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Mechanical Joint Fittings & Accessories

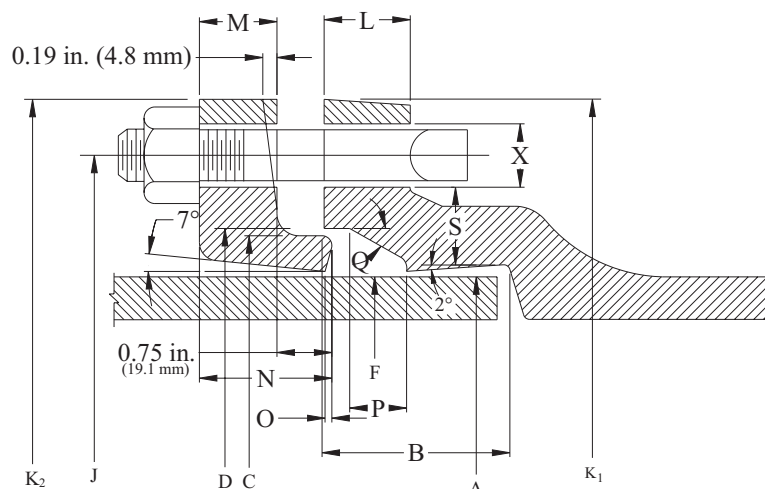
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3" - 48" DUCTILE IRON MECHANICAL JOINT COMPACT FITTINGS

GENERAL SPECIFICATIONS

MATERIAL :	Ductile Iron per ASTM A536.
PRESSURE :	350 psi Rating for 3"- 24" sizes and 250 psi Rating for 30"- 48".
TESTING :	In accordance with ANSI/AWWA C153/A21.53 and UL Requirement.
LAYING LENGTH :	In accordance with ANSI/AWWA C153/A21.53. Fittings not listed in ANSI/AWWA have dimensions per SIP design as noted in Catalog.
WEIGHTS :	Do not include Accessories, Cement Lining and Coatings.
FLANGES :	Flanged ends on Fittings match ANSI/AWWA C115/A21.15 and ANSI B16.1 CLASS 125 Flanges.
CEMENT LINING :	In accordance with ANSI/AWWA C104/A21.4.
COATING :	Asphaltic Seal Coat inside and out in accordance with ANSI/AWWA C104/A21.4
GASKETS :	SBR in accordance with ANSI/AWWA C111/A21.11.
T-BOLTS/NUTS :	Low Alloy Steel in accordance with ANSI/AWWA C111/A21.11.
APPROVALS :	3" - 24" Underwriters Laboratories Listed and UL/NSF 61.

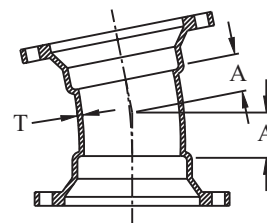
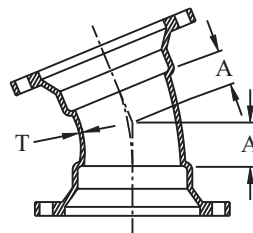
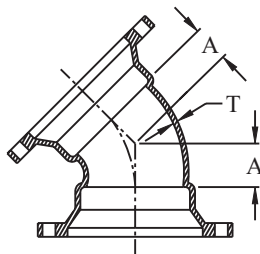
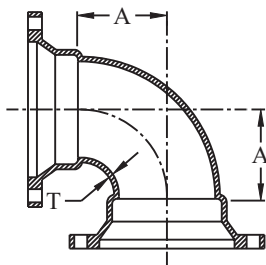


MECHANICAL JOINT DIMENSIONS

SIZE	A	B	C	D	F	J	K ₂	K ₁	L	X	BOLTS		
											No	Size	Length
3	3.96	2.50	4.84	4.94	4.06	6.19	7.69	7.62	0.58	3/4	4	5/8	3
4	4.80	2.50	5.92	6.02	4.90	7.50	9.12	9.06	0.60	7/8	4	3/4	3 1/2
6	6.90	2.50	8.02	8.12	7.00	9.50	11.12	11.06	0.63	7/8	6	3/4	3 1/2
8	9.05	2.50	10.17	10.27	9.15	11.75	13.37	13.31	0.66	7/8	6	3/4	3 1/2
10	11.10	2.50	12.22	12.34	11.20	14.00	15.62	15.62	0.70	7/8	8	3/4	4
12	13.20	2.50	14.32	14.44	13.30	16.25	17.88	17.88	0.73	7/8	8	3/4	4
14	15.30	3.50	16.40	16.54	15.44	18.75	20.25	20.25	0.79	7/8	10	3/4	4 1/2
16	17.40	3.50	18.50	18.64	17.54	21.00	22.50	22.50	0.85	7/8	12	3/4	4 1/2
18	19.50	3.50	20.60	20.74	19.64	23.25	24.83	24.75	1.00	7/8	12	3/4	4 1/2
20	21.60	3.50	22.70	22.84	21.74	25.50	27.08	27.00	1.02	7/8	14	3/4	4 1/2
24	25.80	3.50	26.90	27.04	25.94	30.00	31.58	31.50	1.02	7/8	16	3/4	5
30	32.00	4.00	33.29	33.46	32.17	36.88	39.12	39.12	1.31	1 1/8	20	1	6
36	38.30	4.00	39.59	39.76	38.47	43.75	46.00	46.00	1.45	1 1/8	24	1	6
42	44.50	4.00	45.79	45.96	44.67	50.62	53.12	53.12	1.45	1 3/8	28	1 1/4	6 1/2
48	50.80	4.00	52.09	52.26	50.97	57.50	60.00	60.00	1.45	1 3/8	32	1 1/4	6 1/2

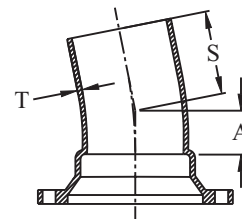
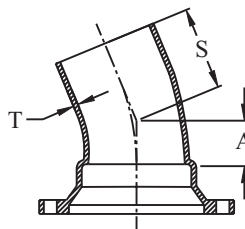
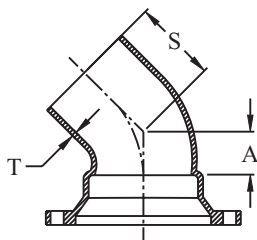
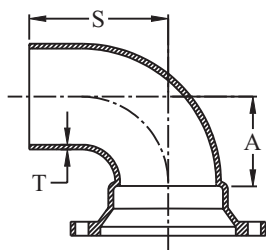
All Dimensions in Inches.

