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PROTECTO 401

AWWA C153 MJ FITTINGS

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ 90 BEND			
03"	19	400	353
04"	25	479	353
06"	42	747	538
08"	67	1,042	763
10"	101	1,465	1,179
12"	132	1,871	2,033
14"	204	2,714	2,648
16"	260	3,308	3,375
18"	342	4,079	4,345
20"	456	5,084	6,985
24"	636	7,219	13,170
30"	1163	11,860	18,046
36"	1679	17,732	25,051
42"	2381	29,525	44,058
48"	3175	38,800	58,455

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ 45 BEND			
03"	16	378	303
04"	22	443	330
06"	38	684	502
08"	58	945	682
10"	82	1,262	904
12"	111	1,691	1,376
14"	157	2,326	2,172
16"	194	2,796	2,656
18"	234	3,361	3,393
20"	341	4,068	3,961
24"	450	5,355	5,560
30"	887	10,286	13,171
36"	1205	14,432	19,896
42"	1675	21,655	31,464
48"	2196	27,881	40,970

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ X PE 90 BEND			
03"	16	521	368
04"	26	521	368
06"	45	816	538
08"	65	1,132	1,021
10"	88	1,596	1,350
12"	114	2,015	1,482
16"	184	2,924	2,472
18"	385	4,485	3,776
20"	416	8,253	7,270
24"	595	8,500	8,815
30"	865	12,658	10,891
36"	1355	27,536	POA
42"	2055	27,846	POA
48"	*	50,827	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ X PE 45 BEND			
03"	13	449	330
04"	21	449	330
06"	37	714	507
08"	57	1,037	686
10"	70	1,406	1,096
12"	98	1,852	1,395
16"	184	2,627	2,010
18"	270	3,023	2,530
20"	315	6,178	4,873
24"	430	6,308	6,254
30"	715	10,462	POA
36"	1040	25,123	POA
42"	1460	25,828	POA
48"	1905	30,714	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ X FLG 90 BEND			
03"	21	507	436
04"	28	507	436
06"	46	828	697
08"	71	1,277	960
10"	121	1,873	1,406
12"	155	2,532	1,897
14"	275	4,441	4,136
16"	335	4,870	5,041
24"	617	11,396	POA
30"	1014	20,343	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ X FLG 45 BEND			
03"	-	POA	POA
04"	25	534	398
06"	37	791	651
08"	71	1,243	807
10"	122	1,799	1,119
12"	159	2,497	1,599
14"	207	3,485	3,351
16"	311	4,355	3,975
24"	463	8,154	POA
30"	764	POA	POA



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ 22.5 BEND			
03"	15	437	327
04"	20	437	327
06"	36	662	486
08"	48	939	677
10"	65	1,261	889
12"	82	1,582	1,234
14"	132	2,341	2,193
16"	170	2,729	2,572
18"	231	3,345	3,370
20"	349	4,228	4,161
24"	459	5,226	539
30"	722	9,088	11,058
36"	974	12,606	16,613
42"	1367	18,211	25,272
48"	1801	23,475	33,263

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ 11.25 BEND			
03"	14	429	317
04"	18	429	317
06"	31	670	491
08"	44	906	656
10"	59	1,259	910
12"	74	1,532	1,193
14"	114	2,537	2,237
16"	150	2,820	2,572
18"	230	3,891	3,639
20"	355	4,063	3,749
24"	459	5,230	5,032
30"	645	9,216	9,948
36"	887	12,238	14,191
42"	1162	17,690	28,359
48"	1574	23,337	28,994

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ X FLG 22.5 BEND			
3"	26	POA	POA
4"	32	762	356
6"	41	930	523
8"	64	1,381	719
10"	92	1,783	1,200
12"	132	2,472	1,258
30"	*	POA	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ X FLG 11.25 BEND			
4"	28	663	463
6"	40	900	511
8"	53	1,169	688
10"	88	1,715	998
12"	114	2,130	1,186

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ X PE 22.5 BEND			
03"	13	282	342
04"	18	427	342
06"	31	704	617
08"	48	1,032	821
10"	63	1,223	968
12"	82	1,539	1,130
14"	152	2,679	1,998
16"	255	3,708	3,290
18"	248	4,296	POA
20"	290	5,485	POA
24"	395	7,398	5,756
30"	600	9,021	9,306
36"	*	POA	POA
42"	*	POA	POA
48"	*	POA	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ X PE 11.25 BEND			
03"	13	282	418
04"	18	427	418
06"	29	652	505
08"	45	975	707
10"	56	1,095	911
12"	71	1,336	1,127
14"	133	2,154	1,748
16"	165	2,404	2,132
18"	248	4,296	POA
20"	291	5,485	POA
24"	400	7,398	6,095
30"	*	18,867	POA
36"	*	34,433	POA
42"	*	POA	POA
48"	*	POA	POA

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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ 5-5/8 BEND			
03"	14	410	POA
04"	19	545	POA
06"	31	892	POA
08"	45	1,164	POA
10"	60	1,667	POA
12"	77	1,968	POA
14"	121	3,770	POA
16"	164	4,125	POA
18"	213	5,399	POA
20"	245	4,879	POA
24"	324	6,732	POA
30"	564	12,075	POA
36"	816	18,186	POA
42"	1241	30,866	POA
48"	1532	40,407	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 ADAPTER SWVL X SOL			
4X13"	41	746	POA
6X13"	52	1,008	POA
6X18"	62	1,310	POA
6X24"	75	1,369	POA
6X36"	100	2,506	POA
6X48"	130	3,153	POA
8X13"	79	1,404	POA
10X13"	150	2,456	POA
12X13"	280	3,464	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ TAPPED TEE			
3x2"	27	638	421
4x2"	29	644	421
6x2"	44	850	646
8x2"	50	1,267	812
10x2"	73	2,222	1,191
12x2"	165	2,749	1,374
16x2"	175	3,184	2,251

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 ADAPTER SWVL X SOL			
6X13"	49	1,008	POA
6X24"	71	1,369	POA
8X13"	68	1,404	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 90 BEND SWVL X SWVL			
4X13"	20	1203	POA

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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ TEE			
03"	28	543	429
04x03"	30	543	429
04"	32	543	429
06x03"	42	793	633
06x04"	46	866	633
6x4x6"	50	2,506	POA
06"	56	903	683
6x6x8"	62	2,194	POA
08x03"	52	1,159	815
08x04"	60	1,072	815
08x06"	72	1,158	899
8x6x6"	80	3,355	POA
8x6x8"	85	3,406	POA
08"	86	1,280	983
10x03"	75	1,484	1,137
10x04"	78	1,490	1,137
10x06"	90	1,468	1,267
10x08"	105	1,597	1,426
10"	120	1,730	1,571
12x03"	90	1,919	1,442
12x04"	94	1,807	1,442
12x06"	110	1,807	1,528
12x08"	125	1,962	1,590
12x10"	140	2,290	1,889
12"	160	2,282	1,957
14x06"	182	2,618	2,438
14x08"	206	2,845	2,690
14x10"	228	3,502	2,921
14x12"	234	3,703	3,102
14"	280	3,388	3,471
16x04"	215	5,390	POA
16x06"	228	3,132	3,069
16x08"	248	3,308	3,282
16x10"	264	4,026	3,544
16x12"	280	3,743	3,810
16x14"	316	4,976	4,233
16"	327	4,436	4,655
18x04"	271	4,293	POA
18x06"	275	4,256	4,298
18x08"	295	4,501	4,592
18x10"	315	4,796	4,879
18x12"	335	5,104	5,331
18x14"	380	6,613	5,532
18x16"	405	6,847	7,895

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ TEE			
18"	435	6,266	10,253
20x06"	315	4,768	5,057
20x08"	345	4,847	5,157
20x10"	370	6,392	7,505
20x12"	395	5,662	6,206
20x14"	440	7,120	7,055
20x16"	465	5,595	6,119
20x18"	505	8,784	7,981
20"	535	6,019	9,102
24x06"	415	5,730	6,254
24x08"	445	5,780	6,411
24x10"	470	7,185	6,942
24x12"	500	6,053	11,093
24x14"	550	8,694	8,043
24x16"	580	7,294	8,444
24x18"	625	9,139	8,482
24x20"	660	9,369	9,442
24"	720	8,629	10,574
30x04"	700	12,554	POA
30x06"	700	9,469	11,315
30x08"	739	10,438	12,518
30x12"	830	11,487	14,683
30x16"	959	12,970	15,363
30x18"	1,085	18,468	POA
30x20"	995	12,743	17,694
30x24"	1,060	13,230	18,466
30"	1,323	15,978	22,757
36x6"	1,100	16,538	14,499
36x8"	1,287	15,791	14,890
36x10"	1,130	15,015	15,284
36x12"	1,150	15,015	15,421
36x16"	1,350	16,019	17,558
36x18"	1,505	27,592	20,401
36x20"	1,498	27,592	22,266
36x24"	1,498	17,697	24,986
36x30"	1,555	20,099	26,043
36"	1,900	23,331	33,814
42x6"	1,950	30,709	POA
42x8"	1,975	29,701	POA
42x12"	1,410	32,705	POA
42x16"	2,100	30,543	POA
42x18"	2,195	34,937	POA
42x20"	2,235	34,937	POA
42x24"	2,270	28,561	41,922

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SIZE WEIGHT LIST IMPORT LIST DOMESTIC

SIZE WEIGHT LIST IMPORT LIST DOMESTIC

C153 MJ TEE

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
42x30"	2,425	29,028	43,731
42x36"	3,000	36,284	55,360
42"	3,175	38,301	58,579
48x06"	2,155	49,318	POA
48x08"	*	52,409	POA
48x12"	2,500	36,920	POA
48x16"	2,650	49,170	POA
48x18"	*	49,170	POA
48x20"	2,500	49,170	POA
48x24"	2,870	34,862	POA
48x30"	3,050	59,312	POA
48x36"	3,900	47,796	53,692
48x42"	4,100	56,304	55,210
48"	4,250	50,796	81,061

