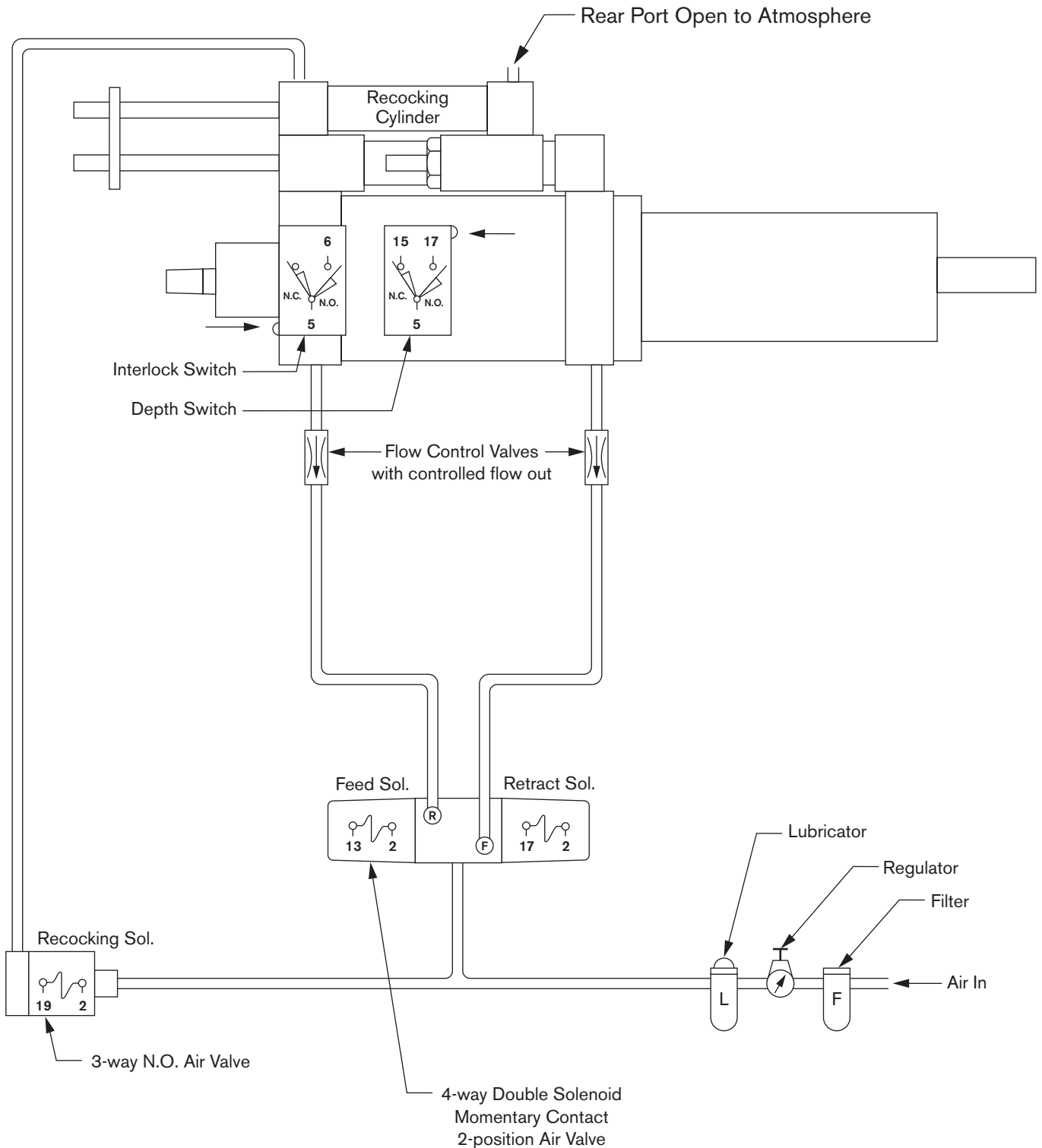


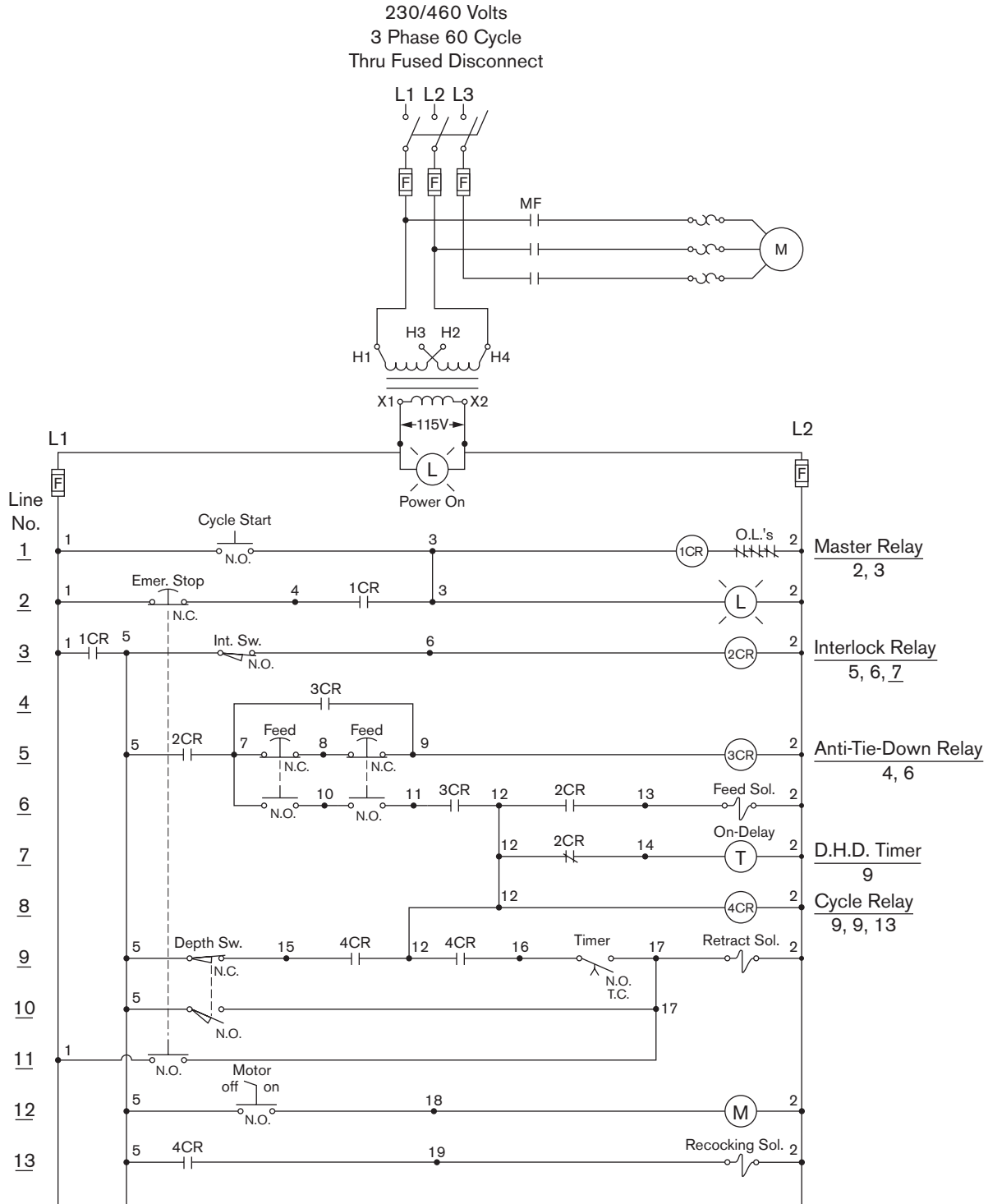
# HYPNEUMAT INC.

AUTOMATIC DRILLING & TAPPING UNITS

## PIPING FOR BASIC AIR DEEP HOLE DRILLING CIRCUIT



**BASIC AIR DEEP HOLE DRILLING CIRCUIT**



**IMPORTANT**

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

**CYCLE SEQUENCE FOR AIR DEEP HOLE DRILLING**

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 and unit feeds forward
  - b. Cycle relay (4CR) is energized and held
  - c. Recocking Valve is energized and held
  - d. Deep hole drilling timer (T) is energized and begins timing out when unit leaves retract position
4. Deep Hole Drilling Timer (T) times out
  - a. Valve shifts and unit rapid retracts
  - b. Unit actuates Interlock Relay (2CR)
  - c. Valve shifts and unit feeds forward
  - d. Deep hole drill timer (T) is energized and begins timing out

