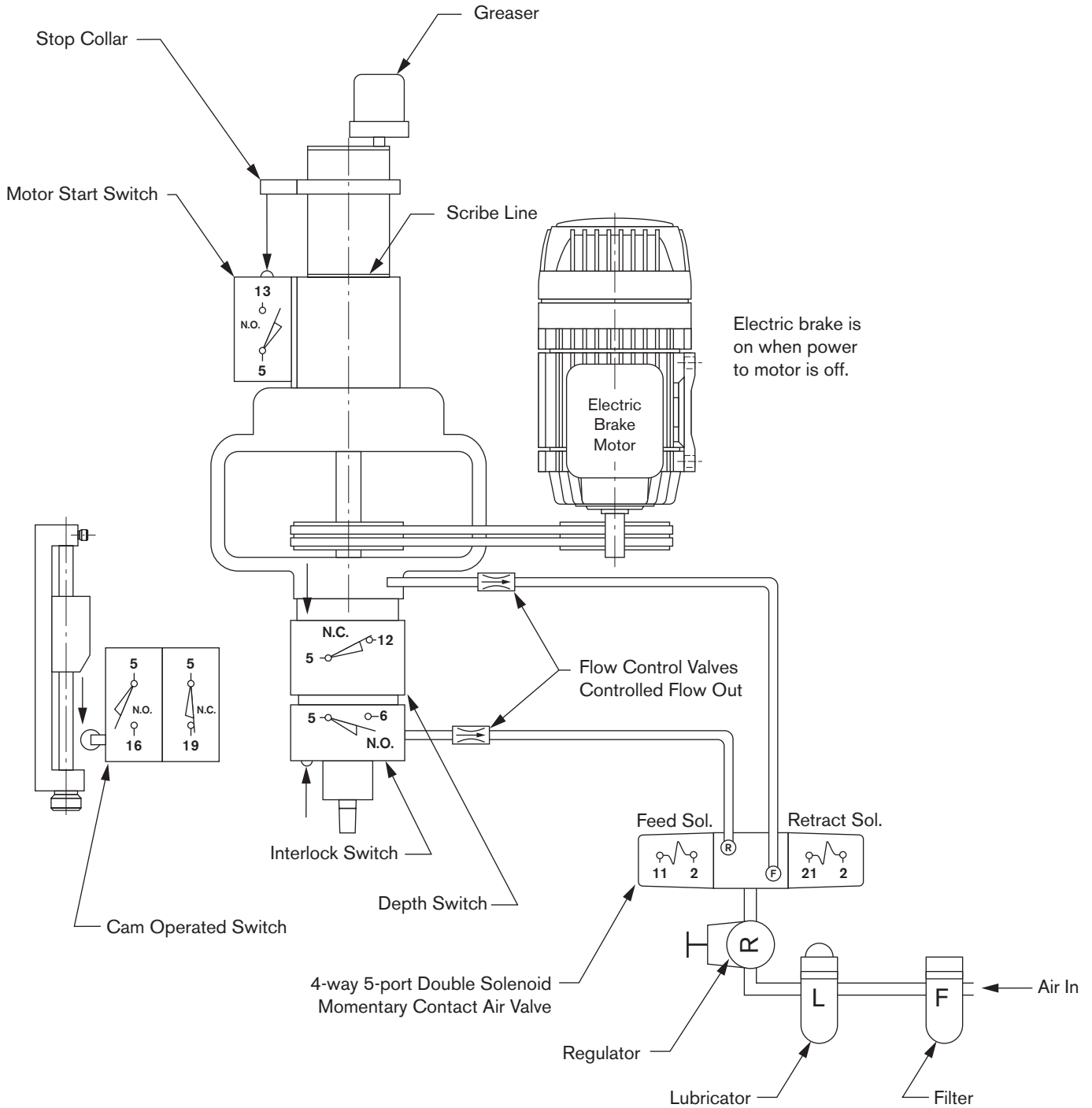


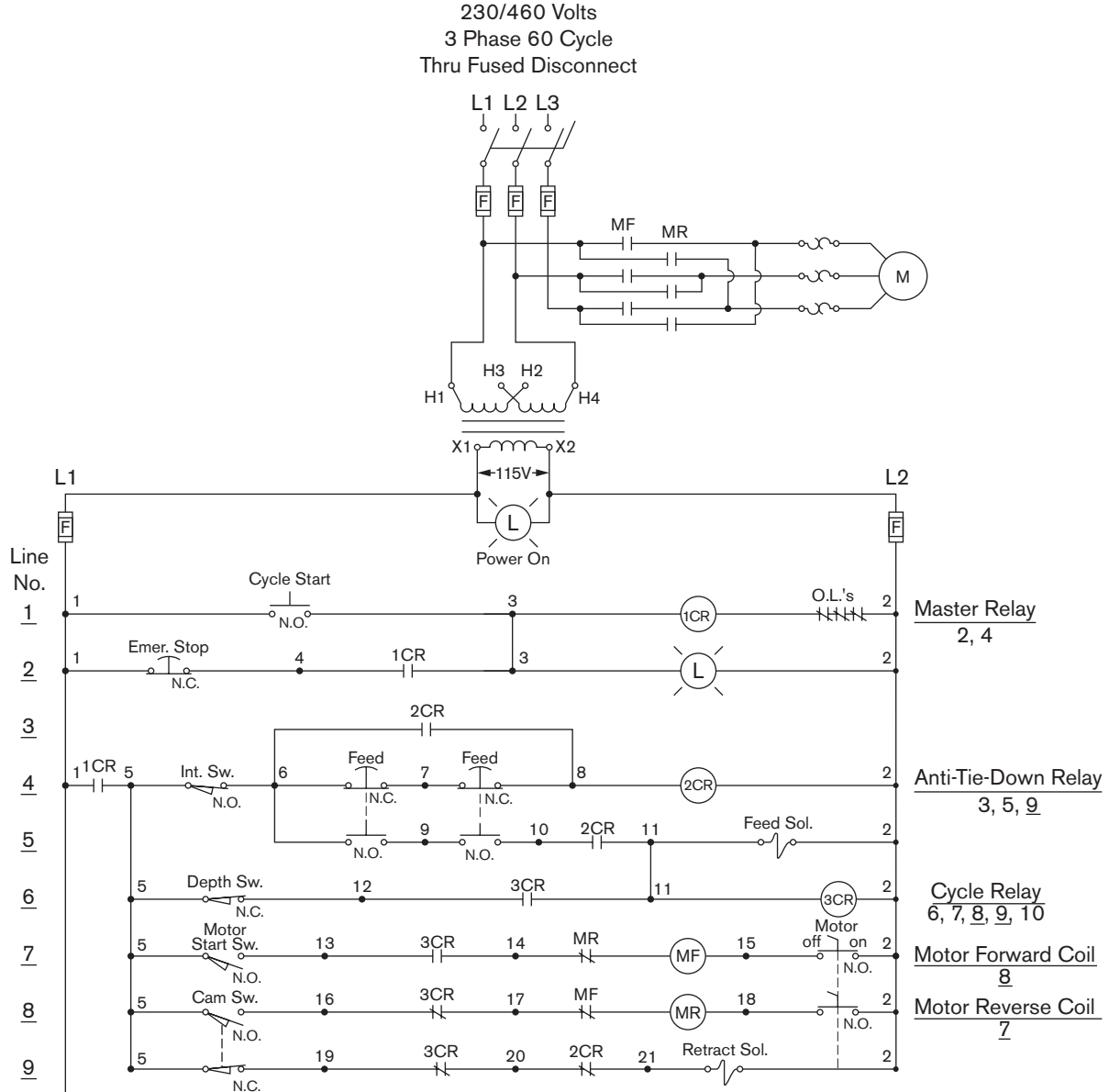
HYPNEUMAT INC.

AUTOMATIC DRILLING & TAPPING UNITS

LS-300 & LS-500 PIPING FOR BASIC LEAD SCREW TAPPING CIRCUIT WITH AIR RAPID APPROACH AND ELECTRIC BRAKE MOTOR



**LS-300 & LS-500
 BASIC LEAD SCREW TAPPING CIRCUIT
 WITH AIR RAPID APPROACH AND ELECTRIC BRAKE MOTOR**



IMPORTANT

THIS CIRCUIT IS A BASIC METHOD OF CONTROLLING HYPNEUMAT EQUIPMENT.
 CHECK LOCAL, STATE, & OSHA REGULATIONS FOR SPECIFIC CIRCUIT REQUIREMENTS.