C153 MJ X PE X MJ TEE

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
6"	57	1,240	902
8X6"	69	1,569	1,203
8"	77	1,859	1,269
10"	120	2,436	1,539
12"	170	3,475	POA

C153 MJ X SWVL TEE

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
6"	67	1,246	898
8X6"	84	1,492	1,080
8"	105	2,265	1,561
10X6"	94	1,678	1,518
10X8"	129	2,232	1,831
12X6"	117	1,812	1,760
12X8"	145	2,715	1,873
14X6"	229	3,699	3,010
16X6"	205	2,511	3,440
16X8"	*	6,765	POA
18X6"	278	4,464	3,846
20X6"	276	3,951	4,624
24X6"	394	5,441	5,459
30X6"	*	18,685	POA
36X6"	*	19,437	POA

C153 MJ X FLG TEE

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
03"	32	740	517
04x03"	37	869	517
04"	40	821	517
06x03"	53	1,196	741
06x04"	56	1,246	741
06"	80	1,246	820
08x03"	*	2,248	POA
08x04"	74	1,387	904
08x06"	80	1,440	936
08"	99	1,841	1,213
10x04"	90	1,752	1,225
10x06"	116	2,174	1,428
10x08"	123	2,347	1,556
10"	154	2,988	1,724
12x04"	126	2,210	1,519
12x06"	142	2,328	1,524
12x08"	171	2,586	1,779
12x10"	158	2,952	2,185
12"	203	3,708	2,254
14x06"	202	3,267	2,646
14x10"	290	4,684	3,801
14x12"	315	5,085	4,140
14"	338	5,462	4,503
16x06"	228	3,320	2,934
16x08"	265	4,019	3,297
16x10"	330	4,797	4,256
16x12"	340	4,943	4,387
16x14"	*	#VALUE!	4,608
16"	470	6,832	6,047
18x06"	258	4,139	3,580
18x08"	337	5,404	4,675
18"	*	18,379	4,804
20x06"	360	5,155	4,916
20x08"	*	12,453	POA
24x06"	410	5,606	5,623
24x08"	*	6,511	POA
24x10"	*	12,308	POA
24x12"	572	7,892	8,333
24x16"	720	9,031	10,491
24"	*	12,886	POA
30x06"	805	12,105	9,251
30x12"	715	16,197	10,372
36x6"	1,175	20,484	19,674
36x12"	1,190	21,095	16,051
36x24"	*	40,160	POA
42X12"	1,620	43,968	POA
42X30"	*	47,800	POA

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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ WYE			
03"	34	743	569
04x03"	38	903	569
04"	50	1,025	569
06x04"	52	1,056	736
06"	77	1,479	832
08x04"	106	1,953	1,126
08x06"	88	1,635	1,290
08"	109	2,063	1,516
10x04"	150	2,909	1,461
10x06"	158	3,062	1,549
10x08"	172	3,335	1,848
10"	210	4,069	2,087
12x04"	211	3,951	267
12x06"	220	4,110	2,135
12x08"	236	4,413	2,208
12x10"	277	5,182	2,524
12"	297	4,599	2,761
14x06"	*	6,544	7,381
14x08"	*	14,011	POA
14X10"	*	6,991	POA
14"	447	7,221	8,861
16x06"	298	4,334	4,297
16x08"	349	5,082	4,916
16x10"	370	10,096	POA
16x12"	448	6,521	6,132
16"	545	7,924	7,301
18x04"	*	12,524	POA
18x06"	408	12,442	POA
18x08"	*	14,062	POA
18x10"	*	14,261	POA
18X12"	*	16,766	POA
18"	808	8,125	POA
20"	*	16,742	POA
24X16"	*	13,380	POA
24X18"	970	13,380	POA
24"	1,252	17,269	POA
30X24"	*	47,269	POA
30"	1,800	49,662	POA
36X30"	*	55,851	POA
36"	*	67,018	POA
42"	*	125,683	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ CROSS			
03"	35	854	685
04x03"	49	702	685
04"	40	854	685
06x04"	68	1,045	817
06"	75	1,121	1,034
08x04"	99	1,552	1,064
08x06"	108	1,287	1,187
08"	105	1,249	1,314
10x04"	98	1,709	1,265
10x06"	118	1,638	1,473
10x08"	138	1,928	1,609
10"	145	1,929	1,791
12x04"	100	2,090	1,533
12x06"	140	2,021	1,700
12x08"	162	2,203	1,801
12x10"	190	3,154	2,154
12"	213	3,005	2,286
14x06"	210	3,272	2,718
14x08"	259	3,583	3,162
14x10"	265	4,703	3,217
14x12"	270	5,742	3,364
14"	299	4,801	5,791
16x06"	250	3,713	3,235
16x08"	289	4,122	3,651
16x10"	345	5,048	4,243
16x12"	397	5,254	4,792
16"	385	7,152	5,010
18x06"	386	9,579	POA
18x10"	*	11,485	POA
18x12"	437	9,491	POA
18"	657	9,695	POA
20x06"	285	8,794	POA
20x08"	440	7,009	POA
20x10"	*	8,576	POA
20x12"	558	6,660	POA
20x16"	680	10,782	POA
20x18"	698	10,358	POA
20"	829	13,611	POA
24x06"	481	7,805	POA
24x08"	500	8,045	POA
24x10"	*	15,707	POA
24x12"	620	9,605	POA
24x16"	720	6,393	POA
24x18"	868	12,819	POA
24x20"	1,014	14,712	POA
24"	1,038	13,209	15,144



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ OFFSET			
3x6	23	168	POA
3x12	34	245	POA
3x18	40	284	POA
3x24	47	339	POA
4x6	32	230	POA
4x12	42	297	POA
4x18	56	399	POA
4x24	65	461	POA
6x6	55	391	POA
6x12	72	508	POA
6x18	88	622	POA
6x24	111	786	POA
8x6	79	563	POA
8x12	103	724	POA
8x18	128	904	POA
8x24	189	1,283	POA
10x6	112	803	POA
10x12	148	1,057	POA
10x18	176	1,261	POA
10x24	*	2,469	POA
12x6	157	1,138	POA
12x12	174	1,266	POA
12x18	210	1,528	POA
12x24	298	2,160	POA
12x30	283	2,053	POA
16x12	*	6,947	POA
16x18	*	8,211	POA
20x12	*	9,922	POA
20x18	*	13,191	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ X PE OFFSET			
3x6	29	218	POA
3x12	39	291	POA
3x18	48	355	POA
3x24	53	395	POA
4x6	44	327	POA
4x12	54	402	POA
4x18	65	484	POA
4x24	72	533	POA
6x6	54	383	POA
6x12	68	503	POA
6x18	96	710	POA
6x24	117	865	POA
8x6	78	578	POA
8x12	110	811	POA
8x18	124	917	POA
8x24	*	967	POA
10x6	130	960	POA
10x12	172	1,269	POA
10x18	189	1,394	POA
10x24	*	1,751	POA
12x6	*	1,440	POA
12x12	198	1,463	POA
12x18	270	1,991	POA
12x24	334	2,462	POA
12x30	205	1,513	POA



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AWWA C153 MJ FITTINGS

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ CON RED BB			
04x03"	18	564	427
06x03"	22	607	455
06x04"	24	634	455
08x03"	30	607	POA
08x04"	32	815	631
08x06"	36	834	643
10x04"	46	1,120	953
10x06"	47	1,053	805
10x08"	50	1,087	835
12x04"	58	1,376	1,146
12x06"	58	1,304	1,080
12x08"	57	1,317	1,194
12x10"	61	1,371	1,343
14x06"	110	2,112	1,676
14x08"	110	2,112	1,676
14x10"	100	1,838	1,784
14x12"	100	1,828	1,885
16x06"	145	2,395	2,118
16x08"	140	2,308	2,128
16x10"	124	2,266	2,148
16x12"	112	2,224	2,220
16x14"	140	2,526	2,331
18x04"	152	3,149	POA
18x08"	190	3,248	2,561
18x10"	195	3,133	2,830
18x12"	180	3,013	2,771
18x14"	190	3,641	2,808
18x16"	195	3,114	2,900
20x06"	229	6,078	POA
20x08"	227	3,716	POA
20x10"	220	4,056	3,257
20x12"	205	3,346	3,090
20x14"	200	3,417	3,189
20x16"	200	3,197	3,347
20x18"	225	3,816	3,726
24x08"	263	7,228	POA
24x10"	305	8,176	POA
24x12"	305	4,654	4,662
24x14"	315	8,836	4,760
24x16"	320	4,772	4,810
24x18"	305	4,636	4,896
24x20"	300	5,340	4,998

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ CON RED BB			
30x12"	705	13,809	POA
30x16"	732	8,796	POA
30x18"	628	9,048	POA
30x20"	478	8,678	POA
30x24"	1,037	13,811	10,145
36x12"	1,078	17,486	POA
36x16"	1,078	11,409	POA
36x20"	975	12,706	POA
36x24"	846	10,609	13,916
36x30"	650	11,318	15,032
42x24"	1,356	18,090	24,825
42x30"	1,083	15,781	29,623
42x36"	1,114	21,585	36,284
48x24"	1,700	21,913	42,357
48x30"	1,779	25,769	43,317
48x36"	1,641	21,585	44,022
48x42"	1,462	30,848	44,502

