Executive Order G-70-118-AB

Exhibit 3

Amoco V-1 Vapor Recovery System
Hose and Dispenser Configurations

Figure 3-A contains diagrams of the hose configurations. The drawings are intended to be generic in nature and apply to dispensers similar to the models shown. Dispensers may have more or fewer hoses than shown.

All Configurations

1. A liquid removal system is required. The liquid removal system shall be located so as to be capable of removing at least 20 milliliters per minute when the nozzle is flowing at a rate of at least 4 gpm and is latched into the fillpipe of a vehicle which:

    - is parked with the fillpipe on the side of the vehicle closest to the dispenser being tested;
    - is parked four plus or minus one half feet (4±1/2') from the dispenser face; and
    - has a fillpipe located thirty inches plus or minus three inches (30±3") above the driveway surface.

2. The "hose assembly" includes all breakaways, optional swivels and other components. All hoses, including "pigtail hoses," are also specifically included in the term "hose assembly."

3. The hose may not touch the island or the ground when not in use. In the case of a dogbone island where the wider island ends protect the hose from damage by vehicle tires, the hose may touch the vertical face of the dogbone island at the option of the local air pollution control district.

4. Use one inch or larger inside diameter galvanized pipe for riser. (Exception: For Dispenser Configuration 5 only, 3/4 inch or larger ID vapor riser may be used.)

5. A CARB-approved flow limiter is required on all dispensers that have a maximum flowrate in excess of 10 gallons per minute.

Dispenser Configuration 1 - High discharge coaxial hose configuration

1. The hose assembly may not exceed 10-1/2 feet in length.

Dispenser Configuration 2 - High retractor coaxial hose configuration

1. The hose assembly may not exceed 12 feet in length.

2. The hose retractor shall fully retract the hose to the top of the dispenser when not in use. The tension on the retractor should not be in excess of that required to accomplish this.

3. The hose and retractor shall be installed so as to permit natural drainage from the retractor clamp into the dispenser when not in use.

Dispenser Configuration 3 - High discharge coaxial configuration with retractor and hose loop

1. The hose assembly may not exceed 13-1/2 feet in length.

2. The hose retractor shall fully retract the hose to the top of the dispenser when not in use. The tension on the retractor should not be in excess of that required to accomplish this.

3. The hose and retractor shall be installed so as to permit natural drainage from the retractor clamp into the dispenser when not in use.

Dispenser Configuration 4 - Low profile coaxial configuration with retractor

1. The hose retractor shall fully retract the hose to the dispenser when not in use. The retractor clamp shall be positioned to avoid any bulge of hose between the clamp and the dispenser outlet swivel.

Dispenser Configuration 5 - High retractor, low discharge coaxial configuration

1. Vapor return piping and vapor pump may be installed on the inside or the outside of the dispenser cabinet.

2. The hose retractor shall be positioned 5 to 7 feet above the island surface.

3. The hose retractor shall fully retract the hose when not in use. The tension on the retractor should not be in excess of that required to accomplish this.

4. The hose and retractor shall be installed so as to permit natural drainage from the retractor clamp into the dispenser when not in use.

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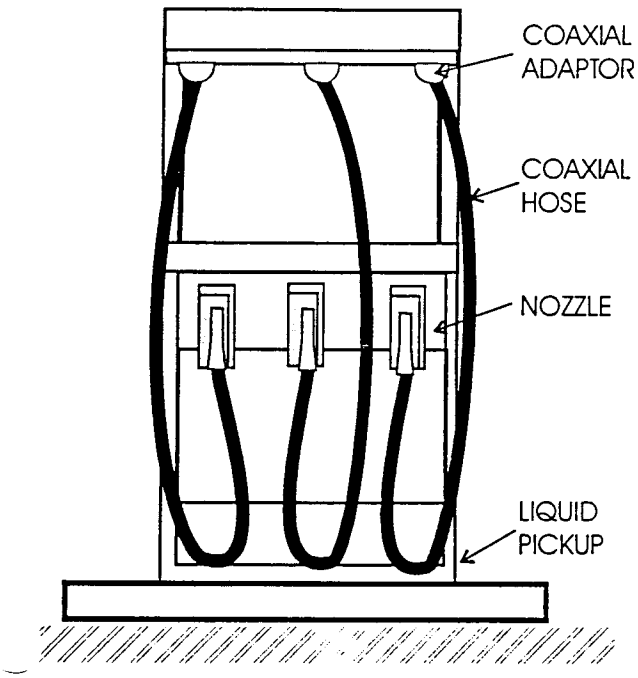
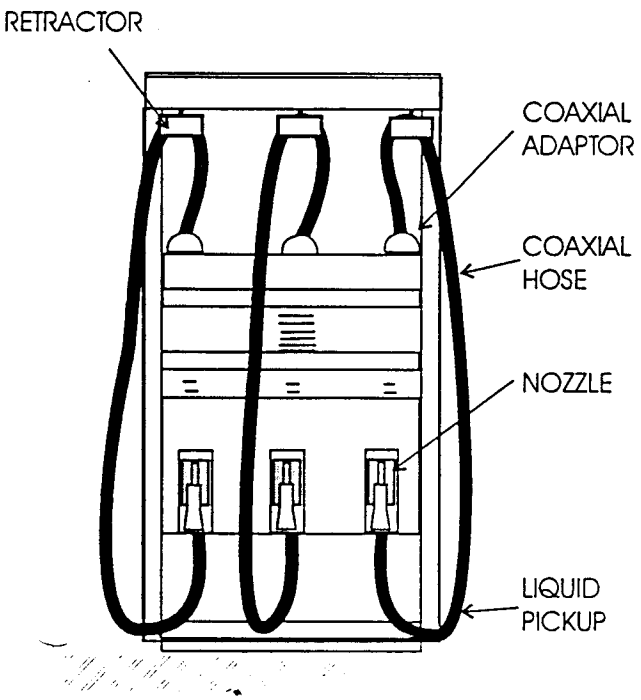
Figure 3A

