



FOT[®] FIRE CONTROL

KITCHEN FIRE SUPPRESSION SYSTEMS



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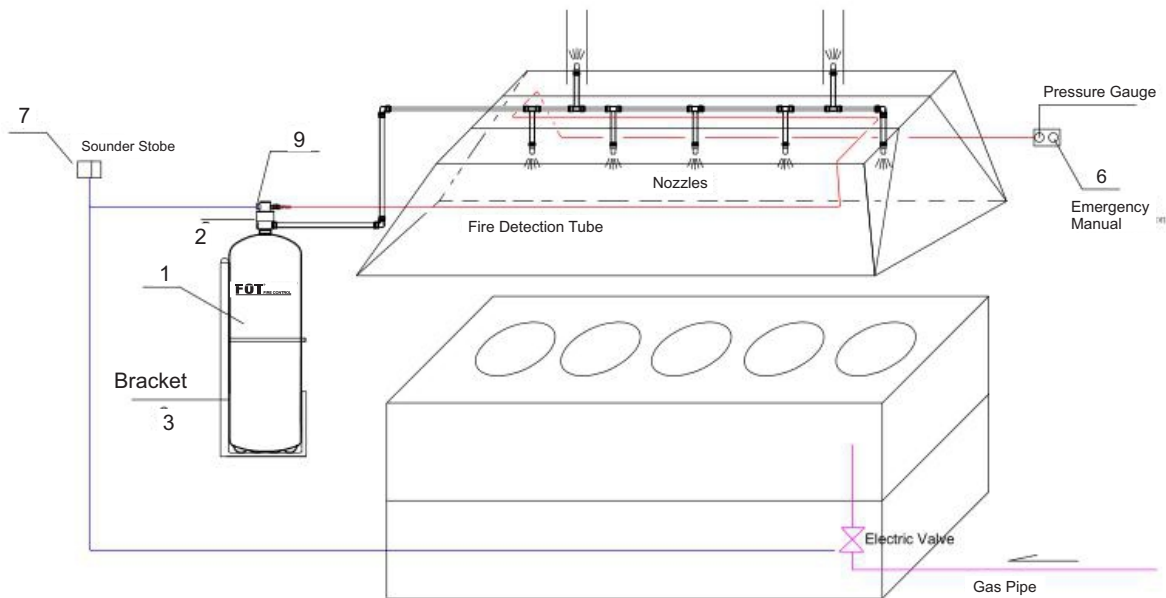


Kitchen Fire Suppression Systems

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Kitchen Fire Suppression Systems





1. System Tank
2. Automatic Head Valve
3. Bracket
4. Discharge Pipe
5. Nozzles
6. Emergency Manual Button
7. Sounder Stobe
8. Fire alarm Cable
9. Pressure switch

System Specification:

1. Capacity — 8L, ---9L, 12L, 20L
2. Agent ----- Wet Chemical
3. Working Pressure ----- 14Bar
Test Pressure ---- 27Bar
4. Activated Temperature: 140°C