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AWWA C153 MJ FITTINGS



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ CON RED SEB			
04x03"	17	431	332
06x03"	24	687	438
06x04"	25	615	438
08x04"	30	877	621
08x06"	35	854	639
10x04"	43	1,142	881
10x06"	46	1,153	935
10x08"	42	1,192	1,080
12x04"	60	1,473	1,245
12x06"	58	1,506	1,260
12x08"	54	1,353	1,281
12x10"	59	1,465	1,320
14x06"	100	2,180	1,327
14x08"	98	2,249	1,355
14x10"	94	2,317	1,721
14x12"	90	2,384	1,728
16x06"	125	2,585	2,060
16x08"	121	2,499	2,110
16x10"	105	2,516	2,234
16x12"	109	2,395	2,343
16x14"	126	2,638	2,474
18x08"	170	2,939	2,636
18x10"	165	3,028	2,643
18x12"	150	3,048	2,702
18x14"	175	3,345	2,879
18x16"	170	4,200	2,987
20x08"	205	POA	POA
20x10"	200	4,248	3,439
20x12"	170	3,425	2,872
20x14"	190	3,839	3,062
20x16"	185	3,606	3,172
20x18"	200	4,708	3,320
24x08"	290	4,950	POA
24x12"	275	4,951	4,120
24x14"	310	4,099	4,702
24x16"	285	5,068	4,315
24x18"	300	5,738	4,710
24x20"	270	7,961	4,770
30x24"	495	10,714	POA
36x16"	620	13,733	POA
36x20"	874	14,288	POA
36x24"	746	11,996	POA
36x30"	725	13,955	POA
42x30"	931	16,526	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C153 MJ CON RED LEB			
04x03"	18	461	376
06x03"	19	673	486
06x04"	25	719	486
08x04"	34	887	621
08x06"	32	828	634
10x04"	43	1,135	911
10x06"	42	1,153	944
10x08"	50	1,202	1,010
12x04"	60	1,620	1,228
12x06"	58	1,448	1,252
12x08"	55	1,473	1,275
12x10"	59	1,494	1,314
14x06"	104	1,882	1,698
14x08"	98	1,933	1,765
14x10"	92	1,987	1,874
14x12"	92	2,037	2,060
16x06"	136	2,720	2,260
16x08"	128	2,823	2,260
16x10"	123	2,585	2,295
16x12"	108	2,253	2,366
16x14"	132	2,668	2,433
18x08"	145	3,230	2,953
18x10"	155	3,342	3,053
18x12"	175	3,345	3,149
18x14"	190	3,766	3,326
18x16"	190	3,544	3,336
20x10"	210	4,026	3,286
20x12"	205	4,845	3,426
20x14"	205	3,971	3,462
20x16"	200	4,812	3,546
20x18"	230	4,160	POA
24x12"	290	5,126	4,572
24x14"	315	5,527	5,008
24x16"	285	5,068	5,086
24x20"	283	8,777	POA

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AWWA C153 MJ FITTINGS



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SIZE WEIGHT LIST IMPORT LIST DOMESTIC

C153 MJ PLUG			
03"	6	287	280
04"	9	334	280
06"	21	547	455
08"	29	769	617
10"	42	1,186	778
12"	57	1,277	968
14"	76	1,802	1,679
16"	104	2,222	2,076
18"	164	2,767	2,712
20"	153	3,468	3,448
24"	202	4,650	4,536
30"	548	8,449	7,650
36"	884	12,593	11,252
42"	1,091	17,120	16,251
48"	1,455	23,091	21,235

C153 MJ CAP			
03"	8	258	264
04"	10	315	264
06"	19	502	408
08"	27	720	565
10"	36	907	691
12"	45	1,215	901
14"	85	1,397	1,286
16"	93	1,753	1,672
18"	122	2,149	2,067
20"	162	2,631	2,421
24"	202	3,459	3,318
30"	345	6,811	7,946
36"	853	11,571	13,768
42"	893	16,989	14,571
48"	1,076	20,355	POA

SIZE WEIGHT LIST IMPORT LIST DOMESTIC

C153 MJ PLUG 2" TAP			
03x2"	6	454	350
04x2"	9	454	350
06x2"	21	668	549
08x2"	29	891	776
10x2"	42	1,304	934
12x2"	57	1,397	1,195
14x2"	76	1,965	1,838
16x2"	100	2,387	2,341
18x2"	164	2,981	3,082
20x2"	153	3,679	3,655
24x2"	202	4,861	4,800
30x2"	548	8,768	7,824
36x2"	884	12,911	11,585
42x2"	1,091	18,389	16,652
48x2"	1,455	23,853	23,898

C153 MJ CAP 2" TAP			
03x2"	8	374	332
04x2"	10	435	332
06x2"	19	622	484
08x2"	27	841	653
10x2"	36	1,029	790
12x2"	45	1,336	1,059
14x2"	85	1,563	1,443
16x2"	93	1,919	1,883
18x2"	122	2,358	2,221
20x2"	162	2,842	2,685
24x2"	202	3,672	3,474
30x2"	345	7,130	8,329
36x2"	853	11,885	14,150
42x2"	893	17,896	POA
48x2"	1,076	20,779	POA

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AWWA C153 MJ FITTINGS



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SIZE WEIGHT LIST IMPORT LIST DOMESTIC

SIZE WEIGHT LIST IMPORT LIST DOMESTIC

C153 MJ SLEEVE LP			
03"	16	443	343
04"	24	443	343
06"	40	714	513
08"	54	1,045	677
10"	71	1,277	913
12"	84	1,622	1,178
14"	131	2,168	1,983
16"	163	2,625	2,443
18"	207	3,296	3,124
20"	251	3,858	3,711
24"	322	4,916	4,995
30"	761	8,861	11,636
36"	1,007	11,598	15,457
42"	1,116	15,409	21,460
48"	1,384	23,592	26,485

C153 MJ SLEEVE SP			
03"	12	341	303
04"	17	404	303
06"	29	641	461
08"	38	850	617
10"	49	1,227	817
12"	60	1,432	960
14"	111	2,136	1,657
16"	123	2,564	2,011
18"	160	3,205	2,524
20"	195	3,785	3,009
24"	225	4,850	4,016
30"	500	8,727	9,521
36"	725	11,534	12,787
42"	877	15,806	POA
48"	1,406	19,464	POA

C153 MJ X FLG ADAPTER			
03"	18	470	366
04"	24	470	366
06"	34	683	526
08"	50	959	726
10"	76	1,397	1,119
12"	88	1,735	1,318
14"	127	2,409	2,028
16"	155	2,753	2,254
18"	206	3,890	3,085
20"	275	4,527	3,690
24"	324	5,528	4,184
30"	420	9,180	8,676
36"	750	12,657	17,161
42"	1,214	29,851	16,964
48"	1,492	41,149	POA

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AWWA C110 MJ FITTINGS



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C110 MJ 90 BEND			
03"	35	740	613
04"	55	740	613
06"	85	1,132	910
08"	125	1,709	1,639
10"	190	2,763	2,226
12"	255	3,096	3,083
14"	340	5,301	4,107
16"	430	6,309	5,132
18"	545	9,059	7,416
20"	680	10,213	10,618
24"	1,025	12,105	14,144
30"	1,690	22,294	31,856
36"	2,475	30,078	42,476
42"	3,410	53,275	60,370
48"	4,595	72,123	81,349

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C110 MJ 45 BEND			
03"	30	697	569
04"	50	697	569
06"	75	1,045	818
08"	110	1,479	1,167
10"	155	2,186	2,059
12"	215	2,725	2,631
14"	270	4,147	4,291
16"	340	5,099	4,434
18"	420	6,566	5,593
20"	530	6,652	7,445
24"	755	9,351	10,244
30"	1,380	17,963	25,314
36"	2,095	26,357	37,043
42"	2,955	46,531	52,316
48"	4,080	63,595	73,545

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C110 MJ 22.5 BEND			
03"	30	789	643
04"	50	789	643
06"	75	1,083	923
08"	110	1,955	1,382
10"	160	2,371	2,067
12"	220	2,886	2,541
14"	275	4,207	3,710
16"	345	5,181	4,235
18"	430	6,533	5,709
20"	535	8,307	8,550
24"	765	9,398	11,035
30"	1,400	17,380	26,755
36"	2,135	25,748	35,485
42"	3,020	47,496	62,306
48"	4,170	64,930	73,824

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C110 MJ 11.25 BEND			
03"	30	789	633
04"	50	789	633
06"	75	1,187	864
08"	110	1,532	1,332
10"	160	2,371	2,058
12"	220	3,189	2,541
14"	275	4,207	4,427
16"	345	5,181	4,551
18"	430	6,702	6,216
20"	540	8,334	9,047
24"	770	11,055	12,001
30"	1,410	25,748	25,341
36"	2,145	31,179	37,866
42"	3,035	47,715	POA
48"	4,190	65,229	74,180

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AWWA C110 MJ FITTINGS



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C110 MJ TEE			
03"	55	1,109	918
04x03"	75	1,098	918
04"	80	1,109	918
06x03"	110	1,558	1,311
06x04"	115	1,613	1,311
06"	125	1,547	1,396
08x03"	155	2,264	2,023
08x04"	165	2,275	2,023
08x06"	175	2,110	2,023
08"	185	2,137	2,260
10x04"	235	3,374	2,320
10x06"	250	3,349	2,910
10x08"	260	3,454	3,018
10"	310	4,004	3,323
12x04"	315	4,237	3,575
12x06"	325	3,900	3,654
12x08"	340	4,510	3,746
12x10"	390	5,237	4,704
12"	410	5,286	4,344
14x06"	435	6,139	7,625
14x08"	450	6,319	7,862
14x10"	465	6,500	9,002
14x12"	495	6,863	9,002
14"	520	7,163	9,570
16x06"	540	7,528	7,440
16x08"	550	7,647	7,795
16x10"	570	7,892	8,350
16x12"	590	8,131	8,606
16x14"	620	8,494	8,521
16"	650	9,175	8,223
18x06"	590	8,527	8,716
18x08"	605	8,718	8,921
18x10"	620	8,900	11,825
18x12"	640	9,150	10,267
18x14"	755	10,583	20,694
18x16"	785	10,957	22,099
18"	820	11,389	11,348
20x06"	725	11,203	9,488
20x08"	735	12,764	9,510
20x10"	755	10,717	18,571
20x12"	775	10,811	11,830
20x14"	795	11,212	19,257
20x16"	945	12,914	12,973
20x18"	985	13,577	23,935
20"	1,020	11,639	14,516
24x06"	985	13,842	13,732
24x08"	1,000	14,024	14,479

