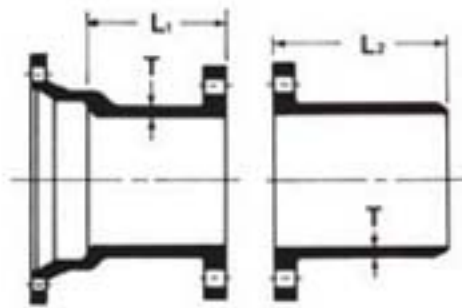


## Adapters

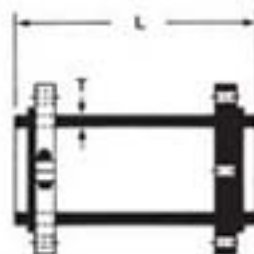
Class 250



MJ x FE

MJ x PE

Fitting Size (in.)	Dimensions (in.)			Minimum Weight (lbs.)	
	T nominal (in.)	L <sub>1</sub> nominal (in.)	L <sub>2</sub> nominal (in.)	MJ x FE	FE x PE
4"	0.35	6	12	24	24
6"	0.37	6	12	36	33
8"	0.39	6	12	52	52
10"	0.41	6	12	67	69
12"	0.43	6	12	80	88
14"	0.51	6	12	126	127
16"	0.52	6	12	166	149



Swivel x Solid (anchor coupling)

Fitting Size (in.)	Dimensions (in.)		Minimum Weight (lbs.)
	T (in.)	L (in.)	
6"	0.55	13	75
8"	0.55	36	129

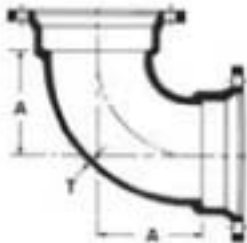
## Mechanical Joint Bends

C-153

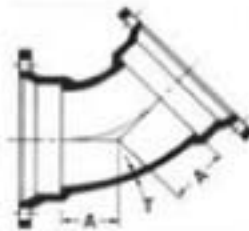
Class 350 (4" - 36")

Class 250 (42" - 48")

MJ x MJ



90° Bend



45° Bend



22½° Bend



11¼° Bend

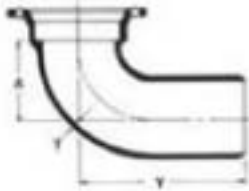
Fitting Size (in.)	T nominal	90°	45°	22½°	11¼°	90°	45°	22½°	11¼°
		"A" Dimension (in.)				Weight (lbs.)†			
4"	0.34	4.00	2.00	1.50	1.25	25	22	18	16
6"	0.36	5.00	3.00	2.00	1.50	39	32	31	30
8"	0.38	6.50	3.50	2.50	1.75	57	46	46	42
10"	0.40	7.50	4.50	3.00	2.00	89	70	64	58
12"	0.42	9.00	5.50	3.50	2.25	108	86	80	67
14"	0.47	11.50	5.00	3.75	2.50	210	160	136	93
16"	0.50	12.50	5.50	3.75	2.50	264	202	172	148
18"	0.54	14.00	6.00	4.50	3.00	335	250	255	205
20"	0.57	15.00	7.00	4.50	3.00	400	305	310	245
24"	0.61	16.75	7.50	4.50	3.00	565	405	412	315
30"	0.66	21.50	10.50	6.75	4.75	930	780	665	600
36"	0.74	24.50	11.50	7.75	5.00	1450	1135	960	820
42"	0.82	29.25	14.00	9.00	6.00	2205	1610	1350	1180
48"	0.90	33.25	15.00	10.00	6.50	2990	2090	1760	1475

Weight shown is the approximate weight† for fittings with minimum "A" dimension. Weight does not include cement lining or accessories.

