

NOMINAL PIPE DIAMETER (INCHES)	MINIMUM GRADE (%)	ACCEPTABLE SAG DEPTH (D)* IN INCHES OF WATER				ABSOLUTE MAXIMUM DEPTH (D_{max}) IN INCHES OF WATER		MAXIMUM SAG LENGTH (L)**	MINIMUM ALLOWABLE DISTANCE BETWEEN SAGS WITH 10% OR GREATER DEPTH (X)***
		EQUAL OR LESS THAN MINIMUM GRADE		GREATER THAN MINIMUM GRADE		EQUAL OR LESS THAN MINIMUM GRADE	GREATER THAN MINIMUM GRADE		
		PVC PIPE	D. IRON PIPE	PVC PIPE	D. IRON PIPE				
8	0.400	0.8"	0.8"	1"	1"	1.2	1.5	6 FT	36 FT
10	0.280	1"	1"	1.1"	1.1"	1.5	1.65	6 FT	36 FT
12	0.220	1.1"	1.1"	1.2"	1.2"	1.65	1.8	9 FT	54 FT
15	0.150	1.5"	1.5"	1.5"	1.5"	2.25	2.25	9 FT	54 FT
16	0.140		1.5"		1.6"	2.25	2.4	9 FT	54 FT
18	0.120		1.5"		1.8"	2.25	2.7	9 FT	72 FT
21	0.100		1.5"		2"	2.25	3.0	9 FT	72 FT
24	0.080		1.5"		2.4"	2.25	3.6	9 FT	72 FT
27	0.067		2"		2.7"	3.0	4.0	9 FT	72 FT
30	0.058		2"		3"	3.0	4.5	9 FT	72 FT
36	0.046		2"		3"	3.0	4.5	9 FT	72 FT
42	0.037		2"		3"	3.0	4.5	9 FT	72 FT

*D = ALLOWABLE SAG DEPTH = ALLOWABLE DEPTH OF POOLED WATER IN PIPE AS MEASURED FROM WATER SURFACE TO INVERT OF PIPE BY USE OF SAG GAUGE.

D_{max} = ABSOLUTE MAXIMUM DEPTH. ANY SAG DEPTH GREATER THAN D_{max} CONSTITUTES FAILURE.

**L = SAGE LENGTH = LENGTH OF POOLED WATER SURFACE AS MEASURED FROM UPSTREAM EDGE OF POOLED WATER SURFACE TO DOWNSTREAM EDGE OF POOLED WATER SURFACE. (PROVIDED D_{max} IS NOT EXCEEDED.)

***X = DISTANCE BETWEEN SAGS, AS MEASURED FROM UPSTREAM EDGE OF POOLED WATER SURFACES BETWEEN CONSECUTIVE SAGS.

