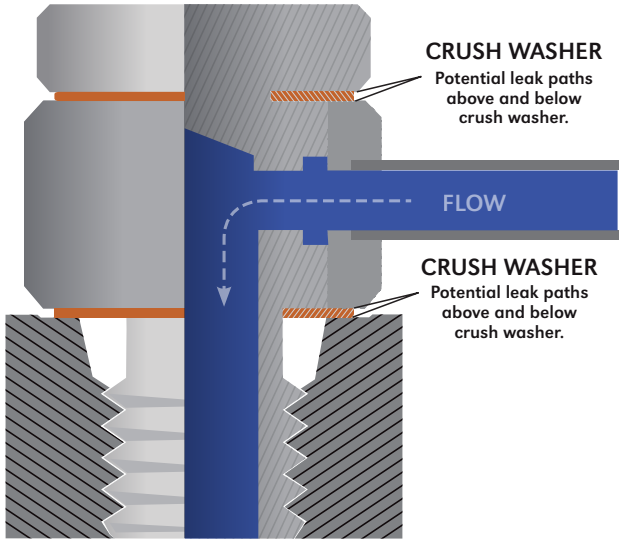
ZERO-LEAK GOLD BANJO FITTING

The Zero-Leak Gold Banjo Fitting is designed using the principles used in the Zero-Leak Gold Plug design. Banjos are designed for use in ports with tapered seats at their outer ends, such as the 0-ring boss SAE J-1926 and ISO 6149 ports.

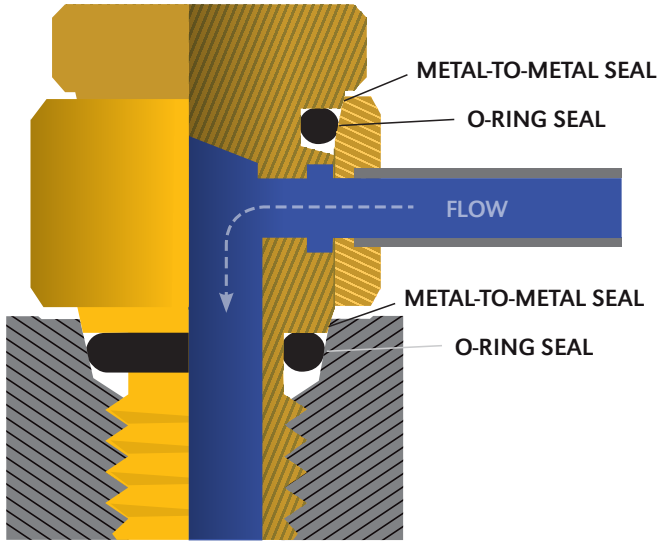
The most significant factor which distinguishes the ZLG Banjo Fitting from traditional banjos is the robust multiple seal arrangement at the component interfaces. A double redundant sealing system is accomplished by creating two entirely separate and independent seals, where a primary metal-to-metal seal works in conjunction with an elastomeric O-ring back-up seal.

Some typical service environments which have been developed for this product are diesel engine, automotive braking, air conditioning, power steering systems, agricultural and construction equipment, robotics, etc.

A Standard Crush Washer



Zero-Leak Gold Banjo



PROBLEMS WITH STANDARD BANJO FITTINGS:

- Standard banjo designs use crush washers which are difficult to seal and virtually impossible to reseal reliably.
- Poor resistance to vibration.
- High assembly torque required, leading to possibility of damaged threads and possible tensile failures of bolts.
- Components require fine surface finishes on port faces and banjo seats.
- Flow characteristics are obtained by recessing bodies in order to maintain maximum bolt strength, which may be both difficult and expensive.
- Crush washers may fall off and may be difficult to handle during the assembly process.

ZLG BANJO FITTING BENEFITS:

- ZLG multiple seal technology applied to Banjo Fittings provides a no “weep” zero-leak connection for Banjo applications. Both the primary metal-to-metal and secondary back-up seals designed into the ZLG Banjo work independently of the other.
- Separate seals – metal-to-metal and elastomeric O-rings provide protection against “weeps” and leaks.
- Significant cost reductions may be obtained in most applications.
- Makes use of the geometry of the taper and system pressure for exceptional performance in many conditions.
- Invokes elastic memory between mating parts for extended life in vibration environments.
- Allows for a wide range of assembly torque values.
- ZLG Banjo Fittings may be resealed repeatedly without loss of effectiveness.
- Increases choice of component materials since high assembly torque is not a requirement.
- Effective in vibration, temperature variation or pressure spike situations.
- Compactness of design allows for greater flexibility of system design.
- Utilizes standard machining surface finishes and +/- .005" tolerances.
- Integrated body and bolt enhance speed and ease of assembly in production.
- No crush washers required.

ZERO-LEAK GOLD® PLUGS & FITTINGS

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