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C110 MJ TEE			
24x10"	1,020	POA	23,847
24x12"	1,030	14,396	14,980
24x14"	1,055	14,710	15,227
24x16"	1,075	15,074	15,498
24x18"	1,400	19,005	19,515
24x20"	1,450	22,684	20,065
24"	1,535	23,853	24,894
30x06"	1,730	25,047	29,453
30x08"	1,745	25,243	29,736
30x10"	1,760	25,442	31,711
30x12"	1,780	25,712	30,272
30x14"	1,800	36,557	46,226
30x16"	1,820	36,453	31,542
30x18"	1,845	26,578	31,963
30x20"	1,875	26,981	30,205
30x24"	2,400	33,983	41,248
30"	2,595	38,012	44,509
36x06"	2,500	37,079	42,990
36x08"	2,520	35,976	42,990
36x10"	2,535	37,181	
36x12"	2,550	36,381	43,391
36x14"	2,570	36,646	44,310
36x16"	2,585	30,561	44,096
36x18"	2,610	37,181	POA
36x20"	2,635	37,512	45,399
36x24"	2,690	38,245	46,315
36x30"	3,545	49,652	60,622
36"	3,745	43,014	60,546
42x12"	3,555	55,426	64,082
42x14"	3,575	55,717	85,923
42x16"	3,595	56,017	86,404
42x18"	3,615	99,113	86,884
42x20"	3,640	93,453	87,485
42x24"	3,690	57,426	66,514
42x30"	4,650	71,657	83,818
42x36"	4,880	92,774	87,965
42"	6,320	96,407	113,922
48x12"	4,870	104,919	87,785
48x14"	4,885	110,281	118,082
48x16"	4,905	115,477	117,889
48x18"	4,925	121,392	118,370
48x20"	4,950	127,609	118,970
48x24"	4,995	77,160	90,039
48x30"	5,140	79,308	92,653
48x36"	6,280	96,206	113,201
48x42"	8,130	123,625	146,548
48"	8,420	127,922	151,776

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AWWA C110 MJ FITTINGS



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C110 MJ x FLG TEE			
04"	74	1,256	923
06x03"	107	1,877	POA
06x04"	109	1,832	1,494
06"	115	1,954	1,429
08x04"	159	2,218	1,932
08x06"	165	2,235	1,980
08"	175	2,647	2,209
10x04"	229	3,203	2,859
10x06"	240	3,123	3,163
10x08"	250	3,427	3,162
12x04"	309	4,347	3,950
12x06"	315	4,137	4,087
12x08"	330	4,299	4,120
12"	401	5,046	4,644
14x06"	475	POA	POA
14x08"	440	POA	POA
16x04"	575	8,233	7,279
16x06"	581	8,610	6,055
16x08"	591	8,737	7,816
16x12"	651	9,190	8,981
16"	584	10,179	9,582
18x06"	620	9,800	9,715
18x08"	634	9,928	9,873
18x12"	735	10,318	9,859
18"	820	13,043	12,516
20x06"	715	11,625	POA
20x08"	835	12,132	12,096
20"	1,179	16,415	15,822
24x06"	975	16,155	16,142
24x08"	1,150	16,345	16,382
24x12"	1,165	16,674	16,722
24x18"	1,354	16,726	POA
24"	1,550	24,844	18,875
30x06"	1,725	25,717	POA
30x08"	1,740	28,179	POA
30"	3,080	POA	36,962
36x06"	2,495	37,079	43,605
36x08"	2,510	49,560	POA
36x12"	2,287	50,036	45,368
36x16"	2,450	36,495	42,007
36x24"	2,660	40,411	49,142
36x30"	2,964	116,571	POA
36"	3,461	116,723	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C110 MJ x FLG ADAPTER			
03"	40	801	800
04"	40	1,056	800
06"	60	1,465	833
08"	85	1,505	1,164
10"	115	2,721	1,552
12"	155	2,804	1,920
14"	195	4,154	2,955
16"	240	4,382	3,123
18"	280	4,638	3,946
20"	340	6,230	5,431
24"	455	7,500	7,000
30"	760	12,511	13,777
36"	1,070	17,210	POA
42"	1,505	25,036	POA
48"	1,885	30,415	POA

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AWWA C110 MJ FITTINGS



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
429			
C110 MJ CROSS			
04"	105	1,363	1,341
06x04"	140	1,981	633
06"	160	2,090	1,804
08x04"	185	2,585	2,305
08x06"	205	2,807	2,522
08"	235	3,023	2,817
10x04"	260	5,611	3,937
10x06"	285	3,826	3,431
10x08"	310	4,110	3,761
10"	380	4,889	4,502
12x04"	340	4,763	4,702
12x06"	360	4,795	4,360
12x08"	385	5,009	4,109
12x10"	460	9,487	5,837
12"	495	6,217	5,672
14x06"	475	8,683	8,335
14x08"	500	6,319	5,761
14x10"	540	11,927	8,865
14x12"	585	11,927	9,879
14"	635	8,550	10,079
16x4"	575	11,822	1,590
16x06"	575	7,954	7,293
16x08"	605	8,315	7,643
16x10"	645	12,856	11,518
16x12"	685	10,468	11,781
16x14"	735	20,049	12,795
16"	790	10,545	10,227
18x06"	625	11,848	11,189
18x08"	655	9,082	9,144
18x10"	685	9,710	9,530
18x12"	725	10,208	10,053
18x14"	870	17,822	14,528
18x16"	930	18,256	15,713
18"	995	13,574	13,549
20x06"	760	20,036	13,640
20x08"	790	11,000	9,702
20x10"	820	15,187	13,695
20x12"	860	12,020	14,730
20x14"	905	17,388	15,592
20x16"	1,085	14,824	14,717
20x18"	1,155	19,989	20,452
20"	1,230	16,629	18,430
24x06"	1,025	14,157	21,022
24x08"	1,045	14,587	14,414
24x10"	1,085	21,727	20,788

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
10253			
C110 MJ CROSS			
24x12"	1,110	15,384	14,604
24x14"	1,155	19,449	23,019
24x16"	1,200	16,517	24,278
24x18"	1,590	25,935	31,595
24x20"	1,675	22,433	23,040
24"	1,835	24,421	24,839
30x06"	1,770	25,580	30,705
30x08"	1,795	31,759	54,508
30x10"	1,830	33,346	54,493
30x12"	1,865	26,846	37,317
30x14"	1,905	56,510	54,862
30x16"	1,950	51,045	51,302
30x18"	2,000	51,148	52,586
30x20"	2,060	46,348	56,877
30x24"	2,675	37,657	45,849
30"	3,075	42,989	52,540
36x08"	2,565	POA	44,079
36x10"	2,600	POA	63,828
36x12"	2,630	37,978	44,491
36x14"	2,665	46,060	66,435
36x16"	2,705	65,366	67,760
36x18"	2,750	70,797	69,089
36x20"	2,805	66,636	76,284
36x24"	2,910	66,312	79,169
36x30"	3,965	82,021	79,403
36"	4,370	60,660	77,880
42x12"	3,640	POA	79,403
42x14"	3,675	POA	88,327
42x16"	3,715	POA	89,207
42x18"	3,755	POA	90,250
42x20"	3,810	POA	91,569
42x24"	3,910	162,277	98,424
42x30"	5,040	204,900	124,274
42x36"	5,425	251,106	152,300
42"	7,145	267,789	162,418
48x12"	4,955	POA	89,319
48x14"	4,985	POA	119,814
48x16"	5,025	POA	120,773
48x18"	5,065	POA	121,734
48x20"	5,115	POA	122,936
48x24"	5,210	104,747	93,914
48x30"	5,495	110,249	99,049
48x36"	6,790	106,425	122,396
48x42"	8,815	154,704	158,895
48"	9,390	199,137	169,260

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AWWA C110 MJ FITTINGS



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C110 MJ WYE			
04"	95	1,262	1,037
06x04"	135	1,896	1,508
06"	150	2,253	1,651
08x04"	190	2,640	2,355
08x06"	205	2,807	1,518
08"	225	2,849	2,562
10x04"	270	6,978	4,725
10x06"	285	3,826	3,959
10x08"	305	4,052	4,140
10"	375	4,834	5,096
12x04"	375	6,280	6,817
12x06"	390	7,331	7,100
12x08"	415	5,523	6,936
12x10"	500	9,404	7,371
12"	535	6,754	5,920
14x06"	540	7,706	8,877
14x08"	565	9,244	11,929
14x10"	595	12,917	12,198
14x12"	630	14,484	12,385
14"	690	9,999	13,186
16x06"	700	10,304	13,515
16x08"	720	10,607	14,231
16x10"	755	11,918	15,084
16x12"	790	12,495	14,618
16"	905	11,751	14,192
18x06"	865	10,419	1,831
18x08"	890	12,886	13,546
18x10"	925	14,503	14,522
18x12"	960	15,250	1,529
18x14"	1,015	26,505	21,914
18x16"	1,070	15,500	15,556
18"	1,135	16,121	15,236
20x08"	657	25,432	4,624
20x10"	683	16,442	19,322
20x12"	1,190	16,129	15,223
20x14"	1,250	30,425	25,857
20x16"	1,300	15,858	17,868
20x18"	1,365	30,957	28,717
20"	1,435	20,302	19,293
24x06"	1,175	30,755	POA
24x08"	1,870	35,112	POA
24x12"	1,700	42,150	43,170
24x14"	1,760	27,890	41,590
24x16"	1,815	47,782	44,720
24x18"	1,880	48,624	44,226