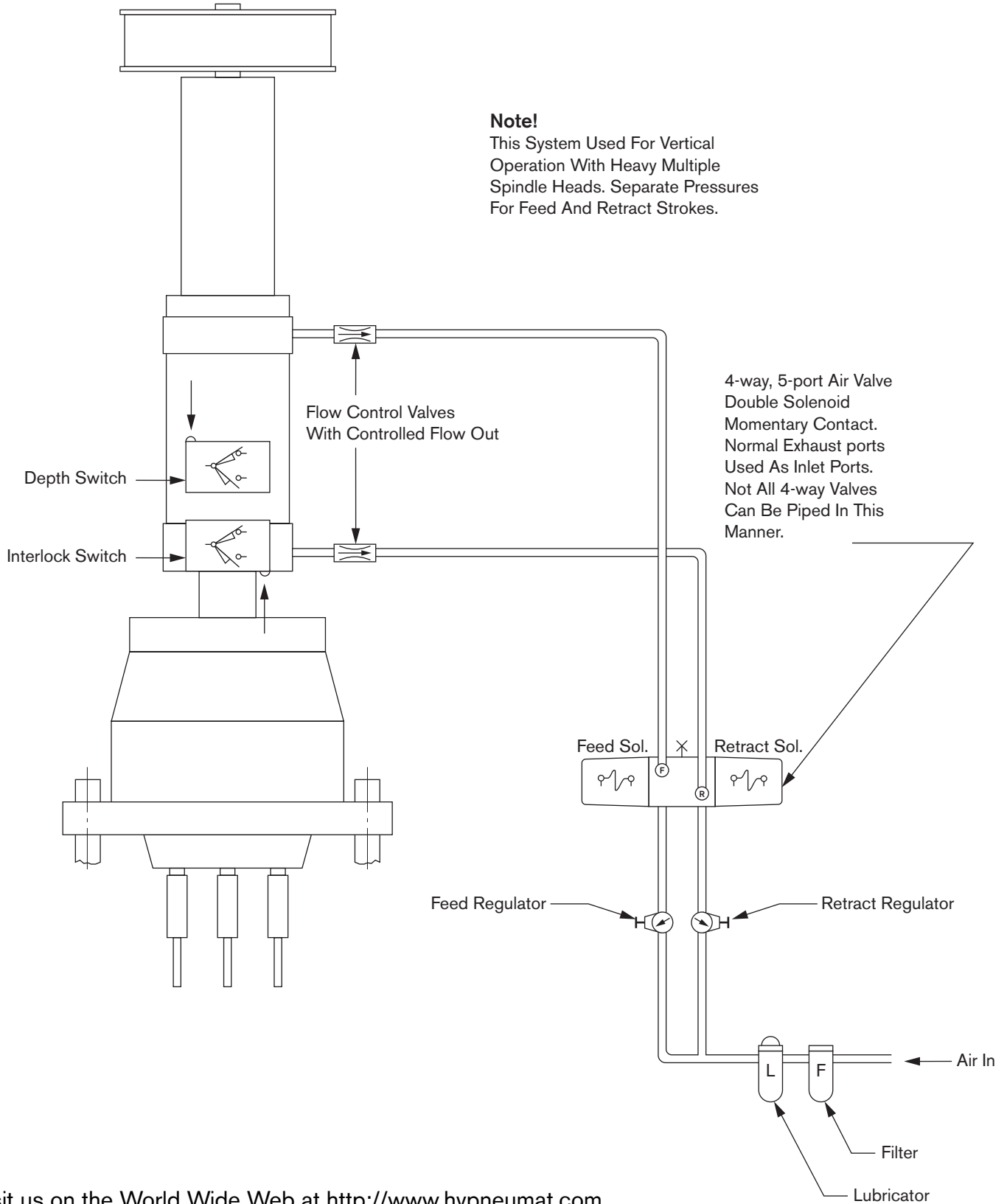
NOTE: Operation #4 keeps repeating until Depth Switch is actuated

5. Depth Switch is actuated
  - a. Cycle relay (4CR) is dropped out
  - b. Valve shifts and unit rapid retracts and stays back
  - c. Recocking Valve is dropped out and recocking Cylinder pulls Hydra-Brake to retract position ending cycle

**EMERGENCY STOP**

1. Push Emergency Stop Button
  - a. 1CR Master Relay Drops Out
  - b. Motor shuts off and coasts to stop
  - c. Valve shifts and unit rapid retracts

## OPTIONAL PIPING FOR DUAL PRESSURE SYSTEM



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

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