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	V1.0	High	17

Fun2 Pneumatic Control VR Instruction V1.0

User and Customer Service Manual

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1. Introduction

1.1 Purpose

This guide is intended to help users learn how to use this software.

1.2 Context

This software is proposed and developed all by Jiangxi KMAX Industrial Co., Ltd.

1.3 Definition

Term	Explanation
Us	Jiangxi KMAX Industrial Co., Ltd.
zSpace	zSpace refers to zSpace all-in-one computers and laptops with AR and VR capabilities developed by zSpace, Inc.
VR	Virtual reality technology

1.4 Reference

Hydraulic and Pneumatic Control Technology (Beijing University of Aeronautics and Astronautics Press)

Hydraulic and Pneumatic Transmission (Electronic Industry Press)

2. Features

2.1 Feature Highlights

2.1.1 Visualization

This software utilizes 3D simulated model components to realize visualized instruction.

2.1.2 Safety

This software adopts intellectualized techniques to reveal the structural relationships among hydraulic components and deepen the learning of students.

2.1.3 Special Effects and Animations

Simulated special effects in this software disclose working principles of all components while the breakdown animations display component composition.

2.2 Performance

This software can run continuously and stably for 12 hours without any failure.

3. Operation Environment

3.1 Hardware Requirements

zSpace laptops, zSpace300 and other zSpace products with higher specifications.

Performance parameters:

Specifications of zSpace300	
Display	24" HD Display (1920x1080) with zSpace head tracked stereo display technology
Processor	Intel i3
Memory	8 GB DDR4 RAM
Graphics	Radeon Pro WX3100 Embedded GPU
Peripherals	zSpace Stylus, zSpace Eyewear (Passive Stereo glasses and 2D conversion glasses), Keyboard and Mouse


3.2 Software Requirements

This software runs on zSpace all-in-one computers and laptops and with Windows 10 operating system.

4. Getting Started

4.1 Installation

4.1.1 Client Deployment

Double-click the executable file  , and install it as prompted.

4.1.2 License Registration





After the software is started and a registration window pops up, please enter an activation code issued by Jiangxi KMAX Industrial Co., Ltd. into the product key blank. Click the activation button to activate and use this software.