Weights shown are approximate in lbs.



MJ X MJ BENDS

SIZE	T	MJ 90° BEND		MJ 45° BEND		MJ 22.5° BEND		MJ 11.25° BEND	
		A	WT	A	WT	A	WT	A	WT
3	0.33	3.50	23	1.50	21	1.00	16	1.00	14
4	0.34	4.00	27	2.00	23	1.50	18	1.25	16
6	0.36	5.00	39	3.00	32	2.00	32	1.50	30
8	0.38	6.50	57	3.50	46	2.50	46	1.75	42
10	0.40	7.50	89	4.50	70	3.00	64	2.00	58
12	0.42	9.00	108	5.50	86	3.50	84	2.25	74
14	0.47	11.50	210	5.00	164	3.75	148	2.50	130
16	0.50	12.50	264	5.50	202	3.75	178	2.50	158
18	0.54	14.00	335	6.00	250	4.50	255	3.00	205
20	0.57	15.00	400	7.00	305	4.50	310	3.00	245
24	0.61	18.75	565	7.50	405	4.50	412	3.00	315
*30	0.66	21.50	1005	10.50	798	6.75	665	4.75	606
*36	0.74	24.50	1562	11.50	1164	7.75	960	5.00	840
*42	0.82	29.25	2506	14.00	1792	9.00	1350	6.00	1319
*48	0.90	33.25	3045	15.00	2390	10.00	1886	6.50	1700

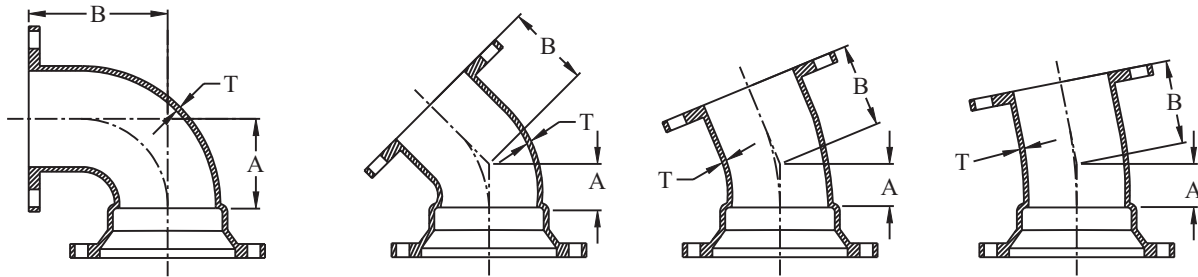


MJ X PE BENDS

SIZE	T	90° PLAIN END BEND			45° PLAIN END BEND			22.5° PLAIN END BEND			11.25° PLAIN END BEND		
		A	S	Wt	A	S	Wt	A	S	Wt	A	S	Wt
3	0.33	3.25	8.50	16	1.50	7.00	13	1.00	6.50	12	1.00	6.50	12
4	0.34	4.00	9.50	22	2.00	7.50	19	1.50	7.00	18	1.25	6.25	17
6	0.36	5.00	11.50	41	3.00	8.50	34	2.00	7.50	29	1.50	7.00	27
8	0.38	6.50	12.50	61	3.50	9.00	49	2.50	8.00	43	1.75	7.25	39
10	0.40	7.50	13.00	83	4.50	10.00	72	3.00	8.50	61	2.00	7.50	52
12	0.42	9.00	14.50	114	5.50	11.00	98	3.50	9.00	81	2.25	7.75	70
14	0.47	11.50	19.50	197	5.00	13.00	148	3.75	11.25	133	2.50	10.50	122
16	0.50	12.50	20.50	248	5.50	13.50	184	3.75	11.75	166	2.50	10.50	148
18	0.54	14.00	21.00	325	6.00	13.00	235	6.00	13.00	235	6.00	13.00	235
20	0.57	15.00	22.50	390	7.00	14.00	290	7.00	14.00	300	7.00	14.00	300
24	0.61	17.00	25.00	575	7.50	14.50	390	7.50	14.50	395	7.50	14.50	400
*30	0.66	22.50	30.50	865	10.50	19.50	715	6.75	15.75	600	4.75	13.75	535

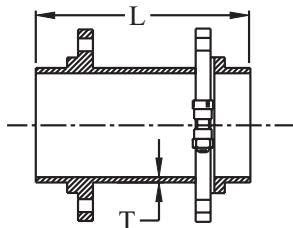
All Dimensions in Inches.
Weights shown are approximate in lbs.

* Not included in AWWA C153.



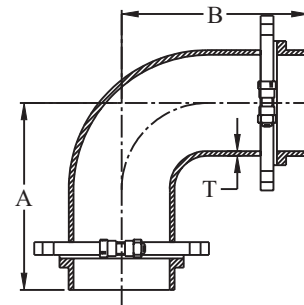
MJ X FLANGE BENDS*

SIZE	T	90° MJ-FLANGE BEND			45° MJ-FLANGE BEND			22.5° MJ-FLANGE BEND			22.5° MJ-FLANGE BEND		
		A	B	WT	A	B	WT	A	B	WT	A	B	WT
3	0.33	3.50	5.50	20	1.50	3.00	17	1.00	3.00	18	1.00	3.00	16
4	0.34	4.00	6.50	26	2.00	4.00	24	1.50	4.00	27	1.25	4.00	20
6	0.36	5.00	8.00	47	3.50	5.00	39	2.00	5.00	36	1.50	5.00	30
8	0.38	6.50	9.00	68	3.50	5.50	57	2.50	5.50	53	1.75	5.50	50
10	0.40	7.50	11.00	102	4.50	6.50	83	3.00	6.50	100	2.00	6.50	75
12	0.42	9.00	12.00	134	5.50	7.50	111	3.50	7.50	145	2.25	7.50	88
14	0.47	11.50	14.00	227	5.00	7.50	208	---	---	---	---	---	---
16	0.50	12.50	15.00	306	5.50	8.00	240	---	---	---	---	---	---



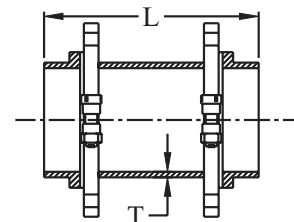
**SWIVEL X SOLID HYDRANT ADAPTERS
WITH SWIVEL GLAND***

SIZE	T	L	WEIGHT
6 X 13	0.36	13	47
6 X 18	0.36	18	56
6 X 24	0.36	24	60
6 X 30	0.36	30	64
6 X 36	0.36	36	75
6 X 48	0.36	48	94
8 X 13	0.38	13	54
8 X 18	0.38	18	67
8 X 24	0.38	24	82
8 X 48	0.38	48	143
12X 13	0.42	13	87



