

## Requirements of a Carburetor Used with Variable Speed Engine:

1. Atom<sup>n</sup>. of the fuel & homogeneous mixing with Air.
2. Smooth Engine running w/o hunting or fuel wastage
3. Provide Rich mixture during starting & idling.
4. ————— " ————— for quick Acc<sup>n</sup> of Engine.
5. Provide Const. A:F ratio during Normal running which is the max. period.
6. Must able to start the engine even in Very cold weather cond<sup>n</sup> (during snowfall or T. falls to zero)
7. All op.<sup>n</sup>s should be Automatic.

## Devices which meet above requirements:

### DEVICES

### FUNCTIONS

1. A starting or a pilot jet → To start the engine
2. Compensating devices → To provide Const. A:F ratio during Normal op<sup>n</sup> cond<sup>n</sup>
3. An Automatic control of choke valve → To start the engine in cold weather.

### 1. Starting/pilot jet:

The starting jet is an elementary single jet like main jet which supplies rich mixture at nearly closed throttle pos<sup>n</sup> and a progressively weaker mixture as the throttle is opened and stops the fuel supply under normal running condition.