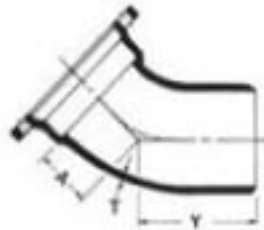
# Mechanical Joint Bends

C-153 Class 350

MJ x PE



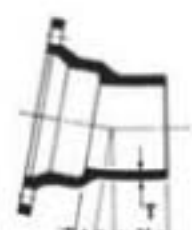
90° Bend



45° Bend



22½° Bend



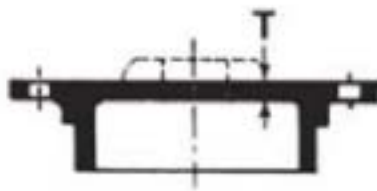
11¼° Bend

Size (in.)	T nom.	90°			45°			22½°			11¼°		
		A	Y	Wt.	A	Y	Wt.	A	Y	Wt.	A	Y	Wt.
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	58	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	69	3.00	8.50	61	2.00	7.50	52
12"	0.42	9.00	14.50	114	5.50	11.00	93	3.50	9.00	79	2.25	7.75	69
14"	0.47	11.50	19.50	197	5.00	13.00	146	3.75	11.25	133	2.50	10.50	118
16"	0.50	12.50	20.50	248	5.50	13.50	184	3.75	11.75	166	2.50	10.50	136
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	21.50	30.50	865	10.50	19.50	715	6.75	15.75	600	4.75	13.75	535

Weight shown is the approximate weight for fittings with minimum "A" dimension.  
Weight does not include cement lining or accessories.

## Mechanical Joint Caps and Plugs

C-153 Class 350



MJ Solid / Tapped Plug



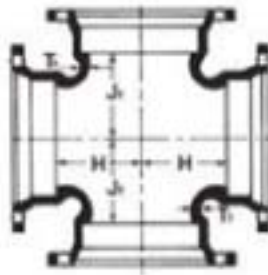
MJ Solid / Tapped Cap

Fitting Size (in.)	Dimensions (in.)		Maximum Tap Size (in.)	Minimum Weight (lbs.)	
	T (in.)			Plug	Cap
	Plug	Cap			
4"	0.34	0.34	3"	10	10
6"	0.36	0.36	4"	21	19
8"	0.38	0.38	4"	29	27
10"	0.40	0.40	4"	42	36
12"	0.42	0.42	4"	57	45
14"	0.47	0.47	4"	87	67
16"	0.50	0.50	4"	104	93
18"	0.54	0.54	4"	164	122
20"	0.57	0.57	4"	153	162
24"	0.61	0.61	4"	202	202
30"	0.66	0.66	4"	495	491
36"	0.74	0.74	4"	858	876

NOTE: Tapping holes larger than 2" in a flat plug or cap can reduce the strength of the fitting.

## Mechanical Joint Crosses

C-153 Class 350



Size (in.)	Dimensions (in.)				Weights (lbs.)
	T	T <sub>1</sub>	H	J	MJxMJ
4" x 4"	0.35	0.35	4	4	57
6" x 4"	0.37	.035	5¼	5	68
6" x 6"	0.37	0.37	6¼	5	88
8" x 4"	0.39	0.35	5¼	6	99
8" x 6"	0.39	0.37	6	6	100
8" x 8"	0.39	0.39	7¼	6	130
10" x 4"	0.41	0.35	4	7	120
10" x 6"	0.41	0.37	5	7	125
10" x 8"	0.41	0.39	6½	7	130
10" x 10"	0.41	0.41	7½	7	210
12" x 4"	0.43	0.35	4	8½	150
12" x 6"	0.43	0.37	5	8½	159
12" x 8"	0.43	0.39	6½	8½	165
12" x 10"	0.43	0.41	7½	8½	190
12" x 12"	0.43	0.43	8¼	8½	280
14" x 8"	0.51	0.45	7½	10½	259
14" x 14"	0.51	0.51	10½	10½	413
16" x 6"	0.52	0.45	6½	11½	250
16" x 8"	0.52	0.46	8½	11½	289
16" x 10"	0.52	0.47	8½	11½	345
16" x 12"	0.52	0.48	9½	11½	397
16" x 16"	0.52	0.51	11½	11½	578

## Mechanical Joint Crosses

C-153 Class 350

Size (in.)	Dimensions (in.)				Weights (lbs.)
	T	T <sub>1</sub>	H	J	MJxMJ
18" x 12"	0.54				437
18" x 18"	0.54				657
20" x 8"	0.57				440
20" x 12"	0.57				558
20" x 18"	0.57				698
20" x 20"	0.57				798
24" x 8"	0.61				500
24" x 12"	0.61				620
24" x 16"	0.61				720
24" x 18"	0.61				868
24" x 20"	0.61				1014
24" x 24"	0.61				1038
30" x 30"	0.66		22.00	22.00	1840
36" x 36"	0.74		26.00	26.00	2655