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C110 MJ WYE			
24x20"	1,950	40,038	47,735
24"	2,115	29,530	26,780
30x12"	2,850	68,325	47,839
30x14"	2,915	POA	66,094
30x16"	2,975	57,337	81,172
30x18"	3,040	59,194	68,769
30x20"	3,115	51,599	70,630
30x24"	3,280	55,127	89,147
30"	3,670	53,621	57,626
36x12"	4,895	94,735	77,692
36x14"	4,970	94,279	112,689
36x16"	5,040	84,025	114,275
36x18"	5,120	90,040	116,090
36x20"	5,205	77,623	118,017
36x24"	5,390	72,336	84,719
36x30"	5,805	84,732	92,134
36"	6,335	95,419	100,546
42x20"	6,655	POA	150,895
42x24"	6,810	106,118	108,086
42x30"	7,280	112,354	115,544
42x36"	8,355	130,198	132,607
42"	9,900	166,547	156,765
48x20"	6,545	163,770	148,400
48x24"	7,430	POA	117,927
48x30"	7,925	172,657	125,782
48x36"	9,065	POA	143,876
48x42"	11,940	POA	189,507
48"	11,885	175,149	188,634

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AWWA C110 MJ FITTINGS



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
569			
C110 MJ CON RED			
04x03"	40	684	566
06x03"	55	972	842
06x04"	60	943	842
08x04"	80	1,433	1,126
08x06"	95	1,397	1,219
10x04"	105	1,877	1,436
10x06"	115	1,885	1,535
10x08"	135	2,104	1,767
12x04"	135	2,352	1,811
12x06"	150	2,747	1,896
12x08"	165	2,583	2,142
12x10"	190	2,859	2,541
14x06"	190	3,183	2,369
14x08"	210	3,036	2,761
14x10"	230	3,323	3,371
14x12"	255	3,967	3,624
16x06"	230	3,794	3,266
16x08"	250	4,655	3,501
16x10"	280	4,325	3,850
16x12"	305	5,146	3,617
16x14"	335	5,059	4,493
18x08"	295	4,855	4,481
18x10"	320	5,226	4,868
18x12"	350	5,538	5,181
18x14"	380	5,912	5,581
18x16"	415	6,349	6,020
20x06"	365	9,965	POA
20x08"	370	8,346	POA
20x10"	375	5,914	5,870
20x12"	405	6,357	5,980
20x14"	430	8,810	7,560
20x16"	470	7,162	6,820
20x18"	510	7,663	7,406
24x08"	575	10,796	POA
24x12"	550	8,420	8,760
24x14"	575	POA	12,322
24x16"	615	9,232	11,226
24x18"	660	9,790	10,817
24x20"	705	10,351	11,488
30x12"	920	13,574	POA
30x16"	985	15,105	17,535
30x18"	990	15,173	17,617
30x20"	1,050	15,972	18,662

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
685			
C110 MJ CON RED			
30x24"	1,165	17,507	20,541
36x20"	1,450	21,703	25,060
36x24"	1,580	23,436	26,859
36x30"	1,855	27,104	31,521
42x20"	1,915	POA	46,028
42x24"	2,060	33,263	37,135
42x30"	2,370	37,856	42,721
42x36"	2,695	42,000	47,770
48x18"	2,400	POA	1,791
48x20"	2,485	POA	1,533
48x24"	2,645	47,231	47,678
48x30"	3,005	47,662	54,167
48x36"	3,370	52,823	60,746
48x42"	3,750	58,777	67,597

PROTECTO 401

AWWA C110 MJ FITTINGS



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SIZE WEIGHT LIST IMPORT LIST DOMESTIC

SIZE WEIGHT LIST IMPORT LIST DOMESTIC

C110 MJ CON RED SEB			
04x03"	35	666	524
06x03"	50	969	922
06x04"	60	1,082	922
08x04"	80	1,443	1,182
08x06"	90	1,561	1,182
10x06"	115	1,973	1,630
10x08"	130	2,149	1,834
12x04"	130	2,275	1,866
12x06"	150	2,511	2,071
12x08"	168	2,687	2,102
12x10"	190	2,978	2,317
16x08"	230	3,900	3,266
16x12"	285	4,590	3,909
16x14"	310	8,136	4,859
18x12"	325	5,392	4,957
20x08"	345	10,195	POA
20x12"	375	6,165	5,591
20x16"	435	6,946	7,004
24x12"	510	8,179	7,776
24x14"	535	11,714	11,781
24x16"	575	13,173	95,868
24x18"	620	9,021	10,241
24x20"	665	9,606	10,913
30x16"	885	14,458	13,661
30x18"	885	14,251	15,903
30x20"	945	15,084	16,907
30x24"	1,060	16,679	18,828
36x20"	1,285	32,176	40,241
36x24"	1,410	36,469	43,127
36x30"	1,690	25,827	29,058
42x20"	1,705	POA	POA
42x24"	1,855	POA	POA
42x30"	2,165	50,603	POA
42x36"	2,485	54,045	POA
48x18"	2,134	POA	POA
48x20"	2,220	POA	POA
48x24"	2,380	POA	POA
48x30"	2,740	POA	POA
48x36"	3,100	48,306	POA
48x42"	3,480	POA	POA

C110 MJ CON RED LEB			
06x04"	60	1,082	866
08x03"	70	1,400	1,058
08x04"	80	1,443	1,208
08x06"	93	1,652	1,213
10x06"	115	1,973	1,642
10x08"	130	2,149	1,876
12x04"	135	2,938	POA
12x06"	145	2,454	2,108
12x08"	165	2,687	2,236
12x10"	185	2,923	1,372
14x08"	205	POA	3,135
16x12"	305	4,843	4,144
20x10"	375	7,688	6,453
20x16"	445	7,073	7,148
24x16"	595	9,278	9,868
24x20"	675	10,318	11,064
30x16"	910	20,534	26,144
30x18"	965	20,753	26,672
30x20"	1,020	14,902	27,462
30x24"	1,125	17,587	19,917
36x20"	1,420	22,070	34,861
36x24"	1,535	23,674	26,516
36x30"	1,750	24,128	30,074
42x20"	1,880	POA	POA
42x24"	2,020	POA	POA
42x30"	2,265	55,117	POA
42x36"	2,530	61,090	POA
48x18"	2,375	POA	POA
48x20"	2,455	POA	POA
48x24"	2,605	POA	POA
48x30"	2,900	POA	POA
48x36"	3,205	POA	42,544
48x42"	3,540	103,982	POA

PROTECTO 401

AWWA C110 MJ FITTINGS



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SIZE WEIGHT LIST IMPORT LIST DOMESTIC
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SIZE WEIGHT LIST IMPORT LIST DOMESTIC

C110 MJ PLUG			
03"	10	419	313
04"	15	419	313
06"	25	650	468
08"	45	993	686
10"	65	1,339	1,046
12"	85	1,700	1,136
14"	115	2,277	1,447
16"	145	2,725	2,229
18"	185	2,667	2,312
20"	225	4,256	3,374
24"	335	5,742	5,010
30"	575	9,636	10,492
36"	815	13,230	13,755
42"	1,110	19,182	23,583
48"	1,455	24,684	25,758
2,220			

C110 MJ PLUG 2" NPT			
03"	10	481	360
04"	15	596	360
06"	25	837	520
08"	45	1,181	746
10"	65	1,543	962
12"	85	1,909	1,330
14"	115	2,507	1,606
16"	145	2,965	2,386
18"	185	2,900	2,475
20"	225	4,554	3,536
24"	335	6,084	5,165
30"	575	10,121	10,941
36"	815	13,845	15,073
42"	1,110	19,358	23,914
48"	1,455	24,865	28,022

C110 MJ CAP			
03"	12	419	332
04"	15	419	332
06"	25	617	502
08"	45	929	677
10"	60	1,286	864
12"	80	1,644	1,084
14"	115	POA	2,429
16"	150	2,828	2,627
18"	185	3,329	2,920
20"	240	4,256	3,833
24"	345	5,868	5,557
30"	590	9,836	10,965
36"	850	13,695	14,575
42"	1,180	20,222	21,728
48"	1,595	26,763	28,686

C110 MJ CAP 2" NPT			
03"	12	504	394
04"	15	596	394
06"	25	838	619
08"	45	1,212	729
10"	60	1,634	921
12"	80	1,903	1,134
14"	115	POA	2,736
16"	150	2,965	2,784
18"	185	3,505	3,083
20"	240	4,437	3,998
24"	345	6,045	5,714
30"	590	10,458	POA
36"	850	14,319	POA
42"	1,180	20,401	POA
48"	1,595	26,940	POA

PROTECTO 401

AWWA C110 MJ FITTINGS



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C110 MJ SLEEVE LP			
03"	30	675	613
04"	45	675	613
06"	65	989	736
08"	85	1,259	967
10"	115	1,924	1,613
12"	145	2,211	2,002
14"	195	3,242	2,894
16"	235	3,666	3,652
18"	285	4,975	4,005
20"	325	5,157	4,548
24"	425	6,644	7,289
30"	1,088	13,879	17,452
36"	1,052	18,453	19,655
42"	1,550	POA	27,442
48"	1,940	POA	34,347

