

Testing Procedure

1. General: Test using air whenever possible prior to backfilling to assist in locating leaks. Make joint repairs on both outside and inside of joint to ensure permanent seal. Contractor may backfill before testing with the understanding that any repairs will be made from exterior of manhole. Test manholes with manhole frame set in place.
2. Plug pipe openings; securely brace plugs and pipe.
3. Inflate compression band to affect seal between vacuum base and structure. Connect vacuum pump to outlet port with valve open. Draw vacuum to 10 inches of mercury (in Hg) and close valve.
4. Determine test duration for manhole from the following table.

Depth of Manhole (feet)	Manhole Diameter (inches)		
	Time (seconds)		
	48	60	72
10 or less	60	75	90
Greater than 10 but less than 15	75	90	105
Greater than 15 but less than 25	90	105	120
Over 25 feet – time shown plus 2 seconds per foot of depth greater than 25 feet	90	105	120

5. Record vacuum drop during test period.
 - a. If vacuum drop is greater than one inch of mercury during the test period, repair and retest the manhole. Repeat test and repairs until vacuum drop is less than one inch of mercury during the test period.
 - b. If vacuum drop is less than one inch of mercury during the test period, discontinue test and accept manhole.
6. Test times for structures other than manholes will be based on the times for manholes of the nearest equivalent volume or as directed by the Inspector.