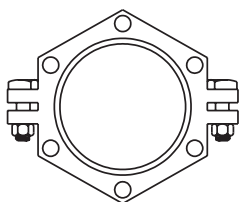
**SWIVEL X SWIVEL HYDRANT ELL
WITH TWO-SWIVEL GLANDS***

SIZE	T	A	B	WEIGHT
6	0.36	10.50	16.00	50



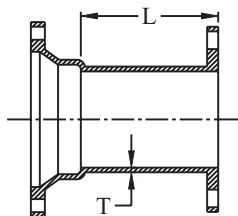
**SWIVEL X SWIVEL HYDRANT ADAPTERS
WITH TWO-SWIVEL GLANDS***

SIZE	T	L	WEIGHT
6 X 13	0.36	13	30
6 X 18	0.36	18	49
6 X 24	0.36	24	52



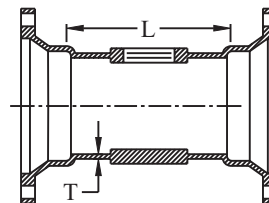
SWIVEL GLANDS*

SIZE	Wt.
4	8
6	10
8	12
10	16
12	24



MJ X FLANGE ADAPTERS*

SIZE	L	T	WEIGHT
3	3.50	0.33	14
4	3.50	0.34	23
6	3.50	0.36	32
8	3.50	0.38	46
10	3.50	0.40	63
12	3.50	0.42	100
14	5.00	0.47	143
16	5.00	0.50	170
18	5.00	0.54	221
20	5.00	0.57	252
24	5.00	0.61	324
30	7.00	0.66	557
36	8.50	0.74	798
42	12.00	0.82	1214



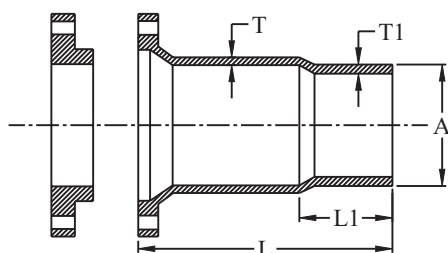
MJ X MJ TAPPED TEES (2" TAP)*

SIZE	T	L	TAP SIZE	Wt.
3	0.33	6.00	2	18
4	0.34	6.00	2	25
6	0.36	6.00	2	36
8	0.38	6.00	2	56
10	0.40	6.00	2	70
12	0.42	6.00	2	86
16	0.50	6.00	2	164



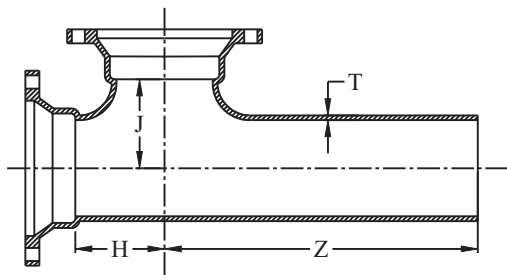
STANDARD GLAND

SIZE	Wt.
2	2
3	4
4	5
6	6
8	7
10	10
12	15
14	23
16	28
18	30
20	43
24	50
*30	85
*36	115
*42	192
*48	221



**MJ X PE CUTTING IN SLEEVE
WITH OVER SIZE GLAND***

SIZE	T	T1	A	L	L1	Wt.
4	0.36	0.34	4.80	20.00	9.00	50
6	0.38	0.36	6.90	20.00	9.00	62
8	0.40	0.38	9.05	20.00	9.00	90
10	0.42	0.40	11.10	20.00	9.00	105
12	0.47	0.42	13.20	20.00	9.00	128
16	0.54	0.50	17.40	20.00	9.00	275

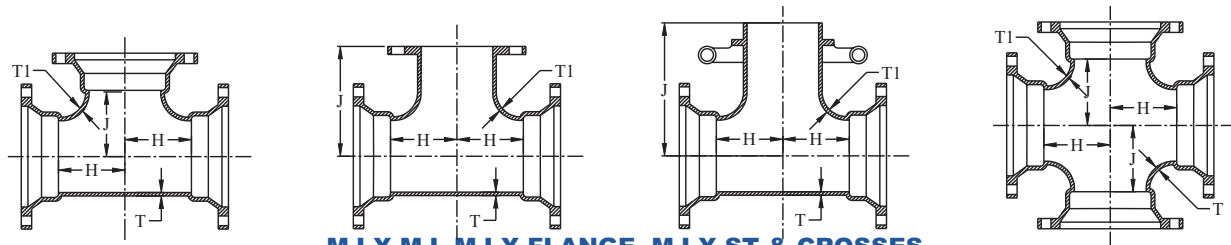


MJ X PE X MJ TEES*

SIZE	T	H	J	Z	Wt.
6	0.36	5.00	5.00	12.00	57
8	0.38	6.50	6.50	12.50	77

All Dimensions in Inches.
Weights shown are approximate in lbs.

* Not included in AWWA C153.



