Spooling Recommendations for Eaton's Synflex Bop Bundles

Caution:

BOP Hose Bundles may be seriously damaged by introducing hose ovality (flattening) of the initial wraps onto the BOP Hose reel. Ovality or crushing damage is caused by excessive tension on hose bundles with no fluid or internal pressure during the installation of the bundle on the BOP hose reel.

Initial Installation:

To eliminate ovality of the Hose during installation it is recommended to first fill the pilot and center conductor hoses with BOP Control fluid and pressurize each hose to 500-1,000 psi. After pressurizing, begin the installation of the bundle onto the BOP Hose reel. It is also recommended to monitor the installation by using the following steps:

- Uniformly traverse the hose bundle across the inner drum of the Bop Hose reel.
- Maintain a level wind to prevent hose "crossovers" during the spooling process.

If the hose or bundle is not filled with fluid, the winding tension MUST be minimized to avoid flattening of the inner wraps and potential subsequent damage to the hose or reel when the hose/bundle is pressurized on the reel.

- For unfilled bundles, using the deployment reel to pull the bundle off the delivery spool is HIGHLY discouraged and is known to cause ovality and contribute to premature failures.
- Tension in the bundle needs to be reduced and controlled by using either catenary pullers or a means of driving the delivery spool separate from the deployment reel.

BOP Hose Reel design recommendations:

- Minimize the number of hose layers on the reel to ten (10) or less.
- Use largest inner drum diameter possible, and always above the stated Bundle Minimum Bend Radius (MBR) – indicated on marking text of bundle.

Instructions for use:

In addition to the installation recommendations above:

- Crushing of the inner wraps may be caused by excessive reel tension when reeling up subsequent layers of the Hose wraps when pulling the BOP. The reel tension should be regulated to the minimum tension required to reel up the hose.

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