

filling pressure P1 of the system is being constantly monitored, when  $P1 \geq 30\text{Psi}$ , it shifts to next air pumping cycle (Note: during the cycle process, vacuum pump keeps running) .

5) The program runs in cycles repeatedly, after several cycles, when Wet gas cycles value is equal to preset value (Wet gas cycles value default value is 3, it is changeable when needed), it runs enters dry gas cycle. When Dry gas cycles value is equal to preset value toward the end, when P3 value is less than or equal to set value (P5 default value is 200mtorr, it is changeable when needed), the system will give an alarm to indicate that cleaning is thoroughly completed.

## **E. Modification of preset parameters**

### **1) Modification of P1 value**

P1 value is controlled by Pressure Switch, The default value is 30Psi. P1 Value can be changed by inserting the needle to another place. This should be done by specialist, it is recommend that the user should not change it by himself.

### **2) Setting and modification of P2 and P3 values**

Setting and modification of P2 and P3 values can be done through SVG-1TM high vacuum gauge. Each pressure value has its upper and lower range limit, take P2 for example its default value is  $5.0\text{E}2=500\text{mtorr}$ , and its pressure range limit is from  $5.0\text{E}2=550\text{mtorr}$  to  $5.5\text{E}2=500\text{mtorr}$ , the upper limit is 550mtorr and lower limit is 500mtorr.