

CBNS-R Bottom No-Go Lock

CBNS-R-series locks are bottom no-go substitute locks designed to be used as either the bottom lock or the only lock in the tubing string. They are landed in a DN no-go landing nipple.

APPLICATION

- Anchor for subsurface control device in single or dual completion

BENEFITS

- An additional step is provided in stepped bore installations.
- Locking dogs support all the load on the nipple in both directions.

FEATURES

- Internal fishing neck
- Dependable ratchet hold-down
- Bottom no-go style
- Field-proven design
- Available in various materials
- Choice of sealing systems

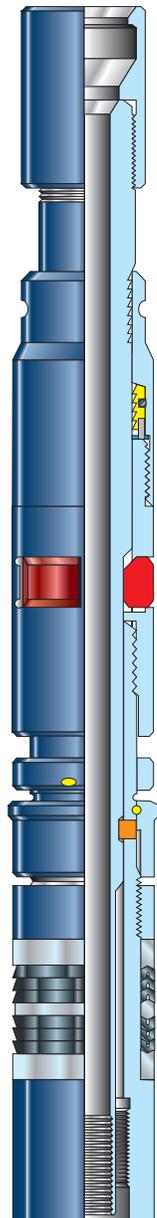
The CBNS-R lock attaches to a subsurface control device and anchors it in position in the tubing string. Each lock features an internal fishing neck that allows a large bore through the lock and is held in the locked position with a field-proven ratchet-locking assembly. The design of the CBNS-R locks allows the locking dogs, rather than the no-go ring or the no-go release ring, to support the pressure differential applied from above or below the lock assembly.

The CBNS-R lock is used in applications involving differential pressures to 10,000 psi [68,950 kPa] from above or below the lock assembly. Optional high-temperature packing for temperatures above 300°F [149°C] is available for the CBNS-R locks.

DESCRIPTION AND OPERATION

When installing a CBNS-R lock in the appropriate nipple, the lock and attached flow control device are attached to the appropriate D-series running tool and run into the tubing using standard slickline methods. This assembly is lowered until the no-go of the lock lands on the no-go shoulder of the nipple. Downward jarring moves the no-go ring up and releases the expander tube, enabling it to move down. This forces the locking dogs of the lock into the locking recess of the nipple and anchors the assembly. Further jarring shears the release ring and allows the locking dogs to engage the upper and lower end of the locking recess. This provides a substantially larger bearing area that enables the lock to support more applied or formation pressure.

When removing the lock after pressure equalization, upward jarring with the appropriate PRS-series pulling tool unlocks the assembly and allows it to be pulled from the well.



CBNS-R Bottom No-Go Lock Specifications

No-Go OD (in. [mm])	Packing OD [†] (in. [mm])	Min. ID (in. [mm])	Inside Fishing Neck ID (in. [mm])
1.796 [45.6]	1.765 [44.8]	0.562 [14.3]	1.250 [31.8]
2.240 [56.9]	2.203 [56.0]	0.750 [19.1]	1.500 [38.1]
2.734 [69.4]	2.703 [68.7]	1.250 [31.8]	1.675 [42.5]

[†] Other sizes are available on request. Contact your local Schlumberger representative.