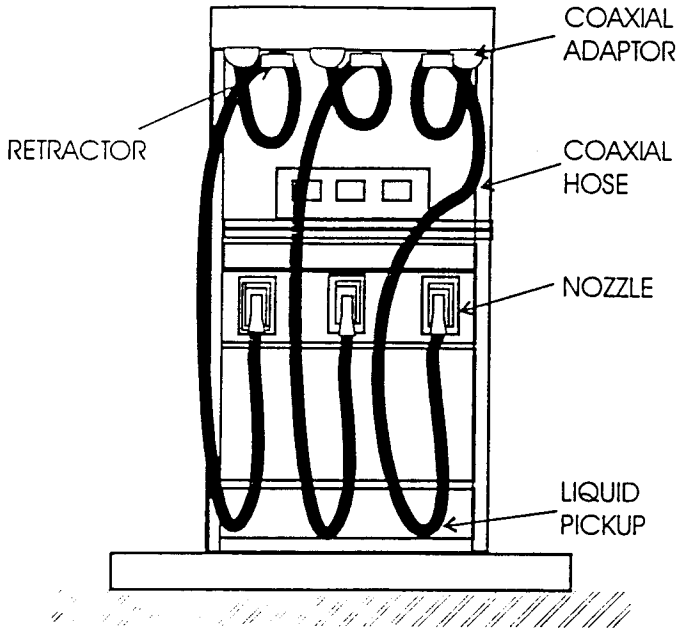
Amoco V-1 Vapor recovery System Hose and Dispenser Configurations



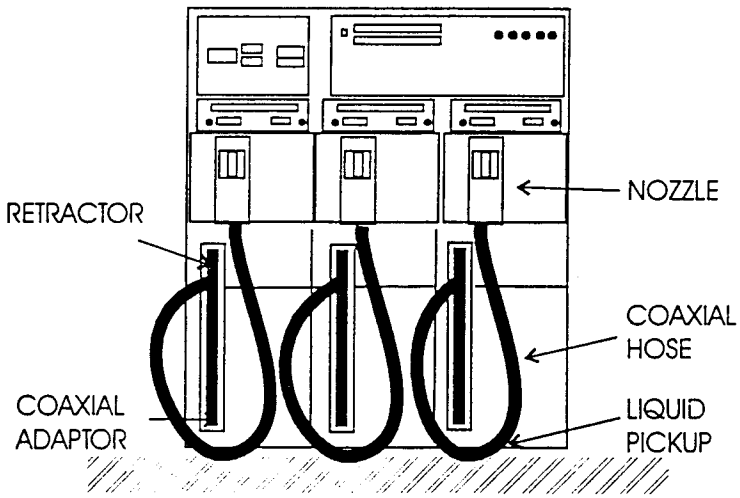
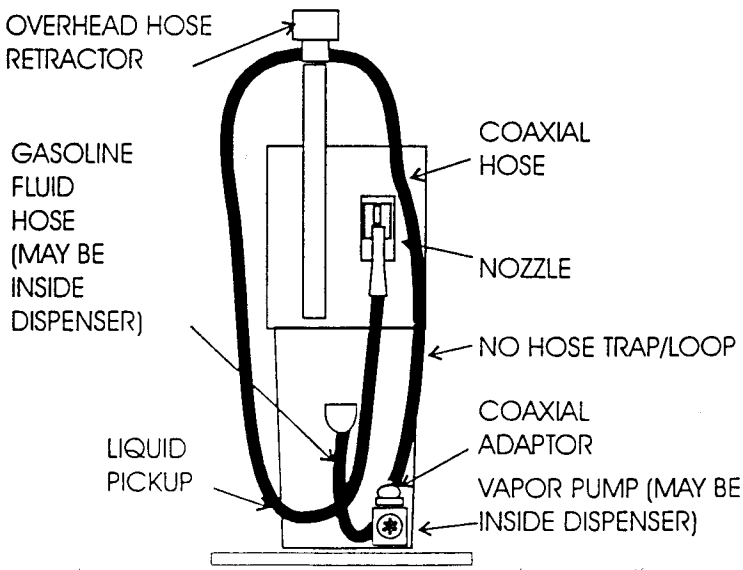
Dispenser Configuration 1



Dispenser Configuration 2



Dispenser Configuration 3



Dispenser Configuration 4