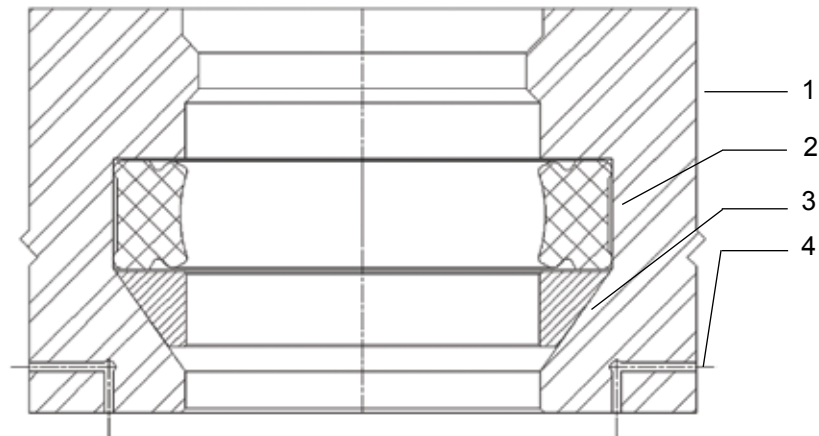


Type CP Built-In



Type CP Built-In Secondary Seal Parts List

1	Housing/Head
2	Seal
3	Anti-extrusion Ring
4	Test Port

The Crown Type CP-Built-In Secondary Seal is an interference energized seal assembly consisting of a custom-built CP Packing Rubber. This seal is intended for 4" to 6" casing cut-off. The square groove profile can be included in any tubing head, casing head or packoff flange.

The packing rubber has double-lip seals on the inner and outer diameter to ensure positive sealing from either direction. Below the seal is a triangular anti-extrusion ring. The interference in the seal between the

casing and the groove generates the seal. The packing ID has a minimum interference of 0.031 inches against minimum casing diameter as per API 5CT casing tolerances of +1% and -0.5%. The same interference exists between the outside diameter of the seal and groove seal diameter.

The integral bit guide is designed as part of the housing to guide the drill bit through the housing when the bit is lowered through it. The inside shoulder protects the upper edge of the casing.