NOTE: All fittings on this page - Call for availability

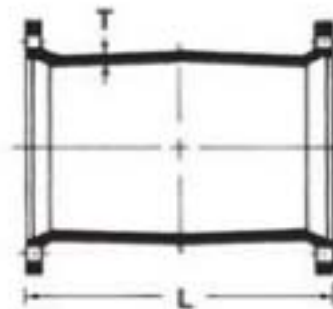
## Mechanical Joint Duo-Sleeve

[Dual-Purpose Sleeve]

Class 350

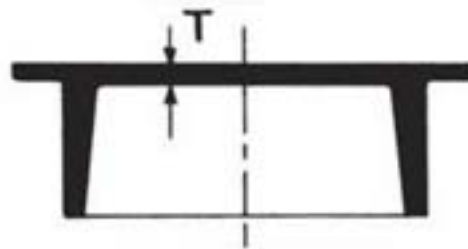
Many older pipelines that are still in service were constructed with cast (gray) iron pipe. Prior to the introduction of centrifugal casting, and the adoption of standardized dimensions in the waterworks industry, pipe were produced by "pit casting" methods. Pit cast pipe had a larger diameter (OD) than currently manufactured ductile iron pipe. While the older type of pipe is no longer manufactured, it is sometimes necessary to connect a new ductile iron pipe or fitting to the older lines.

The Griffin Duo-Sleeve is designed with a larger inner diameter for use on older pipelines of cast iron with oversized diameters (O.D.). The Duo-Sleeve allows cutting into and adapting to the older pipelines with newer ductile iron pipe, fittings or valves. The current C153 compact mechanical joint ductile iron sleeves will not adapt to the oversize cast iron pipe. The Duo-Sleeve has larger dimensions in the gasket/gland area and will fit oversize pipe as well as new ductile iron pipe. The Duo-Sleeve requires the use of a special Duo-Gland that is supplied with each Duo-Sleeve. The gasket is the current C111 mechanical joint gasket (gasket not supplied with the fitting).



Fitting Size (in.)	Suitable Pipe Sizes (O.D. in.)	Dimensions (in.)			Minimum Weight (lbs.)
		T nominal	L nominal	Inside Diameter nominal (+.07 / -.03)	
4"	4.80 - 5.00	0.35	12.0	5.12	23
6"	6.90 - 7.10	0.37	12.0	7.22	49
8"	9.05 - 9.30	0.39	12.0	9.42	65
10"	11.10 - 11.40	0.40	12.0	11.52	86
12"	13.20 - 13.50	0.43	12.0	13.62	111

## Push-On Joint Plug Class 350



**Solid / Tapped**

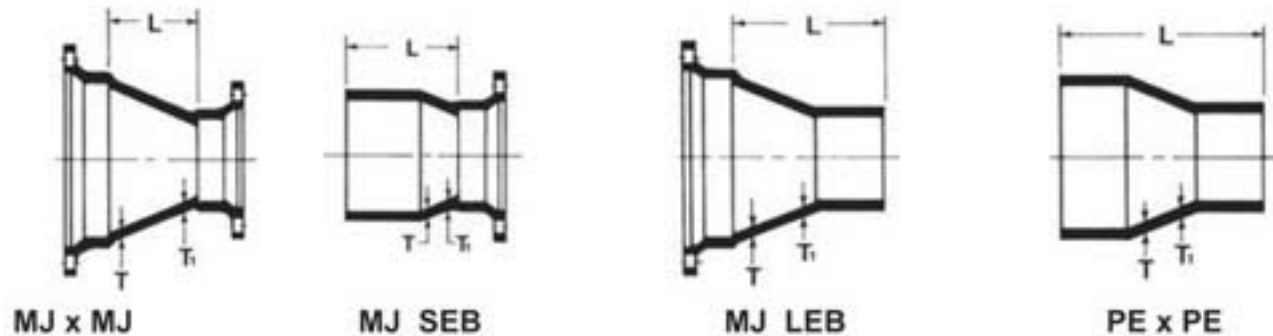
Fitting Size (in.)	Dimensions (in.)	Maximum Tap Size (in.)	Minimum Weight (lbs.)
	T (in.)		
4"	0.46	3"	8
6"	0.46	3"	17
8"	0.46	4"	25
10"	0.56	4"	34
12"	0.56	4"	48
14"	0.66	4"	110
16"	0.70	4"	99
18"	0.75	4"	180
20"	0.80	4"	220
24"	0.89	4"	315
30"	0.72	4"	460
36"	0.95	4"	777