4.2 How to Interact

4.2.1 Home Page

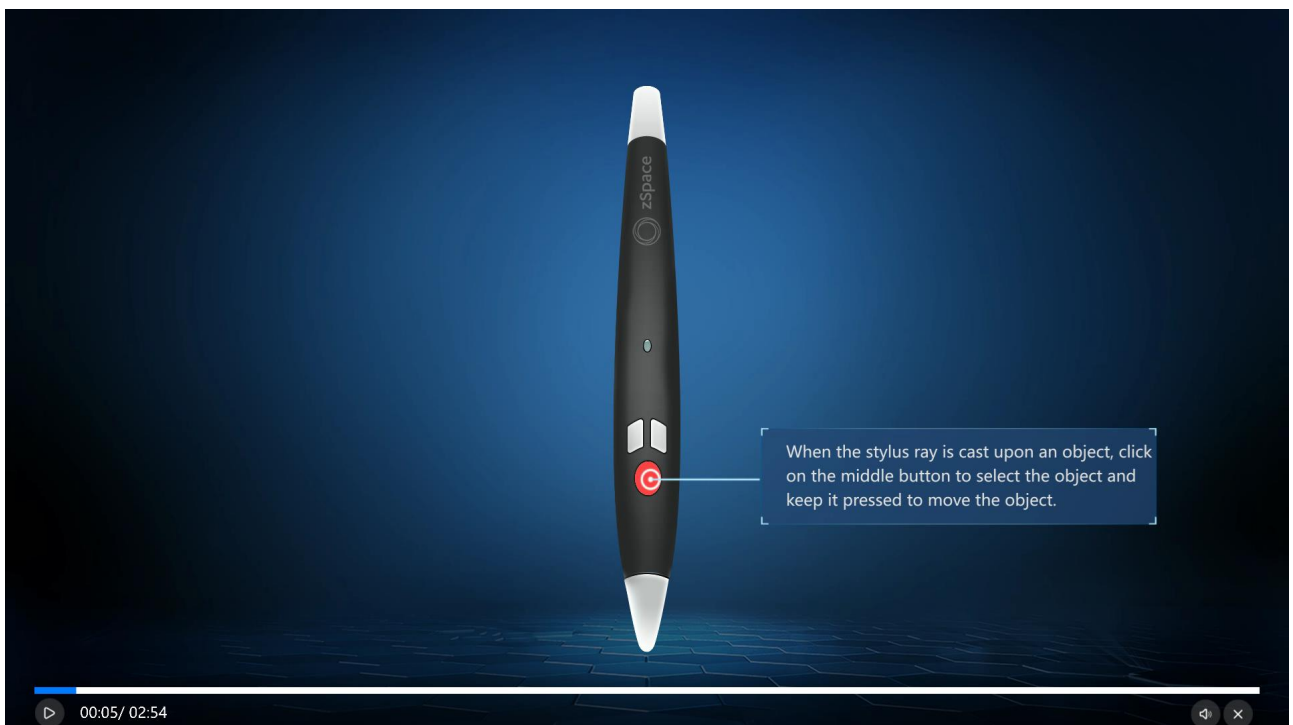


4.2.2 Click  Settings to set language, stylus ray and so on. Click

 Exit to exit the software.



4.2.3 Click  Guide to view the guide video.



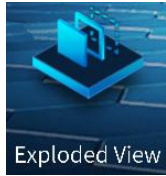


4.2.4 Click to enter Power Units.

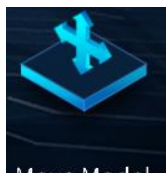


4.2.5 Click Working Principles to view the working principle animation.



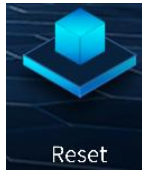


4.2.6 Click **Exploded View** to explode a model and observe its components in an exploded view.



4.2.7 Click **Move Model** to move the components as a whole.

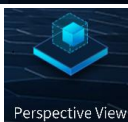




4.2.8 Click **Reset** to collapse the exploded view.

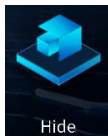


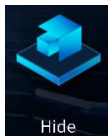
4.2.9 Click **Section** to cut the model and observe in a section view.



4.2.10 Click **Perspective View** to view parts in a perspective view. Continue to click on another part to see it in perspective. When viewing in perspective, click the left


button of the stylus pen, the whole unit will restore to its initial state, and at the same time the unit cannot be zoomed in and out.




4.2.11 Click  to hide parts. Continue to click on another part to hide it.

When hiding parts, click the left button on the stylus pen, the whole unit will return to its initial state, and at the same time the unit cannot be zoomed in and out. The Hide and Perspective View functions can be used together.

