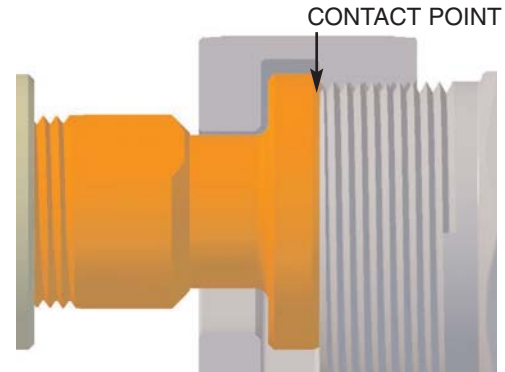


# HOW TO REMOVE SIGHT GLASS FROM VESSEL

Inferno valves include an undercut in the union nut in order to achieve maximum C-C adjustment. When removing the sight glass assembly you must assume that the tailpiece flange is captured within the undercut. The valve body and sight glass must be pulled away from the tailpieces as the nuts are unscrewed. Do not try to move the nut back from the valve towards the vessel. Follow these steps to avoid damage to tailpiece and threads in nut.

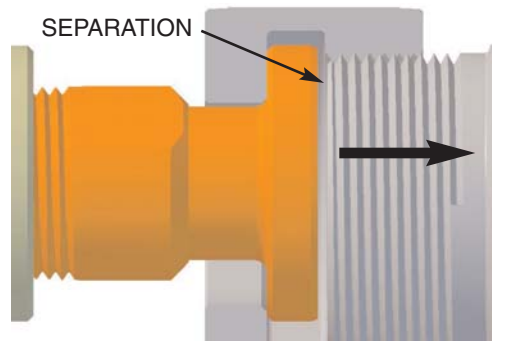
STEP 1- Unscrew upper & lower union nuts together, alternating, one or two turns at a time to avoid binding.

If there is resistance then the first thread of the nut is making contact with the face of the tailpiece. Unscrewing the other union nut should eliminate the binding.

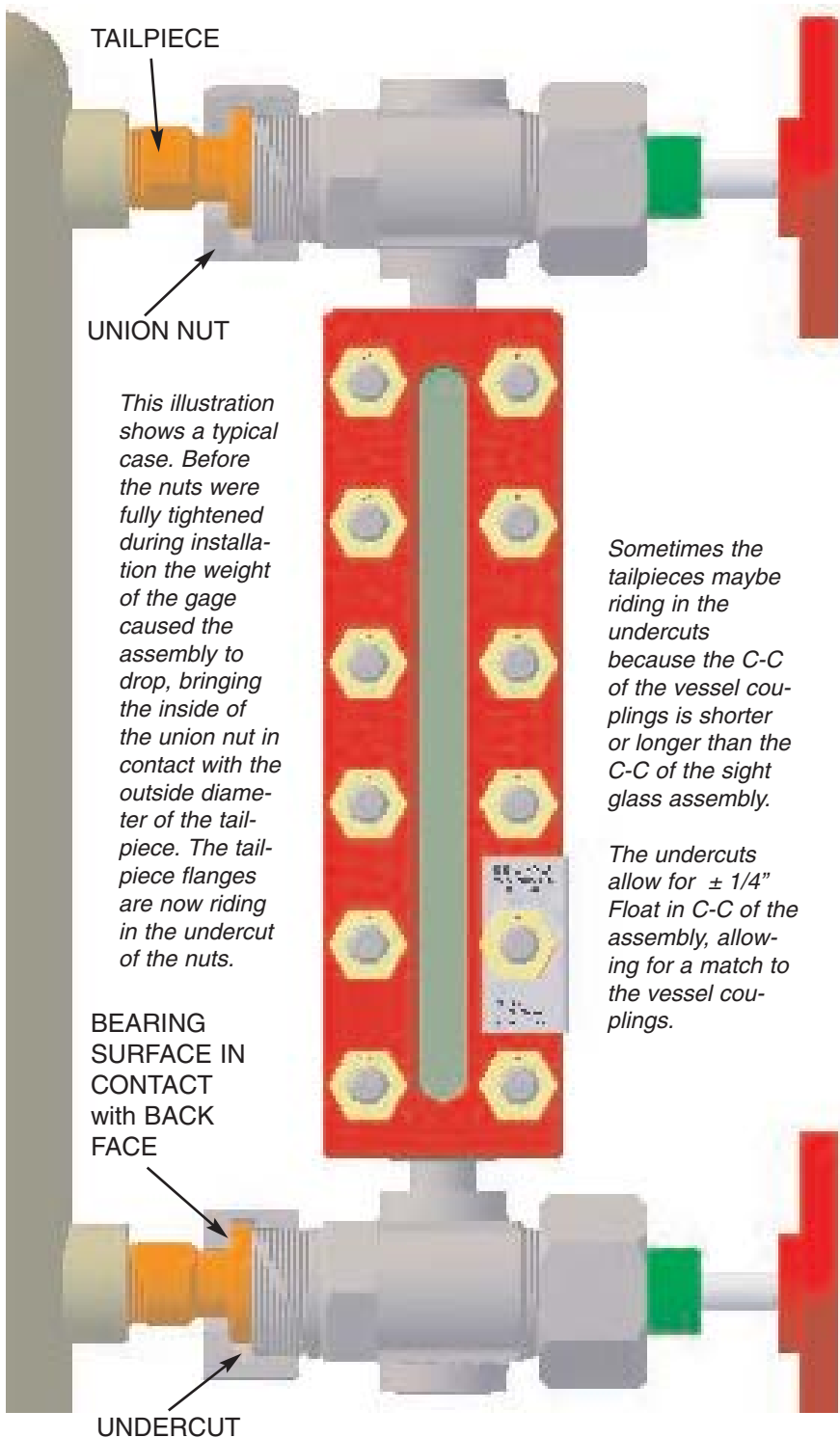
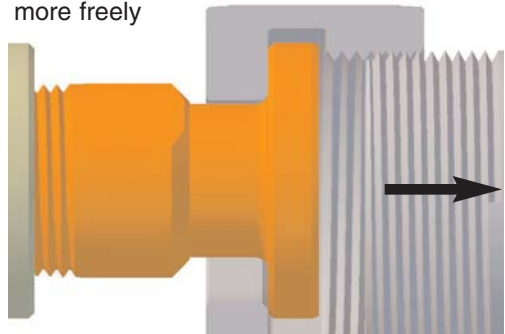


STEP 2- With both union nuts loose, grab hold of the sight glass assembly and pull it back away, so that the face of the valve bodies separate from the front faces of the tailpieces. As the nut unscrews don't try to pull it back toward the vessel; just spin it in place and let the valve body push away instead.

Maintain contact between Nut and Tailpiece on the "Bearing Surface", see illustration at lower left. This keeps the top of first thread in the nut from getting damaged. If it does get damaged it will gall on the valve body when the connection is remade, and seize.



STEP 3 - Repeat the process, Unscrew-Pull Back-Unscrew... Lifting the sight glass assembly up will allow the nuts to spin more freely



This illustration shows a typical case. Before the nuts were fully tightened during installation the weight of the gage caused the assembly to drop, bringing the inside of the union nut in contact with the outside diameter of the tailpiece. The tailpiece flanges are now riding in the undercut of the nuts.

Sometimes the tailpieces maybe riding in the undercuts because the C-C of the vessel couplings is shorter or longer than the C-C of the sight glass assembly.

The undercuts allow for  $\pm 1/4$ " Float in C-C of the assembly, allowing for a match to the vessel couplings.