PORTED GAS LOCK BREAKER

WESTERN OILFIELD SPECIALTIES CORP.

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The Western Oilfield Ported Gas Lock Breaker is a low-cost bushing that will prevent a properly spaced rod pump from gas locking. Even if the pump is poorly spaced, after two or three strokes the gas lock will be broken.

The Gas Lock Breaker is a bushing that is installed between the plunger pin and the travel cage. This design can be used in top hold down or bottom hold down stationary barrel pumps or on tubing pumps.

The Gas Lock Breaker bushing contains a tungsten carbide insert with a 0.024" orifice, that provides a controlled leak during the upstroke.

How it works

A 1-1/2" bore pump operating with a 120" stroke length at 6 SPM set at 1500m with 450m of fluid above the pump, will leak about 1.5 cm of fluid during each up stroke. As soon as the travel valve contacts this fluid in the barrel, the gas lock is broken.

Applications

The Ported Gas Lock Breaker should always be used in Wells that are pumped intermittently. Usually when the Well is shut down electronically, the pump is gas locked. If the plunger fit is tight, there is a good chance the pump will still be gas locked at start up and cause the Pumping Unit to shut down after starting up. The Ported Gas Lock Breaker prevents this by filling the barrel during shut down.

Other applications are low volume wells that must always be on tap, gassy wells and tubing pumps in a gassy application. It's safe to use on every stationary insert pump and tubing pump. The Ported Gas Lock Breaker is not recommended for use in sandy applications.