

BBIQ Pneumatic Circuit Design Work Sheet # 3

Directions: Draw the following circuits in the space provided.

1.) Draw a Schematic of a working circuit using these components:

**Single acting push type cylinder
3/2 Normally closed Valve
High pressure storage bottle with gage
Regulator with relief and low pressure gage**

2.) Draw a Schematic of a working circuit using these components:

**2 Single acting push type cylinder
2 3/2 Normally closed Valve
1 High pressure storage bottle with gage
1 Regulator with relief and low pressure gage
Note: Divide the circuit from the output side of the regulator.**

3.) Draw a Schematic of a working circuit using these components:

1 Double Acting Cylinder

1 4/2 Normally closed Valve

High pressure storage bottle with gage

Regulator with relief and low pressure gage

4.) Draw a Schematic of a working circuit that has two double acting cylinders that must be fired simultaneously. The double acting cylinder cannot be energized in either direction when the solenoid is “At rest”. Show the High Pressure storage, regulator, valve and cylinders. Hint: Study the different valves and choose the correct one.