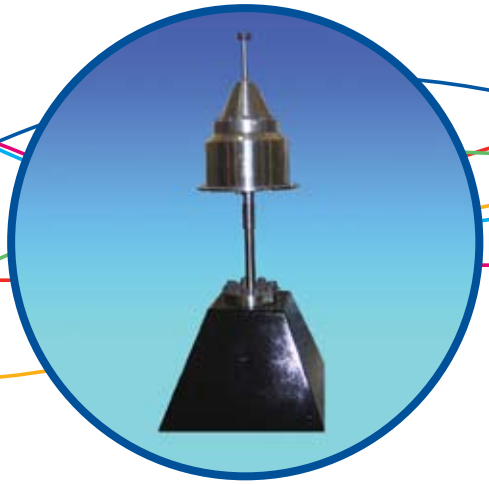

Flush-by Brake

The Flush-by Brake is one of Nov Monoflo's many value added products that was developed to create a safer working environment. This innovative piece of equipment attaches directly to the rod elevators on any flush-by or service rig and is designed to prevent uncontrolled backspin that can be created by a progressing cavity pump.

In a progressing cavity pump application, the pump rotor can seize in the pump stator. In order to resolve this issue the well operator will hire a flush-by unit to pull the rotor free of the stator, and flush fluid down the tubing to clean out the pump stator and intake. One of the problems associated with this process is that once the rod string is pulled up even slightly, it disengages from the backspin control mechanism of the wellhead drive. If this happens while the rotor is still engaged in the stator, the fluid column above the pump may cause the rotor and rod string to turn backwards. The combination of well fluid and pump geometry can produce extremely high speeds and cause the unsupported polish rod to ''whip''. This may cause the rigging of the flush-by unit to interwine and even break. The bottom of the Flush-by Brake connects to the top of any polish rod and as the rotor is pulled free of the stator this hydrodynamic braking system retards this backspin created from the fluid drive and reduces the risk of injury and damage to equipment.

Features & Specifications

- Attaches directly to the rod elevators on any flush-by or service rig
- Bottom connects directly to the top of any polish rod
- Capable of 1500 ft-lbs brake torque
- Rated lift - 44,000 lbs
- Top connection - 1'' rod elevators
- Bottom connection - 1'' API sucker rod threads
- Ca90 rating - 25,000 lbs

Benefits

- Reduce the risk of injury or equipment damage due to uncontrolled backspin
- Once spin is complete there is no energy stored in the Flush-by Brake or the rod string
- Breaking action is immediate, smooth and wear-free
- No brake maintenance is required

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