MJ X MJ, MJ X FLANGE, MJ X ST & CROSSES

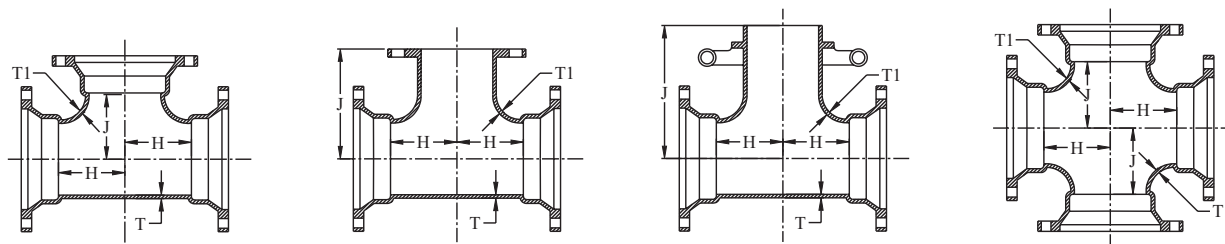
Size	T	T1	MJ X MJ			MJ X FE*			MJ X ST*			CROSS		
			H	J	Wt.	H	J	Wt.	H	J	Wt.	H	J	Wt.
2 X 2	0.30	0.30	3.00	3.00	16	---	---	---	---	---	---	---	---	---
3 X 3	0.33	0.33	3.00	3.00	28	3.00	5.50	30	---	---	---	3.00	3.00	40
4 X 2	0.34	0.30	3.00	4.00	29	---	---	---	---	---	---	---	---	---
4 X 3	0.34	0.33	3.50	4.00	35	3.50	6.50	34	---	---	---	*3.50	4.00	49
4 X 4	0.34	0.34	4.00	4.00	32	4.00	6.50	40	---	---	---	4.00	4.00	42
6 X 3	0.36	0.33	3.50	5.00	42	3.50	8.00	51	---	---	---	3.50	5.00	60
6 X 4	0.36	0.34	4.00	5.00	46	4.00	8.00	65	---	---	---	*4.00	5.00	68
*6 X 4 X 6	0.36	0.36	*5.00	5.00	60	---	---	---	---	---	---	---	---	---
6 X 6	0.36	0.36	5.00	5.00	56	5.00	8.00	62	5.00	10.25	66	5.00	5.00	80
*6 X 6 X 8	0.36	0.38	*6.50	6.50	75	---	---	---	---	---	---	---	---	---
*8 X 3	0.38	0.33	*4.00	6.50	52	---	---	---	---	---	---	---	---	---
8 X 4	0.38	0.34	4.00	6.50	60	4.50	9.00	79	---	---	---	*4.00	6.00	100
*8 X 6	0.38	0.36	5.00	6.50	72	5.50	9.00	80	5.00	11.25	86	*5.00	6.00	105
*8 X 6 X 6	0.38	0.38	*5.00	6.50	75	---	---	---	---	---	---	---	---	---
*8 X 6 X 8	0.38	0.38	*6.00	6.50	85	---	---	---	---	---	---	---	---	---
8 X 8	0.38	0.38	6.50	6.50	86	6.50	9.00	90	6.50	11.50	105	6.00	6.00	110
*10X 3	0.40	0.33	*4.00	7.50	75	---	---	---	---	---	---	3.00	7.00	115
10X 4	0.40	0.34	4.00	7.50	78	4.00	11.00	90	---	---	---	*4.00	7.00	120
10X 6	0.40	0.36	5.00	7.50	90	5.00	11.00	110	5.00	12.75	110	*5.00	7.00	125
10X 8	0.40	0.38	6.50	7.50	105	6.50	11.00	115	6.50	12.75	120	*6.50	7.00	130
10X10	0.40	0.40	7.50	7.50	120	7.50	11.00	130	---	---	---	7.00	7.00	145
*12X 3	0.42	0.33	*4.00	8.75	90	---	---	---	---	---	---	---	---	---
12X 4	0.42	0.34	4.00	8.75	94	4.50	12.00	118	---	---	---	*4.00	8.50	123
12X 6	0.42	0.36	5.00	8.75	110	5.50	12.00	133	5.00	13.75	128	*5.00	8.50	140
12X 8	0.42	0.38	6.50	8.75	125	6.50	12.00	135	6.50	13.75	130	*6.00	8.50	157
12X10	0.42	0.40	7.50	8.75	140	7.50	12.00	150	---	---	---	*7.50	8.50	189
12X12	0.42	0.42	8.75	8.75	160	8.75	12.00	170	---	---	---	8.50	8.50	215
14X 6	0.47	0.36	6.50	10.50	182	6.50	14.00	185	6.50	15.00	211	*6.50	10.50	210
14X 8	0.47	0.38	7.50	10.50	206	---	---	---	---	---	---	*7.50	10.50	231
14X10	0.47	0.40	8.50	10.50	228	8.50	14.00	244	---	---	---	*8.50	10.50	255
14X12	0.47	0.42	9.50	10.50	234	9.50	14.00	284	---	---	---	*9.50	10.50	270
14X14	0.47	0.47	10.50	10.50	280	10.50	14.00	305	---	---	---	10.50	10.50	336
16X 6	0.50	0.36	6.50	11.50	228	6.50	15.00	210	6.50	16.00	280	*6.50	11.50	250
16X 8	0.50	0.38	7.50	11.50	248	7.50	15.00	260	---	---	---	*7.50	11.50	264
16X10	0.50	0.40	8.50	11.50	264	8.50	15.00	287	---	---	---	*8.50	11.50	286
16X12	0.50	0.42	9.50	11.50	280	9.50	15.00	312	---	---	---	*9.50	11.50	310
16X14	0.50	0.47	10.50	11.50	316	10.50	15.00	348	---	---	---	---	---	---
16X16	0.50	0.50	11.50	11.50	322	11.50	15.00	374	---	---	---	11.50	11.50	390
18X 6	0.54	0.36	6.50	12.50	287	6.50	15.50	325	6.50	18.00	280	---	---	---
18X 8	0.54	0.38	7.50	12.50	295	7.50	15.50	352	---	---	---	---	---	---
18X10	0.54	0.40	8.50	12.50	325	---	---	---	---	---	---	---	---	---
18X12	0.54	0.42	9.50	12.50	340	9.50	15.50	360	---	---	---	*9.50	12.50	437
18X14	0.54	0.47	10.50	12.50	380	---	---	---	---	---	---	---	---	---
18X16	0.54	0.50	11.50	12.50	425	---	---	---	---	---	---	---	---	---
18X18	0.54	0.54	12.50	12.50	450	---	---	---	---	---	---	12.50	12.50	657
20X 6	0.57	0.36	6.50	14.00	320	6.50	17.00	406	6.50	18.50	360	---	---	---
20X 8	0.57	0.38	8.00	14.00	366	8.00	17.00	339	---	---	---	*8.00	14.00	440
20X10	0.57	0.40	9.00	14.00	370	---	---	---	---	---	---	---	---	---
20X12	0.57	0.42	10.00	14.00	395	---	---	---	---	---	---	*10.00	14.00	558
20X14	0.57	0.47	11.00	14.00	475	---	---	---	---	---	---	---	---	---
20X16	0.57	0.50	12.00	14.00	505	---	---	---	---	---	---	---	---	---

Contd.....

All Dimensions in Inches.

Weights shown are approximate in lbs.

* Not included in AWWA C153.

