



Application and Safe Use of P/T Test Plugs

Pressure and temperature readings | Operating guidance

APPLICATION AND LIMITS

P/T test plugs are aids for taking temporary pressure or temperature readings. Install them correctly and use them only within the applicable product specifications, including the selected valve material and the conditions of the system.

Use only with gases or liquids compatible with the plug body, seals, and neoprene or Norel (EPDM) valve material. Confirm compatibility against the applicable material manufacturer's guidance before use. Do not use a plug in a system where a discharge of fluid or gas could create a hazard.

Install the plug where debris cannot collect inside it. Do not install it at the bottom of a vessel or pipe: debris can lodge in the valve during probe withdrawal and prevent full closure.

TEMPERATURE AND PRESSURE RATINGS

Neoprene core: maximum 200°F. Norel core: maximum 300°F. Maximum pressure: 1,000 psi.

Consider the combined temperature and pressure conditions when determining safe use. Do not assume that the maximum temperature and maximum pressure ratings apply simultaneously.

LOW-TEMPERATURE AND CAP WARNING

Below 45°F, neoprene and Norel valves may recover more slowly after probe removal. The valve may remain partially open for a time. Pressure and the length of probe insertion can also affect closure. Be prepared for leakage whenever a probe is withdrawn.

The gasketed cap helps contain minor leakage that may follow a reading. Keep the cap installed and firmly tightened whenever a reading is not being taken. The cap is not a substitute for a sound valve or a safe, compatible installation.

BEFORE TAKING A READING

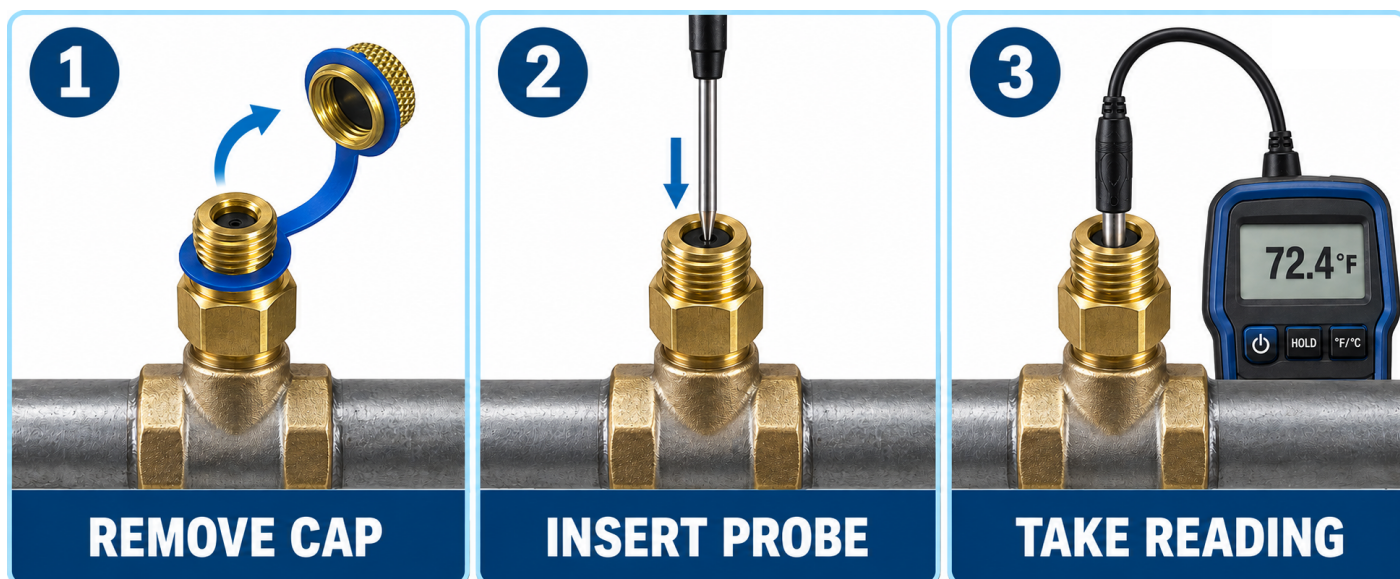
Wear safety glasses and gloves. Assess the fluid temperature, system pressure, and any chemical hazards; use protective equipment appropriate to those conditions. Ensure the measurement can be taken safely and promptly.

For pressure readings, choose a gauge with a rated range above the maximum anticipated pressure and suitable for the service. A gauge with a full-scale range about twice the expected highest pressure generally places the reading near mid-scale; verify that the gauge, adapter, probe, and connections are rated for the actual conditions.



TEXAS TEST PLUGS

TAKING A PRESSURE OR TEMPERATURE READING



- 01 Remove the cap carefully. Loosen it slowly. A small residue from a previous reading may be present. If fluid or gas is actively escaping, retighten the cap, stop, and assess the system. Depressurize or otherwise make the system safe before inspecting or replacing the plug.
- 02 Prepare the correct probe. Select a compatible pressure or temperature probe and the appropriate gauge adapter. TTP gauge adapters offer three probe-matching options. Inspect the probe for burrs or damage that could cut the valve. Clean it and apply a small amount of petroleum jelly or silicone lubricant only if compatible with the fluid, probe, and valve material. Do not use a damaged or unsuitable probe.
- 03 Take the reading promptly. Insert the lubricated probe slowly and only as needed to obtain the reading. Never leave a probe in the plug for more than 15 minutes. Longer insertion can deform the valve and delay sealing.
- 04 Remove the probe and recap. Withdraw the probe slowly, watch for leakage, and promptly install and firmly tighten the gasketed cap. Confirm the connection is secure before leaving the site. Keep spare caps available, particularly when plugs are supplied without retaining straps.

NEVER LEAVE A PROBE IN AN UNATTENDED PLUG

A probe left in place can deform the valve, leak, or be ejected under pressure. Remove the probe and secure the cap before leaving the equipment. If leakage continues or the valve does not reseal, isolate and make the system safe, then replace the plug as appropriate.