75	0.68
12	12	XMY1212	535	24.50	5.50	24.50	0.75	0.75
14	4	XMY144	540	27.00	6.00	27.00	0.66	0.52
14	6	XMY146	565	27.00	6.00	27.00	0.66	0.55
14	8	XMY148	595	27.00	6.00	27.00	0.66	0.60
14	10	XMY1410	630	27.00	6.00	27.00	0.66	0.68
14	12	XMY1412	690	27.00	6.00	27.00	0.66	0.75
14	14	XMY1414	700	27.00	6.00	27.00	0.66	0.66
16	4	XMY164	720	30.00	6.50	30.00	0.70	0.52
16	6	XMY166	755	30.00	6.50	30.00	0.70	0.55
16	8	XMY168	790	30.00	6.50	30.00	0.70	0.60
16	10	XMY1610	850	30.00	6.50	30.00	0.70	0.68
16	12	XMY1612	905	30.00	6.50	30.00	0.70	0.75
16	14	XMY1614	865	30.00	6.50	30.00	0.70	0.66
16	16	XMY1616	890	30.00	6.50	30.00	0.70	0.70
18	4	XMY184	925	25.00	1.00	27.50	0.75	0.52
18	6	XMY186	960	25.00	1.00	27.50	0.75	0.55
18	8	XMY188	1,015	25.00	1.00	27.50	0.75	0.60
18	10	XMY1810	1,070	32.00	7.00	32.00	0.75	0.68
18	12	XMY1812	1,130	32.00	7.00	32.00	0.75	0.75
18	14	XMY1814	1,115	32.00	7.00	32.00	0.75	0.66
18	16	XMY1816	1,150	32.00	7.00	32.00	0.75	0.70
18	18	XMY1818	1,190	32.00	7.00	32.00	0.75	0.75
20	4	XMY204	1,250	27.00	0.00	29.50	0.80	0.52
20	6	XMY206	1,300	27.00	0.00	29.50	0.80	0.55
20	8	XMY208	1,365	27.00	0.00	29.50	0.80	0.60
20	10	XMY2010	1435	27.00	1.00	29.50	0.80	0.68
20	12	XMY2012	540	35.00	8.00	35.00	0.80	0.75
20	14	XMY2014	565	35.00	8.00	35.00	0.80	0.66
20	16	XMY2016	595	35.00	8.00	35.00	0.80	0.70
20	18	XMY2018	630	35.00	8.00	35.00	0.80	0.75
20	20	XMY2020	690	35.00	8.00	35.00	0.80	0.80
24	6	XMY246	953	31.50	0.50	31.50	0.89	0.55
24	8	XMY248	1,625	31.50	0.00	34.50	0.89	0.60
24	10	XMY2410	1660	31.50	0.50	34.50	0.89	0.68
24	12	XMY2412	1700	31.50	0.50	34.50	0.89	0.75
24	14	XMY2414	1,760	40.50	9.00	40.50	0.89	0.66
24	16	XMY2416	1,815	40.50	9.00	40.50	0.89	0.70
24	18	XMY2418	1,880	40.50	9.00	40.50	0.89	0.75
24	20	XMY2420	1,950	40.50	9.00	40.50	0.89	0.80
24	24	XMY2424	2,115	40.50	9.00	40.50	0.89	0.89
30	8	XMY308		49.00	10.00	49.00	1.03	0.60
30	12	XMY3012	2,850	49.00	10.00	49.00	1.03	0.75
30	14	XMY3014	2,915	49.00	10.00	49.00	1.03	0.66
30	16	XMY3016	2,975	49.00	10.00	49.00	1.03	0.70
30	18	XMY3018	3,040	49.00	10.00	49.00	1.03	0.75
30	20	XMY3020	3,115	49.00	10.00	49.00	1.03	0.80
30	24	XMY3024	3,280	49.00	10.00	49.00	1.03	0.89
30	30	XMY3030	3,670	52.50	18.25	52.50	1.03	1.03
36	12	XMY3612	4895	54.00	15.25	54.00	1.15	0.75
36	14	XMY3614	4970	54.00	15.25	54.00	1.15	0.66
36	16	XMY3616	5040	54.00	15.25	54.00	1.15	0.70
36	18	XMY3618	5120	54.00	15.25	54.00	1.15	0.75
36	20	XMY3620	5205	54.00	15.25	54.00	1.15	0.80
36	24	XMY3624	5390	54.00	15.25	54.00	1.15	0.89
36	30	XMY3630	5805	56.00	15.25	56.00	1.15	1.03
36	36	XMY3636	6335	60.00	19.50	60.00	1.15	1.15
42	12	XMY4212		52.00	0.00	52.00	1.78	0.75
42	20	XMY4220		60.00	12.00	60.00	1.28	0.80
42	24	XMY4224		60.00	12.00	60.00	1.28	0.89
42	30	XMY4230		63.00	12.00	63.00	1.28	1.03
42	36	XMY4236		66.00	12.00	66.00	1.28	1.15
42	42	XMY4242		71.00	15.00	71.00	1.28	1.28
48	6	XMY486		52.00	0.00	66.00	1.42	0.55
48	8	XMY488		52.00	0.00	60.00	1.42	0.60
48	12	XMY4812		52.00	0.00	66.00	1.42	0.75
48	16	XMY4816		52.00	0.00	66.00	1.42	0.70
48	20	XMY4820		52.00	0.00	66.00	1.42	0.80
48	24	XMY4824		58.00	5.00	64.00	1.42	0.89
48	30	XMY4830		59.00	4.00	64.00	1.42	1.03
48	36	XMY4836		64.00	5.00	68.00	1.42	1.15
48	42	XMY4842		77.00	12.00	77.00	1.42	1.28
48	48	XMY4848		77.00	16.00	77.00	1.42	1.42