**NOTE:** Tapping holes larger than 2" in a flat plug or cap can reduce the strength of the fitting.



## Mechanical Joint Reducers

C-153 Class 350



Fitting Size (in.)	Nominal Thickness		Dimensions							
	T	$T_1$	MJ x MJ		MJ LEB		MJ SEB		PE x PE	
			L min.	Wt.	L min.	Wt.	L min.	Wt.	L min.	Wt.
6" x 4"	0.36	0.34	4	24	9.5	26	9.5	26	15	22
8" x 4"	0.38	0.34	5	32	10.5	34	10.5	30	16	30
8" x 6"	0.38	0.36	4	36	9.5	32	9.5	35	15	30
10" x 4"	0.40	0.34	7	46	12.5	43	12.5	43	18	46
10" x 6"	0.40	0.36	5	47	10.5	42	10.5	46	16	46
10" x 8"	0.40	0.38	4	50	9.5	50	9.5	42	15	47
12" x 4"	0.42	0.34	9	58	14.5	60	14.5	60	20	58
12" x 6"	0.42	0.36	7	58	12.5	58	12.5	58	18	57
12" x 8"	0.42	0.38	5	57	10.5	55	10.5	54	16	54
12" x 10"	0.42	0.40	4	61	9.5	59	9.5	59	15	54
14" x 6"	0.47	0.36	9	100	14.5	104	16.9	100	22.3	93
14" x 8"	0.47	0.38	7	100	12.4	98	14.9	98	20.3	94
14" x 10"	0.47	0.40	5	100	10.4	92	12.9	94	18.3	90
14" x 12"	0.47	0.42	4	100	9.4	92	11.9	90	17.3	88

## Mechanical Joint Reducers

C-153 Class 350

Fitting Size (in.)	Nominal Thickness		Dimensions							
	T	T <sub>1</sub>	MJ x MJ		MJ LEB		MJ SEB		PE x PE	
			L min.	Wt.	L min.	Wt.	L min.	Wt.	L min.	Wt.
16" x 6"	0.50	0.36	11	124	16.5	136	18.9	125	24.3	124
16" x 8"	0.50	0.38	9	124	14.4	128	16.9	124	22.3	119
16" x 10"	0.50	0.40	7	124	12.5	123	15.0	124	20.5	119
16" x 12"	0.50	0.42	5	112	10.5	119	12.9	122	18.3	113
16" x 14"	0.50	0.47	4	140	12.0	132	12.0	133	19.7	129
18" x 8"	0.54	0.38	13	190	19.5	195	20.2	170	27.4	170
18" x 10"	0.54	0.40	10	195	17.4	185	18.0	165	25.5	160
18" x 12"	0.54	0.42	7	180	14.0	175	15.5	150	19.5	150
18" x 14"	0.54	0.47	6	190	15.0	190	15.0	175	23.0	160
18" x 16"	0.54	0.50	5	195	12.5	190	12.5	170	18.0	145
20" x 10"	0.57	0.40	14	220	19.0	210	22.0	200	27.5	180
20" x 12"	0.57	0.42	12	205	16.0	205	17.5	170	21.5	190
20" x 14"	0.57	0.47	10	200	17.9	205	18.0	190	26.0	195
20" x 16"	0.57	0.50	7	200	13.5	200	13.5	185	19.0	170
20" x 18"	0.57	0.54	4	225	12.0	215	12.0	200	20.0	190
24" x 12"	0.61	0.42	16	305	21.0	290	21.5	275	22.5	240
24" x 14"	0.61	0.47	14	310	21.9	330	22.0	310	25.0	295
24" x 16"	0.61	0.50	12	320	17.5	285	17.5	285	23.0	285
24" x 18"	0.61	0.54	10	305	18.0	310	18.0	300	21.0	290
24" x 20"	0.61	0.57	7	300	13.5	275	13.5	270	14.0	240
30" x 20"	0.72	0.72	24	628	33.0	603	33.0	560	42.0	535
30" x 24"	0.72	0.72	10	478	24.5	526	24.5	495	33.5	458
36" x 24"	0.77	0.77	19	770	33.0	810	33.0	746	42.0	709
36" x 30"	0.77	0.77	15.5	650	24.5	758	24.5	725	33.5	657

