



The diagram illustrates a pneumatic control system for a two-position, three-way valve. The system components and their connections are as follows:

- Multi-way Valve (多通阀):** A vertical cylinder on the left with multiple ports. It receives compressed air (压缩空气) from the bottom.
- Solenoid Valves:**
 - Three-way Solenoid Valve 1 (三通电磁阀1):** Located at the top, it controls the flow of compressed air to the multi-way valve.
 - Three-way Solenoid Valve 2 (三通电磁阀2):** Located in the middle, it controls the flow of compressed air to the multi-way valve.
 - Two-way Solenoid Valve 1 (两通电磁阀1):** Located on the right, it controls the flow of compressed air to the multi-way valve.
 - Two-way Solenoid Valve 2 (两通电磁阀2):** Located on the right, it controls the flow of compressed air to the multi-way valve.
- Sensors:**
 - Humidity Sensor (湿度):** A circular sensor on the right, connected to the multi-way valve.
 - Full Pressure Sensor (全压):** A circular sensor on the right, connected to the multi-way valve.
 - Static Pressure Sensor (静压):** A circular sensor on the right, connected to the multi-way valve.
- Flow and Control:**
 - Compressed air (压缩空气) enters the multi-way valve from the bottom.
 - The multi-way valve has three main output lines: one to the top (controlled by Solenoid Valve 1), one to the middle (controlled by Solenoid Valve 2), and one to the right (controlled by Solenoid Valve 2).
 - The right output line passes through Solenoid Valve 1 and Solenoid Valve 2 before reaching the multi-way valve.
 - The multi-way valve has a feedback line that returns to the bottom inlet.