Lateral Wyes

42" and 48" lateral wyes are available on special order.

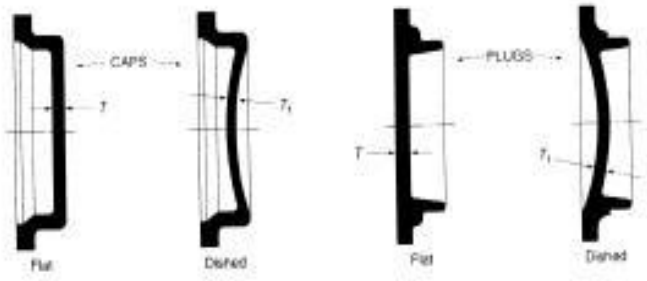
Contact for details.

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

CAPS AND PLUGS DUCTILE IRON

Size	CAPS					PLUGS				
	Solid	Tapped	T	T1	Wt.	Solid	Tapped	T	T1	Wt.
2						XMP2		0.48		
3	XMK3	XTK3	0.50	0.48	12	XMP3	XTP3	0.50	0.48	10
4	XMK4	XTK4	0.60	0.52	15	XMP4	XTP4	0.60	0.52	15
6	XMK6	XTK6	0.56	0.55	25	XMP6	XTP6	0.65	0.55	25
8	XMK8	XTK8	0.70	0.60	45	XMP8	XTP8	0.70	0.60	45
10	XMK10	XTK10	0.75	0.68	60	XMP10	XTP10	0.75	0.68	65
12	XMK12	XTK12	0.75	0.75	80	XMP12	XTP12	0.75	0.75	90
14	XMK14	XTK14	0.32	0.66	110	XMP14	XTP14	0.32	0.66	115
16	XMK16	XTK16	0.89	0.70	150	XMP16	XTP16	0.59	0.70	145
18	XMK18	XTK18	0.96	0.75	185	XMP18	XTP18	0.96	0.75	180
20	XMK20	XTK20	1.03	0.80	200	XMP20	XTP20	1.03	0.80	200
24	XMK24	XTK24	1.16	0.89	300	XMP24	XTP24	1.16	0.89	390
30	XMK30	XTK30		1.03	590	XMP30	XTP30		1.03	573
36	XMK36	XTK36		1.15	850	XMP36	XTP36		1.15	815
42	XMK42	XTK42		1.28	1,180	XMP42	XTP42		1.28	1,110
48	XMK48	XTK48		1.42	1,595	XMP48	XTP48		1.42	1,455

Size	PLUGS			
	Solid	T	T1	Wt.
3	XMMP3	0.50	0.48	10
4	XMMP4	0.60	0.52	16
6	XMMP6	0.65	0.55	26
8	XMMP8	0.70	0.60	47
10	XMMP10	0.75	0.68	65
12	XMMP12	0.75	0.75	88
14	XMMP14	0.32	0.66	
16	XMMP16	0.59	0.70	145
18	XMMP18	0.96	0.75	185
20	XMMP20	1.03	0.80	225
24	XMMP24	1.16	0.89	335



