



## HIGH FLOW REFUELING SYSTEMS

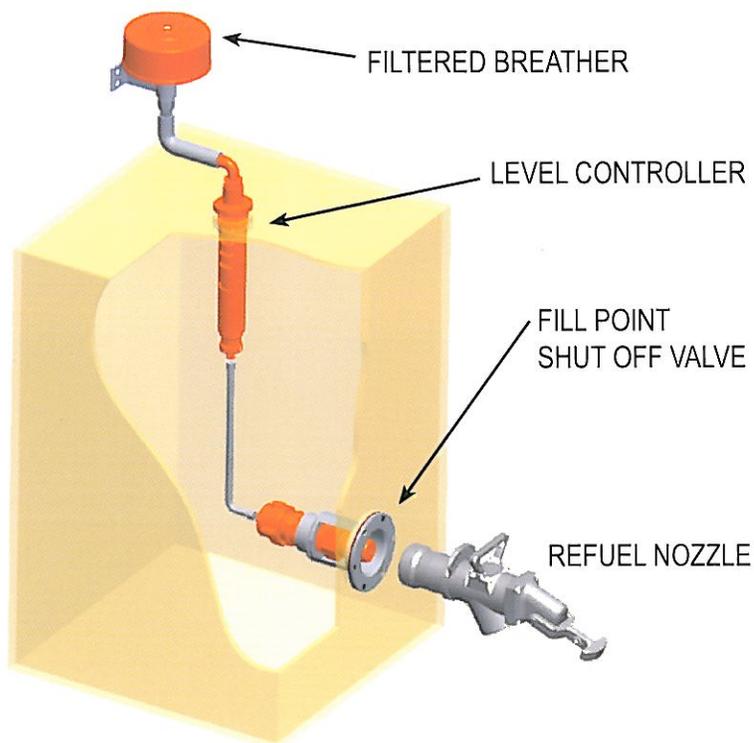
## PR-150 SERIES PRESSURE-LESS REFUELING



Refuel or fill any fluid storage vessel accurately and prevent spillage or over-pressurizing the storage tank.

### System Key Features

- Flow rates up to 150 GPM (570 LPM)
- Positive shut off prevents manual override
- Meets directive 97/23/EC and does not pressurize tank
- No spills or burst tanks
- Ground level



### System Specifications

- Mates with industry standard nozzles and 2" NPT receivers
- Shut off valve acts as a check valve when servicing receivers
- Shut off valve can be connected to multiple receivers for remote or dual fill locations
- Zero or low pressure systems can be used with thin wall or plastic fuel cells

### Operation

- Attach standard fill nozzle to receiver
- Energize pump and actuate nozzle
- Shut off valve opens and filling begins. Displaced air escapes through the filtered vent
- Upon reaching a full tank, the level controller signals the shut off valve to close
- No more fuel can be introduced to the tank – the shut off valve is sealed
- The nozzle is removed and the vehicle returned to service

## 150 GPM System Components

The pressure-less system requires three components:

- **Refuel Receiver** – this component provides the interface to the refuel delivery system.
- **Shut Off Valve** – controls fuel flow into the tank (shown with receiver attached).
- **Level Control Vent** – operates the shut off valve and vents displaced air from the tank during filling.

**Select and mount either style valve to the lower part of the fuel tank and mount the control vent to the upper part of the tank:**

### Direct Mount

Use this style valve when the fill location is protected from damage or debris. Direct mount valves can be installed in existing 2" NPT tank fittings or mounted remotely in manifold housings.



Direct Mount

### Recessed Mount

Use this style valve to protect the receiver from damage. This well can be installed on OEM or retrofit tanks.



Recessed Mount

### Control Vent

This unit controls the shut off level of the fluid and works with either style valve. Spacers can be used to adjust the fuel level. Once set, the fill level is accurate and repeatable. The vent can be fitted with an optional filter or poppet valve to prevent fuel slosh.



Level Control Vent