LS-300 & LS-500
**CYCLE SEQUENCE FOR LEAD SCREW TAPPING CIRCUIT
 WITH AIR RAPID APPROACH AND ELECTRIC BRAKE MOTOR**

1. Turn Motor Selector Switch to "ON"
2. Push Cycle Start Button
 - a. Supplies Power to Circuit (1CR)
3. Push Twin Palm Feed Buttons
 - a. Valve shifts for rapid approach
 - b. 3CR is energized
 - c. Brake is released and unit moves forward
4. Stop Collar on Lead Screw Cartridge makes contact with Motor Start Switch
 - a. Motor starts clockwise rotation (MF)
5. Cam Operated switch is set to actuate just after Motor Start Switch is actuated
6. Depth Switch is actuated at depth required
 - a. 3CR is dropped out
 - b. Motor starts counterclockwise rotation (MR)
 - c. Valve "does not" shift
7. Cam Switch drops off cam
 - a. Power to Motor is shut off
 - b. Brake is energized
 - c. Valve shifts to Rapid Retract position

EMERGENCY STOP (Tap in part)

1. Pushing Emergency Stop Button, causes all motion to stop.
2. To return unit to back position, "Cycle" start button must be pressed and unit will automatically go to normal retract position.

NO HOLE IN PART

1. Unit Rapid approaches
2. Normal Cycle begins
3. Tap makes contact with part
4. Unit cannot feed forward so Lead Screw Cartridge backs out of Rear Housing. Backing off of cartridge causes Motor Start Switch to deactuate.

RETURNING UNIT TO START POSITION

1. Push Emergency Stop
2. Push Cycle Start button (unit retracts)
3. Remove part and Cycle unit one time to allow unit to reset Scribe line in cartridge

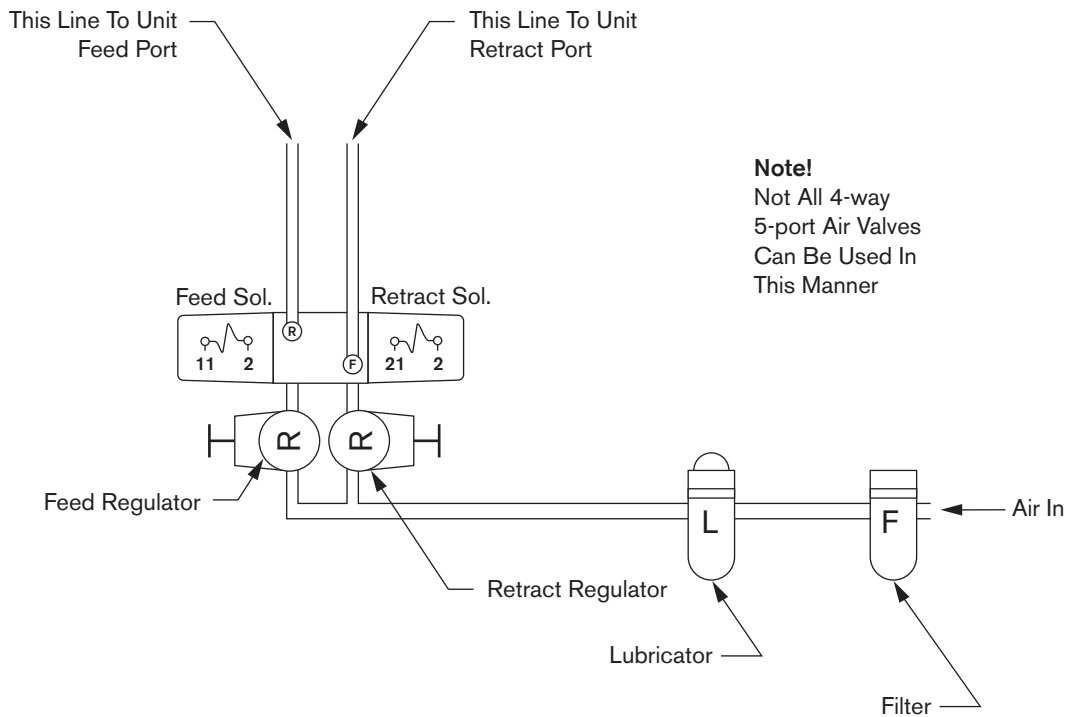
NOTE: A. In this circuit "Cam Switch" has no function on the way in.

NOTE: B. The "Motor Start Switch" has no function on the way out.

OPTIONAL PIPING FOR DUAL PRESSURE SYSTEM

NOTE!

This system used for vertical operation with heavy multiple spindle heads. Separate pressures for feed and retract strokes.



Visit us on the World Wide Web at <http://www.hypneumat.com>

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