

DB-6-HP-Series Top No-Go Lock

The DB-6-HP-series lock is a nonselective top no-go lock designed to be landed in a DB-6-HP 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 lock
- Enlarged no-go for higher pressure use
- Internal fishing neck
- Two hold-down mechanisms
- Field-proven design
- Tattletale on running tool
- Available in various materials
- Choice of sealing systems

The lock anchors and seals an attached pressure-control device into position in the tubing string.

This series includes the DB-6N-HP lock, which features a substantially larger no-go area than the DB-6-HP lock. The DB-6N-HP lock is a bottom no-go lock designed to be installed in a bottom no-go DB-6N-HP landing nipple and is normally used as the bottom nipple in the tubing string.

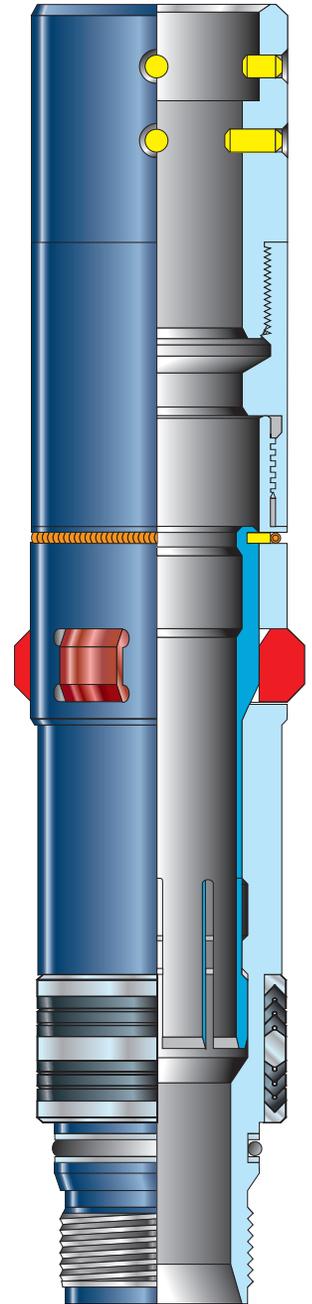
DB-6-HP locks are used in applications involving differential pressures up to 10,000 psi [68,950 kPa] from below the lock assembly. Ratings for differential pressures from above the lock vary with each assembly. Optional high-temperature packing for temperatures above 300°F [149°C] is available for the DB-6-HP-series lock.

Each DB-6-HP 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 a collet mechanism and shear pins that prevent unlocking at high-flow rates. The DB-6-HP lock is also designed to use the Z-6 tattletale-type running tool, which gives the slickline operator a positive indication that the assembly is in the locked position.

DESCRIPTION AND OPERATION

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

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



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DB-6-HP-Series Top No-Go Lock Specifications			
Type	No-Go OD (in. [mm])	Packing OD[†] (in. [mm])	Min. ID (in. [mm])
DB-6N-HP	3.050 [77.5]	3.125 [79.4]	1.875 [47.6]
	3.087 [78.4]	3.187 [80.9]	
DB-6-HP	3.190 [81.0]	3.125 [79.4]	1.781 [45.2]
	3.287 [83.5]	3.187 [80.9]	
	3.320 [84.3]	3.250 [82.6]	
	3.412 [86.7]	3.312 [84.1]	1.875 [47.6]
	3.550 [90.2]	3.437 [87.3]	
	3.662 [93.0]	3.562 [90.5]	2.250 [57.2]
	3.787 [96.2]	3.687 [93.6]	
DB-6N-HP	3.820 [97.0]	3.937 [100.0]	2.250 [57.2]
DB-6-HP	3.925 [99.7]	3.813 [96.9]	
	4.067 [103.3]	3.937 [100.0]	
	4.255 [108.1]	4.125 [104.8]	
	4.442 [112.8]	4.312 [109.5]	
	4.630 [117.6]	4.500 [114.3]	

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

www.slb.com/completions

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