

Polished Bore Receptacle (PBR)



Reliable Sealing Through Thermal Liner Movement

Thermal expansion in steam and solvent injection wells can cause liner movement, seal failure, steam bypass, and uneven reservoir performance.

Core Design's Polished Bore Receptacle (PBR) works with the Flow Control Hanger (FCH) to maintain a continuous seal while allowing up to 7 meters of thermal liner movement.

The precision-honed sealing surface features a hardened surface treatment and is matched to the FCH steel seals for durability, corrosion resistance, and reliable performance under high temperatures and pressures.

Applications:

- Thermal steam and solvent injection wells.
- Vertical and horizontal wells requiring liner movement and heel isolation.

Key Advantages:

- Maintains a continuous seal during thermal movement.
- Accommodates up to 7m of liner movement.
- Hardened, corrosion-resistant sealing surface.
- Built-in no-go profile supports proper FCH placement.
- Matches the casing grade, dimensions, and connections.
- Reduces steam bypass and supports uniform steam distribution.

Specifications:

Casing:	9.625", 40#, L80
Thread:	Modified High Torque
Joint Yield Strength:	916,000 lbs
Max Operating Torque:	18,860 ft/lbs
Yield Torque:	20,960 ft/lbs
Rupture Pressure:	5,750 psi (40 MPa)
Tool OD:	10.625"
Tool ID:	8.62"