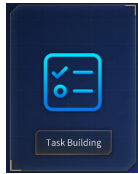


4.2.12 Click  on the text bar to collapse texts.

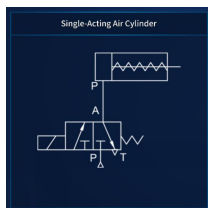
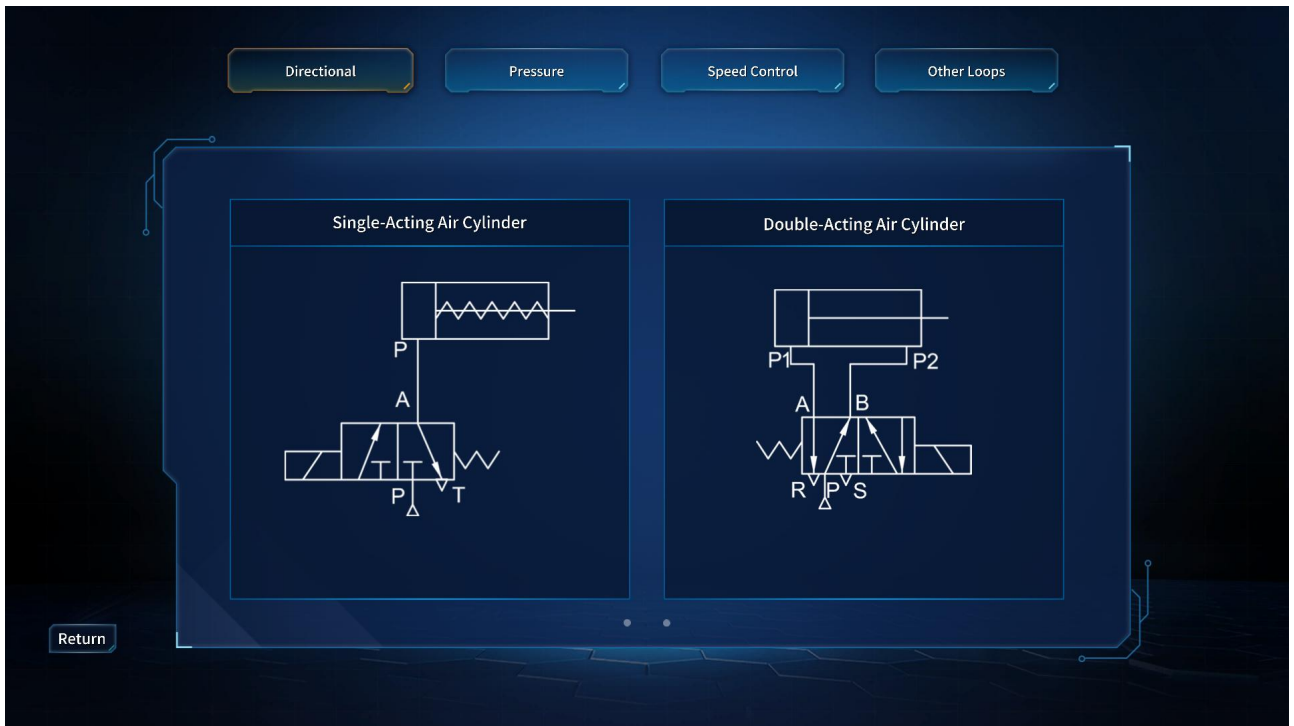


