



Ductile Iron MJ Compact Fittings

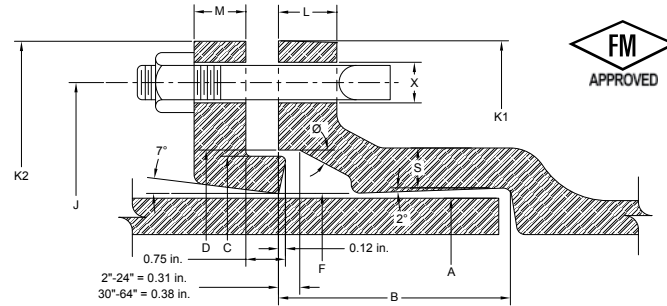
ANSI/AWWA C153/A21.53

GENERAL SPECIFICATIONS

- MATERIAL: Ductile Iron per ASTM A536
PRESSURE: 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes and 150 PSI rating for 54" - 64" sizes
TESTING: In accordance with ANSI/AWWA C153/A21.53, ANSI/AWWA C111/A21.11, UL and FM requirements
LAYING LENGTH: In accordance with ANSI/AWWA C153/A21.53 (fittings not listed in ANSI/AWWA have dimensions per Star design as noted in the catalog)
DEFLECTION: 2"-4"=8° | 6"-7" | 8"-12"=5° | 14"-16"=3 1/2° | 18"-24"=3° | 30"-64"=2°
WEIGHTS: Are in pounds, unless noted otherwise and do not include accessories, cement lining and coating
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 -- size 2" - 3" single thickness and sizes 4" - 64" double thickness
COATING: Asphaltic seal coat inside and out in accordance with ANSI/AWWA C104/A21.4 and referenced in ANSI/AWWA C153/A21.53
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" - 12" UL/ULC Listed | 2" and greater are UL/ANSI/NSF Standards 61 and 372 | 3" - 16" FM APPROVED. Please consult factory for detail listing and approvals.
DIMENSIONS: All dimensions are in inches unless noted otherwise.
INSTALLATION: Per ANSI/AWWA C600 and C111 using DIP conforming to C150/C151 and PVC pipe conforming to C900/C905



SUBMITTAL INFORMATION
PROJECT NAME:
ENGINEER:
CONTRACTOR:
SPEC. SECTION:



MECHANICALJOINT DIMENSIONS

Table with 15 columns: NOM. SIZE, A DIA., B, C DIA., D DIA., F DIA., J DIA., K1 DIA., K2 DIA., L, M, S, Ø, X DIA., and BOLTS (SIZE, NO.). Rows include sizes from 2 to 64 inches.

SIZE RANGE (Please specify):
Size Range _____

LINING OPTIONS (Please check one):
Standard: Cement-lined and asphalt seal coat per ANSI/AWWA C104/A21.4 and UL/NSF-61
Optional: FBE (Fusion Bonded Epoxy) per ANSI/AWWA C116/A21.15 and UL/NSF-61 - ID & OD Only
Optional: P401 (Protecto 401) Ceramic Epoxy - sewer applications only. Not NSF-61
Optional: Other (specify) _____

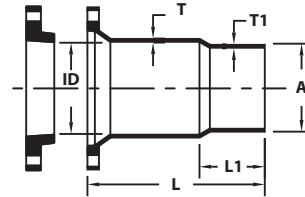
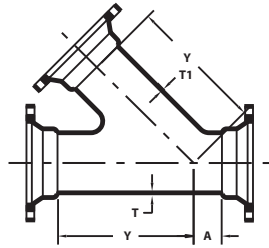
COATING OPTIONS (Please check one):
Standard: Asphaltic seal coat per ANSI/AWWA C104/A21.4
Optional: FBE (Fusion Bonded Epoxy) per ANSI/AWWA C116/A21.15 and UL/NSF-61 - ID & OD Only
Optional: Other (specify) _____





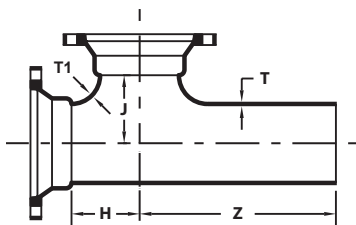
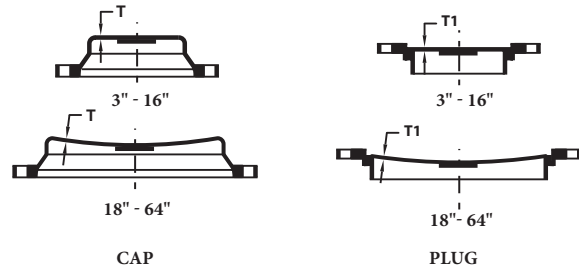
Compact MJ Fittings

