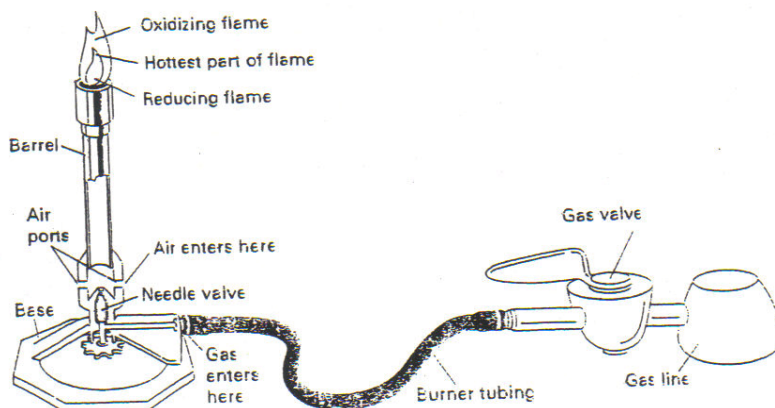


## How to Light A Tirrill Burner

Here is a list of steps you should use to properly operate a Bunsen burner (actually, we use Tirrill burners, but everyone wrongly calls them Bunsen burners).



In order:

1. Make sure the gas supply valve is closed and that all components of your burner are intact.
2. Make sure the gas needle valve is closed (all the way up at the base) and the barrel is closed (all the way down).
3. Insert the burner tubing over the gas supply valve jet.
4. Fully open the gas supply valve (in line with the burner tubing).
5. Slightly open the gas needle valve until you hear the gas hissing out of the burner.
6. Firmly push the flint across and into the striker to create a spark while holding the striker upside down at the top of the barrel.
7. Once a yellow flame has been created, open the barrel to allow oxygen to mix with the gas to create an intense, roaring blue flame with both an outer (cooler) and inner (hotter) blue cone (see # 4 below—but even # 4 is too large as your flame should only be about 10 cm in total length).
8. The degree of heating needed is controlled by how far you are from the tip of the inner blue cone, but you do not make your flame larger or smaller.
9. When you need to shut your burner off, reverse the steps and put your burner away with the gas needle valve and barrel closed.
10. If your burner extinguishes during use, close the barrel and reignite.