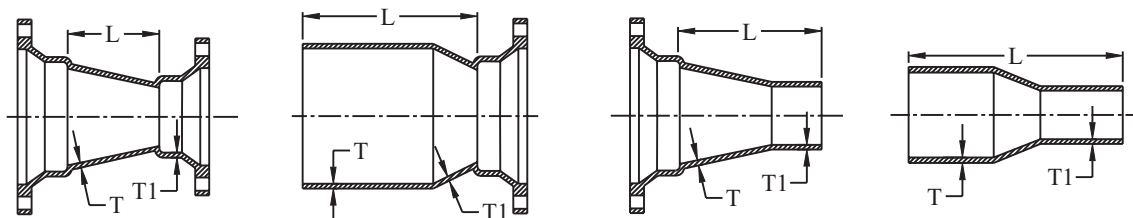


MJ X MJ, MJ X FLANGE, MJ X ST & CROSSES

Size	T	T1	MJ X MJ			MJ X FE*			MJ X ST*			CROSS		
			H	J	Wt.	H	J	Wt.	H	J	Wt.	H	J	Wt.
20X18	0.57	0.54	13.00	14.00	505	---	---	---	---	---	---	13.00	14.00	698
20X20	0.57	0.57	14.00	14.00	550	---	---	---	---	---	---	*14.00	14.00	798
24X 6	0.61	0.36	7.00	16.00	415	7.00	19.00	408	7.00	19.00	465	---	---	---
24X 8	0.61	0.38	8.00	16.00	445	8.50	19.00	418	---	---	---	*8.00	16.00	500
24X10	0.61	0.40	9.00	16.00	470	---	---	---	---	---	---	---	---	---
24X12	0.61	0.42	10.00	16.00	500	10.00	19.00	580	---	---	---	10.00	16.00	620
24X14	0.61	0.47	11.00	16.00	550	---	---	---	---	---	---	---	---	---
24X16	0.61	0.50	12.00	16.00	580	12.00	19.00	745	---	---	---	*12.00	16.00	720
24X18	0.61	0.54	13.00	16.00	625	---	---	---	---	---	---	---	---	---
24X20	0.61	0.57	14.00	16.00	660	---	---	---	---	---	---	---	---	---
24X24	0.61	0.61	16.00	16.00	720	---	---	---	---	---	---	16.00	16.00	1038
*30X 6	0.66	0.36	*8.00	20.00	742	8.00	23.00	805	---	---	---	---	---	---
*30X 8	0.66	0.38	8.50	20.00	755	---	---	---	---	---	---	---	---	---
*30X12	0.66	0.42	10.00	20.00	830	---	---	---	---	---	---	---	---	---
*30X16	0.66	0.50	12.50	20.00	959	---	---	---	---	---	---	---	---	---
*30X18	0.66	0.54	*14.00	20.00	1085	---	---	---	---	---	---	---	---	---
*30X24	0.66	0.61	16.00	20.00	1389	---	---	---	---	---	---	*16.00	20.00	1640
*30X30	0.66	0.66	20.00	20.00	1323	---	---	---	---	---	---	22.00	22.00	1840
*36X 6	0.74	0.36	---	---	---	8.00	26.00	1175	---	---	---	---	---	---
*36X 8	0.74	0.38	*9.00	23.50	1050	---	---	---	---	---	---	---	---	---
*36X16	0.74	0.50	*12.50	23.50	1167	---	---	---	---	---	---	---	---	---
*36X24	0.74	0.61	16.00	23.50	1498	---	---	---	---	---	---	---	---	---
*36X30	0.74	0.66	20.00	23.50	2381	---	---	---	---	---	---	---	---	---
*36X36	0.74	0.74	23.50	23.50	2072	---	---	---	---	---	---	26.00	26.00	2655
*42X18	0.82	0.54	*16.00	27.50	2195	---	---	---	---	---	---	---	---	---
*42X24	0.82	0.61	20.00	27.50	2270	---	---	---	---	---	---	---	---	---
*42X30	0.82	0.66	22.00	29.50	2608	---	---	---	---	---	---	---	---	---
*42X36	0.82	0.74	30.00	30.00	3000	---	---	---	---	---	---	---	---	---
*42X42	0.82	0.82	30.00	30.00	3175	---	---	---	---	---	---	30.00	30.00	3725
*48X 6	0.90	0.36	*10.00	32.00	2155	---	---	---	---	---	---	---	---	---
*48X16	0.90	0.50	*13.00	32.00	2650	---	---	---	---	---	---	---	---	---
*48X24	0.90	0.61	23.00	32.00	2870	---	---	---	---	---	---	---	---	---
*48X30	0.90	0.66	23.00	32.00	3050	---	---	---	---	---	---	---	---	---
*48X36	0.90	0.74	33.50	32.25	3900	---	---	---	---	---	---	---	---	---
*48X42	0.90	0.82	33.50	33.50	4100	---	---	---	---	---	---	---	---	---
*48X48	0.90	0.90	33.50	33.50	4250	---	---	---	---	---	---	33.50	33.50	4955

All Dimensions in Inches.
Weights shown are approximate in lbs.

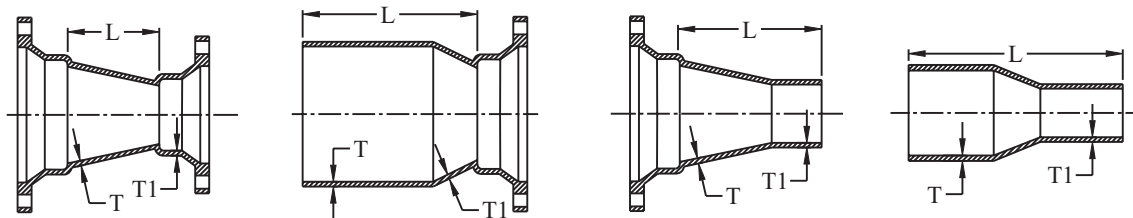
* Not included in AWWA C153.