4.2.13 Click  to enter the module of task building and free building of circuits.

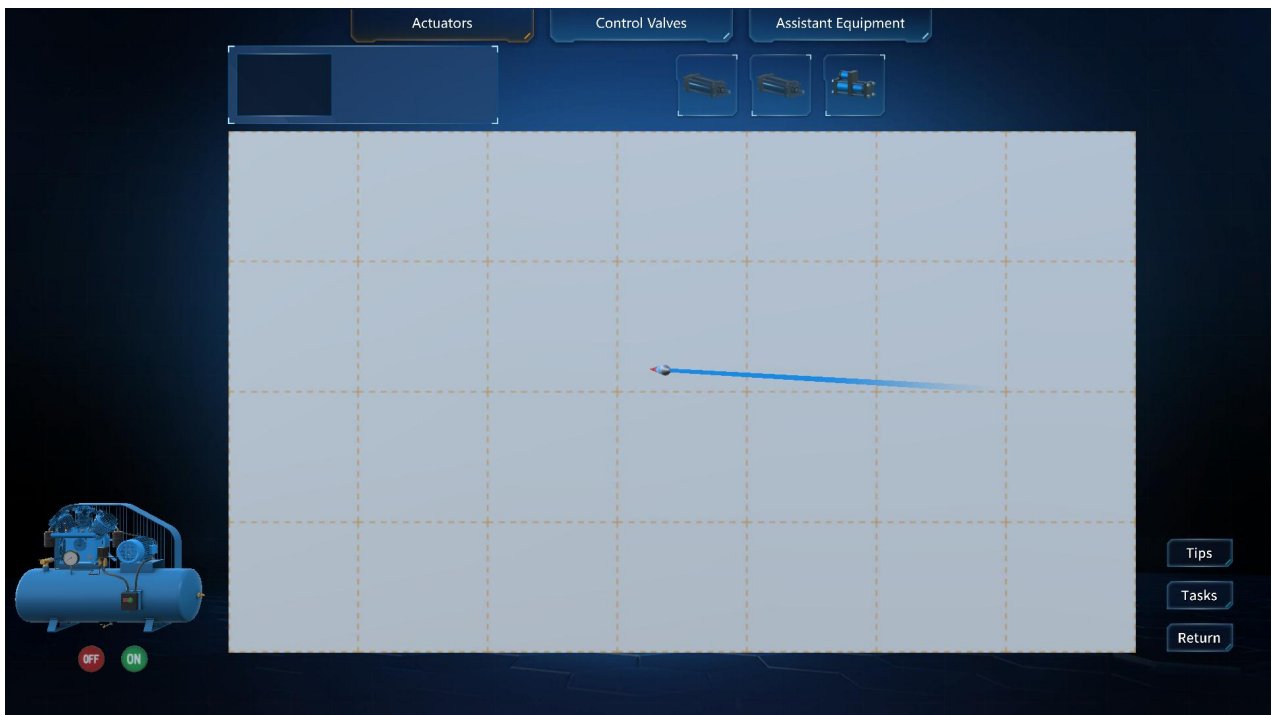






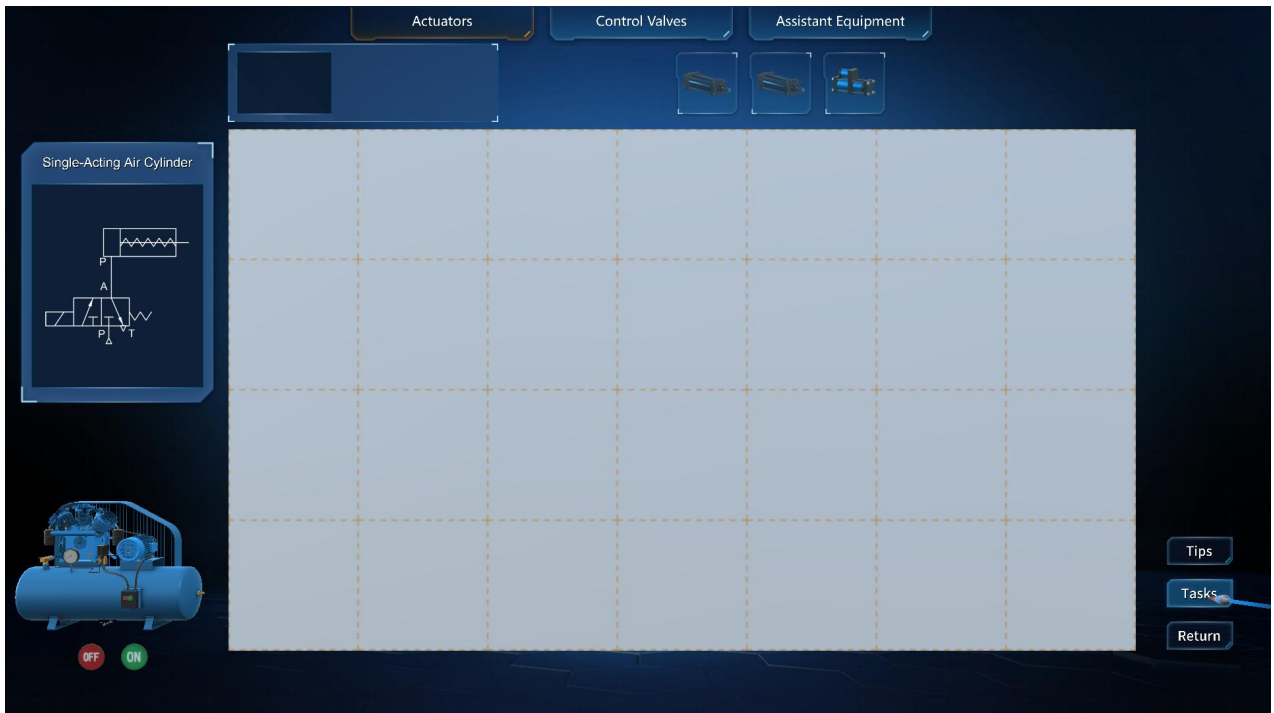
4.2.14 Click to enter Task Building.

