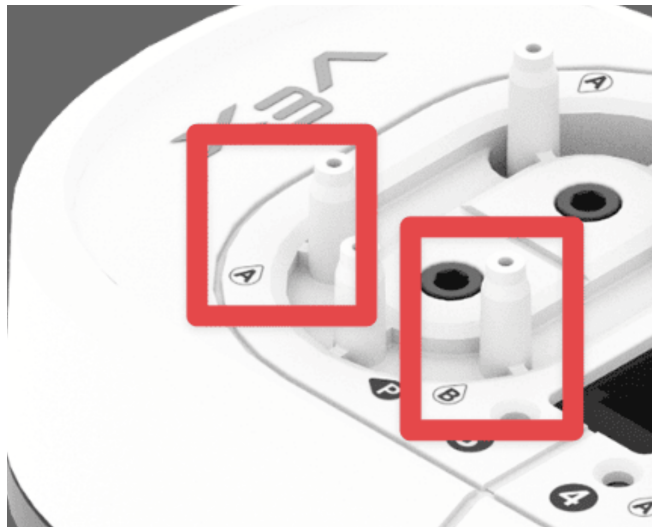


Name: _____ Date: _____

VEX CTE Workcell

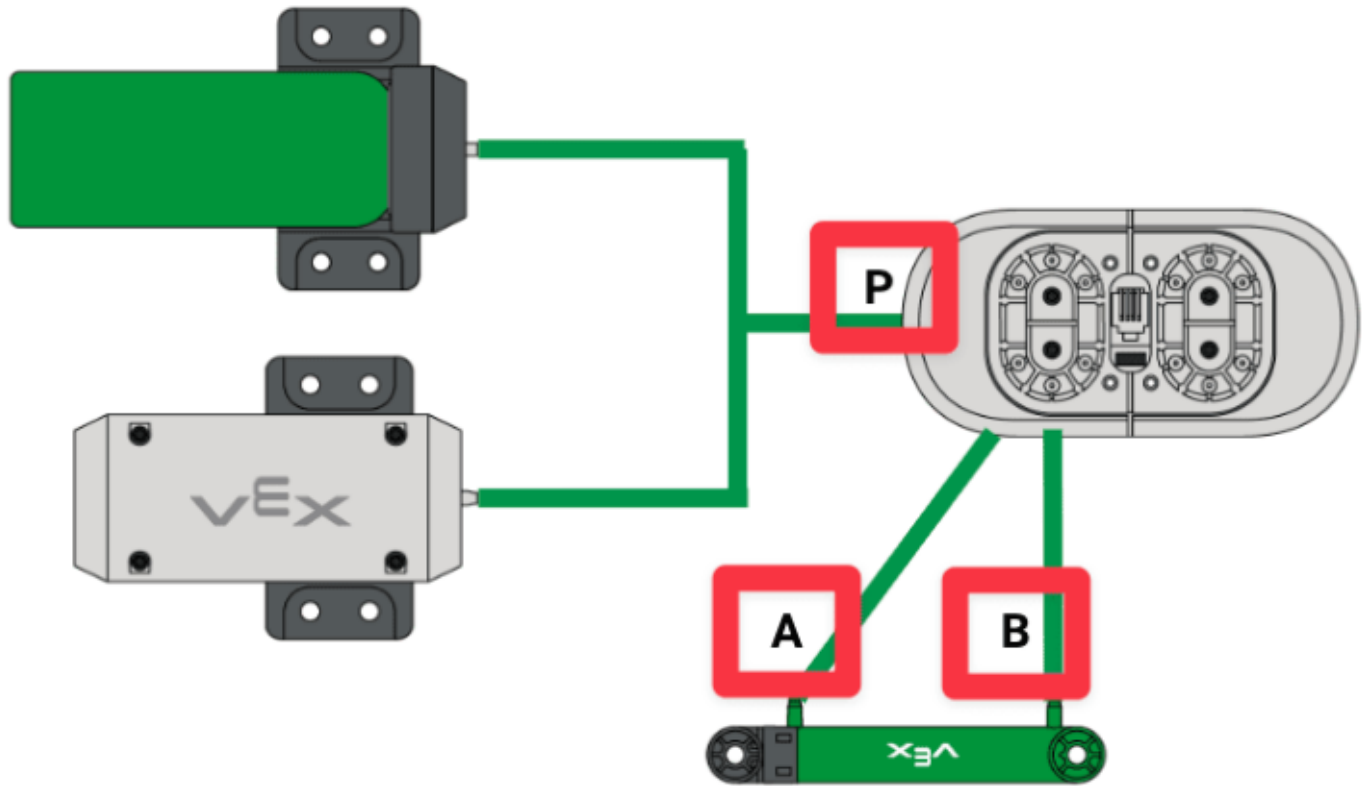
Unit 5 - Lesson 3: Air Flow in a Pneumatic System

1. A _____ is a set of pneumatic components that work together to perform a single actuation.
- a. Pneumatic Cylinder
 - b. Pneumatic System
 - c. Pneumatic Circuit
 - d. Pneumatic Actuator