REDUCERS

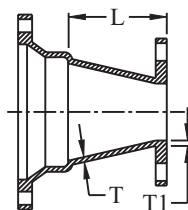
SIZE	T	T ₁	MJ REDUCERS		MJ X LARGE END BELL		MJ X SMALL END BELL		PLAIN END X PLAIN END	
			L	Wt.	L	Wt.	L	Wt.	L	Wt.
4 X 3	0.34	0.33	3.00	18	8.50	18	8.50	18	14.00	16
6 X 3	0.36	0.33	5.00	26	10.50	30	10.50	24	---	---
6 X 4	0.36	0.34	4.00	24	9.50	26	9.50	24	15.00	24
8 X 4	0.38	0.34	5.00	32	10.50	35	10.50	30	16.00	32
8 X 6	0.38	0.36	4.00	36	9.50	33	9.50	35	15.00	34
10X 4	0.40	0.34	7.00	46	12.50	44	12.50	44	18.00	46
10X 6	0.40	0.36	5.00	47	10.50	48	10.50	46	16.00	46
10X 8	0.40	0.38	4.00	50	9.50	50	9.50	49	15.00	49
12X 4	0.42	0.34	9.00	58	14.50	60	14.50	60	20.00	58
12X 6	0.42	0.36	7.00	60	12.50	60	12.50	55	18.00	60
12X 8	0.42	0.38	5.00	60	10.50	62	10.50	62	16.00	59
12X10	0.42	0.40	4.00	64	9.50	64	9.50	54	15.00	66
14X 6	0.47	0.36	9.00	110	---	---	14.50	100	---	---
14X 8	0.47	0.38	7.00	122	---	---	12.40	99	---	---
14X10	0.47	0.40	5.00	120	---	---	10.40	97	---	---
14X12	0.47	0.42	4.00	130	---	---	9.40	90	---	---
16X 6	0.50	0.36	11.00	148	18.90	136	16.50	125	24.30	130
16X 8	0.50	0.38	9.00	155	16.90	155	14.40	126	22.30	130
16X10	0.50	0.40	7.00	160	15.00	145	12.50	123	20.50	129
16X12	0.50	0.42	5.00	162	12.90	140	10.50	122	18.30	120
16X14	0.50	0.47	4.00	170	12.00	134	12.00	132	---	---
18X 8	0.54	0.38	13.00	200	---	---	19.50	170	---	---
18X10	0.54	0.40	10.00	195	---	---	17.40	165	---	---
18X12	0.54	0.42	7.00	180	15.50	170	14.00	155	17.50	150
18X14	0.54	0.47	6.00	200	15.00	190	15.00	175	23.00	160
18X16	0.54	0.50	5.00	195	12.50	185	12.50	170	---	---
20X10	0.57	0.40	14.00	220	22.00	210	19.00	200	27.50	190
20X12	0.57	0.42	12.00	225	11.50	211	16.00	170	21.50	190
20X14	0.57	0.47	10.00	200	18.00	205	17.90	190	26.00	195
20X16	0.57	0.50	7.00	230	13.50	200	13.50	185	19.00	180
20X18	0.57	0.54	4.00	225	12.00	190	12.00	210	20.00	190
24X12	0.61	0.42	16.00	305	24.00	295	21.00	275	22.50	260
24X14	0.61	0.47	14.00	310	---	---	21.90	310	25.00	295
24X16	0.61	0.50	12.00	320	17.50	290	17.50	285	23.00	285
24X18	0.61	0.54	10.00	305	---	---	18.00	280	---	---
24X20	0.61	0.57	7.00	320	13.50	280	13.50	270	14.00	240
*30X16	0.66	0.50	30.00	633	---	---	39.00	565	48.00	690
*30X18	0.66	0.54	28.00	658	---	---	37.00	654	---	---
*30X24	0.66	0.61	10.00	478	---	---	24.50	536	---	---
*36X16	0.74	0.50	40.00	1078	---	---	27.00	700	---	---
*36X18	0.74	0.54	38.00	1329	---	---	37.00	800	---	---
*36X24	0.74	0.61	19.00	822	---	---	33.00	746	---	---
*36X30	0.74	0.66	15.50	650	---	---	24.50	788	---	---

Contd.....



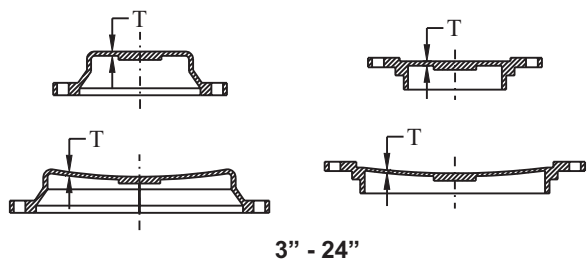
REDUCERS

SIZE	T	T ₁	MJ REDUCERS		MJ X LARGE END BELL		MJ X SMALL END BELL		PLAIN END X PLAIN END	
			L	Wt.	L	Wt.	L	Wt.	L	Wt.
*42X24	0.82	0.61	40.00	1356	---	---	49.00	1204	---	---
*42X30	0.82	0.66	20.00	1083	29.00	1015	29.00	931	---	---
*42X36	0.82	0.74	15.50	1114	24.50	1013	24.50	962	---	---
*48X24	0.90	0.61	40.00	1700	---	---	---	---	---	---
*48X30	0.90	0.66	40.00	1779	---	---	49.00	1594	---	---
*48X36	0.90	0.74	28.00	1641	---	---	37.00	1456	---	---
*48X42	0.90	0.82	15.50	1462	---	---	24.50	1241	---	---

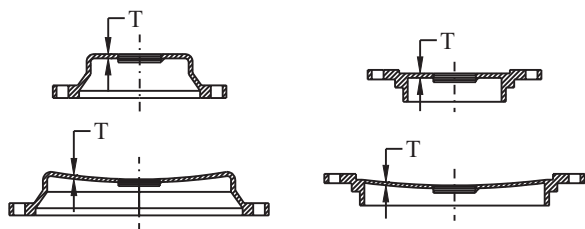


REDUCER MJ X FLANGE

SIZE	T	T ₁	L	WEIGHT
12X 8	0.42	0.38	7.00	82
18X 8	0.54	0.38	16.00	190
18X12	0.54	0.42	12.00	198
24X12	0.61	0.42	18.00	318



3" - 24"

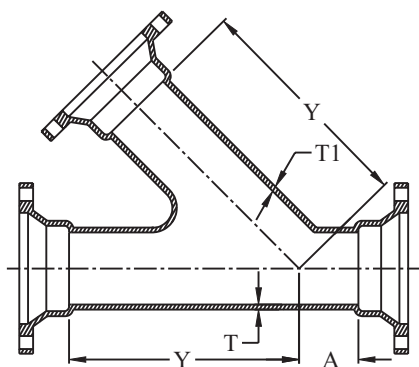


30" - 48"

SOLID & TAPPED CAPS & PLUGS*

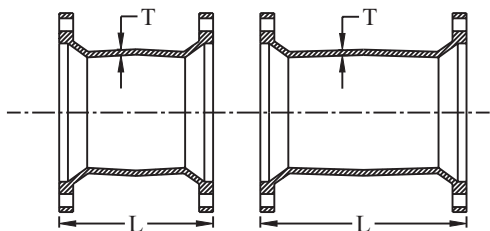
SIZE	T	MAX. TAP	WEIGHT	
			CAPS	PLUGS
2	0.40	2	6	6
3	0.46	2	8	9
4	0.36	2	10	12
6	0.44	2	17	22
8	0.46	2	22	32
10	0.50	2	32	40
12	0.50	2	42	55
14	0.55	2	86	77
16	0.56	2	94	105
18	0.60	2	120	126
20	0.66	2	130	139
24	0.68	2	171	181
30	0.82	2 1/2	395	434
36	1.00	2 1/2	628	688
42	1.00	2 1/2	983	1200
48	1.00	2 1/2	1176	1550

