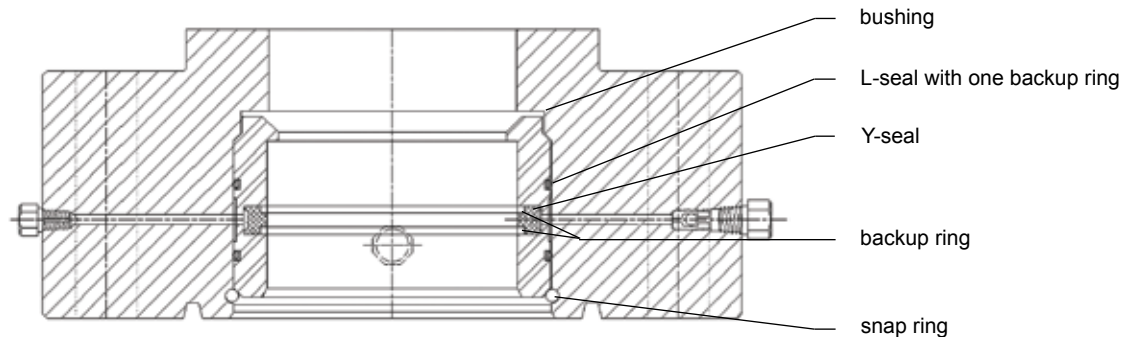


PI Bushing



The Type PI Bushing Secondary Seal is hydraulically actuated by plastic injection which compresses a P-shaped moulded elastomeric ring around the casing. Two seals on the outer diameter of the bushing contain the plastic from migrating to the well bore.

Two separate wire mesh anti-extrusion rings on each side of the moulded P-ring prevents extrusion of the seal.

The seal can be re-energized at anytime by injecting more plastic through an injection port.

The advantage that a PI Bushing offers versus the PI Secondary Seal is that it allows the use of one head to cover multiple casing sizes.

The PI Bushing is recommended for working pressures up to and including 10,000 psi.

Features/Options:

- seal consists of elastomeric ring in combination with two separate wire mesh anti-extrusion rings
- seal is energized by injecting plastic that is capable of withstanding high pressure differentials
- additional plastic can be injected as required
- excess plastic can be bled off
- test port provided between PI seal and ring groove for field test
- PI Bushings are recommended for pressures up to and including 10,000 psi
- all standard and special casing sizes available
- all flange sizes available
- seal available as secondary seal in tubing heads, casing heads, tubing head adapters and packoff flanges
- bushings retained by snap ring up to 5,000 psi
- bushings retained by threaded ring up to 10,000 psi
- bit guide is designed to guide the drill bit through the assembly, protecting the upper surface of the casing on the way in