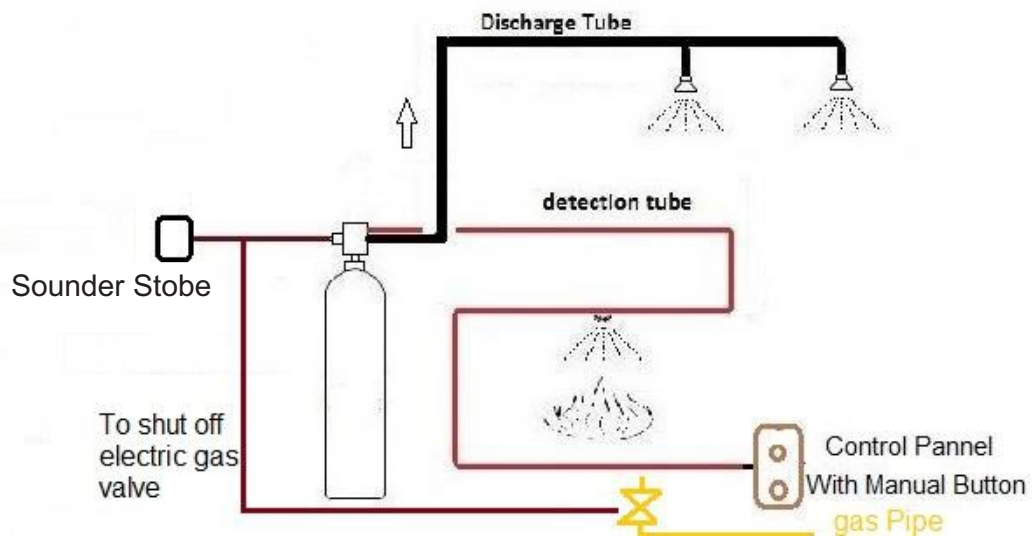


2. Working Principle

2.1 Detection Tube ruptures to a hole when temperature reach 140 , and Release pressure through the hole. (Or pushing the manual button of detection tube, pressure releasing from the manual button.)



- 2.2 Valve was opened and agent was discharged through the discharge tubing to the nozzles
- 2.3 Agent covering the area and suppressing the fire quickly and thoroughly This system is totally automatic.

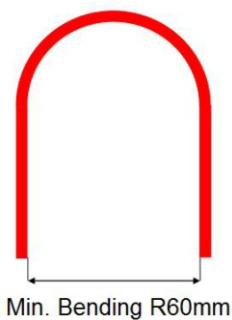


3. Install Instruction

3.1 Fix the bracket and put the cylinder in bracket (Note the ball valve was shut off.)



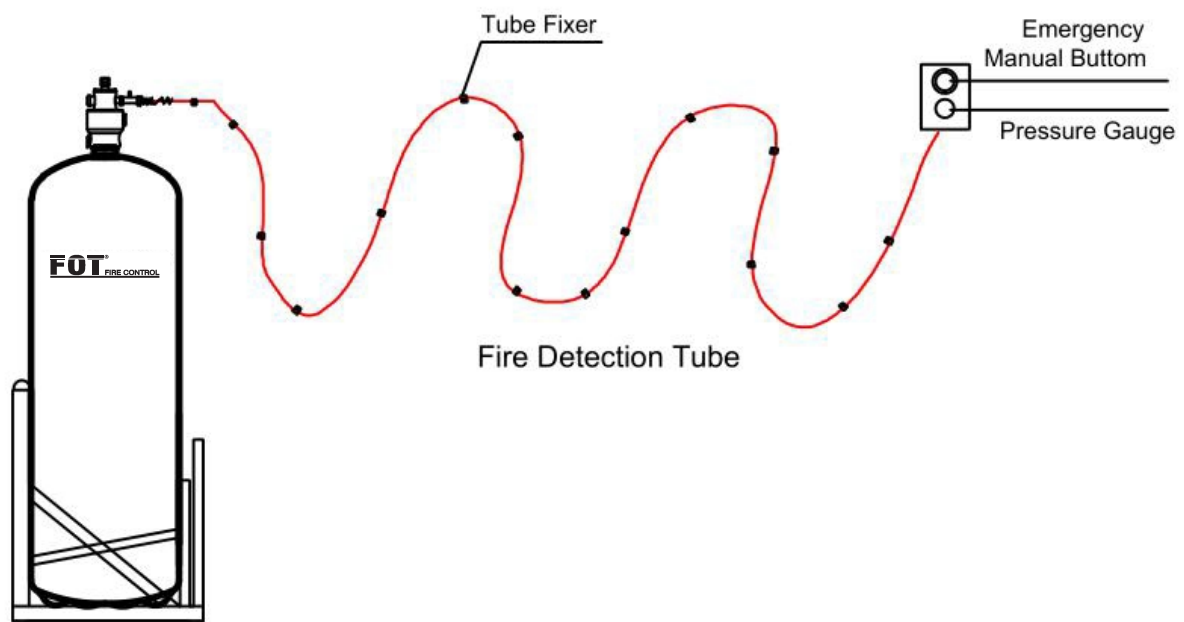
3.2 Fix the detection tube in the protected area. And Fix the detection tube on the kitchen hood. Ensure the tube Min. bending R60mm. Leave the tube at least 150mm distance from the heating source



Connect the detection tube to ball valve end



And connect the detection tube end to the control panel



3.3 Ensure the port locker on the valve well, don't remove the locker.



Turn on the Ball valve , fill the N2 gas from the air check valve, till the pressure gauge reach 14bar.
After filling, check the pressure reduce or not. And use a plastic seal, tie the ball valve handle, ensure it is turn on always.

