

# Varco Systems Pipe Handling System Motor Brake Upgrade

## Posistop X-Class Brakes Solve the Problem

There has been an ongoing reliability issue with the electric brakes utilized on the PRS hoist carriage and arm linear actuator motors. The main problem area has been corrosion of the internal electric brake components due to water ingress. Maintenance has also been an issue as these electric brakes were explosion proof for hazardous area use and could only be serviced by the European Supplier.

### Where are they used:

This reliability problem affects the Varco PRS-3, -3i, -4i, -5, -5R and -6i Pipe Handling systems.

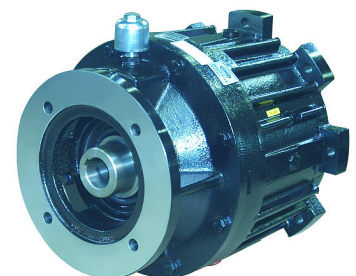
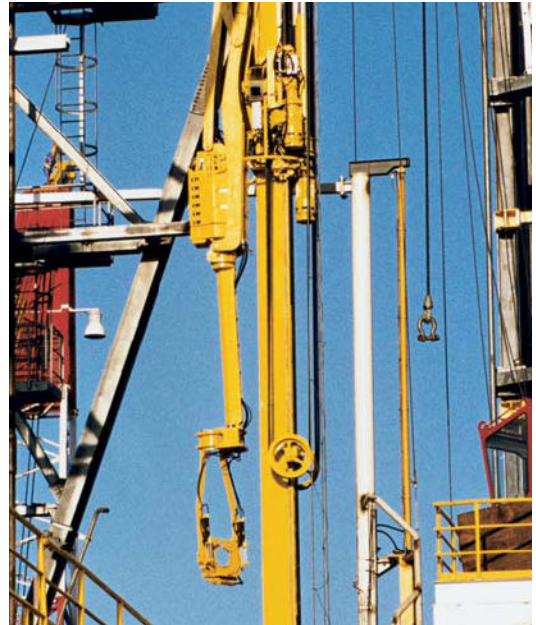
### Assemblies affected included:

1. Hoist Carriage
2. Gripping Arm Linear Actuator
3. Trailing Arm Linear Actuator
4. Lower Drive

### The Solution:

The Posistop X-Class Motor Brake is designed with patented oil shear technology for smooth precise stops and long service life. The rugged cast iron totally enclosed housings provide high heat dissipation and protects the multiple friction surfaces from hostile environments.

- **Protected from the Environment**
  - Totally enclosed and sealed marine duty unit prevents contamination; corrosion and failure do to salt water environment.
- **Ultra-Quick Response**
  - Engages in less than 10 msec.
- **Ease of Installation**
  - "Quick Mount" design means just that, quick and easy mounting to standard NEMA and IEC motors. It comes ready to install. It does not require any disassembly of the brake for installation.
- **Easy Maintenance**
  - Normal maintenance requires only periodic checking and maintaining the oil level. A simple method of checking stack wear to predict and schedule maintenance. Easy to overhaul the field.
- **No Adjustment needed – ever.**
  - No need for periodic adjustment or disk replacement.
- **Designed for the environment**
  - Totally enclosed and sealed with biodegradable transmission fluid
- **Solidly built, no small parts, saltwater proof, will last for years**



