

Plunger lift application

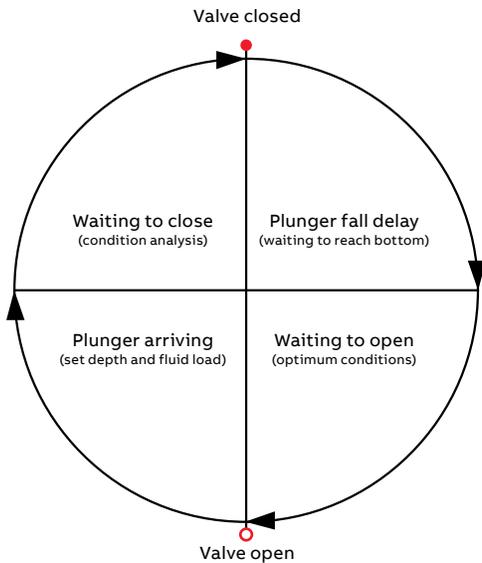
Production optimization solutions

The ABB Plunger Lift Application is designed to optimize asset utilization through intelligent well control, designed to operate even the most challenging plunger lift installations. Making use of field tested and proven algorithms, designed to allow the well to dictate its operating parameters, the application can dynamically respond to production opportunities as they arise as well as protect the asset in the event of a field upset.



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01 Plunger lift circle of life
02 Intelligent optimization built into the plunger lift system

How?

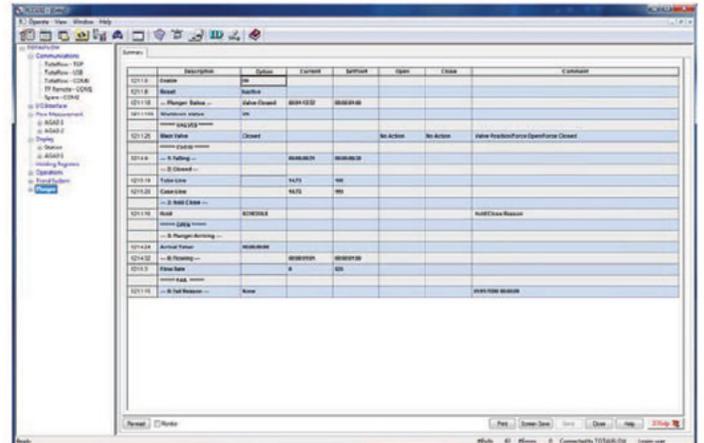
Based on the simple idea presented in the 'Plunger Lift Circle of Life' to the upper-left, the system will react according to the well's ability to produce.

Set the expected time for the "Plunger Fall Delay" – and wait for the plunger to reach bottom. Set one or more conditions in the "Waiting to Open" phase and the system will automatically open when conditions are optimum. Select one option or all, the first one to happen will move you to the next step. You can choose options such as timer based control to more advanced pressure control.

During the "Plunger Arriving" state, simply set the normal arrival windows according to your depth and fluid load. If adjustments are needed, the system will help you during the next cycle to achieve the optimum balance.

Once the plunger is up, there are a variety of options that will assist in determining if the optimum condition has been achieved, from advanced casing pressure monitoring to traditional rate controls.

When combined with the ABB Plunger Analysis Software, you will have the most powerful, intelligent, and cost effective solution available.



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Why?

The ABB Plunger Lift Application is built around customer driven, tried and true options. When combined with ABB's other built in applications for measurement and control, we can provide you with the largest selection available, and an all-in-one solution.

We use a unique set of auto-tuning parameters based on the well's current performance that continues to adjust based on field conditions. Pressure and rate based options give you the ability to configure a system that is dynamic and flexible. Combine the Plunger Lift Application with other built-ins such as; Gas Lift, Chemical Injection, and Shutdown System, to produce a safer, more effective, and most importantly, more economical device.

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