TWINLOK® & PETE'S TEST PLUGS

TWINLOK® TEST PLUG

The Twinlok® Test Plug is normally supplied in Dezincification resistant Brass Alloy body with the Nordel core but available in Type 316 Stainless Steel on special request. Common applications;

- Chilled Water circuits
- Coil Units
- Pumps
- Heating Water
- Heat Exchangers
- Air Conditioning

BINDER GROUP - TEST PLUGS

Binder is the exclusive manufacturer of the Twinlok® Test Plug in addition to supplying the Pete's Plug commonly used in Natural Gas installations.

Test Plugs are installed on pipework to allow convenient access for pressure and temperature testing equipment. Binder Test Plugs reduce the need to install expensive fixed temperature and pressure gauges in a pipeline. A single plug can be used for both temperature and pressure readings using hand held test gear that is typically more accurate than low cost fixed gauges found in installations.

Speed of operation is the biggest advantage of Binder's Test Plugs. Remove the cap, insert the probe, take the reading and replace the cap. The unique core design prevents leakage or jetting when the probe is removed. The Cap protects the entry point and permanent strap protects loss of the Cap.

Binder's Test Plugs are commonly specified as the industry standard and are guaranteed to be leak proof when installed to by qualified trades' professionals.

For ease of identification, the Twinlok Test Plug uses a Red Cap Strap whereas the Pete's Plug uses a Black Cap Strap.

PETE'S PLUG

The Pete's plug is used in natural gas installations and is made from Dezincification resistant Brass Alloy with a Neoprene Core. Common applications;

- Natural Gas Installations

ORDERING INFORMATION

Description	Binder Part #
¼" BSPT Twinlok® Test Plug Brass	691000
¼" NPT Twinlok® Test Plug Brass	691001
¼" BSPT Pete's Test Plug DRB	691002
¼" NPT Pete's Test Plug Brass	691003

Pressure Gauge Adaptor

Test Plug Extension

Description	Binder Part #
Adaptor Pressure Gauge B180	691025
Hexagon Plug Extension ¼" BSPT Test	691006
Extension Hex ¼" BSP x 3/8" BSPT x 65mm	691007
Extension Hex 3/8" BSPT x 3/8" BSPP x 65mm	691008

ISO 9001 BUREAU VERITAS Certification

TWINLOK® & PETE'S TEST PLUGS TECHNICAL INFORMATION

SPECIFICATIONS

- Body - Available in Dezincification resitant Brass Alloy or Type 316 Stainless Steel.
- Cores - Available in Nordel for hydraulic installation or Neoprene for natural gas installations.
- Temperature Range - -10oC to +135oC.
- Maximum Pressure - 3500Kpa
- Available Threads - 1/4" NPT & 1/4" BSPT
- Note: Nordel cores must not be used in Natural Gas Installations

OPERATING PROCEDURE FOR PRESSURE AND TEMPERATURE READINGS

1. The operator should wear protective clothing i.e. gloves and goggles when using the plug in high temperature lines or where injurious liquids or gases are contained.

2. Slowly remove the cap from the plug, if whilst doing so you feel or hear gas or liquids escaping immediately retighten the cap. Determine at this time if the plug has been used improperly and if necessary replace the plug.

3. Having determined that the plug is operating correctly, remove the cap.

4. Select the appropriate probe for pressure or temperature. Clean and lubricate the probe with a small amount of silicone oil. Examine the probe for any sharp burrs which could cut the plug cores. Remove any burrs before using; do not use non-standard or damaged probes.

PRESSURE PROBE INSERTION

1. Determine approximate pressure in the pipeline and select a 1/4" BSPT Male outlet pressure gauge of suitable range and securely screw onto the Binder pressure gauge adapter probe.

2. Lubricate the probe with a small amount of silicone oil and partially insert the pressure gauge adapter probe into the test plug. If you are not sure of the pressure behind the plug, be prepared to quickly withdraw the probe before rupturing or over-pressuring the gauge. The test plug, in its static state and without a cap can easily withstand over 3500 Kpa without leaking. Do not assume that since the plug is not leaking that it is safe to quickly and fully insert a low range pressure gauge. If you are wrong the low range gauge could explode in your hand.

3. When the pressure gauge needle stops moving up-scale fully insert the probe and read the pressure.

4. Do not leave the probe in the plug longer than necessary. Always screw the adapter probe union to the top of the test plug to prevent the internal pressure from ejecting the gauge and probe.

5. When removing the probe do not position your face near the plug. The plug should not leak when removing the probe but always observe safety precautions.

6. As soon as the probe is removed replace the test plug cap.

TEST PLUG

TEST PLUG EXTENSION

TEMPERATURE PROBE INSERTION

1. Temperature probe insertion is similar to the pressure probe insertion with the exception that the operator should always first determine the pressure behind the plug before insertion of the temperature probe. This establishes that the plug is operating within its specification limits. After pressure has been determined follow the steps outlined in PRESSURE PROBE INSERTION 1-6.

2. When using a test plug which has been installed and unused for several years follow all the procedures shown above.

HYDRAULICS INSTALLATIONS

The test plug used in the hydraulics industries is the Twinlok® Test Plug. It is normally the Dezincification resistant Brass Alloy body with the Nordel core.

- Chilled Water circuits
- Fan Coil Units
- Pumps
- Heating Water
- Heat Exchangers

NATURAL GAS INSTALLATIONS

The test plug used in natural gas installations is a PETE'S PLUG. It has the Dezincification resistant Brass Alloy body but must have the Neoprene Core.

TEST PLUG IDENTIFICATION

For ease of identification, the Twinlok® Test Plug uses a Red Cap Strap. The PETE's Plug uses a Black Cap Strap. 1/4" BSPT threads are identified with a groove above the thread. Twinlok® and PETE's plugs are available in 1/4" NPT or 1/4" BSPT threads.

TWINLOK® TEST PLUG

PETE'S PLUG