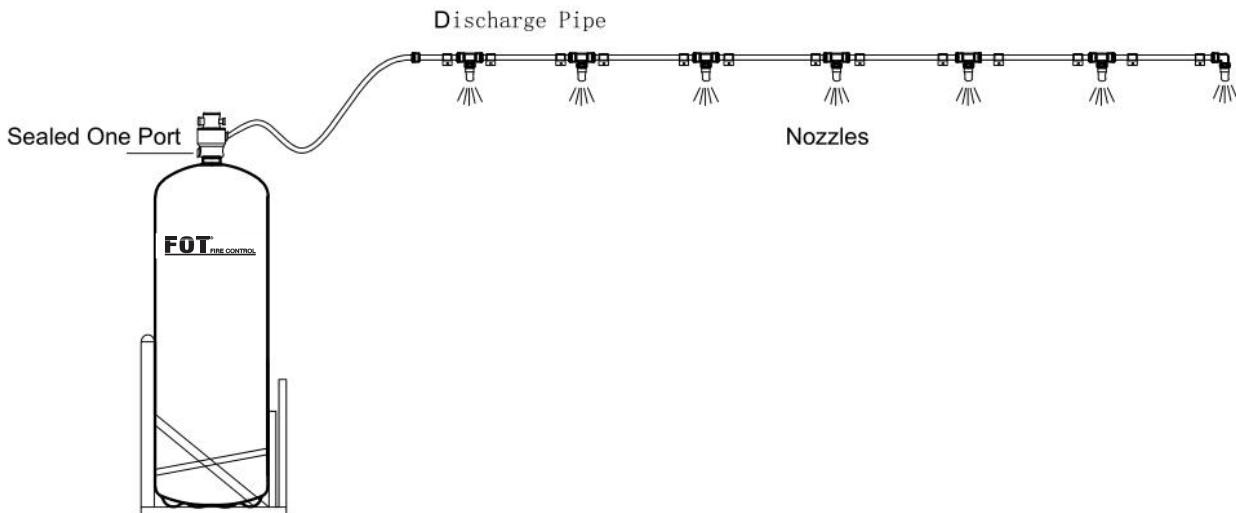




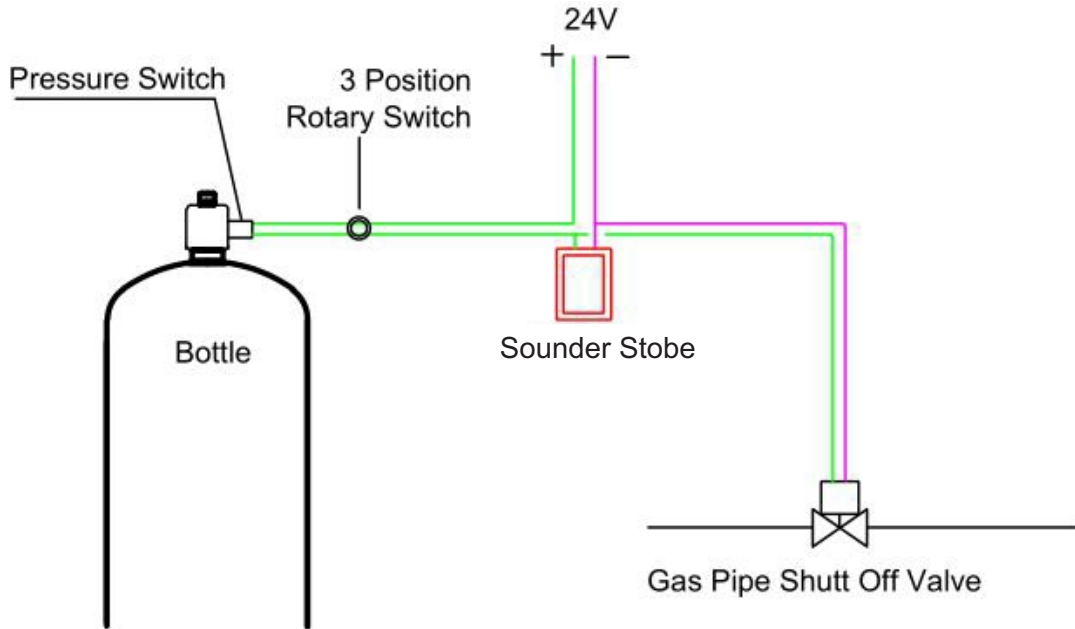
3.4 Remove the Locker from the 2 discharge ports (changed to red color model now).
Cut the pipe as needed length.
Connect the discharge pipe to valve, and fix the pipe by clamp, and installed the nozzles.



