

## Product Information Bulletin

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### ***PosLock<sup>®</sup> Operators Using Multi-Ram<sup>™</sup> Assemblies***

When using Multi-Ram assemblies in Shaffer blowout preventers with PosLock operators, adjustment of the locking pressure must always be made on the smallest size pipe to be used. This is necessary to ensure unrestricted travel of the rams.

The PosLock operator was designed to lock in one position. Customers using Multi-Ram assemblies in preventers with PosLock operators should be aware of the following:

1. With closing hydraulic pressure applied, the Multi-Rams will maintain wellbore pressure throughout the range, provided they have been adjusted on the smaller size pipe.
2. In the event the closing hydraulic pressure is lost they will only lock on the pipe size to which they were adjusted.
3. If closing hydraulic pressure is lost while sealing on the larger sizes of pipe, the PosLocks will not be engaged in a locked position; therefore, the ram assemblies may not maintain a positive wellbore seal.

Shaffer recommends Multi-Ram be used with UltraLock<sup>™</sup> operators. In the event closing hydraulic pressure is lost, UltraLock operators are designed to lock on multiple positions and will maintain a positive wellbore seal throughout the Multi-Ram pipe range.