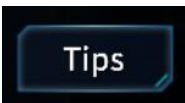


4.2.15 Click to build Directional Control Circuits.

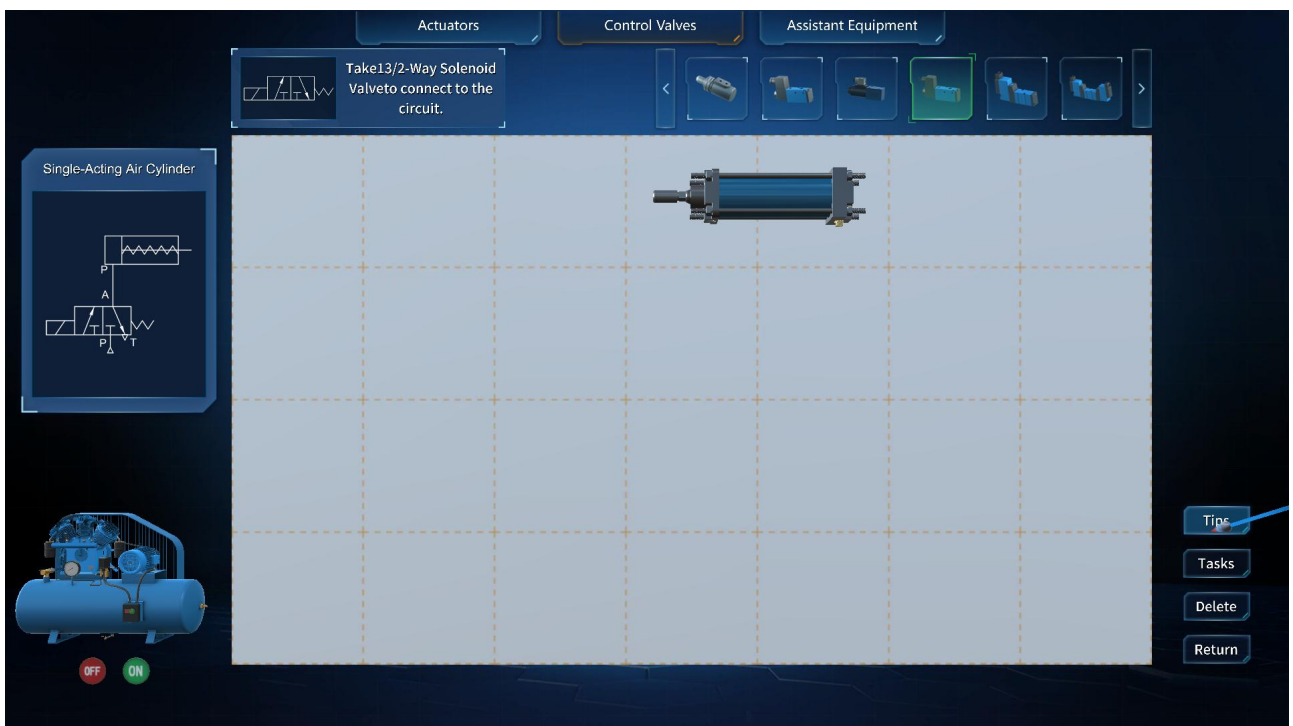


4.2.16 Click  to open the circuit diagram. Click  again to close it.



4.2.17 Click , it will highlight the accessory needed and the

corresponding symbol of it. The accessory  is highlighted in green.



