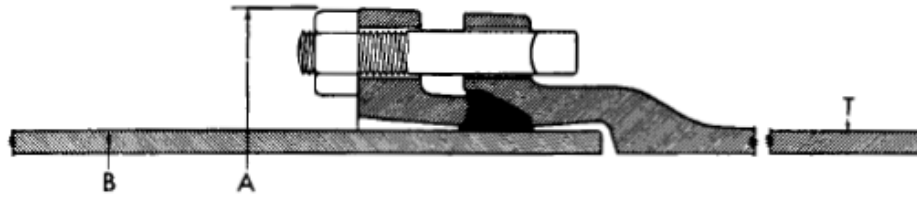


MECHANICAL JOINT DUCTILE IRON PIPE
*Dimensions and Weights for Special Classes***



NOMINAL INSIDE DIAMETER INCHES	WALL THICKNESS		DIMENSIONS-INCHES		APPROXIMATE WEIGHT-POUNDS					
	ANSI THICK. CLASS	T IN INCHES	A GLAND O.D.	B PIPE O.D.	BELL METAL ONLY	PIPE BARREL PER FT.	18 FT LAYING LENGTH		20 FT LAYING LENGTH	
							PER* LENGTH	PER* FOOT	PER* LENGTH	PER* FOOT
3	51	.25	7.69	3.96	9	8.9	170	9.4	185	9.3
	52	.28	7.69	3.96	9	9.9	185	10.4	205	10.3
	53	.31	7.69	3.96	9	10.9	205	11.4	225	11.3
	54	.34	7.69	3.96	9	11.8	220	12.3	245	12.2
	55	.37	7.69	3.96	9	12.8	240	13.3	265	13.2
	56	.40	7.69	3.96	9	13.7	255	14.2	285	14.2
4	51	.26	9.12	4.80	13	11.3	215	12.0	240	12.0
	52	.29	9.12	4.80	13	12.6	240	13.3	265	13.2
	53	.32	9.12	4.80	13	13.8	260	14.5	290	14.4
	54	.35	9.12	4.80	13	15.0	285	15.7	315	15.7
	55	.38	9.12	4.80	13	16.1	305	16.9	335	16.8
	56	.41	9.12	4.80	13	17.3	325	18.0	360	18.0
6	50	.25	11.12	6.90	18	16.0	305	17.0	340	16.9
	51	.28	11.12	6.90	18	17.8	340	18.8	375	18.7
	52	.31	11.12	6.90	18	19.6	370	20.6	410	20.5
	53	.34	11.12	6.90	18	21.4	405	22.4	445	22.3
	54	.37	11.12	6.90	18	23.2	435	24.2	480	24.1
	55	.40	11.12	6.90	18	25.0	470	26.0	520	25.9
8	56	.43	11.12	6.90	18	26.7	500	27.7	550	27.6
	50	.27	13.37	9.05	24	22.8	435	24.1	480	24.0
	51	.30	13.37	9.05	24	25.2	480	26.6	530	26.4
	52	.33	13.37	9.05	24	27.7	525	29.1	580	28.9
	53	.36	13.37	9.05	24	30.1	565	31.4	625	31.3
	54	.39	13.37	9.05	24	32.5	610	33.8	675	33.7
10	55	.42	13.37	9.05	24	34.8	650	36.1	720	36.0
	56	.45	13.37	9.05	24	37.2	695	38.5	770	38.4
	50	.29	15.62	11.10	31	30.1	575	31.9	635	31.7
	51	.32	15.62	11.10	31	33.2	630	34.9	695	34.8
	52	.35	15.62	11.10	31	36.2	685	38.0	755	37.8
	53	.38	15.62	11.10	31	39.2	735	40.9	815	40.8
12	54	.41	15.62	11.10	31	42.1	790	43.8	875	43.7
	55	.44	15.62	11.10	31	45.1	845	46.9	935	46.7
	56	.47	15.62	11.10	31	48.0	895	49.7	990	49.6
	50	.31	17.88	13.20	37	38.4	730	40.5	805	40.2
	51	.34	17.88	13.20	37	42.0	795	44.1	875	43.8
	52	.37	17.88	13.20	37	45.6	860	47.7	950	47.4
12	53	.40	17.88	13.20	37	49.2	925	51.3	1020	51.0
	54	.43	17.88	13.20	37	52.8	985	54.8	1095	54.7
	55	.46	17.88	13.20	37	56.3	1050	58.4	1165	58.2
	56	.49	17.88	13.20	37	59.9	1115	62.0	1235	61.8