## Mechanical Joint Reducers

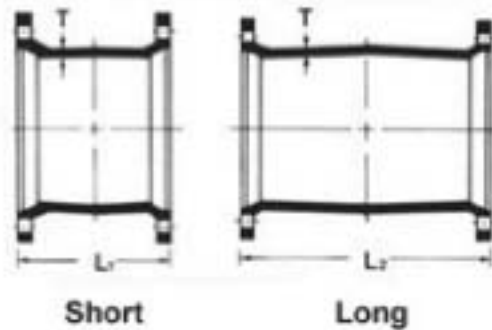
C-153 Class 250

Fitting Size (in.)	Nominal Thickness		Dimensions							
	T	T <sub>1</sub>	MJ x MJ		MJ LEB		MJ SEB		PE x PE	
			L min.	Wt.	L min.	Wt.	L min.	Wt.	L min.	Wt.
42" x 24"	0.82	0.61	40	1356						
42" x 36"	0.82	0.66	15½	1114			24½	1023		
48" x 24"	0.90	0.66	40	1850						
48" x 30"	0.90	0.66	40	1779						
48" x 36"	0.90	0.74	28	1641						

NOTE: All fittings on this page - Call for availability

## Mechanical Joint Sleeves

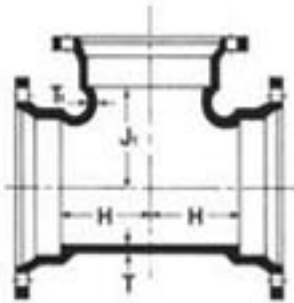
C-153 Class 350  
42" and 48" = Class 250



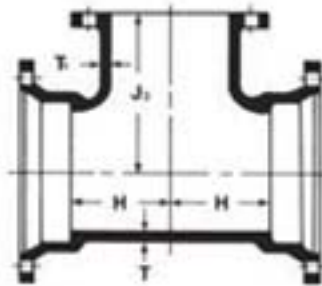
Fitting Size (in.)	Dimensions (in.)			Short Sleeve Minimum Weight (lbs.)	Long Sleeve Minimum Weight (lbs.)
	T nominal	L <sub>1</sub> nominal	L <sub>2</sub> nominal		
4"	0.34	7.5	12.0	17	20
6"	0.36	7.5	12.0	28	33
8"	0.38	7.5	12.0	38	46
10"	0.40	7.5	12.0	49	62
12"	0.42	7.5	12.0	56	76
14"	0.47	9.5	15.0	111	140
16"	0.50	9.5	15.0	123	170
18"	0.54	9.0	15.0	160	200
20"	0.57	9.0	15.0	195	255
24"	0.61	9.0	15.0	255	335
30"	0.72	15.0	24.0	500	640
36"	0.77	15.0	24.0	725	925

## Mechanical Joint Tees

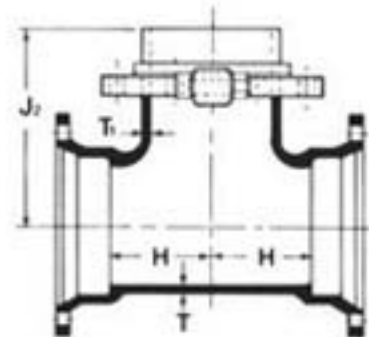
C-153 Class 350



MJ x MJ Tee



MJ x FE Tee



MJ x Swivel Tee

Size (in.)	Dimensions (in.)						Weights (lbs.)		
	T	T1	H	J1	J2	J3	MJxMJ	MJxFE	MJxSW
4" x 4"	0.34	0.34	4	4			32		
6" x 4"	0.36	0.34	4	5			46		
6" x 6"	0.36	0.36	5	5	10	8	56	67	68
8" x 4"	0.38	0.34	4	6½			60		
8" x 6"	0.38	0.36	5	6½	11	9	72	86	92
8" x 8"	0.38	0.38	6½	6½			86		
10" x 4"	0.40	0.34	4	7½			78		
10" x 6"	0.40	0.36	5	7½	12½	11	90	106	109
10" x 8"	0.40	0.38	6½	7½			105		
10" x 10"	0.40	0.40	7½	7½			120		
12" x 4"	0.42	0.34	4	8¾			94		
12" x 6"	0.42	0.36	5	8¾	13½	12	110	117	113
12" x 8"	0.42	0.38	6½	8¾			125		
12" x 10"	0.42	0.40	7½	8¾			140		
12" x 12"	0.42	0.42	8¾	8¾			160		

