

Varco Systems

Pipe Handling System

Motor Brake Upgrade



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 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 used:

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

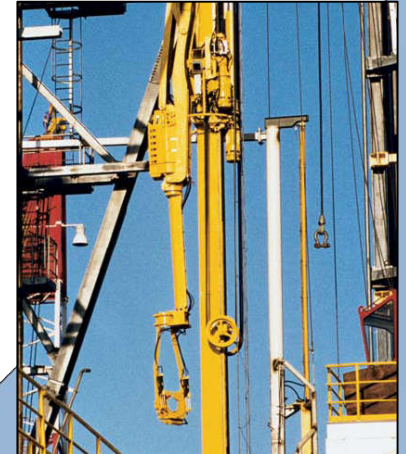
Assemblies affected included:

Hoist Carriage

Trailing Arm Linear Actuator

Gripping Arm Linear Actuator

Lower Drive



The Solution:

The Posistop 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.

Benefits of the new brake:

Protected from the Environment—Totally enclosed and sealed 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 in the field.

No Adjustment needed - ever.—Designed for the environment

Solidly built, no small parts, saltwater proof, will last for years.

Force Control Industries, Inc.

Fairfield, Ohio USA

Email: info@forcecontrol.com | Phone: 513-868-0900



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Posistop

Spring Set—Air/Hyd. Release



Posistop X Class

Spring Set—Air Release



Posistop X Class

Spring Set—Air Release



Posistop

Spring Set—Air Release



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Call 800-829-3244
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Force Control Industries, Inc.

3660 Dixie Highway | Fairfield, Ohio 45014 USA

Phone: 513-868-0900 Email: info@forcecontrol.com