Depth of Bells: 3" thru 12" - 2.50"; 14" thru 24" - 3.50"

Nominal laying lengths: 3" & 4" - 20'-0"; 6" thru 12"-18' or 20'-0"; 14" thru 24"-18'-0".

*Including bell. Calculated weight rounded off to nearest 5 pounds

** "Special Classes" shown above were designated "Standard Thickness Classes" in the previous editions of ANSI/AWWA C151/A21.51.

MECHANICAL JOINT DUCTILE IRON PIPE (CONTINUED)

DIMENSIONS AND WEIGHTS FOR SPECIAL CLASSES

NOMINAL INSIDE DIAMETER INCHES	WALL THICKNESS		DIMENSIONS-INCHES		APPROXIMATE WEIGHT-POUNDS			
	ANSI THICK. CLASS	T IN INCHES	A GLAND O.D.	B PIPE O.D.	BELL METAL ONLY	PIPE BARREL PER FT.	18 FT LAYING LENGTH	
							PER* LENGTH	PER* FOOT
14	50	.33	20.25	15.30	61	47.5	915	50.9
	51	.36	20.25	15.30	61	51.7	990	55.1
	52	.39	20.25	15.30	61	55.9	1065	59.3
	53	.42	20.25	15.30	61	60.1	1145	63.5
	54	.45	20.25	15.30	61	64.2	1215	67.6
	55	.48	20.25	15.30	61	68.4	1290	71.8
16	56	.51	20.25	15.30	61	72.5	1365	75.9
	50	.34	22.50	17.40	74	55.8	1080	59.9
	51	.37	22.50	17.40	74	60.9	1165	64.7
	52	.40	22.50	17.40	74	65.4	1250	69.5
	53	.43	22.50	17.40	74	70.1	1335	74.2
	54	.46	22.50	17.40	74	74.9	1420	79.0
18	55	.49	22.50	17.40	74	79.7	1510	83.8
	56	.52	22.50	17.40	74	84.4	1595	88.5
	50	.35	24.75	19.50	85	64.4	1245	69.1
	51	.38	24.75	19.50	85	69.8	1340	74.5
	52	.41	24.75	19.50	85	75.2	1440	79.9
	53	.44	24.75	19.50	85	80.6	1535	85.3
20	54	.47	24.75	19.50	85	86.0	1635	90.7
	55	.50	24.75	19.50	85	91.3	1730	96.0
	56	.53	24.75	19.50	85	96.7	1825	101.4
	50	.36	27.00	21.60	98	73.5	1420	78.9
	51	.39	27.00	21.60	98	79.5	1530	84.9
	52	.42	27.00	21.60	98	85.5	1635	90.9
24	53	.45	27.00	21.60	98	91.5	1745	96.9
	54	.48	27.00	21.60	98	97.5	1855	103.0
	55	.51	27.00	21.60	98	103.4	1960	108.8
	56	.54	27.00	21.60	98	109.3	2065	114.7
	50	.38	31.50	25.80	123	92.9	1795	99.7
	51	.41	31.50	25.80	123	100.1	1925	106.9
24	52	.44	31.50	25.80	123	107.3	2055	114.1
	53	.47	31.50	25.80	123	114.4	2180	121.2
	54	.50	31.50	25.80	123	121.6	2310	128.4
	55	.53	31.50	25.80	123	128.8	2440	135.6
	56	.56	31.50	25.80	123	135.9	2570	142.7

Depth of Bells: 3" thru 12" - 2.50"; 14" thru 24" - 3.50"

Nominal laying lengths: 3" & 4" - 20'-0"; 6" thru 12"-18' or 20'-0"; 14" thru 24"-18'-0".