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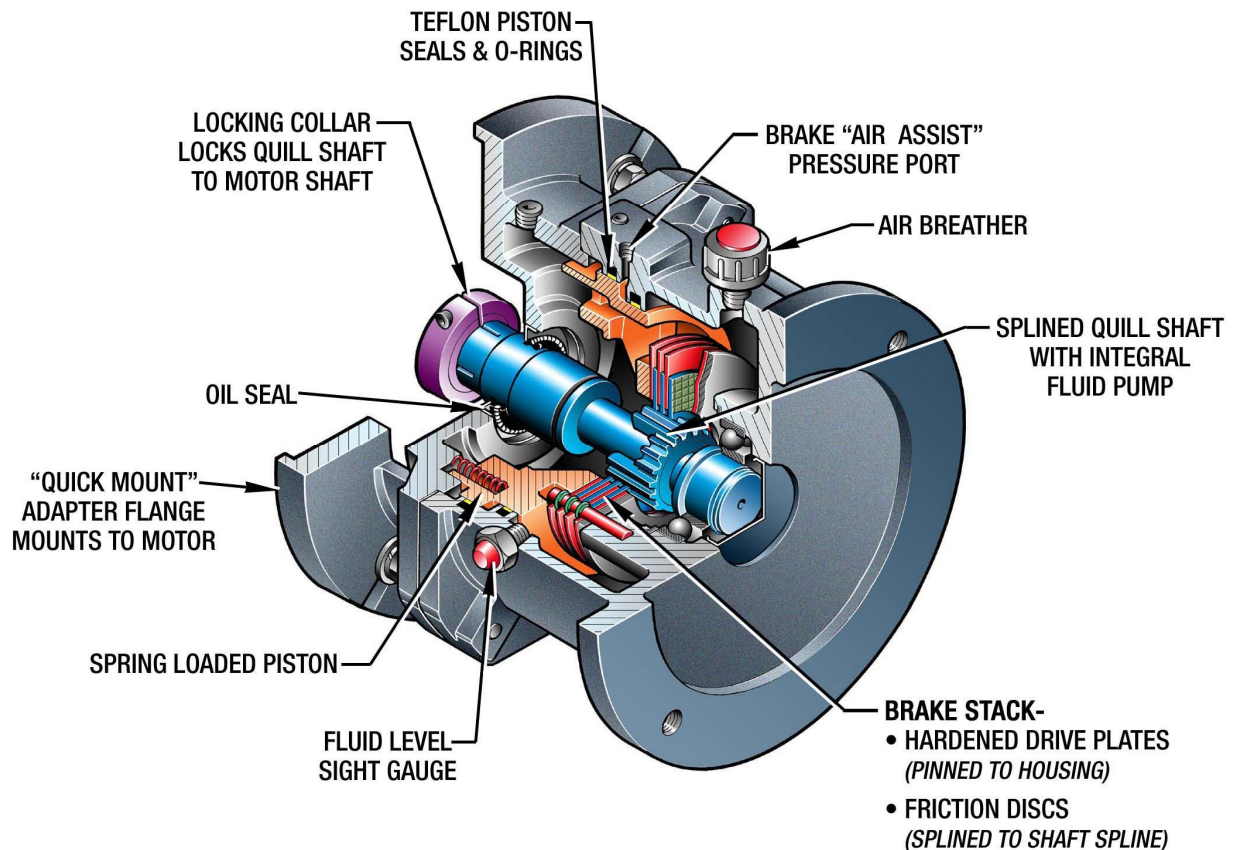
## Force Control Industries, Inc

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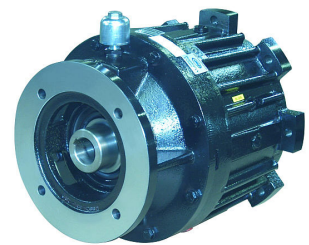


# Posistop X-Class Brakes

## Solve Oil Rig Brake Problems



- Low maintenance: No Adjustment—Ever
- Marine Duty saltwater proof design
- Simplified double C-face NEMA or IEC motor mounting.
- Horizontal or vertical mounting.
- Hazardous Duty Spring set, air release.
- Oil Shear Technology for 10X the life of dry friction brakes
- High duty cycle design—No jamming or sticking
- No electrical coils, inherently safe design.
- Multiple friction discs cooled in recirculating biodegradable transmission fluid.
- Hard-coat epoxy and marine coating highly resistant to rust ,chipping and salt water spray.



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