THE BUNSEN BURNER

1. The Bunsen Burner is designed so that air can be mixed with Methane Gas to produce a clean hot flame.

2. A yellow flame does not have enough air. A yellow flame will leave a black deposit on glassware because the Methane Gas has not been burned to completion. A yellow flame is not very hot when compared to a blue flame.

3. The black deposit left by a yellow flame is carbon.

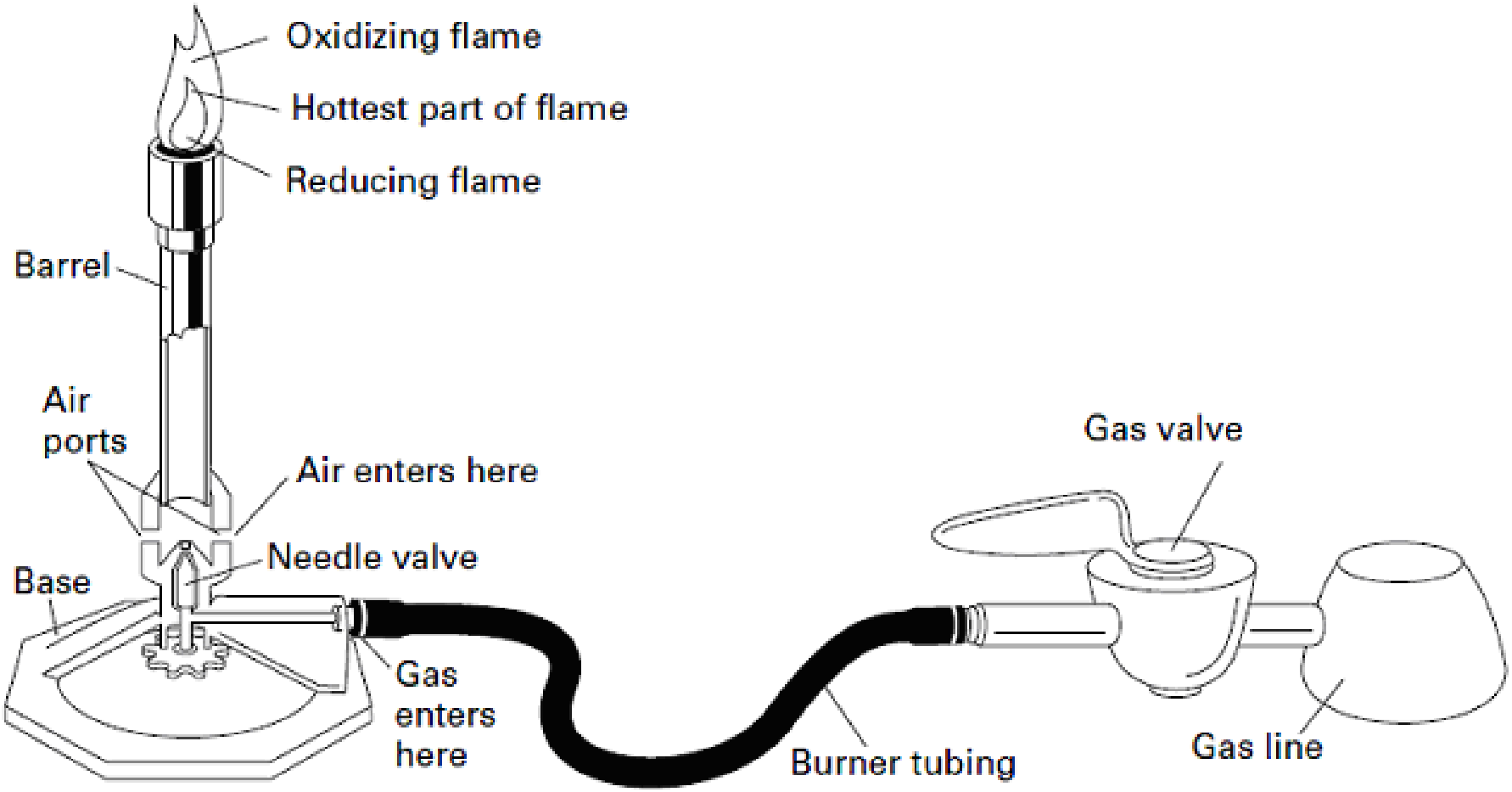
4. The best flame is one that is clean—leaves no black deposits—and is hot. Such a flame on a Bunsen Burner is blue with two cones.

5. The Methane Gas is mixed with air in the Burner barrel. There is no fire in either the barrel or the inner cone. There is only a mixture of gas and air that is not hot enough to burn.

6. Sometimes a burner will "strike back". When a burner strikes back it will burn at any place other than the top of the barrel.

7. The first thing you should do if your burner should strike back is to turn off the gas.

8. The Bunsen Burner is named for its designer; a scientist named Robert Bunsen.


Oxidizing flame
Hottest part of flame
Reducing flame
Barrel
Air ports
Air enters here
Needle valve
Base
Gas enters here
Burner tubing
Gas valve
Gas line