

ABSTRACT

METAL-TO-METAL WELL EQUIPMENT SEAL

A metal-to-metal sealing system is described for forming a pressure-activated connection between two pieces of equipment under HPHT (high pressure high temperature) conditions which will degrade elastomers. The roughly cylindrical seal comprises four sealing surfaces, two sealing surfaces formed by the circular longitudinal edge, and two sealing surfaces formed by either side of a bulge located halfway along the outer diameter. These surfaces correspond with sealing surfaces on the pieces of equipment to be joined. These pieces of equipment also utilize testing ports in fluid communication with the seal in order to ensure a secure connection.

FIG. 3A