

882 Series Inflatable Test Plugs

»» Installation & Safety Guidelines

Read Before Use

Always wear proper safety equipment (eye protection, hardhat, gloves, etc.) during installation and use.

Do Not install plugs that show any signs of damage.

NEVER stand in front of the area where a test plug is in use

Failure to follow these guidelines could result in personal injury or property damage

TEST PLUG SIZING To determine the size plug required, measure the inside diameter (ID) of the pipe to be tested. Always use the proper size test plug for the pipe being tested. NEVER attempt to use a plug not rated for the size of pipe being tested. Test plugs have a minimum and maximum usage range indicated in the table on the opposite page. Failure to use the proper size test plug may cause the plug to dislodge from the pipe resulting in property damage and/or personal injury.

PROPER TEST PLUG INFLATION Test plugs may be inflated with either water or air. Never inflate a test plug without using a properly calibrated pressure gauge. Be sure the inflation hose is properly and securely attached to the test plug. Never over inflate a test plug. Inflate to the recommended pressure in the table on the opposite page. Make sure the test plug is located all the way inside the pipe. Do not allow any portion of the test plug to protrude from the pipe when inflated. Do not locate the test plug on or near a sharp object inside the pipe. Do not inflate the test plug over a lateral pipe opening. The plug material should be conditioned - one time only, before the first use. To condition the plug material, inflate the plug slowly, until it begins to stretch slightly, then deflate. Repeat 2-3 times. With the exception of this initial conditioning, NEVER INFLATE A TEST PLUG OUTSIDE OF A PIPE! Test plugs are meant to be used for sealing a pipe for a limited time period (usually 24 hours). If used for an extended period, the pressure should be checked periodically to ensure proper inflation. Test plugs are equipped with a safety relief valve to prevent over inflation and possible damage to the plug. However, it is strongly recommended that a proper pressure gauge be used when inflating a test plug.

PROPER DEFLATION OF TEST PLUG To deflate a test plug, release the pressure in the pipe. Release the pressure in the plug through the inflation hose and remove the plug from the pipe using the safety strap and handle. Do not pull a plug out of a pipe by means of the hose. Never attempt to pull a partially deflated plug from a pipe. Long test plugs should be deflated until the first stage deflates (you will hear the water escape). After the water has been allowed to drain from the system, the plug may be extracted from the pipe. Inspect and clean the plug once it is removed from the pipe. To properly store a test plug, place it in a clean, dry location. Do not subject a test plug to excessive temperatures or sunlight.

BACK PRESSURE LIMITATION/CALCULATIONS Note the amount of back pressure a plug must withstand before use. The back pressure limitations for test plugs are listed on the opposite page.

NEVER EXCEED THE RECOMMENDED BACK PRESSURE LIMITS.

Obstructions or foreign objects in the pipe may alter the back pressure. Be sure all surfaces are clean and free from any lubricants or substances that may cause the plug to slip.

INSPECTION AND CLEANING Before using a test plug, always inspect the surface for irregularities (e.g., holes, crack or cuts in the rubber, etc.) If the plug shows signs of any damage as a result of previous use, DO NOT USE the plug. Check the valve system for dirt or damage. A defective valve may release pressure and permit the plug to dislodge from the pipe. Always inspect the inflation hose as well. A test plug may be cleaned using a water and detergent solution. NEVER use a petroleum based product. Failure to inspect test plugs before use may result in property damage or injury.

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- Built-in pressure relief valve releases excess air, while still holding pressure
- Heavy-duty pull straps with plastic handle
- Plugs inflate using air or water *
- Long plugs feature two-stage deflation for no backslash

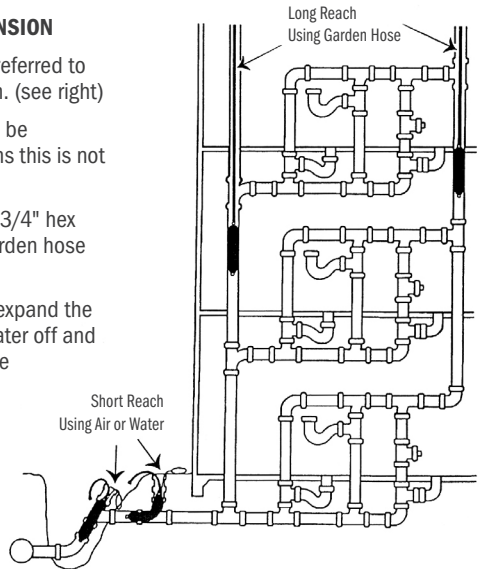
CONVERSION FROM AIR TO WATER FOR PLUG EXPANSION

Using water instead of air for plug expansion may be preferred to extend the reach of the test plug into the piping system. (see right)

In long-reach applications the strap and handle should be removed from the test plug. For short-reach applications this is not necessary.

The pneumatic valve can be removed by loosening the 3/4" hex nut at the base of the air valve. Attach a heavy duty garden hose to the test plug inlet.

Insert the test plug into the pipe, and turn water on to expand the plug. To remove the test plug from the pipe, turn the water off and carefully loosen the hose connector from the hose valve to relieve water pressure.



Item No.	Pipe Size	Description	Inflation Pressure	Max Back Pressure	Max Head Pressure	Deflated Dia.	Inflated Length
882-ES123	1-1/2" to 3"	Short-pattern inflatable test plug	45 PSI	13 PSI	30 FT	1-3/16"	6-1/4"
882-ES34	3" to 4"	Short-pattern inflatable test plug	58 PSI	13 PSI	30 FT	2-2/3"	12"
882-ES46	4" to 6"	Short-pattern inflatable test plug	37 PSI	13 PSI	30 FT	3-1/2"	14-1/2"
882-EL23	2" to 3"	Long-pattern inflatable test plug with 4' extension air hose	58 PSI	13 PSI	30 FT	1-3/4"	18-1/2"
882-EL34	3" to 4"	Long-pattern inflatable test plug with 4' extension air hose	56 PSI	13 PSI	30 FT	2-1/2"	22-1/2"
882-EL46	4" to 6"	Long-pattern inflatable test plug with 4' extension air hose	40 PSI	13 PSI	30 FT	3"	26"