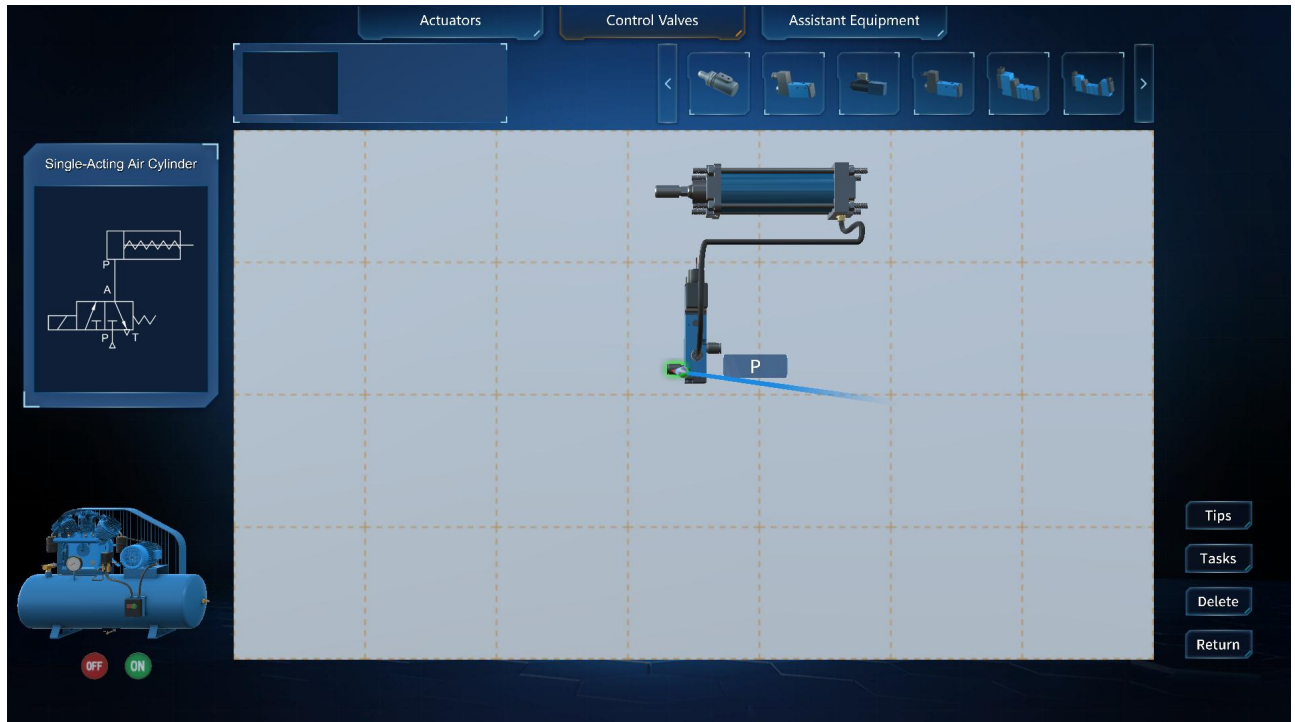
4.2.18 Circuit building

To pick up a component from the inventory, click on the actuator/control valves /accessories/power units first, and then chose the corresponding component. If the component is highlighted in green, that means it is the right component, and then place it on the breadboard; if the component is highlighted in red, it indicates you are picking up the wrong component and you need to select once again.

