

Mixing technology and operation method of liquid gas



The characteristics of the standard gas should be homogeneous, i.e., its quantity is guaranteed to be constant within a specified range. Regardless of which method is used to prepare the standard gas, it needs to be homogenized. The mixing methods of standard gases include: heat treatment method, cylinder rolling method, special filling method, natural diffusion method, other mixing methods, etc. Several mixing operations are as follows.

1、 Heat treatment method: Generally, the container of the prepared standard gas is heated in a warm water bath below 40°C, so that the gas components can be mixed more quickly and evenly.

2、cylinder rotating and rolling method: the cylinder is placed horizontally on the rolling axis of the mixing half-position, so that it rotates around the axis of the people. The method of mixing takes a short time and is simple to operate.

3、Special filling method: When filling certain gases, the cylinder can be turned upside down and kept at an inclination of 45°C, and inflated from the lower end to promote adiabatic expansion of the gas and produce exothermic effect, and the gas can be mixed evenly while filling.

4、Natural diffusion method: The cylinder filled with standard gas is turned upside down at a suitable position and kept stationary, and the natural diffusion of the gas itself is relied on to achieve uniform mixing, but this method takes a longer time.

5、Other mixing methods: The use of static mixing containers or the use of special construction of the container valve can make the standard gas mix uniformly in a very short time.