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
C110 MJ SLEEVE SP			
03"	25	POA	496
04"	35	633	496
06"	45	805	691
08"	65	1,119	937
10"	85	1,558	1,208
12"	110	1,975	1,629
14"	180	3,442	2,787
16"	215	2,959	2,894
18"	240	3,858	3,446
20"	320	4,302	4,217
24"	745	6,187	5,911
30"	1,049	12,025	13,070
36"	1,115	16,090	14,386
42"	1,385	POA	POA
48"	1,455	POA	24,968

PROTECTO 401

AWWA C110 FLANGED FITTINGS



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG 90 BEND			
03"	25	668	577
04"	45	668	577
06"	65	1,023	781
08"	105	1,549	1,312
10"	165	2,270	2,291
12"	235	2,889	3,201
14"	290	3,614	6,010
16"	370	4,435	8,436
18"	450	5,780	10,954
20"	580	7,034	15,111
24"	900	10,833	21,465
30"	1,430	17,082	26,176
36"	2,135	25,874	38,890
42"	3,055	45,153	60,662
48"	4,090	59,922	85,555

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG LR90 BEND			
03"	30	826	828
04"	50	826	828
06"	80	1,368	1,198
08"	140	2,139	2,101
10"	215	3,031	3,315
12"	325	4,367	3,194
14"	385	5,162	7,865
16"	505	6,599	12,512
18"	630	8,358	13,195
20"	810	11,218	15,317
24"	1,240	16,693	38,163
30"	2,105	29,377	50,789
36"	3,285	45,062	55,638
42"	4,865	70,112	POA
48"	7,280	97,089	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG BASE 90 BEND			
03"	35	879	931
04"	55	879	931
06"	85	1,266	1,196
08"	145	2,210	1,947
10"	210	2,978	2,746
12"	300	4,082	3,999
14"	360	4,887	6,330
16"	445	5,948	8,856
18"	565	7,633	11,224
20"	700	9,888	13,915
24"	1,030	14,158	22,206
30"	1,625	23,169	30,305
36"	2,385	33,427	42,729
42"	3,465	59,919	69,861
48"	4,610	67,026	90,921

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG LR BASE 90 BEND			
03"	38	641	948
04"	65	932	948
06"	110	1,508	1,434
08"	195	2,516	2,644
10"	280	3,523	3,598
12"	420	5,367	3,971
14"	490	5,508	10,013
16"	615	9,147	14,638
18"	800	10,261	17,709
20"	985	13,329	23,548
24"	1,430	18,984	35,931
30"	2,400	33,187	POA
36"	3,680	50,169	60,946
42"	5,515	84,478	POA
48"	7,635	116,286	POA

PROTECTO 401

AWWA C110 FLANGED FITTINGS



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SIZE WEIGHT LIST IMPORT LIST DOMESTIC

SIZE WEIGHT LIST IMPORT LIST DOMESTIC

FLG 45 BEND

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
03"	20	624	748
04"	40	624	748
06"	55	951	714
08"	90	1,376	1,114
10"	130	2,020	1,905
12"	195	2,566	2,740
14"	220	3,029	3,406
16"	280	3,720	4,308
18"	325	4,940	5,642
20"	430	6,211	8,656
24"	630	8,345	15,092
30"	1,120	16,639	21,178
36"	1,755	25,283	31,938
42"	2,600	38,878	52,566
48"	3,575	52,824	69,360

FLG 22.5 BEND

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
03"	20	623	615
04"	40	623	615
06"	55	928	839
08"	90	1,362	1,110
10"	135	1,962	1,539
12"	205	2,695	2,126
14"	225	3,424	2,678
16"	285	3,811	4,553
18"	335	5,052	5,882
20"	435	6,693	8,089
24"	640	9,452	9,453
30"	1,135	16,834	21,113
36"	1,755	25,733	33,490
42"	2,665	39,774	POA
48"	3,665	53,995	POA

FLG 11.25 BEND

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
03"	20	697	723
04"	40	697	723
06"	55	1,066	1,009
08"	90	1,417	1,326
10"	135	2,163	1,893
12"	205	3,066	2,710
14"	225	3,517	3,176
16"	285	4,212	5,288
18"	335	5,052	5,208
20"	435	6,693	9,002
24"	640	9,845	13,327
30"	1,135	17,027	21,716
36"	1,755	25,930	32,649
42"	2,680	39,980	1,998
48"	3,690	54,410	3,290

PROTECTO 401

AWWA C110 FLANGED FITTINGS



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG REDUCING 90 BEND			
04x03"	29	596	545
06x03"	56	1,031	794
06x04"	55	1,019	794
08x04"	75	1,376	1,326
08x06"	85	1,485	1,415
10x04"	130	2,149	2,938
10x06"	135	2,163	1,846
10x08"	150	2,328	2,141
12x04"	140	POA	4,082
12x06"	160	2,574	2,461
12x08"	180	2,901	2,683
12x10"	200	3,010	3,001
14x06"	190	3,041	6,766
14x08"	215	3,317	6,558
14x10"	240	3,583	6,856
14x12"	270	3,911	11,985
16x06"	220	3,617	POA
16x08"	240	3,720	6,276
16x10"	280	4,154	6,501
16x12"	310	4,485	8,888
16x14"	335	4,752	13,047
18x06"	260	4,212	POA
18x08"	330	4,944	POA
18x10"	330	4,997	9,558
18x12"	350	5,222	10,843
18x14"	385	5,615	11,428
18x16"	420	6,004	12,658
20x06"	320	5,302	POA
20x08"	345	5,607	POA
20x10"	445	6,813	POA
20x12"	415	7,019	13,938
20x14"	455	7,694	13,181
20x16"	495	7,416	12,441
20x18"	525	7,777	19,505
24x06"	480	6,292	POA
24x08"	505	7,821	POA
24x10"	545	8,305	POA
24x12"	575	8,671	19,327
24x14"	635	9,393	17,651
24x16"	685	9,999	17,947
24x18"	675	10,118	18,971
24x20"	740	10,658	20,544

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG REDUCING 90 BEND			
30x12"	840	13,018	15,697
30x14"	809	24,736	17,787
30x16"	900	13,795	19,786
30x18"	980	24,038	21,545
30x20"	1,070	25,709	23,524
30x24"	1,200	17,741	22,426
36x12"	1,195	16,549	22,191
36x14"	1,215	22,011	26,509
36x16"	1,255	17,380	27,381
36x18"	1,295	23,259	28,253
36x20"	1,360	24,036	29,671
36x24"	1,585	23,083	29,393
36x30"	1,840	26,380	34,140
42x14"	1,675	30,614	36,121
42x16"	1,715	25,329	36,984
42x18"	1,755	34,851	37,846
42x20"	1,895	34,057	40,864
42x24"	1,980	29,246	39,922
42x30"	2,345	35,359	47,280
42x36"	3,390	51,192	68,348
48x12"	2,175	32,844	42,140
48x14"	2,195	40,422	45,485
48x16"	2,235	33,750	46,313
48x18"	2,275	49,916	47,142
48x20"	2,340	54,261	48,488
48x24"	3,240	47,713	62,773
48x30"	3,660	53,154	70,910
48x36"	3,255	54,632	63,063
48x42"	4,685	64,658	90,768

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG SIDE OUTLET 90 BEND			
03"	35	624	POA
04"	60	1,329	3,804
06"	96	2,090	4,303
08"	150	3,169	5,215
10"	235	4,789	8,561
12"	335	6,667	8,574
14"	405	8,020	12,246
16"	490	7,098	14,658
18"	580	8,117	21,644
20"	740	11,089	25,599
24"	1,145	15,977	POA

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SIZE WEIGHT LIST IMPORT LIST DOMESTIC

SIZE WEIGHT LIST IMPORT LIST DOMESTIC

FLG LONG RADIUS RED 90 BEND

04x03"	38	1,768	POA
06x03"	55	1,638	POA
06x04"	70	1,865	2,108
08x04"	100	3,309	4,444
08x06"	115	3,074	2,980
10x04"	195	3,469	4,957
10x06"	180	3,836	3,998
10x08"	215	3,961	5,244
12x04"	190	7,625	POA
12x06"	235	8,396	6,835
12x08"	285	6,333	7,098
12x10"	325	6,333	7,357
14x08"	285	8,603	10,907
14x10"	325	12,376	10,907
14x12"	370	8,114	12,317
16x08"	395	16,078	12,827
16x10"	395	15,924	12,706
16x12"	415	14,799	12,827
16x14"	460	14,660	13,535
18x12"	585	21,947	19,836
18x14"	535	21,588	19,645
18x16"	585	17,891	19,836
20x14"	760	26,156	14,856
20x16"	820	POA	13,891
20x18"	915	POA	POA
24x14"	875	37,251	28,187
24x16"	875	17,503	27,472
24x18"	875	21,861	27,719
24x20"	875	30,215	30,218
30x20"	1,664	69,227	POA
30x24"	1,675	69,695	39,409
36x24"	3,140	100,511	POA
36x30"	3,675	100,994	POA
42x30"	4,905	POA	POA
42x36"	4,270	POA	POA
48x30"	6,305	POA	POA
48x36"	7,145	POA	POA
48x42"	8,065	POA	POA

FLG x FLARE 90 BEND

03"	30	670	786
04"	45	770	786
06"	75	1,181	1,073
08"	120	1,865	1,678
10"	195	2,816	2,372
12"	275	3,500	3,409
14"	340	4,670	5,830
16"	460	6,109	12,023
18"	560	7,575	11,851
20"	700	9,888	14,784
24"	1,100	13,737	20,450
30"	1,970	27,632	48,984
36"	2,730	37,887	64,345
42"	3,200	47,150	POA
48"	5,235	75,645	POA

