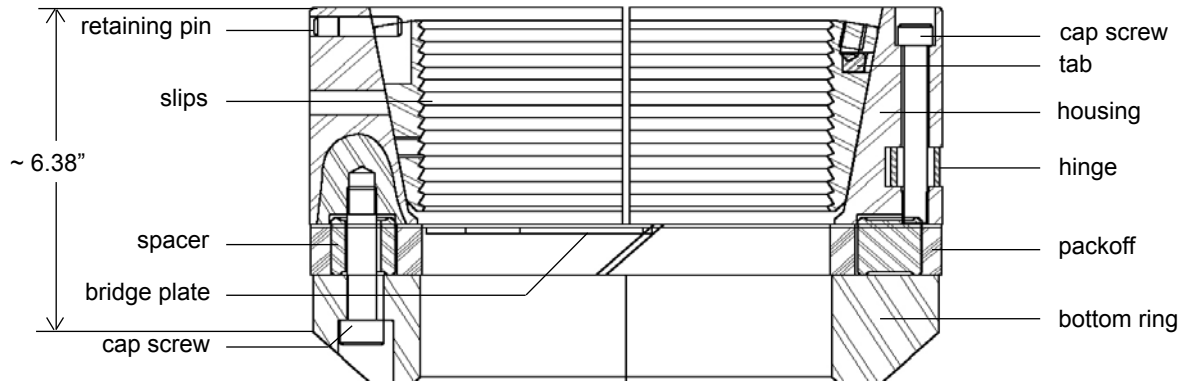


Crown Casing Slip Model CC-23

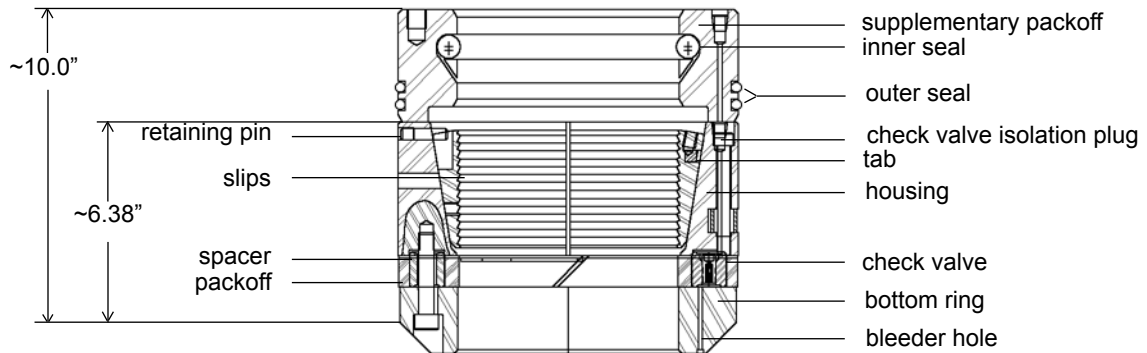


Features:

- Designed for moderate load and high pressure applications
- API 6A Group II casing hanger
- Will fit in Crown CC-22 and CC-29 casing heads or in Crown CU universal heads
- Slips are fully supported by housing
- Integral packoff is automatically energized by string weight
- Minimum of 40,000 lbs required to energize seal
- Packoff compression is controlled to reduce impact on casing
- Packoff contains anti-extrusion features to improve seal performance
- Maximum test pressure may be limited by casing collapse pressure, string weight or flange rated working pressure

The Crown CC-23 casing hanger is a wraparound hanger and can therefore be installed under or through the BOP stack. This automatic seal casing hanger has an integral, compression type seal mechanism which is automatically actuated by the weight of the casing string. Packoff extrusion is controlled by spacers and bridge plates within the seal. The slips have a tapered back that matches the taper on the inside of the slip bowl. As the slips are loaded by casing weight, they are drawn downward and forced inward.

Crown Casing Slip Model CC-23X



Features:

- Designed for moderate load and high pressure applications
- API 6A Group II casing hanger
- Will fit in Crown CC-29 casing heads or in Crown CU universal heads
- Slips are fully supported by housing
- Integral packoff is automatically energized by string weight
- Minimum of 40,000 lbs required to energize seal
- Packoff compression is controlled to reduce impact on casing
- Packoff contains anti-extrusion features to improve seal performance
- Maximum test pressure may be limited by casing collapse pressure, string weight or flange rated working pressure
- Can be run as the CC-23 (without primary) when vent is disabled.

The Crown CC-23X casing hanger is a wraparound hanger and can therefore be installed under or through the BOP stack. It can be used to suspend casing from a Crown CC-29 or FBS-29 casing head. The Crown CC-23 supplementary primary packoff accompanies this casing hanger. This casing hanger incorporates an internal check valve which ensures that the slips are isolated from pressure after installation of the supplemental primary packoff.

The Crown CC-23X automatic seal casing hanger has an integral compression type seal mechanism that is automatically actuated by the weight of the casing string. Packoff extrusion is controlled by spacers and bridge plates within the seal. The slips have a tapered back with a controlled surface finish. As the slips are loaded by casing weight, they are designed to minimize casing collapse. The maximum test pressure may be limited by casing collapse pressure or the flange-rated working pressure.

When ordering Crown Casing Hangers, please specify the following information:

- 1) *Crown Model*
- 2) *Casing Head model and size*
- 3) *Production Casing size, depth, weight and grade*
- 4) *Manual or Automatic type*
 - a) *For Manual type, specify if a Primary Seal is required*
- 5) *PSL requirement*

Available to meet all appropriate API-6A requirements.