*Including bell. Calculated weight rounded off to nearest 5 pounds

MAXIMUM DEFLECTIONS OF MECHANICAL JOINT PIPE

SIZE OF PIPE INCHES	BASED ON 18-FT. LENGTH		APPROX. RADIUS IN FEET OF CURVE PRODUCED BY SUCCESSION OF JOINTS	APPROX. NUMBER OF 18-FOOT PIPE REQUIRED FOR A 90° BEND
	ANGLE DEGREES	DEFLECTION INCHES		
3	8°-18'	35.0†	140	11†
4	8°-18'	35.0†	140	11†
6	7°-7'	27.0	145	13
8	5°-21'	20.0	195	17
10	5°-21'	20.0	195	17
12	5°-21'	20.0	195	17
14	3°-35'	13.5	285	25
16	3°-35'	13.5	285	25
18	3°-0'	11.0	340	30
20	3°-0'	11.0	340	30
24	2°-23'	9.0	450	39

†20 Ft. Length

LININGS FOR DUCTILE IRON PIPE AND FITTINGS

CEMENT-MORTAR LINING

The first recorded installation of cement-mortar lined cast iron pipe was in 1922 at Charleston, S.C. Since that time, millions of feet of cement-mortar lined cast iron pipe have been installed around the country, helping to maintain high flow characteristics in pipelines carrying aggressive water.

Over the years, improvements have been made in application techniques, the quality of the cement and the curing process. Today, virtually all ductile iron pipe is furnished with this low cost and very effective lining.

We offer a full line of cement-mortar lined pipe and fittings, all in accordance with the requirements of ANSI/AWWA C104/A21.4 Standard.

Generally, cement-mortar linings are not suitable for wastewater applications. Certain industrial wastes and septic sewage can quickly attack the cement causing it to fail. For those installations where these types of waste will be conveyed, we offer Protecto 401 Ceramic Epoxy lining that will provide trouble free service.

PROTECTO 401

Protecto 401 lined ductile iron pipe and fittings provide the maximum protection and the strength necessary to do the job in tough sewer pipe applications. Protecto 401 has successfully been used in hundreds of sanitary sewer applications and has been proven with both laboratory testing and years of actual sewer service on all sizes of ductile iron pipe and fittings. Protecto 401 Ceramic Epoxy Lining was designed and is used as a protection for sanitary sewer conduits.

POLYETHYLENE ENCASEMENT FOR DUCTILE IRON PIPE IN CORROSIVE SOILS

Meets all Requirements of ANSI/AWWA C105/A21.5 Standard

Polyethylene encasement is a proven method of protecting ductile iron pipe in areas of severely corrosive soil. The protection is provided by isolating the pipe from the corrosive environment. A completely air and water-tight enclosure is not necessary.

The dielectric capability of polyethylene also provides shielding against stray direct current at most levels encountered in the field.

Eight (8) mil thick polyethylene tube is furnished in the flat tube widths listed.

More detailed information on polyethylene encasement is available upon request. Both material and installation procedures are specified in ANSI/AWWA C105/A21.5.

RECOMMENDED POLYETHYLENE FLAT TUBE WIDTH BY PIPE SIZE

NOMINAL PIPE SIZE INCHES	FLAT TUBE WIDTH – INCHES (LAYFLAT SIZE)	
	PUSH-ON & MJ	RESTRAINED JOINT
3	14	–
4	16	–
6	16	20
8	20	24
10	24	30
12	27	34
14	30	37
16	34	41
18	37	45
20	41	54
24	54	54
30	67	67
36	81	81