

Technical Data Sheet

Preventing Stainless Steel Galling with Lead-Free Brass Inserts

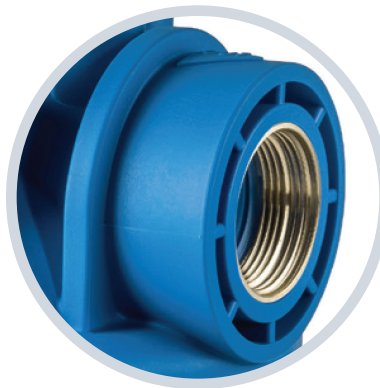
Stainless steel fittings can cause a process called **galling** (or cold welding).

It happens because stainless steel has a protective **oxide layer**. When you thread two stainless parts together, the friction can scrape that layer off, exposing “naked” metal. Without that barrier, the high spots on the threads physically bond together under pressure, essentially locking them into a single solid piece.



Galled vs. Serviceable Threads

To prevent this, Atlas Filtri now offers lead-free brass inserts in place of the stainless steel insert of the past.



Lead-free Brass Inserts

Check out all of Atlas Filtri’s various solutions and kits to meet the application requirement for your filtration needs at atlasfiltri.com.