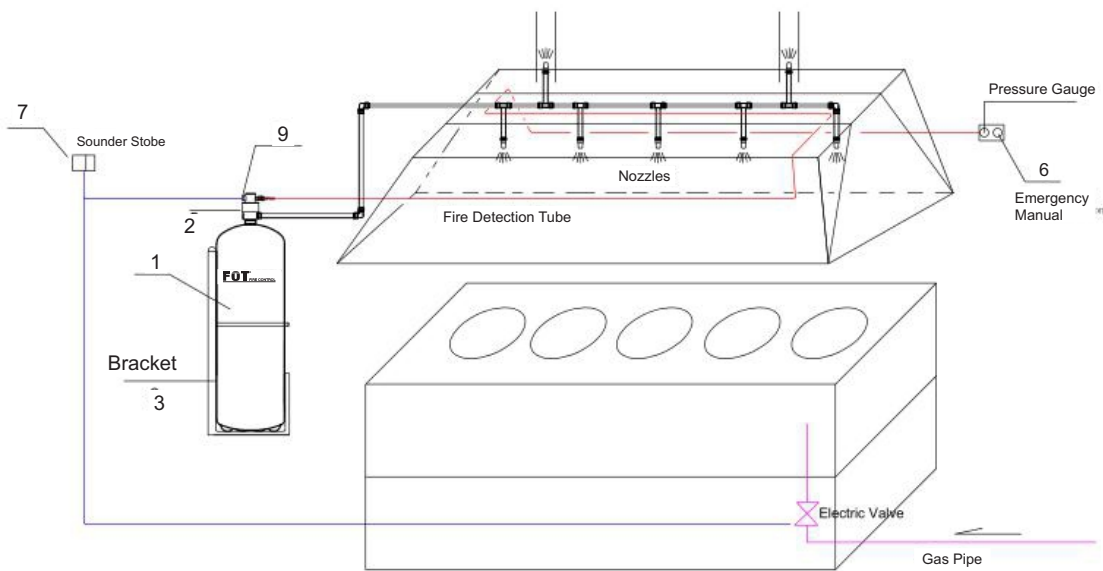
If need only one discharge port, sealed another port by end seal.