FLG x FLARE LONG RADIUS 90 BEND

03"	35	POA	POA
04"	50	1,318	POA
06"	90	2,178	2,534
08"	155	3,513	3,087
10"	250	5,388	3,948
12"	375	7,790	5,099
14"	500	10,190	13,470
16"	715	14,195	16,400
18"	800	16,406	28,686
20"	1,140	24,425	31,489
24"	1,335	28,663	35,856
30"	2,190	49,176	52,962
36"	3,465	76,668	83,153
42"	5,150	76,054	122,157
48"	6,725	98,702	153,285

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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG TEE			
03"	40	989	696
04x03"	60	956	696
04"	65	989	696
06x03"	85	1,378	1,358
06x04"	90	1,400	1,358
06"	95	1,303	1,170
08x03"	130	2,116	1,970
08x04"	140	1,933	1,970
08x06"	145	1,841	2,277
08"	155	2,037	2,264
10x03"	205	POA	POA
10x04"	205	2,673	2,887
10x06"	215	2,537	2,898
10x08"	225	2,631	3,098
10"	270	2,944	3,474
12x04"	290	3,523	3,966
12x06"	295	3,416	3,920
12x08"	310	3,555	4,318
12x10"	360	4,080	4,599
12"	385	4,106	4,767
14x04"	375	5,244	7,131
14x06"	375	5,048	9,174
14x08"	390	5,213	7,621
14x10"	400	5,321	9,522
14x12"	425	5,595	9,614
14"	435	5,700	10,350
16x04"	475	6,376	8,754
16x06"	465	5,213	9,949
16x08"	475	5,314	10,716
16x10"	495	6,443	9,817
16x12"	520	5,645	10,944
16x14"	530	6,870	10,554
16"	550	6,015	11,615
18x06"	480	6,023	13,404
18x08"	495	7,189	10,634
18x10"	510	7,018	10,240
18x12"	535	6,540	11,082
18x14"	630	8,246	13,893
18x16"	650	8,583	14,806
18"	665	7,817	14,790
20x06"	610	8,805	13,361
20x08"	620	8,924	12,523
20x10"	635	9,106	14,386
20x12"	660	9,410	14,065
20x14"	665	9,469	13,314

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG TEE			
20x16"	810	11,218	16,253
20x18"	820	11,337	16,536
20"	855	9,829	17,151
24x06"	845	10,238	18,672
24x08"	860	12,106	18,196
24x10"	880	12,346	17,543
24x12"	890	10,633	19,258
24x14"	900	12,507	18,034
24x16"	915	10,855	20,800
24x18"	1,220	16,451	25,947
24x20"	1,255	16,876	30,643
24"	1,330	15,041	21,611
30x06"	1,455	20,974	32,030
30x08"	1,475	21,037	37,132
30x10"	1,490	21,427	40,418
30x12"	1,490	21,427	39,932
30x14"	1,490	21,427	37,452
30x16"	1,505	21,619	39,276
30x18"	1,515	23,006	41,587
30x20"	1,540	22,068	43,731
30x24"	2,025	28,341	44,445
30"	2,150	25,161	46,248
36x06"	2,000	30,131	4,387
36x08"	2,150	30,389	4,608
36x10"	2,155	30,454	6,047
36x12"	2,170	30,648	80,095
36x14"	2,175	30,712	54,651
36x16"	2,185	30,842	37,098
36x18"	2,190	30,908	37,097
36x20"	2,210	31,164	37,989
36x24"	2,255	28,603	36,972
36x30"	3,000	37,274	46,946
36"	3,160	32,604	47,085
42x10"	3,145	POA	POA
42x12"	3,165	46,668	58,382
42x14"	3,170	46,740	POA
42x16"	3,180	46,873	75,255
42x18"	3,185	46,943	75,548
42x20"	3,205	47,219	POA
42x24"	3,245	47,770	59,340
42x30"	4,125	59,906	75,607
42x36"	5,360	76,937	98,244
42"	5,580	79,974	98,259

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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG TEE			
48x10"	4,295	POA	1,126
48x12"	4,315	62,961	76,000
48x14"	4,315	62,961	POA
48x16"	4,330	63,162	98,695
48x18"	4,330	63,162	98,695
48x20"	4,350	63,439	POA
48x24"	4,385	63,926	88,032
48x30"	4,455	64,889	89,267
48x36"	5,555	80,060	97,612
48x42"	7,195	102,676	126,723
48"	7,385	105,295	128,971

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG BULLHEAD TEE			
04x04x06"	88	POA	POA
06x06x08"	142	POA	POA
08x08x10"	240	POA	POA
10x10x12"	340	POA	POA
16x16x24"	993	POA	POA

FLG BASE TEE			
03"	45	720	920
04"	75	1,098	920
06"	110	1,620	1,568
08"	185	2,572	2,114
10"	300	3,955	4,232
12"	430	5,508	5,957
14"	550	6,246	9,903
16"	600	7,628	11,779
18"	740	9,588	15,247
20"	930	12,666	19,112
24"	1,410	18,744	24,825
30"	2,270	31,508	68,602
36"	3,320	45,512	64,029
42"	5,850	89,440	POA
48"	7,720	117,548	POA

FLG TRUE WYE			
3"	42	POA	917
04"	55	826	917
06x04"	60	1,029	1,356
06"	85	1,291	1,415
08x04"	85	1,453	5,377
08x06"	100	1,582	1,866
08"	140	2,084	1,983
10x06"	140	2,191	POA
10x08"	155	2,442	7,113
10"	185	2,898	7,411
12x06"	160	2,522	POA
12x08"	210	3,207	7,468
12x10"	240	3,665	POA
12"	300	4,580	8,818
14"	415	6,237	POA
16"	580	8,673	POA
18"	680	9,517	POA
20"	960	14,387	POA
24"	1,370	19,119	POA

FLG SLUDGE SHOE			
3	28	POA	785
4	42	POA	785
6	50	POA	947
8	69	POA	1,195
10	88	POA	1,411
12	120	POA	1,879

FLG SIDE OUTLET TEE			
3	60	POA	3,114
4	82	POA	3,114
6	135	POA	4,239
8	210	POA	6,536
10	330	POA	8,971
12	470	POA	15,972
14	650	POA	18,900
16	850	POA	21,141
18	1,040	POA	29,778
20	1,330	POA	34,872
24	3,080	POA	79,923

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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG CROSS			
03"	50	1,028	1,304
04x03"	70	1,073	1,304
04"	80	1,028	1,305
06x03"	95	1,492	1,753
06x04"	110	1,614	1,753
06"	120	1,635	1,872
08x03"	140	2,233	2,115
08x04"	155	2,245	2,115
08x06"	165	2,356	2,310
08"	195	2,372	2,672
10x04"	220	3,088	2,951
10x06"	240	3,306	2,406
10x08"	265	3,576	2,616
10"	330	4,277	4,270
12x04"	310	4,205	3,073
12x06"	320	4,313	3,156
12x08"	345	4,586	4,552
12x10"	415	5,345	4,230
12"	460	4,900	4,324
14x06"	400	5,321	7,882
14x08"	425	5,595	8,617
14x10"	460	5,971	9,287
14x12"	505	6,463	9,603
14"	530	6,731	12,174
16x06"	490	6,435	9,839
16x08"	520	6,759	12,263
16x10"	555	7,138	12,836
16x12"	605	7,683	13,982
16x14"	620	10,888	12,836
16"	665	8,335	13,758
18x06"	505	6,960	13,485
18x08"	535	7,294	13,688
18x10"	560	7,575	18,061
18x12"	610	8,136	12,222
18x14"	720	9,367	18,499
18x16"	765	9,874	19,617
18"	795	10,206	18,234
20x06"	635	9,106	15,950
20x08"	665	9,469	16,486
20x10"	685	9,710	16,544
20x12"	735	10,312	16,225
20x14"	745	10,435	19,470
20x16"	915	12,486	13,120
20x18"	945	12,847	22,264
20"	1,015	13,693	14,475

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG CROSS			
24x06"	875	12,288	15,907
24x08"	895	12,532	20,879
24x10"	930	12,952	21,275
24x12"	960	13,314	21,291
24x14"	975	13,496	19,140
24x16"	1,010	13,918	19,876
24x18"	1,365	18,202	33,266
24x20"	1,430	18,984	21,206
24"	1,570	20,673	23,143
30x12"	1,565	22,396	54,143
30x14"	1,570	22,460	POA
30x16"	1,605	22,910	37,824
30x18"	1,615	23,043	41,348
30x20"	1,670	23,752	42,753
30x24"	2,245	31,186	41,354
30"	2,500	34,480	46,029
36x12"	2,240	31,549	POA
36x14"	2,240	31,549	POA
36x16"	2,270	31,942	POA
36x18"	2,280	32,069	POA
36x20"	2,325	32,651	55,795
36x24"	2,405	33,684	44,599
36x30"	3,300	45,256	POA
36"	3,620	49,394	62,165
42x12"	3,240	47,850	POA
42x14"	3,240	47,850	POA
42x16"	3,270	48,294	POA
42x18"	3,275	47,234	POA
42x20"	3,320	49,031	POA
42x24"	3,395	50,139	62,226
42x30"	4,375	64,609	POA
42x36"	5,720	84,471	POA
42"	6,155	90,897	POA
48x12"	4,390	64,434	POA
48x14"	4,385	64,359	POA
48x16"	4,415	64,801	POA
48x18"	4,420	64,874	POA
48x20"	4,460	65,459	POA
48x24"	4,535	66,561	POA
48x30"	4,670	68,542	POA
48x36"	5,880	86,302	POA
48x42"	7,630	111,987	POA
48"	8,005	121,774	POA

