

## **PISTON LOAD RING SEAL CONFIGURATIONS**

### **ABSTRACT**

A technique facilitates improved sealing with respect to safety valve pistons so as to improve reliable safety valve operation. According to an embodiment, a safety valve piston seal assembly is positioned about a safety valve piston and comprises components which divert a load path to the safety valve piston rather than to susceptible components of the seal assembly. For example, the seal assembly may comprise a load ring and spacers to energize a V-ring when pressure is applied to a metal spring energized (MSE) seal. However, the components are arranged so the load path is diverted to the safety valve piston when pressure occurs behind the V-ring instead of allowing the loading to act against the MSE seal.

Fig. 2