*NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Section: \_\_\_\_\_\_\_\_\_\_\_*

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| ***Directions*** | |
|  | 1. **Watch the Videos: VEX Pneumatic Components and VEX Pneumatic Programming** 2. **Answer the following questions by filling in the boxes with the red bullets with relevant info.** 3. **Please be sure to Type the right answer and show the units if required.** 4. **Hand it in to your instructor** |
| ***Questions*** | |

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| 1. What is the component that we use to store our energy? |
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| 1. What is the name of the two port types on our storage device? |
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| 1. What is the component that we use to store our energy? |
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| 1. How should we cut the ends of our tubes that go into the fittings? (what do they look like) |
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| 1. What is the component that we use to store our energy? |
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| 1. Which end of our storage device does the air come out of? (name of the port) |
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| 1. What is the component that we use to store our energy? |
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| 1. How do we know which end of the shut off valve is the input? |
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| 1. What two numbers would be used to identify our shut off valve (from the last video)? (X / X) |
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| 1. What is the component that we use to store our energy? |
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| 1. What direction does the single acting actuator produce usable force in (Extension or Retraction)? |
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| 1. What pulls the single acting actuator back into the cylinder body? |
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| 1. What is the component that we use to store our energy? |
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| 1. Since our single acting actuator only has one port, how does the air on the other side of the piston ring get out of the cylinder (also allows air to come in to keep from creating a vacuum)? |
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| 1. What is the component that we use to store our energy? |
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