

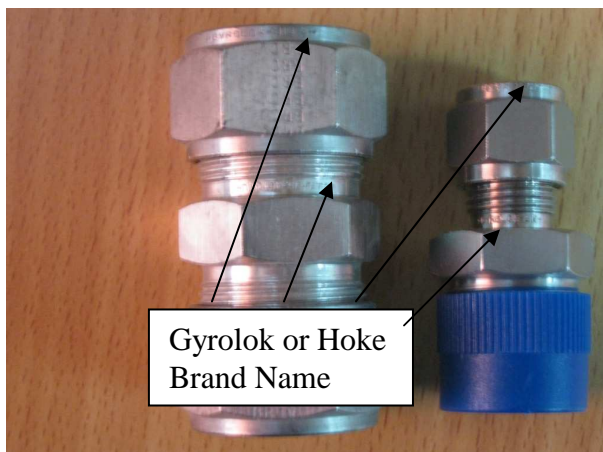
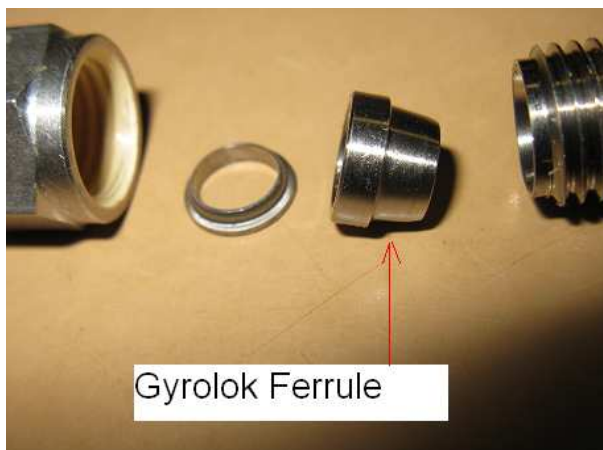
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Warning

The Intermixing of Swagelok and Gyrolok (Hoke) stainless steel fittings including ferrules and cap assemblies is an unacceptable practise on the DBNGP.



Brief description of event:

- There have been incidents of intermixing of Swagelok and Gyrolok (Hoke) Stainless Steel fittings, specifically the Ferrules and Cap assemblies on compression taper type fittings, used on gas and oil pipe installations on the DBNGP.
- The 2 brands look very similar, the threads are the same and the parts will fit each other, but the machining tolerances of the individual ferrules and cap assemblies suit the one brand only.
- Mixing of the 2 brand parts may cause a failure of the tube swage capability, with a resultant pressure release, equipment damage and/or personal injury.

Extent of injury/damage:

- There have been no known incidents of injury or damage through intermixing of the 2 brands on the DBNGP, but there have been cases of incorrect assembly causing pipe and fitting fatigue which have led to pipe failures.

Contributing Factors:

- The DBNGP has had extensive use of Swagelok fittings in the past and recently constructed facilities. Field Services currently only supply Gyrolok fittings as inventory items.

Local action taken:

- Repair of the incorrectly assembled fittings to manufactures standard parts.

ZERO HARM Learning's:

- A review is to be undertaken to identify what is our current spread of fittings are (in general terms), which sites have been designed to which brand of fittings and appropriate level of spares.
- Review current Inventory in Jandakot and Remote site stores, ensure fittings are available as required for both styles at all sites.
- Review the current fitting training that is undertaken, to ensure **both** Swagelok and Gyrolok (Hoke) stainless steel fittings, including ferrules and cap assemblies, are covered including the issues associated with intermixing brands.

FURTHER INFORMATION –

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