MJ LATERALS*



SIZE	A	Y	T	T1	Wt.
3 X 3	2.50	8.5	0.33	0.33	36
4 X 3	2.50	8.5	0.34	0.33	40
4 X 4	2.50	8.5	0.34	0.34	42
6 X 4	1.50	11.0	0.36	0.34	53
6 X 6	3.00	12.5	0.36	0.36	85
8 X 4	0.50	13.0	0.38	0.34	75
8 X 6	2.00	14.5	0.38	0.36	92
8 X 8	3.50	16.0	0.38	0.38	105
10X 4	0.00	15.0	0.40	0.34	150
10X 6	1.00	16.0	0.40	0.36	158
10X 8	2.50	17.0	0.40	0.38	172
10X10	3.50	19.0	0.40	0.40	212
12X 4	0.00	16.5	0.42	0.34	185
12X 6	1.50	18.5	0.42	0.36	187
12X 8	1.50	18.5	0.42	0.38	190
12X10	3.00	20.0	0.42	0.40	250
12X12	4.50	22.5	0.42	0.42	275
14X14	6.00	25.0	0.47	0.47	474
16X 6	0.00	21.0	0.50	0.36	300
16X 8	0.50	22.5	0.50	0.38	349
16X12	3.50	25.0	0.50	0.42	453
16X16	6.50	28.0	0.50	0.50	575
18X18	7.00	29.0	0.54	0.54	808
24X12	0.00	30.0	0.61	0.42	900
24X14	3.00	34.5	0.61	0.47	988
24X18	4.00	35.0	0.61	0.54	1047
24X24	8.00	38.5	0.61	0.61	1269
*30X24	8.00	47.0	0.66	0.61	1575
*30X30	8.00	47.0	0.66	0.66	1800
*36X 8	1.00	46.0	0.74	0.38	1430
*36X20	8.00	50.0	0.74	0.57	2032
*36X36	17.50	58.0	0.89	0.89	2280

SLEEVES



SIZE	T	LONG		SHORT	
		L	Wt.	L	Wt.
3	0.33	12.00	18	7.50	13
4	0.34	12.00	20	7.50	17
6	0.36	12.00	36	7.50	28
8	0.38	12.00	46	7.50	38
10	0.40	12.00	62	7.50	49
12	0.42	12.00	76	7.50	56
14	0.47	15.00	127	9.50	94
16	0.50	15.00	172	9.50	110
18	0.54	15.00	225	9.00	160
20	0.57	15.00	255	9.00	195
24	0.61	15.00	335	9.00	255
*30	0.66	24.00	670	15.00	500
*36	0.74	24.00	1091	15.00	725
*42	0.82	24.00	1390	15.00	877
*48	0.90	24.00	1740	15.00	1406

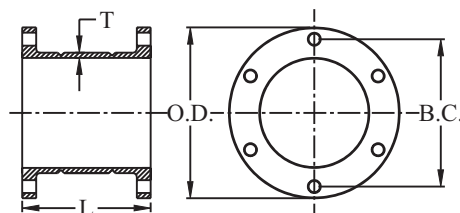
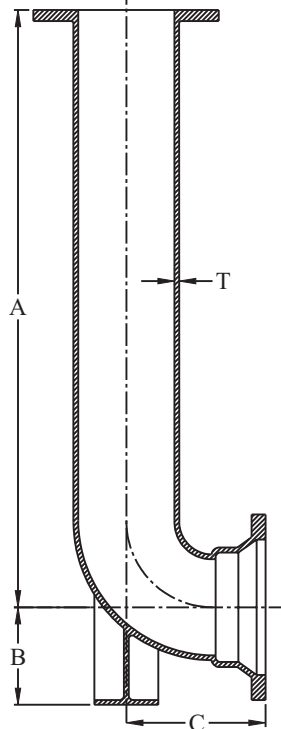
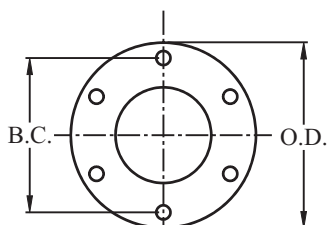
All Dimensions in Inches.
Weights shown are approximate in lbs.

* Not included in AWWA C153.



RETAINER GLANDS

Nominal Pipe Size	Wt.	AWWA DUCTILE IRON PIPE O.D.	WWP Rating (psi)	SET SCREWS		
				Qty.	Size	Torque (Ft Lbs)
3	5	3.96	350	4	5/8 X 2	85
4	7	4.80	350	4	5/8 X 2	85
6	12	6.90	350	6	5/8 X 2	85
8	16	9.05	250	9	5/8 X 2	85
10	22	11.10	250	16	5/8 X 2	85
12	28	13.20	250	16	5/8 X 2	85
14	45	15.30	250	20	5/8 X 2	85
16	52	17.40	250	24	5/8 X 2	85
18	62	19.50	200	24	5/8 X 2	85
20	75	21.60	200	28	3/4 X 2 1/2	110
24	97	25.80	200	32	3/4 X 2 1/2	110
30	196	32.00	100	40	3/4 X 2 1/2	110
36	246	38.30	100	48	3/4 X 2 1/2	110
42	302	44.50	100	56	3/4 X 2 1/2	110
48	380	50.80	100	64	3/4 X 2 1/2	110



HYDRANT EXTENSIONS*

Size	T	L	B.C.	O.D.	Flange Hole Dia.	Wt.
6 X 6	0.56	6.00	9.50	11.12	0.75	50
6 X 12	0.56	12.00	9.50	11.12	0.75	73

