

ZERO-LEAK GOLD PLUG

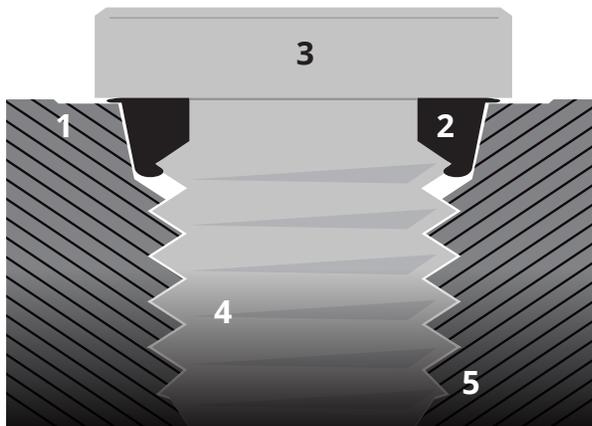
The Zero-Leak Gold Plug employs a very simple, geometry-reliant method of sealing for dependable zero-leak performance in all SAE J1926 and Metric ISO 6149 straight thread port entry plug applications. Available in hexagon and socket head styles, ZLG plugs can be made in mild steel, stainless steel and aluminum in sizes -00 through -32. Any commercially available O-ring material may be used with ZLG plugs, and magnetic plugs and fully custom plugs are also available for unique applications. All ZLG plugs provide zero-leak performance—guaranteed.

Zero-Leak Gold plugs have two seals. The first seal is a metal-to-metal seal created by the engagement of a taper in the SAE J1926 or ISO 6149 port with a mating taper in the ZLG fitting design. This engagement is several thousands of an inch long for minimal gap and high unit loading. This engagement also causes the removal torque to be greater than the insertion torque, as documented in the Fluid Power Institute tests conducted at the Milwaukee School of Engineering.

ZLG PLUG BENEFITS:

- Two Seals!
A primary metal-to-metal seal provides exceptionally high unit loading at the interface of the port and port tapers, which creates maximum gap minimization.
O-Ring back-up seal – smaller diameter
O-Ring fits below taper contact point for secondary back-up seal protection.
- Effective in vibration, temperature variation and pressure spike environments
- Tapers provide maximum gap minimization
- Allows for wide range of effective assembly torques
- No chemical sealants or tape
- Squeeze fill ratio less than 100%
- Interchangeable with standard straight thread port entry plugs
- Plugs can be resealed repeatedly without loss of effectiveness
- High unit loading
- Low profile design

O-Ring Boss Plug
SAE J1926 or ISO 6149 Ports



Zero-Leak Gold Plug
(SAE or Metric)



“VIRTUALLY LEAK FREE”

1. Port Surface must be spot faced.
2. Larger diameter O-Ring may be extruded out of port creating a possible leak path or be damaged by the threads of the plug and port.
 - Squeeze fill ratio greater than 100%.
 - O-Ring extruding and/or shredding.
 - No backup seal.
3. High torque required, may strip threads, plug or port.
4. Poor resistance to vibration – prone to backing out.
5. May require chemical sealant or tape resulting in possible contamination.

GUARANTEED LEAK FREE*

1. Plug taper engages with port taper for reliable metal-to-metal seal – spot facing not required.
2. Smaller diameter O-Ring fits in a recess below plug taper and above threads and acts as backup seal.

*Fluid Power Institute Test Data

ZERO-LEAK
GOLD
PLUGS & FITTINGS



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