FLEX-LOCK METAL SEAL SYSTEM FOR WELLHEAD MEMBERS

Abstract

A wellhead seal assembly forms a metal-to-metal seal between the inner and outer wellhead members. A metal seal ring has inner and outer conical walls separated by a tapered slot. An energizing ring has inner and outer annular members that are separated by an annular cavity. When the energizing ring is moved further into the slot, the cavity width decreases but remains to provide a preloaded radial force to the seal ring.

Figure : 1