Centralized Gas Supply System for laboratory

Advantages of a centralized air supply system

In response to the problems of previous use, modern laboratories have reformed the use environment of carrier gas, namely the "centralized gas supply system". Carrier gas is stored centrally and sent to the place of use through metal or other material pipelines based on the principle of pressure difference. Its main advantages are:

1. Maintain gas purity
2. Avoid gas cutoff
3. Stable gas pressure
4. High efficiency
5. Easy to operate
6. Reduce gas cylinders and save space
7. Reduce molecular sieve loss
8. Improve laboratory safety
9. Reduce the damage and loss rate of control valves and shorten the connecting pipeline between valves and instruments.

Key components of a central air supply system

1. Experimental gas pipeline: The gas pipeline mainly uses stainless steel pipes or hoses, and is installed through ferrule connections or automatic welding, or the installation of special gas pipelines to complete the connection of the entire system.
2. The commonly used parts of the gas pipeline mainly include pressure reducing devices, ball valves, needle valves, straight-throughs, tees, etc.