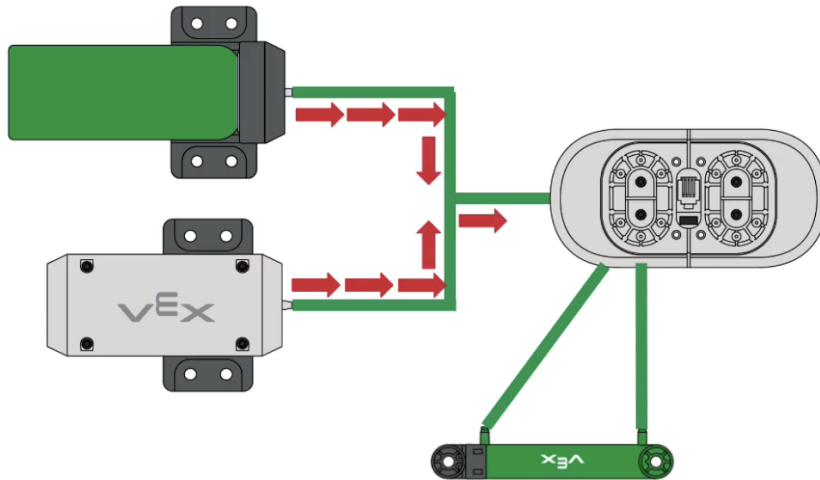


2. The A and B connection points, as shown in this image, are the _____ of the Pneumatic Solenoid.
- a. Inputs
 - b. Outputs
 - c. Pistons
 - d. Power switches

3. In the image shown here, which letter indicates the input of the solenoid?



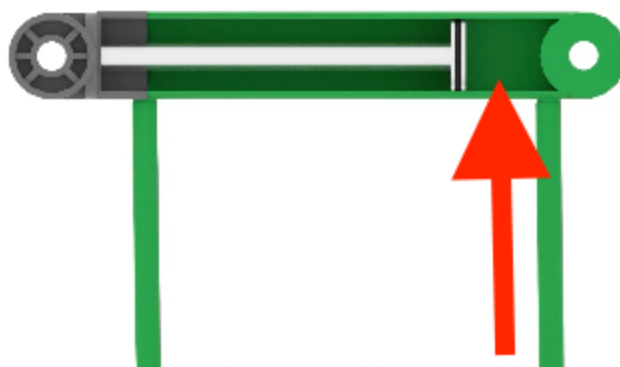
- a. A
- b. B
- c. P



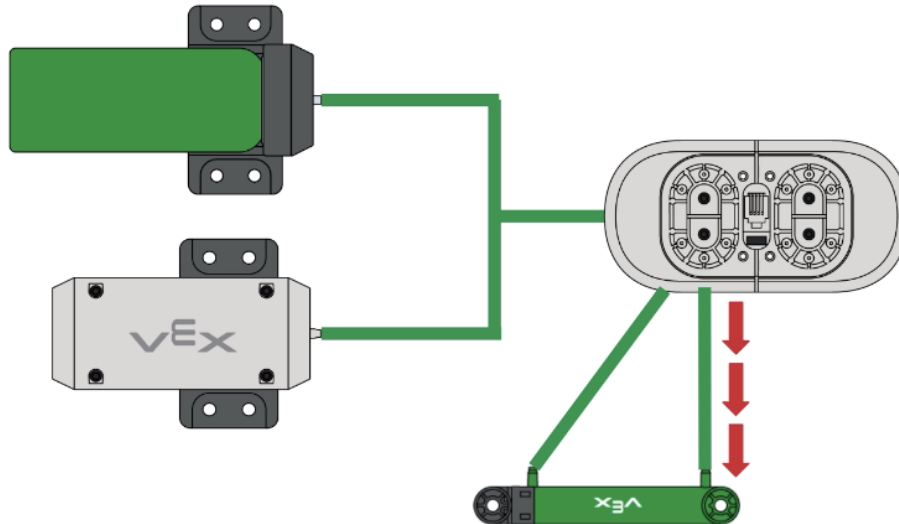
4. Which statement correctly describes the airflow in the circuit above?

- a. Pressurized air is flowing from the Air Tank and the Air Compressor to the input of the Solenoid
- b. Pressurized air is flowing from the Solenoid to both the Air Tank and the Air Compressor.
- c. Pressurized air is flowing from the Solenoid to tube A
- d. Pressurized air is flowing from the Solenoid to tube B

5. If air is flowing into the cylinder as shown in this image, which of the following will occur?



- a. The piston will be pushed out, causing the cylinder to expand.
- b. The piston will be pushed further into the cylinder, causing the cylinder to retract.
- c. The piston will not move at all.



6. Which of the following statements correctly describes the airflow shown in the circuit above?
- a. Pressurized air is flowing from the Air Tank and the Air Compressor to the input of the Solenoid
 - b. Pressurized air is flowing from the Solenoid to both the Air Tank and the Air Compressor
 - c. Pressurized air is flowing from the Solenoid to tube A
 - d. Pressurized air is flowing from the Solenoid to tube B
-

7. Reflect on your learning in this Unit so far. On a scale of 1 to 5, with 1 being 'Not confident at all' and 5 being 'Very confident,' how confident are you that you will reach your learning targets for this unit? (Circle one)

1 2 3 4 5

What questions or uncertainties do you have, if any, about the material in the first two lessons of the unit that need to be addressed in order for you to meet your learning targets? Be prepared to discuss this question with your instructor.

8. Now that you have completed this Lesson, how are you feeling about what you are learning in this Unit? On a scale of 1 to 5, with 1 being ‘Completely disinterested’ and 5 being ‘Very excited and motivated to learn more’, rate your level of excitement and interest in this Unit. (Circle one)

1 2 3 4 5

Additionally, briefly explain why you chose this rating.