ANSI/AWWA C153/A21.53



45° MJ LATERALS					
NOM. SIZE	T	T1	A	Y	WT (LBS.)
3 x 3	0.33	0.33	2.50	8.50	36
4 x 3	0.34	0.33	2.50	8.50	40
4 x 4	0.34	0.34	2.50	8.50	41
6 x 4	0.36	0.34	1.50	11.00	53
6 x 6	0.36	0.36	3.00	12.50	85
8 x 3	0.38	0.33	0.50	13.00	74
8 x 4	0.38	0.34	0.50	13.00	77
8 x 6	0.38	0.36	2.00	14.50	90
8 x 8	0.38	0.38	3.50	16.00	102
10 x 4	0.40	0.34	0.00	15.00	150
10 x 6	0.40	0.36	1.00	16.00	158
10 x 8	0.40	0.38	2.50	17.00	172
10 x 10	0.40	0.40	3.50	19.00	210
12 x 4	0.42	0.34	0.00	16.50	150
12 x 6	0.42	0.36	1.50	18.50	186
12 x 8	0.42	0.38	1.50	18.50	188
12 x 10	0.42	0.40	3.00	20.00	250
12 x 12	0.42	0.42	4.50	22.50	272
14 x 6	0.47	0.36	0.00	19.50	245
14 x 8	0.47	0.38	1.50	21.00	279
14 x 10	0.47	0.40	3.00	22.50	316
14 x 14	0.47	0.47	6.00	25.00	474
16 x 4	0.50	0.34	0.00	21.00	272
16 x 6	0.50	0.36	0.00	21.00	300
16 x 8	0.50	0.38	0.50	22.50	349
16 x 10	0.50	0.40	2.00	24.00	370
16 x 12	0.50	0.42	3.50	25.00	453
16 x 14	0.50	0.47	5.00	26.50	500
16 x 16	0.50	0.50	6.50	28.00	575

MJ x PE CUTTING IN SLEEVE W/ OVER SIZE GLAND							
NOM. SIZE	ID	T	T1	A	L	L1	WT (LBS.)
4	5.10	0.36	0.34	4.80	20.00	9.00	50
6	7.20	0.38	0.36	6.90	20.00	9.00	62
8	9.40	0.40	0.38	9.05	20.00	9.00	70
10	11.50	0.42	0.40	11.10	20.00	9.00	105
12	13.60	0.47	0.42	13.20	20.00	9.00	128
16	17.94	0.54	0.50	17.40	20.00	9.00	275



MJ x PE x MJ TEES						
NOM. SIZE	T	T1	H	J	Z	WT (LBS.)
6 x 4	0.36	0.34	4.00	5.00	12.00	49
6 x 6	0.36	0.36	5.00	5.00	12.00	57
8 x 6	0.38	0.36	5.50	6.50	11.50	74
8 x 8	0.38	0.38	6.50	6.50	15.00	91
10 x 10	0.40	0.40	7.50	7.50	13.00	115
12 x 12	0.42	0.42	8.75	8.75	14.50	155
16 x 16	0.50	0.50	11.50	11.50	20.63	337

MJ CAPS & PLUGS (SOLID OR TAPPED)					
NOM. SIZE	T	T1	MAX. TAP	WT (LBS.)	
				PLUGS	CAPS
3	0.46	0.50	2	9	8
4	0.34	0.40	2	13	9
6	0.42	0.42	2	20	15
8	0.44	0.44	2	30	23
10	0.46	0.46	2	39	33
12	0.48	0.48	2	52	44
14	0.55	0.55	2 1/2	93	64
16	0.56	0.56	2 1/2	116	79
18	0.54	0.54	2 1/2	135	121
20	0.57	0.57	2 1/2	161	140
24	0.61	0.65	3	239	199
30	0.70	0.66	4	387	361
36	1.03	1.00	4	689	635
42	1.13	1.13	4	965	896
48	1.43	1.25	4	1291	1329
54	2.16	2.19	6	2050	2167
60	2.25	2.38	6	2446	2571
64	2.38	2.56	6	2850	3018

Threads in Accordance with ANSI/ASME B1.20.1

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