IMPORTANT
Read this manual carefully before installing, operating or servicing this equipment.

PERSONAL SAFETY
Personal injury and/or equipment damage may result if proper safety precautions are not observed.

WARNING: Even low pressure can cause irreparable damage or death. Exercise extreme caution while operating or servicing this equipment.

ORDER #: __________________________
MODEL #: __________________________
SERIAL #: __________________________

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PRE-INSPECTION
1. Check reel for shipping damages.
2. Insured all parts are supplied as ordered.
3. Record model number and serial number for future reference.

MOUNTING
1. Unpack and inspect reel - rotating spool (1) to check for smooth operation.
2. Ensure that mounting surface is rigid and flat to prevent binding of reel after it is installed. This is important to ensure proper alignment.
3. Drill four mounting holes in reel frame. Secure reel to mounting surface by inserting four bolts (2) through the four mounting holes (3) just drilled into the reel frame. Tighten securely to ensure a solid, rigid attachment.

ELECTRIC DRIVEN REELS
WARNING: Remove all electrical power when wiring. DO NOT “HOT WIRE”. Observe all applicable NEC, OSHA, and local codes.

NOTE: It is not proper to connect either power lead to any part of the motor, or to any part attached to the motor, such as the terminal box, as that would make the motor an integral part of the electrical power circuit.
AIR DRIVEN REELS
1. Apply thread compound to inlet air line fitting (1) and pneumatic motor (2) inlet threads.
2. Connect inlet air line (1) to motor (2).

HYDRAULIC DRIVEN REELS
1. Apply thread compound inlet / outlet hydraulic line fittings (1) and hydraulic motor inlet threads (2).
2. Thread hydraulic line fittings (1) into motor inlet / outlet (2) tighten securely.

INLET CONNECTION
NOTE: Install a union fitting as near as possible to the swivel joint inlet, so the joint can be easily removed for servicing.

CONNECTING THE SUPPLY LINE FOR THREADED INLET SWIVELS
NOTE: Avoid strain on swing joint at all times. Threaded type swivel inlets must be connected to the fluid supply by using a flexible connector.
1. Apply thread compound to the swivel (1) and connecting hose fitting (2) threads.
2. Thread connecting hose fitting (2) into swivel (1). Tighten securely.
3. With control valve open, fully extend and charge hose to purge system of gases. When fluid appears at control valve, close valve. This prevents flattening of hose and excessive pressure on drum when fluid supply is reinitialized at a later time.

GROOVED INLET SWIVELS
NOTE: Grooved type swivel joint inlet connections must be carefully aligned. Two grooved connections, correctly installed, allow adequate flexibility for smooth rotation.
1. Connect grooved coupling onto inlet swivel fitting and inlet supply line
2. Adjust inlet supply line to verify flexibility exists for proper alignment.
3. With control valve open, fully extend and charge hose to purge system of gases. When fluid appears at control valve, close valve. This prevents flattening of hose and excessive pressure on drum when fluid supply is reinitialized at a later time.

GROOVED CONNECTION
FLEXIBLE CONNECTION
NOTE: Failure to use flexible connector with any live reel will void warranty

For larger reels, gooseneck may be removed from reel to fit to hose. Note that if the reel has a welded or threaded riser in the fluid path assembly, it cannot be removed to attach the hose.

CAUTION: Do not connect the output hose to the gooseneck (1) until after the reel is installed and motor connections are complete. Fill the hose before winding on the reel to prevent excessive pressure on the drum when hose is filled.
1. Apply thread compound to connecting gooseneck (1) and output hose fitting threads (2).
2. Hand thread output hose fitting (2) into gooseneck (1).
3. Using a wrench, firmly hold gooseneck (1) while tightening output hose fitting (2).
REPLACE THE SWIVEl
CAUTION: Remove supply line pressure before performing the following procedures.

1. Remove supply line (2) from the swivel (1) or inlet.
2. Remove swivel (1) from inlet shaft (3).
3. Install replacement swivel by reversing steps 1 & 2.

REPLACING "U" CUP SEALS ON NORDIC SWIVEls
NOTE: For special swivels such as food grade, Catherine style reels, and special purpose swivels, see attached exploded drawing and parts list for special instructions for swivel repair / replacement.

1. Remove supply line (3) from inlet adaptor (1).
2. Remove all three bolts (2).
3. Pull seal from recess inside of inlet adaptor.
4. Examine new seal (5) and ring (4) to check for damage.
5. Moisten face of seal with lubricant and replace into inlet adaptor (1).
6. Bolt adaptor back in place and re-install supply line.

REPLACING THE CHAIN
CAUTION: Before replacing the chain, remove electrical power and fluid pressure from reel.

1. Loosen (do not remove) bolts securing motor (2) to reel.
2. Remove chain master-link.
3. Install replacement chain (1).
4. Adjust chain tension by moving motor until properly obtained. Over tensioning results in reduced motor life. Adjust to allow between \( \frac{1}{4} \)" and \( \frac{1}{2} \)" play in chain.

HOW TO ORDER REPLACEMENT PARTS
Please provide the following information:

1. Model number
2. Serial number
3. Part description and/or balloon number listed on the front of this manual.

*Some parts may not be shown, in this case a detailed part description will be required.

REPLACING THE MOTOR
CAUTION: Before replacing the motor, remove electrical power and fluid pressure from reel.

1. Loosen (do not remove) bolts (1) securing motor (2) to reel.
2. Slide motor and remove chain.
3. Remove bolts securing motor.
4. Install replacement motor.