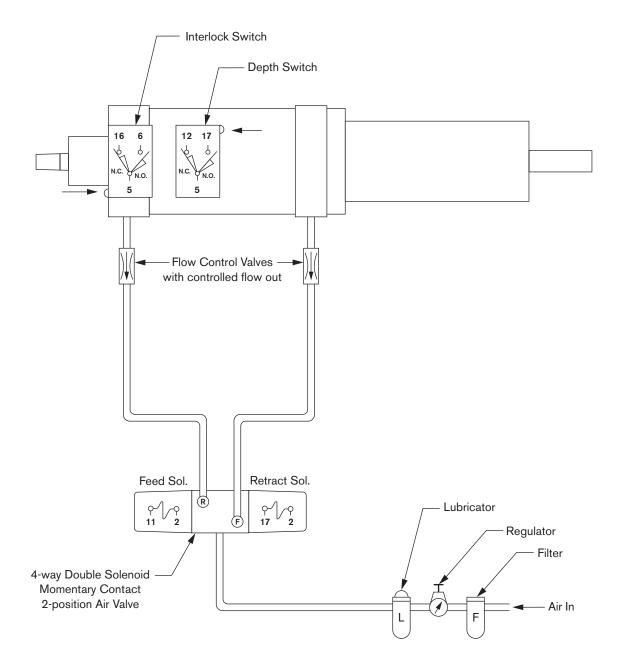
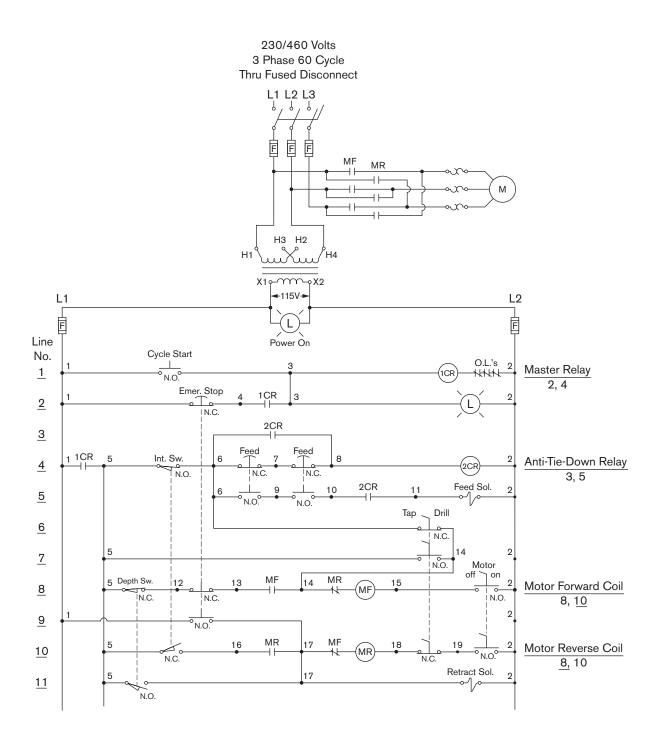


PIPING FOR BASIC AIR DRILLING-TAPPING CIRCUIT





BASIC AIR DRILLING-TAPPING 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 DRILLING-TAPPING CIRCUIT

DRILL OPERATION SEQUENCE

- Turn Tap-Drill selector switch to "DRILL"
- 2. Turn Motor Selector Switch to "ON"
- 3. Push Cycle start Button
 - a. Supplies power to circuit (1CR)
- 4. Push Twin Palm feed buttons
 - Valve shifts and unit feeds forward
- 5. Depth Switch is actuated at Depth required
 - a. Valve shifts and unit rapid retracts

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

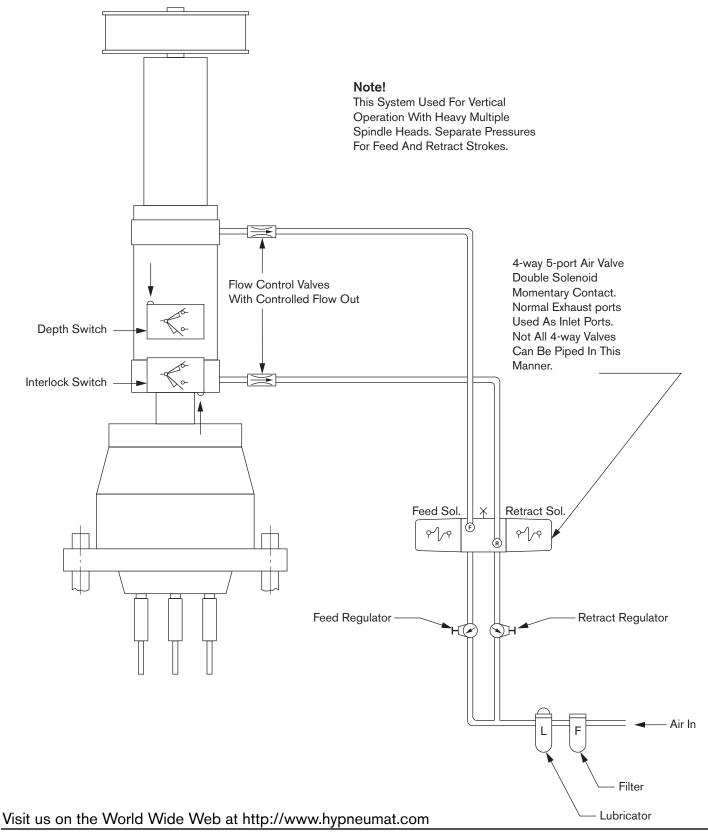
TAP OPERATION SEQUENCE

- 1. Turn Tap-Drill Selector Switch to "TAP"
- 2. Turn Motor Selector Switch to "ON"
- 3. Push Cycle Start Button
 - a. Supplies power to Circuit (1CR)
 - b. Motor Forward Coil (MF) starts motor in clockwise rotation
- 4. Push Twin Palm Feed Buttons
 - Valve shifts and unit feeds forward
- 5. Depth Switch is actuated
 - a. Motor Forward Coil (MF) is dropped out
 - b. Motor Reverse Coil (MR) is energized and starts motor in a counterclockwise rotation
 - c. Valve shifts and unit begins to retract
- 6. Unit Returns to full retract position and actuates Interlock Switch
 - a. Motor Forward Coil (MF) returns motor to clockwise rotation

EMERGENCY STOP

- 1. Push Emergency Stop Button
 - a. 1CR Master Relay drops out
 - b. Motor Forward Coil (MF) is dropped out
 - Valve shifts to retract position
- NOTE: A. If Tap is "NOT" in part, unit will rapid retract and motor coasts to stop
- NOTE: B. If Tap is "IN" part, motor will stop and unit will not rapid retract (see operation #2 for tap removal from part)
- 2. To return unit to full retract position, if tap is "IN" part
 - a. Push Emergency Stop button and hold down
 - b. Motor Reverse Coil (MR) is actuated and motor rotates counterclockwise
 - c. Tap leaves part and unit returns to full retract position
 - d. Release Emergency Stop Button

OPTIONAL PIPING FOR DUAL PRESSURE SYSTEM



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