

BASED ON 3:1 SAFETY FACTOR

FITTING	4"	6"	8"	10"	12"
TEE (BRANCH)	48	68	90	106	125
PLUG (DEAD END)	48	68	88	106	125
11.25° BEND (HORZ.)	2	3	4	4	5
22.5° BEND (HORZ.)	4	6	8	9	11
45° BEND (HORZ.)	9	12	16	19	22
45° BEND (VERT. UPPER)	20	28	37	44	52
45° BEND (VERT. LOW.)	4	6	8	10	12
90° BEND (HORZ.)	21	29	38	45	53
6" x 4" REDUCER		35			
8" x 4" REDUCER			64		
10" x 4" REDUCER				86	
12" x 4" REDUCER					108
8" x 6" REDUCER			37		
10" x 6" REDUCER				65	
12" x 6" REDUCER					91
10" x 8" REDUCER				35	
12" x 8" REDUCER					66
12" x 10" REDUCER					61

- a) SAND-SILT SOIL (COHESIONLESS SOIL WITH 30° INTERNAL FRICTION ANGLE, PIPE FRICTION/SOIL FRICTION RATIO = 0.75, SOIL DENSITY 100 PCF).
- b) PIPE LAYING CONDITION 5 (NO SELECT BEDDING OR BACKFILL).
- c) 150 PSI DESIGN PRESSURE. FOR 200 PSI DESIGN PRESSURE (FIRE LINES), INCREASE RESTRAINED LENGTH BY 35%.
- d) 3 FOOT MINIMUM COVER ON THE PIPE.
- e) ALL RESTRAINED JOINT LENGTHS IN FEET.

RESTRAINED JOINT PIPE LENGTHS

DUCTILE IRON PIPE

N.T.S.

BASED ON 3:1 SAFETY FACTOR

FITTING	4"	6"	8"	10"	12"
TEE (BRANCH)	72	102	136	160	188
PLUG (DEAD END)	75	106	139	166	196
11.25° BEND (HORZ.)	2	3	4	5	6
22.5° BEND (HORZ.)	5	7	9	11	12
45° BEND (HORZ.)	10	14	19	22	26
45° BEND (VERT. UPPER)	31	44	57	69	81
45° BEND (VERT. LOW.)	5	7	10	12	14
90° BEND (HORZ.)	25	35	45	53	63
6" x 4" REDUCER		55			
8" x 4" REDUCER			100		
10" x 4" REDUCER				135	
12" x 4" REDUCER					170
8" x 6" REDUCER			58		
10" x 6" REDUCER				102	
12" x 6" REDUCER					143
10" x 8" REDUCER				56	
12" x 8" REDUCER					104
12" x 10" REDUCER					96

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- e) ALL RESTRAINED JOINT LENGTHS IN FEET.

RESTRAINED JOINT PIPE LENGTHS

C900 PVC PIPE

N.T.S.