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

LISTED

APPROVED

AWWA MEMBER

C110 Mechanical Joint Fittings – Non-Standard Items

Item #	Description
•**XMB106**	C110 DI 10" X 6" MJ X MJ REDUCING BEND
•**XMB211**	C110 DI 2" MJ x MJ 11-1/4 DEGREE BEND
•**XMB222**	C110 DI 2" MJ x MJ 22-1/2 DEGREE BEND
•**XMB245**	C110 DI 2" MJ x MJ 45 DEGREE BEND
•**XMB290**	C110 DI 2" MJ x MJ 90 DEGREE BEND
•**XMB4205**	C110 DI 42" X 42" MJ X MJ 5-5/8 DEGREE BEND
•**XMB4805**	C110 DI 48" X 48" MJ X MJ 5-5/8 DEGREE BEND
•**XMB84**	C110 DI 8" X 4" MJ X MJ REDUCING BEND
•**XMC164**	C110 DI 16" X 4" MJ X MJ CROSS
•**XMC22**	C110 DI 2" X 2" MJ X MJ CROSS
•**XMC32**	C110 DI 3" X 2" MJ X MJ CROSS
•**XMC83**	C110 DI 8" X 3" MJ X MJ CROSS
•**XMH366**	C110 DI 36" X 6" MJ X SWL TEE
•**XMS2**	C110 DI 2" X 2" MJ X MJ SHORT SLEEVE
•**XMT103**	C110 DI 10" X 3" MJ X MJ TEE
•**XMT123**	C110 DI 12" X 3" MJ X MJ TEE
•**XMT32**	C110 DI 3" X 2" MJ X MJ TEE
•**XMT343**	C110 DI 3" X 4" X 3" MJ X MJ X MJ TEE
•**XMT42**	C110 DI 4" X 2" MJ X MJ TEE
•**XMT426**	C110 DI 42" X 6" MJ X MJ TEE
•**XMT446**	C110 DI 4" X 4" X 6" MJ X MJ X MJ TEE MC: W/ 6" SI
•**XMT83**	C110 DI 8" X 3" MJ X MJ TEE
•**XMY83**	C110 DI 8" X 3" MJ X MJ WYE

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

SIGMA WATERWORKS

LOCATIONS

Northeast Region
Cream Ridge, New Jersey (HQ)
700 Goldman Drive
Cream Ridge, NJ 08514
Phone (800) 999-2550
crmcsr@sigmawaterworks.com

Midwest Region
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21699 Torrence Avenue
Sauk Village, IL 60411
Phone (888) 999-0420
chicsr@sigmawaterworks.com

Denver, Colorado
22700 I-76 Frontage Rd
Brighton, CO 80603
Phone (888) 999-0420
dbrugger@sigmawaterworks.com

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1500 Highway 22 W
Alexander City, AL 35010
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ontcsr@sigmawaterworks.com

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Sturgeon County, Alberta T8T 0H3
Phone (780) 458-9676
pbrunelle@sigmawaterworks.com

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51 Rue Gingras
Warwick, QC J0A 1M0
Phone (888) 744-6262
jboucher@repco.ca

Concord Supply
2353 Bowman Street
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LINE CARD

AWWA Ductile Iron Fittings



- 2-64” C153 Ductile Iron Mechanical Joint Fittings
- 2-48” C110 Ductile Iron Mechanical Joint Fittings
- 2-64” C110 Ductile Iron Flanged Fittings
- 3-24” C153 Ductile Iron Push-On Fittings
- 4-24” C110 Ductile Iron Push-On Fittings
- 3-36” Ductile Iron Mechanical Joint Connector
- C116 Fusion Bonded Epoxy Lining Available
- PROTECTO 401® Ceramic Epoxy Lining Available

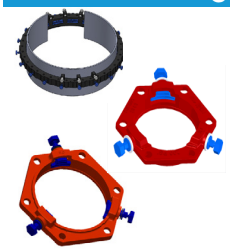
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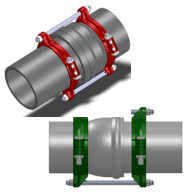
ONE-LOK™ Wedge Action Restraints



- 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
- 4-36” ONE-LOK SSLDH™ Split Wedge Harness Restraint for Installed Ductile Iron Pipe
- 4-12” ONE-LOK SLCEH™ Wedge Harness Restraint for AWWA C900 PVC Pipe

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PV-LOK™ Serration Lock Restraints



- 4-48” PV-LOK™ PWM Serrated Restraint for Ductile Iron Fitting & AWWA C900/905 PVC Pipe
- 4-48” PV-LOK™ PWP Serrated Bell Joint Restraint for AWWA C900/905 PVC Pipe
- 4-12” PV-LOK™ D-PWP Domestic Serrated Bell Joint Restraint for AWWA C900 PVC Pipe
- 4-12” PV-LOK™ PWPF Restraint for AWWA C900/905 PVC Pipe & PVC Fitting
- 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
- 4-12” PV-LOK™ PWP Serrated Bell Joint Restraint for Ductile Iron Pipe

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Fabricator Products



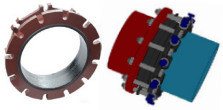
- 3-64” High Hub Threaded Flanges
- 3-48” Tapped High Hub Threaded Flanges
- 3-36” Extra Heavy 250lb Drilled Threaded Flanges
- 3-48” Threaded MJ Bell Adapters
- 3-48” MJ x PE Bell adapter
- 3-48” Anchor Flanges
- 3-16” Filler Flanges

Field Essentials



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

Flange Adapters



- 3-36” SIGMAFLANGE Flange Adapter Sleeve for PVC and Ductile Iron Pipe
- 2-12” ZIP FLANGE Set Screw Style Flange Adapter
- 3-36” SIGMAFLANGE Universal Joint for Flanged Fittings, Flanged Pipes & Valves

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