

# PLUG-IT PRODUCTS, CORP.

## MANHOLE VACUUM TEST PLATE PROCEDURE

1. Plug all incoming lines. Because the plugs will be subject to a vacuum (negative air pressure), inflate the plug to 5psi below the plugs recommended inflation pressure to prevent the pressure relief valve from opening during the test. NEVER REMOVE OR DISABLE PRESSURE RELIEF VALVES!
2. Set plate on top of manhole with foam side down.
3. If using Venturi vacuum pump, attach directly to plate with camlocks OR:
4. Attach pump assembly to vacuum test plate with hose assembly.
5. Begin pumping, open suction valve, pull vacuum to 10"Hg (equivalent to negative 5 psi air pressure).
6. Close suction valve and stop pump at 10"Hg on vacuum gauge.
7. Refer to the test specifications for length of test.
8. If test fails, or 10" Hg vacuum cannot be obtained:
  - Shut off vacuum pump
  - Remove vacuum test plate from manhole
  - Then, using a 2 gallon hand pump sprayer (like a garden sprayer), spray the interior surface of the manhole with a soap and water mixture
  - Begin re-testing
  - After 30 seconds, stop vacuum and remove vacuum test plate once again
  - Check the inside of manhole for soapy bubbles, indicating the areas that leak.

## Vacuum Time Table

<b>DEPTH - FEET</b>	<b>DIAMETER - INCHES</b>		
	<b>48"</b>	<b>60"</b>	<b>72"</b>
<b>4'</b>	<b>10 sec.</b>	<b>13 sec.</b>	<b>16 sec.</b>
<b>8'</b>	<b>20 sec.</b>	<b>26 sec.</b>	<b>32 sec.</b>
<b>12'</b>	<b>30 sec.</b>	<b>39 sec.</b>	<b>48 sec.</b>
<b>16'</b>	<b>40 sec.</b>	<b>52 sec.</b>	<b>64 sec.</b>
<b>20'</b>	<b>50 sec.</b>	<b>65 sec.</b>	<b>80 sec.</b>
<b>24'</b>	<b>60 sec.</b>	<b>78 sec.</b>	<b>96 sec.</b>
<b>*</b>	<b>5.0 sec.</b>	<b>6.5 sec.</b>	<b>8.0 sec.</b>

**\* Add "T" times for each additional 2' depth.**

**(The values listed above have been extrapolated from ASTM designation C924-85.)**