## Mechanical Joint Tees

C-153    Class 350

Size (in.)	Dimensions (in.)						Weights (lbs.)		
	T	T1	H	J1	J2	J3	MJxMJ	MJxFE	MJxSW
14" x 4"	0.47	0.34	5½	10½			172		
14" x 6"	0.47	0.36	6½	10½	12½	14	182	205	183
14" x 8"	0.47	0.38	7½	10½			206		
14" x 10"	0.47	0.40	8½	10½			228		
14" x 12"	0.47	0.42	9½	10½			234		
14" x 14"	0.47	0.47	10½	10½			280		
16" x 6"	0.50	0.36	6½	11½	13½	15	228	224	233
16" x 8"	0.50	0.38	7½	11½			248		
16" x 10"	0.50	0.40	8½	11½			264		
16" x 12"	0.50	0.42	9½	11½			280		
16" x 14"	0.50	0.47	10½	11½			316		
16" x 16"	0.50	0.50	11½	11½			322		
18" x 6"	0.54	0.36	6½	12½	14½	16	275	224	233
18" x 8"	0.54	0.38	7½	12½			295		
18" x 10"	0.54	0.40	8½	12½			315		
18" x 12"	0.54	0.42	9½	12½			335		
18" x 14"	0.54	0.47	10½	12½			380		
18" x 16"	0.54	0.50	11½	12½			405		
18" x 18"	0.54	0.54	12½	12½			435		

## Mechanical Joint Tees

C-153 Class 350

Size (in.)	Dimensions (in.)						Weights (lbs.)		
	T	T1	H	J1	J2	J3	MJxMJ	MJxFE	MJxSW
20" x 6"	0.57	0.36	6½	14	16	17½	315	340	360
20" x 8"	0.57	0.38	8	14			345		
20" x 10"	0.57	0.40	9	14			370		
20" x 12"	0.57	0.42	10	14			395		
20" x 14"	0.57	0.47	11	14			440		
20" x 16"	0.57	0.50	12	14			465		
20" x 18"	0.57	0.54	13	14			505		
20" x 20"	0.57	0.57	14	14			535		
24" x 6"	0.61	0.36	7	16	21½	19	415	460	458
24" x 8"	0.61	0.38	8	16			445		
24" x 10"	0.61	0.40	9	16			470		
24" x 12"	0.61	0.42	10	16			500		
24" x 14"	0.61	0.47	11	16			550		
24" x 16"	0.61	0.50	12	16			580		
24" x 18"	0.61	0.54	13	16			625		
24" x 20"	0.61	0.57	14	16			660		
24" x 24"	0.61	0.61	16	16			720		
30" x 20"	0.72	0.61	16½	20			995		
30" x 24"	0.72	0.72	22	20			1060		
30" x 30"	0.72	0.72	22	20			1323		
36" x 24"	0.77	0.72	16	23½			1498		
36" x 30"	0.77	0.72	20	23½			1555		
36" x 36"	0.77	0.77	23½	23½			1900		

## Mechanical Joint Tees

C-153 Class 250

Size (in.)	Dimensions (in.)						Weights (lbs.)		
	T	T1	H	J1	J2	J3	MJxMJ	MJxFE	MJxSW
42" x 24"	0.82	0.61	20	25½			2270		
42" x 36"	0.82	0.74	30	30			3000		
42" x 42"	0.82	0.82	30	30			3175		
48" x 16"	0.90	0.61	23	32			2650		
48" x 24"	0.90	0.61	23	32			2870		
48" x 30"	0.90	0.66	23	32			3050		
48" x 36"	0.90	0.74	33½	32¼			3900		
48" x 48"	0.90	0.90	33½	33½			4250		

NOTE: All fittings on this page - Call for availability