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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
643			
FLG WYE			
03"	45	937	1,038
04x03"	65	1,018	1,095
04"	75	937	1,038
06x03"	100	1,622	1,461
06x04"	115	1,670	1,614
06"	120	1,474	2,087
08x04"	180	2,516	2,493
08x06"	189	2,437	2,654
08"	200	2,292	3,082
10x04"	260	3,523	3,738
10x06"	270	3,630	4,270
10x08"	295	3,902	4,457
10"	335	3,476	4,335
12x04"	380	4,964	4,476
12x06"	395	5,126	4,723
12x08"	420	5,072	4,594
12x10"	455	5,778	4,513
12"	515	5,091	4,513
14x06"	520	6,623	10,901
14x08"	545	6,896	10,961
14x10"	525	6,677	9,581
14x12"	620	7,708	10,318
14"	605	7,548	12,603
16x06"	620	7,845	11,316
16x08"	710	8,822	11,696
16x10"	740	9,146	12,269
16x12"	715	8,876	12,922
16x14"	830	10,125	10,674
16"	805	9,854	14,508
18x06"	450	POA	POA
18x08"	625	8,305	14,090
18x10"	885	11,218	12,640
18x12"	930	11,722	17,085
18x14"	975	12,223	16,054
18x16"	1,025	12,784	16,873
18"	980	12,278	17,571
20x08"	740	10,348	POA
20x10"	805	11,158	18,666
20x12"	1,110	14,838	19,240
20x14"	1,215	16,104	17,142
20x16"	1,270	16,768	17,925
20x18"	1,200	16,818	23,719
20"	1,265	16,709	17,813

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG WYE			
24x06"	1,060	16,590	POA
24x08"	1,080	16,556	POA
24x10"	1,105	17,218	POA
24x12"	1,200	16,209	34,495
24x14"	1,750	17,577	38,249
24x16"	1,640	24,534	37,620
24x18"	1,855	23,315	41,206
24x20"	1,750	23,946	43,109
24"	1,905	24,717	30,469
30x12"	2,795	41,807	69,926
30x14"	2,850	41,807	POA
30x16"	2,905	42,321	81,360
30x18"	2,960	42,576	POA
30x20"	2,760	43,224	75,837
30x24"	3,040	43,597	POA
30"	3,225	43,857	POA
36x12"	4,490	63,782	POA
36x14"	4,545	63,917	POA
36x16"	4,455	64,248	POA
36x18"	4,670	64,334	POA
36x20"	4,575	64,881	POA
36x24"	4,725	65,552	87,418
36x30"	5,200	74,690	POA
36"	5,740	76,800	87,658
42x12"	5,725	80,722	POA
42x14"	5,800	80,847	POA
42x16"	5,850	81,077	POA
42x18"	6,000	81,196	POA
42x20"	6,110	81,661	POA
42x24"	6,255	81,697	POA
42x30"	6,855	103,199	125,644
42x36"	7,650	108,808	POA
42"	9,170	138,655	168,075
48x12"	7,200	107,071	POA
48x14"	7,275	107,071	POA
48x16"	7,400	107,418	POA
48x18"	7,620	107,418	POA
48x20"	7,685	107,871	POA
48x24"	6,840	108,681	POA
48x30"	8,015	110,296	POA
48x36"	8,970	136,077	POA
48x42"	11,010	139,420	POA
48"	12,100	182,471	POA

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AWWA C110 FLANGED FITTINGS



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG CON RED			
04x03"	31	542	580
06x03"	40	850	841
06x04"	45	837	841
06x05"	51	978	1,250
08x03"	60	1,159	1,280
08x04"	65	1,181	1,134
08x05"	70	1,328	1,491
08x06"	75	1,242	1,193
10x04"	85	1,625	1,609
10x06"	90	1,584	1,467
10x08"	110	1,804	1,726
12x04"	120	2,142	1,830
12x06"	130	2,148	1,962
12x08"	145	2,306	2,221
12x10"	170	2,496	2,522
14x06"	155	2,666	2,467
14x08"	175	2,884	2,698
14x10"	190	3,067	3,863
14x12"	220	2,943	5,315
16x06"	190	3,181	3,479
16x08"	210	2,991	3,302
16x10"	235	3,223	3,598
16x12"	265	3,647	3,953
16x14"	280	4,154	5,040
18x08"	240	3,989	4,988
18x10"	265	4,270	5,409
18x12"	295	4,200	5,886
18x14"	305	4,773	6,378
18x16"	340	4,654	5,444
20x06"	300	5,064	
20x08"	280	4,881	
20x10"	310	5,182	7,563
20x12"	345	5,018	8,329
20x14"	355	5,729	8,493
20x16"	390	5,280	8,656
20x18"	410	6,394	10,027
24x08"	410	POA	POA
24x10"	470	POA	POA
24x12"	480	7,890	10,810
24x14"	490	8,051	10,107
24x16"	525	7,050	10,843
24x18"	550	8,366	11,416
24x20"	590	8,849	13,228

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG CON RED			
30x12"	770	12,654	POA
30x16"	780	12,245	18,083
30x18"	810	12,635	18,462
30x20"	870	13,410	18,893
30x24"	970	14,701	20,205
36x16"	1,115	17,698	26,759
36x18"	1,160	POA	27,774
36x20"	1,230	POA	29,519
36x24"	1,345	19,981	31,891
36x30"	1,555	22,700	51,738
42x20"	1,666	53,426	POA
42x24"	1,820	28,120	33,361
42x30"	2,060	31,431	36,984
42x36"	2,345	35,359	42,981
48x24"	2,335	POA	42,800
48x30"	2,625	39,652	46,234
48x36"	2,950	44,134	51,839
48x42"	3,320	49,237	POA

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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG ECC RED			
04x03"	30	608	700
06x03"	40	850	884
06x04"	45	913	884
06x05"	52	991	1,532
08x04"	65	1,269	1,250
08x05"	70	1,328	1,926
08x06"	75	1,376	1,393
10x04"	85	1,625	1,779
10x06"	95	1,678	1,881
10x08"	110	1,895	2,070
12x04"	120	2,142	2,248
12x06"	130	2,251	2,022
12x08"	145	2,413	2,181
12x10"	165	2,686	2,517
14x06"	155	2,666	7,326
14x08"	170	2,828	7,423
14x10"	195	3,041	7,569
14x12"	225	3,424	6,664
16x06"	190	3,181	3,479
16x08"	210	3,395	4,342
16x10"	235	3,671	4,761
16x12"	265	3,993	6,009
16x14"	280	4,154	5,040
18x08"	240	3,989	5,736
18x10"	265	4,270	5,643
18x12"	295	4,603	4,276
18x14"	305	4,773	4,616
18x16"	335	5,107	6,131
20x10"	310	5,182	6,449
20x12"	345	5,607	6,775
20x14"	355	5,729	6,686
20x16"	385	6,149	6,031
20x18"	410	6,389	8,184
24x08"	460	7,529	POA
24x10"	470	7,400	POA
24x12"	480	7,522	10,696
24x14"	490	7,642	10,213
24x16"	525	8,064	10,908
24x18"	550	8,366	12,836
24x20"	595	8,849	11,283

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG ECC RED			
30x10"	756	12,459	POA
30x14"	970	15,435	POA
30x16"	810	14,251	19,591
30x18"	815	12,698	19,664
30x20"	865	13,410	20,919
30x24"	965	14,701	20,378
36x14"	1,290	POA	POA
36x16"	1,115	POA	26,568
36x18"	1,160	POA	27,837
36x20"	1,225	POA	29,398
36x24"	1,340	19,913	25,864
36x30"	1,550	POA	28,468
42x20"	1,680	POA	POA
42x24"	1,810	28,120	39,033
42x30"	2,060	31,431	38,413
42x36"	2,345	35,359	43,415
48x24"	2,499	POA	44,016
48x30"	2,615	39,652	46,058
48x36"	2,940	44,134	48,902
48x42"	3,320	49,237	58,071

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AWWA C110 FLANGED FITTINGS



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SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG BLIND			
03"	16	373	290
04"	25	456	320
06"	42	697	502
08"	63	950	692
10"	85	1,431	918
12"	120	1,924	1,117
14"	145	2,709	1,941
16"	185	3,288	2,677
18"	245	4,554	2,763
20"	370	6,152	3,558
24"	500	9,153	6,753
30"	790	13,452	12,068
36"	1,175	25,811	16,596
42"	1,585	37,284	22,615
48"	2,100	49,895	29,247

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG BLIND 2" NPT			
03"	16	547	372
04"	25	547	372
06"	42	740	552
08"	63	1,125	745
10"	85	1,608	991
12"	120	2,101	1,198
14"	145	2,987	1,427
16"	185	3,565	2,825
18"	245	4,909	2,925
20"	370	6,512	3,722
24"	500	9,515	6,768
30"	790	13,993	12,440
36"	1,175	26,353	18,328
42"	1,585	38,004	POA
48"	2,100	50,617	POA

SIZE	WEIGHT	LIST IMPORT	LIST DOMESTIC
FLG X FLARE PIECE			
03"	20	POA	664
04"	30	609	664
06"	40	854	1,046
08"	70	1,325	1,284
10"	95	1,731	1,632
12"	155	2,523	2,245
14"	165	2,774	3,624
16"	240	3,720	4,059
18"	275	4,381	4,954
20"	355	5,741	8,329
24"	480	7,522	10,151
30"	1,100	16,727	24,797
36"	1,460	21,468	POA
42"	1,900	27,156	POA
48"	2,375	36,204	POA