Figure: 30 TAC §317.2(a)(4)(B)

$$T = (0.085 \times D \times K)/Q$$

T = time for pressure to drop 1.0 pound per square inch gauge in seconds
K = 0.000419 × D × L, but not less than 1.0
D = average inside pipe diameter in inches
L = length of line of same pipe size being tested, in feet
Q = rate of loss, 0.0015 cubic feet per minute per square foot internal surface shall be used

Since a K value of less than 1.0 shall not be used, there are minimum testing times for each pipe diameter as follows:

Pipe Diameter (inches)	Minimum Time (seconds)	Length for Minimum Time (feet)	Time for Longer Length (seconds)
6	340	398	0.855(L)
8	454	298	1.520(L)
10	567	239	2.374(L)
12	680	199	3.419(L)
15	850	159	5.342(L)
18	1,020	133	7.693(L)
21	1,190	114	10.471(L)
24	1,360	100	13.676(L)
27	1,530	88	17.309(L)
30	1,700	80	21.369(L)
33	1,870	72	25.856(L)