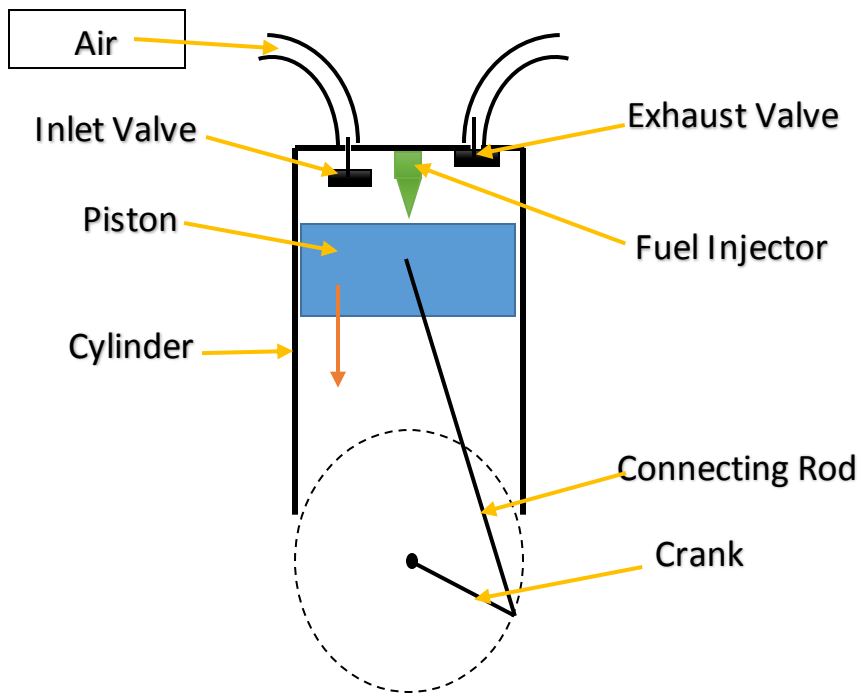
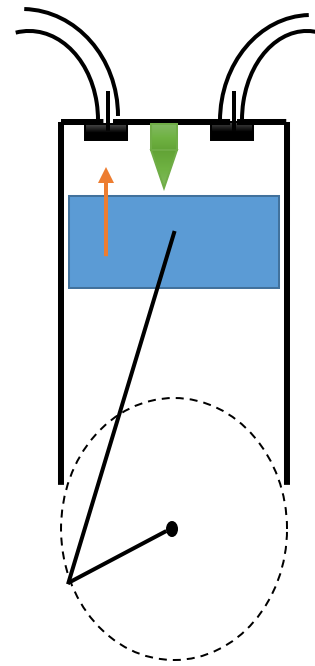


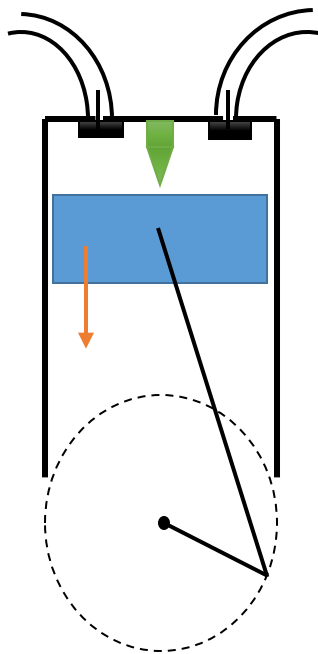
# Working of four stroke diesel engine



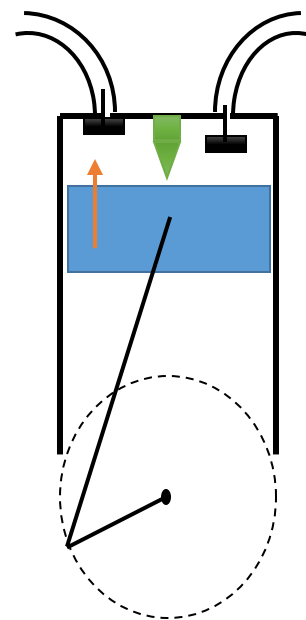
(1) Suction Stroke



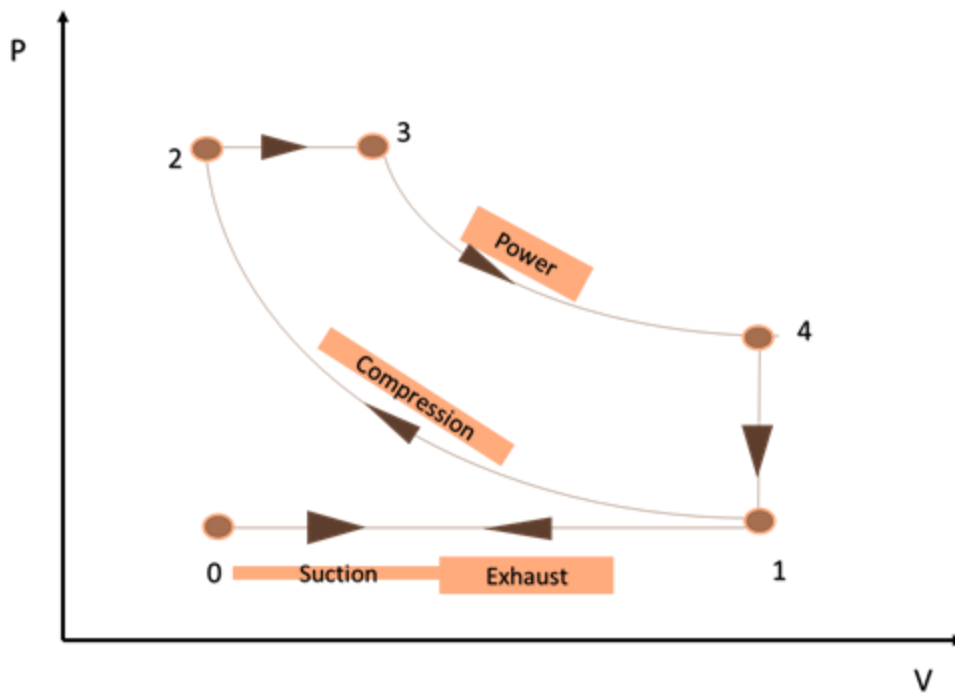
(2) Compression Stroke



(3) Power Stroke



(4) Exhaust Stroke



### **(1) Suction Stroke:**

In this stroke Inlet valve is open, and Exit valve closed. The piston moves from T.D.C. to B.D.C. The air (only) comes inside the engine.

### **(2) Compression Stroke:**

In this stroke Inlet valve and Exit valve both are closed. The piston moves from B.D.C. to T.D.C. So, the air will be compressed.

### **(3) Power Stroke:**

In this stroke, there will be injection of fuel (diesel) from fuel injector in the hot compressed air. So, it will be auto ignited. This produces energy/power. That's why this stroke is called power stroke. Here, Inlet valve and Exit valve both are closed. The piston moves from T.D.C. to B.D.C.

### **(4) Exhaust Stroke:**

In this stroke Inlet valve is closed, and Exit valve open. The piston moves from B.D.C. to T.D.C. So, the smoke will go outside the engine through exhaust valve.