

DB-6-E Top No-Go Lock

The DB-6-E lock is a nonselective top no-go locking device designed to be landed in a DB-6 landing nipple and a B-6-series hydraulic landing nipple.

APPLICATION

- Anchor and seal device for pressure-control equipment in single or dual completions

BENEFITS

- One-trip setting
- One-trip retrieval
- Operational versatility
- Allows higher differential pressure above the lock

FEATURES

- Top no-go style
- Expendable no-go design to allow full-rated working pressure from above
- Two expander tube hold-down mechanisms
- Internal fishing neck
- Tattletale on running tool
- Field-proven design
- Available in various materials
- Choice of sealing systems

The lock anchors and seals an attached pressure-control device in position in the tubing string. This lock features a unique, expendable no-go ring that deforms when high differential pressure is experienced above the lock. This allows the locking dogs to support the force and prevent possible deformation damage to the lock or landing nipple. The expendable no-go ring is replaced on each trip into the well.

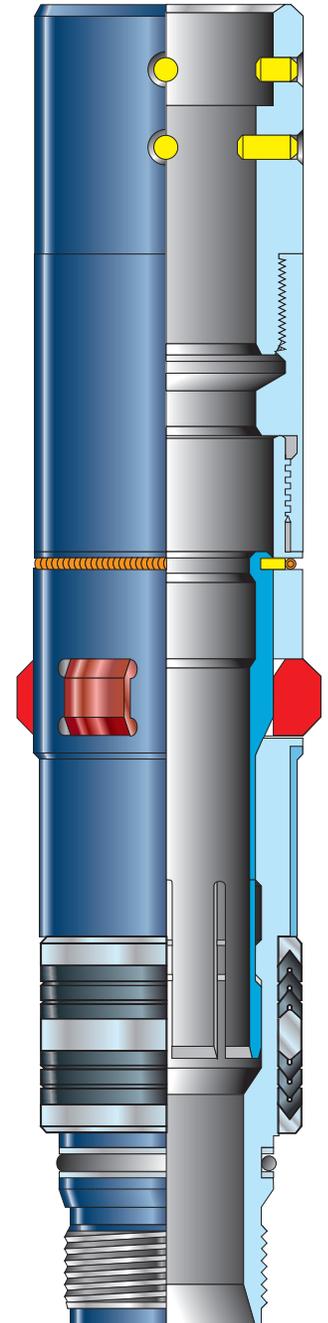
These locks are used in applications where differential pressures to 5,000 psi [34,475 kPa] are expected above and below the lock assembly. Optional high-temperature packing for temperatures above 300°F [149°C] is available for the DB-6-E lock.

Each DB-6-E lock features an internal fishing neck that allows a large bore through the lock. When set in position, an internal sleeve, the expander tube, is held in the locked position by both a collet and shear pins that prevent unlocking at high flow rates. The DB-6-E lock is also designed to use the Z-6 tattletale-type running tools, which give the slickline operator a positive indication that the assembly is in the locked position.

DESCRIPTION AND OPERATION

The DB-6-E lock is installed in the appropriate landing nipple using standard slickline methods. The lock and attached flow control device are connected to the appropriate Z-6-series running tool and lowered into the tubing until the lock no-go lands on the no-go shoulder of the nipple. Downward jarring moves the expander tube down and engages the locking dogs in the locking recess of the nipple to anchor the assembly.

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



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DB-6-E Top No-Go Lock Specifications		
No-Go OD (in. [mm])	Packing OD[†] (in. [mm])	Min. ID (in. [mm])
3.172 [80.6]	3.125 [79.4]	1.875 [47.6]
3.234 [82.1]	3.187 [80.9]	
3.296 [83.7]	3.250 [82.6]	
3.360 [85.3]	3.312 [84.1]	
3.484 [88.5]	3.437 [87.3]	
3.547 [90.1]	3.500 [88.9]	2.250 [57.2]
3.609 [91.7]	3.562 [90.5]	
3.657 [92.9]	3.625 [92.1]	
3.735 [94.9]	3.687 [93.6]	
3.785 [96.1]	3.750 [95.3]	
3.843 [97.6]	3.813 [96.9]	
3.910 [99.3]	3.875 [98.4]	
3.975 [101.0]	3.937 [100.0]	2.781 [70.6]
4.046 [102.8]	4.000 [101.6]	
4.110 [104.4]	4.063 [103.2]	
4.172 [106.0]	4.125 [104.8]	
4.360 [110.7]	4.312 [109.5]	
4.482 [113.8]	4.437 [112.7]	
4.545 [115.4]	4.500 [114.3]	
4.610 [117.1]	4.562 [115.9]	4.000 [101.6]
5.795 [147.2]	5.750 [146.1]	
5.858 [148.8]	5.813 [147.7]	
5.890 [149.6]	5.813 [147.7]	
5.920 [150.4]	5.875 [149.2]	
5.982 [151.9]	5.937 [150.8]	
6.045 [153.5]	6.000 [152.4]	

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

www.slb.com/completions

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