



盛尔气体  
SHENGER GAS



**ZHE JIANG SHENGER GAS EQUIPMENT  
MANUFACTURING CO. LTD**



## >> Reliable and efficient solutions

Sheng Er Gas has a team of expert professors and engineering professionals with extensive experience in gas separation, purification, and technology development. They collaborate with world-leading companies such as Hangzhou Institute of Technology in China, China Nuclear Power Engineering Company, Siemens AG in Germany, Bode Chemie GmbH in Germany, Takeda Pharmaceutical Company in Japan, and Iwatani Corporation in Japan to improve product technology and quality using cutting-edge processes and high-performance components.

### ▪ Our advantage

- Own plant;
- Covers an area of 16,000 square meters;
- Established in 2010;
- Core technical team of more than 28 people;
- More than 120 employees;
- Business at home and abroad is developing together.

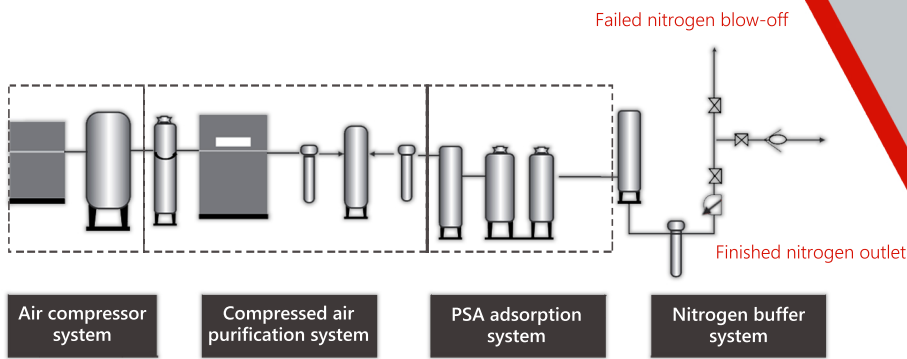






## Product Introduction

### >> Nitrogen plant process



### >> PSA nitrogen generator

Pressure swing adsorption nitrogen equipment utilizes carbon molecular sieves as adsorbents and follows the pressure swing adsorption principle to produce nitrogen gas. By taking advantage of the differential adsorption of oxygen and nitrogen on the carbon molecular sieve's surface under specific pressure conditions, the equipment alternates between two towers, utilizing programmable control of pneumatic valves to achieve pressurized adsorption and depressurization desorption processes. This effectively separates oxygen from nitrogen, yielding the desired purity of nitrogen gas.



## Technical Parameters



- Nitrogen capacity: 1~3000Nm<sup>3</sup>/h
- Nitrogen purity: 97~ 99.9995%
- Nitrogen pressure: 0.05~1.0MPa
- Normal dew point: -45°C~-60°C



## Our Advantages

- Reliable operation with a service life of over ten years;
  - Stable continuous production
  - Advanced control system
1. Siemens PLC control system
  2. Optional touchscreen control system
  3. Optional industrial computer control system
  4. Online simulation control display
- Low operating cost
  - Comprehensive after-sales service







# Product Details

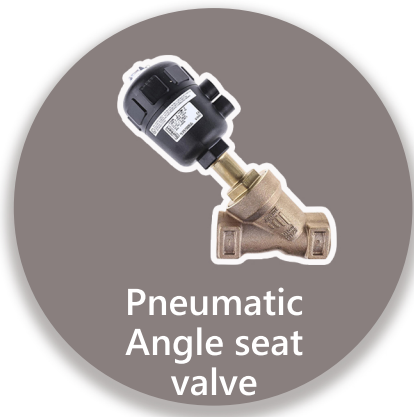


Siemens PLC

Imported PLC control system, stable, reliable, high level of automation

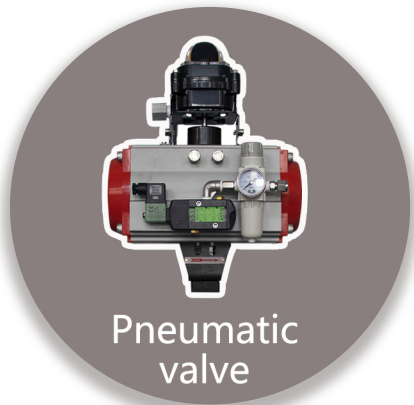


Solenoid Valve



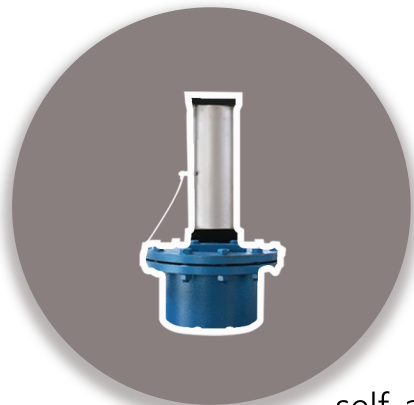
Pneumatic Angle seat valve

The opening time is 0.02 seconds, and the service life is more than 3 million times.



Pneumatic valve

Satisfies frequent use in pressure swing adsorption processes, with a simple structure, reliable sealing, and fast closing speed.



self-actuating pneumatic cylinder clamping device



## >> With international customers



## >> Company certificates



## >> Customer case



In environmental protection industry case



In the beer industry case



In the lithium battery industry case



In the electronics industry case



In the pharmaceutical industry case



In chemical industry case

