

ABSTRACTGAS IMPERMEABLE STATIC SEAL

A static gas-tight seal between cylindrical components has a seal element (45) constructed from gas-impermeable material, arranged to be compressed into sealing engagement with inner (10) and outer (15) mandrels. The compression of the seal element (45) is accomplished through the use of a threaded connection (20) that advances opposing shoulders (30,35) inwardly onto the seal assembly. Metal retainer rings (55a,55b) are provided about the seal element (45) for abutting engagement with the shoulders at exterior ends of the seal assembly and for mating engagement with the seal element. Each retainer ring has flarable skirt portions (60) that prevent extrusion of the seal element from between the pair of retainer rings.