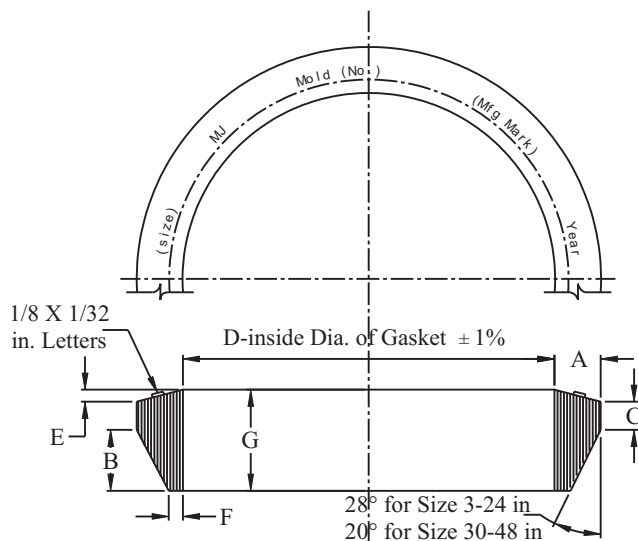
HYDRANT BURIES*

Size	T	A	B	C	B.C.	O.D.	Flange Hole Dia.	Wt.
6 X 42	0.56	42.00	5.50	8.00	9.50	11.12	0.75	144
6 X 48	0.56	48.00	5.50	8.00	9.50	11.12	0.75	156

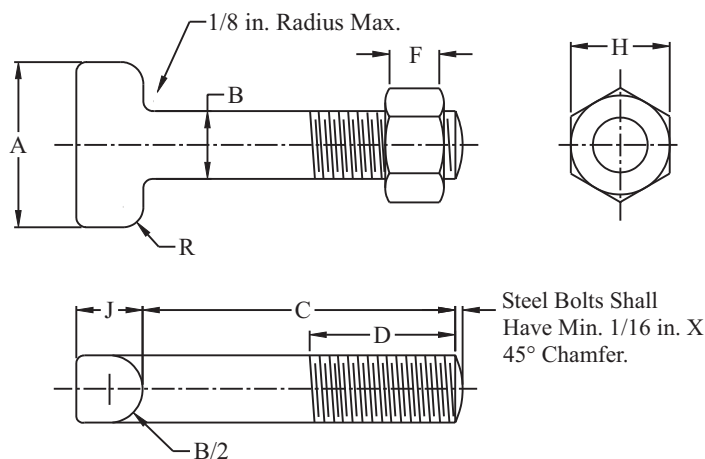
All Dimensions in Inches.
Weights shown are approximate in lbs.

* Not included in AWWA C153.

MECHANICAL JOINT GASKETS



SIZE	PIPE DIA	A ±0.01	B	C	D ±1%	E	F ±0.01	G ±0.02
2	2.50	0.48	0.62	0.31	2.48	0.12	0.15	1.05
3	3.96	0.48	0.62	0.31	3.86	0.12	0.15	1.05
4	4.80	0.62	0.75	0.31	4.68	0.16	0.22	1.22
6	6.90	0.62	0.75	0.31	6.73	0.16	0.22	1.22
8	9.05	0.62	0.75	0.31	8.85	0.16	0.22	1.22
10	11.10	0.62	0.75	0.31	10.87	0.16	0.22	1.22
12	13.20	0.62	0.75	0.31	12.95	0.16	0.22	1.22
14	15.30	0.62	0.75	0.31	14.99	0.16	0.22	1.22
16	17.40	0.62	0.75	0.31	17.07	0.16	0.22	1.22
18	19.50	0.62	0.75	0.31	19.13	0.16	0.22	1.22
20	21.60	0.62	0.75	0.31	21.20	0.16	0.22	1.22
24	25.80	0.62	0.75	0.31	25.34	0.16	0.22	1.22
30	32.00	0.73	1.00	0.38	31.47	0.16	0.37	1.54
36	38.30	0.73	1.00	0.38	37.67	0.16	0.37	1.54
42	44.50	0.73	1.00	0.38	43.78	0.16	0.37	1.54
48	50.80	0.73	1.00	0.38	49.98	0.16	0.37	1.54



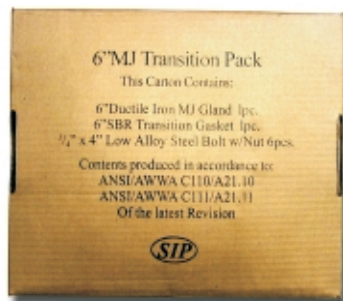
BOLTS & NUT (LOW ALLOY STEEL)

SIZE	A ±0.05	B ±0.030 ±0.074	C ±0.25 ±0.06	D	THREADS PER INCH	F	H	J ±0.15 ±0.03	R MAX.
5/8 X 3	1.50	0.625	3.00	2.00	11	0.625±0.04	1.062+0.00 -0.04	0.625	0.312
3/4 X 3 1/2	1.75	0.750	3.50	2.50	10	0.750±0.06	1.250+0.00 -0.06	0.750	0.375
3/4 X 4	1.75	0.750	4.00	3.00	10	0.750±0.06	1.250+0.00 -0.06	0.750	0.375
3/4 X 4 1/2	1.75	0.750	4.50	3.00	10	0.750±0.06	1.250+0.00 -0.06	0.750	0.375
3/4 X 5	1.75	0.750	5.00	3.00	10	0.750±0.06	1.250+0.00 -0.06	0.750	0.375
1 X 6	2.25	1.000	6.00	3.00	8	1.000±0.08	1.625+0.00 -0.08	1.000	0.500
1 1/4 X 6 1/2	2.50	1.250	6.50	3.50	7	1.250±0.08	2.000+0.00 -0.08	1.250	0.625

All Dimensions in Inches.
Weights shown are approximate in lbs.

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

SIZE	Wt.
2	5
3	7
4	8
6	12
8	14
10	20
12	25
14	36
16	44
18	47
20	61
24	72



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

SIZE	Wt.
3	7
4	8
6	12
8	15
10	20
12	25

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

SIZE	Wt.
3	9
4	10
6	15
8	19
10	25
12	32

**MJ Bolt Pack - includes
MJ Gasket and Std. T-Head
Bolts & Nuts.**

SIZE	Wt.
3	3
4	4
6	6
8	7
10	8
12	9

Tee Bolts, Anti-Rotation Bolts, Pig-Tails, Heavy-Hex Nuts, Flat Washers, Duc Lugs, All Thread Rods, Lug Washer.



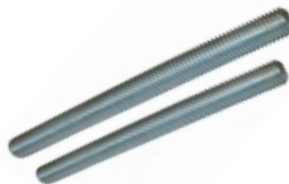
**Cor-Ten
Tee Bolts**



**Anti-Rotation
Bolts**



Pig Tail



All-thread Rod



Under-Ground Clamps



Lug Washer



Pipe Joint Lubricant

All Dimensions in Inches.
Weights shown are approximate in lbs.



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