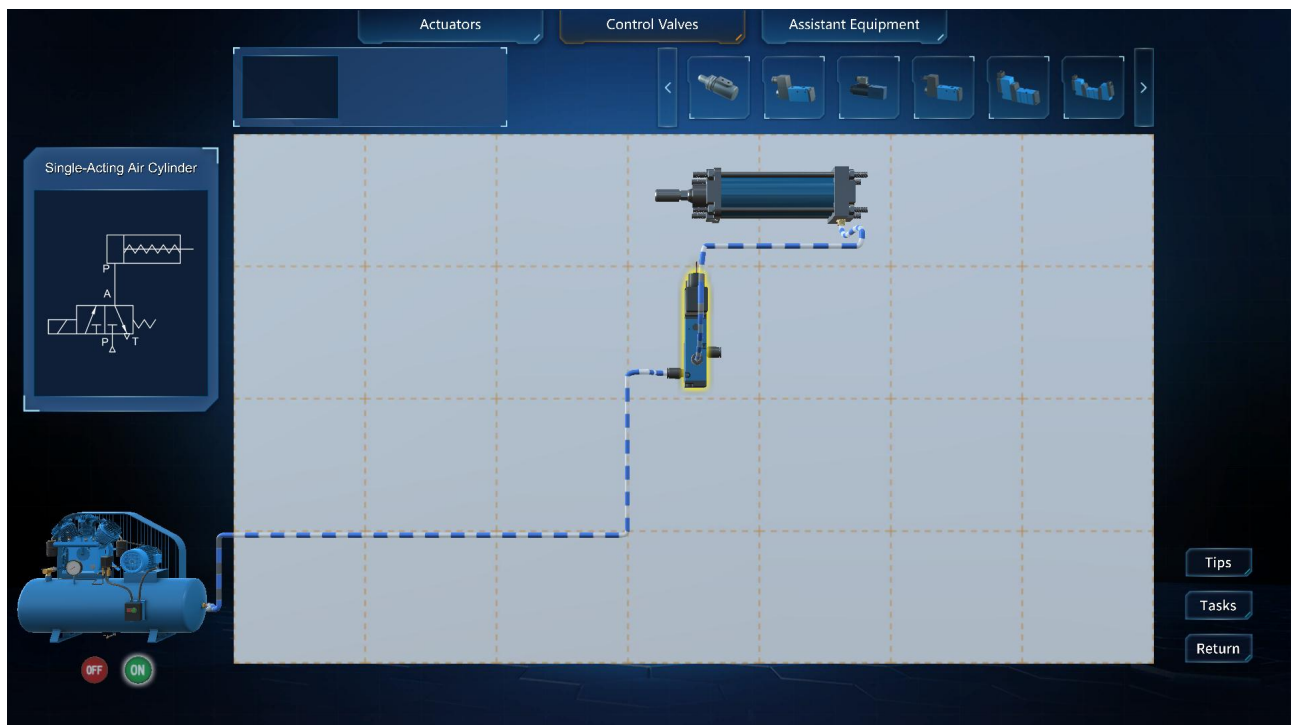


4.2.19 To connect components with air pipes, first click one port of the component, and the port will be highlighted in green. Then click one port of another component

(according to the circuit diagram), and the two components become connected.



4.2.20 Click ON button on the left of the compressor to run the circuit.



5. Troubleshoot Problems

Problem 1: zSpace stylus ray cast may divert in use. It can be fixed by moving the stylus pen close to the screen.

Problem 2: When an object is moved wherever out of sight and cannot be interacted with, click the left stylus button to restore the placement of objects.

Problem 3: This software can work only after it is registered. So please contact the research center of Jiangxi KMAX Industrial Co., Ltd. to acquire an activation code.

Problem 4: When connected to a second display, if the software screen is not displaying in full screen view, do as follows: turn off the software, right-click the mouse on the desktop to enter the Display settings, and in the Multiple Displays section, select Extend. Designate zSpace the primary monitor and restart the software.