FINDING SWIMMING POOL LEAKS



Pressure Testing - To determine if a line is leaking.

Pressure Testing Safety Rules Pressure Testing Constants 1. Turn off all equipment before testing. 2. Use straight sided test plugs. **1. AIR COMPRESSES UNDER** 3. Do not over expand a plug to make it PRESSURE; WATER DOES NOT. fit a larger hole. 4. Never exceed 20 psi pressure. 2. AIR STAYS AT THE TOP OF THE (5 psi maximum on openings > 2") PIPE; WATER AT THE BOTTOM -5. Stand clear of plugged openings. EVEN WHEN UNDER PRESSURE. 6. Release pressure immediately after test and before removing plugs. 3. AIR WILL ESCAPE FROM LEAKS 7. Never use an unregulated air source. FASTER THAN WATER. 8. Use well maintained equipment. AVOID A MIXTURE OF AIR & WATER IN LINE WHEN PRESSURE TESTING - Different amounts of air in the line may cause the same leak to show a different rate of pressure loss. (more air = slower pressure drop) - There may be an initial pressure drop in lines that do not leak as air and water pressure equalize inside the line. USE WATER IF IT IS EASIEST TO ELIMINATE MOST OF THE AIR FROM THE LINE USE AIR* IF IT IS EASIEST TO ELIMINATE MOST OF THE WATER FROM THE LINE *Risk of plug pop-out is greater when doing an Air Pressure Test Sonic Location - To pinpoint the location of a buried leak. Purge all water from leaking line. Remove low plug and turn on air Replace plug and adjust air source to maintain a constant pressure of 5-15 psi. Listen along path of buried lines for the sound of bubbling and gurgling. (Use Geophone or Electronic Listening Device) Pinpoint location of loudest sound. Leak should be directly below this point. All water above leak must be purged Tips: from line to assure good noise. Put air into the pipe from the high end to assure that air does not bubble through standing water in line making a false Water blown into leak sound. water saturated soil = slight hissing On suction leaks, assure soil saturation HARD TO HEAR by leaving water pressure on line for an hour or two before inducing air. Air blown into If pressure cannot be maintained with water saturated soil just air, or if soil does not stay saturated, = bubbling/gurgling add a constant stream of water from low EASY TO HEAR end of pipe while adding air.



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