3.5 Connect 24V Power to Pressure Switch, And Connect the pressure switch to Fire Alarm and Gas Pipe Electric Valve.



3.6 Systems are F inished, check the pressure gauge is in Green Zone

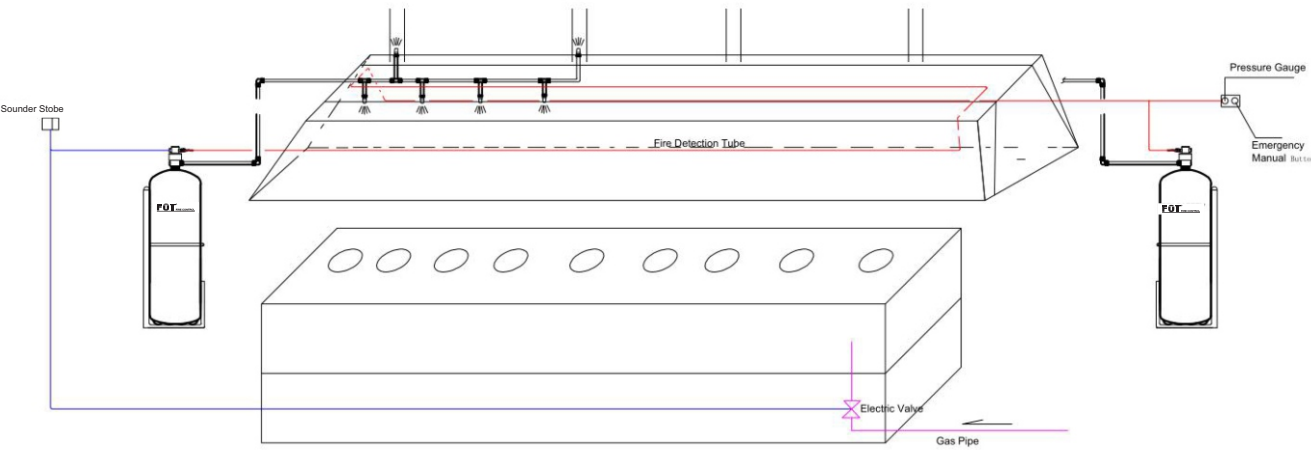


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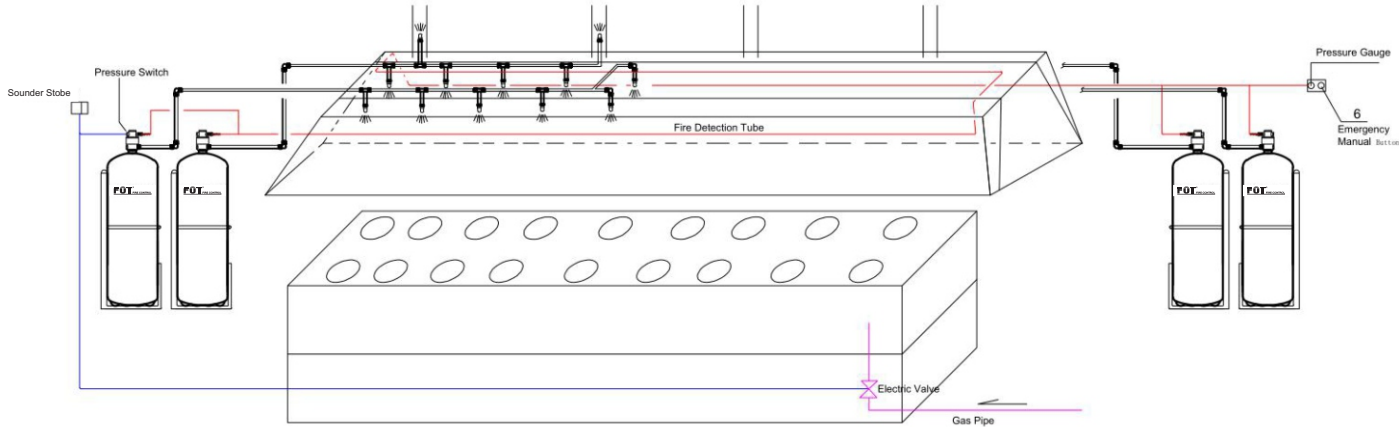
3.7 For Long Kitchen Hood install several units for one same hood, the installation as below.



Kitchen Fire Suppression Systems

System Specification:

OR



4. Service and Maintenance

4.1. Each 3 monthly inspect the below Items

- 1) Ensure the pressure gauge Pointer in the middle of Green Zone.
- 2) Check the detection tube is visual
- 3) Ensure physical changes of protected areas haven't affected cylinder suitability.
- 4) Check external surface of the cylinder for evidence of rust or corrosion.
- 5) Report any potential problems immediately.

4.2 Annual inspection checking.

Remove discharge pipe work and fit blanking caps before starting maintenance

- 1) Check maintenance record on cylinder to ensure "new date" is less than 5 years old.

Foam cylinders require discharge testing every 5 years.

- 2) Check external surface of cylinder for rust, corrosion and damage.

(If damage or corrosion is identified, replace cylinder)

- 3) Check cylinder bracket and fixings for security.

- 4) Ensure physical changes of protected area haven't affected cylinder suitability.

- 5) Check pressure gauge is reading mid green. If gauge reading in red area, please check and refilling or change cylinder.

- 6) Carry out visual check of trace detection tubing for damage, deterioration and security of fixings.

- 7) Carry out visual check of discharge pipe work for damage, deterioration and ensure fittings are tight

- 8) Record details and service date on cylinder service label.



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