



#### 1.0 PURPOSE:

A discriminator valve differs from a conventional vent/check valve in that it allows airflow in and out of a tank but prevents fuel from exiting past the valve. The primary function is to prevent fuel from traveling out the tank, through the vent line, and out the vehicle. All discriminator valves should be used in conjunction with a conventional vent/check valve located in the tank to prevent fuel from exiting the tank in the event the vent line breaks between the tank and discriminator valve during a crash.

#### 2.0 HOW IT WORKS:

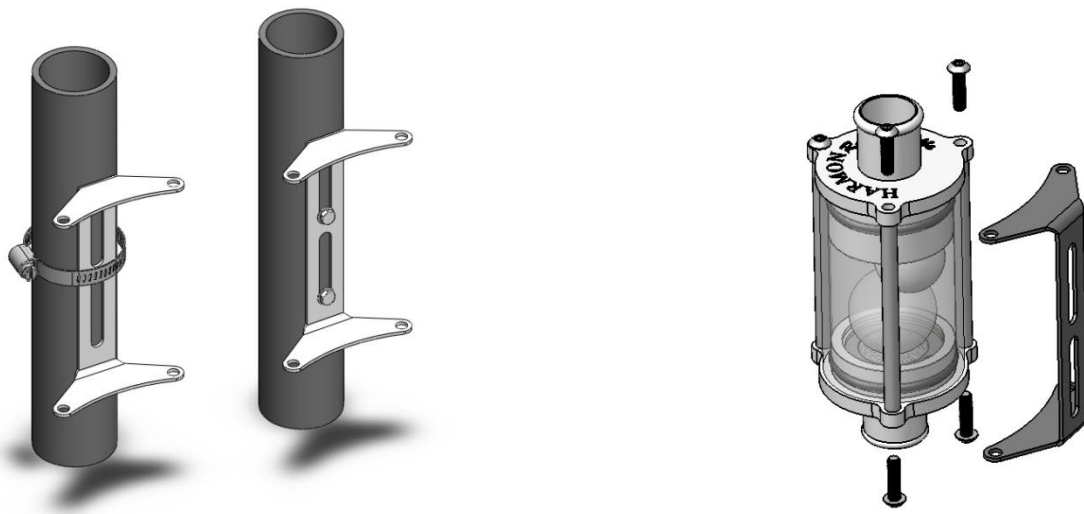
The valve operates using a combination of hollow and solid balls that work to allow air flow in/out of the tank while preventing fuel from moving past the valve. As the tank is filled, air moves around the balls and out of the tank; when fuel enters the chamber a float ball activates and lifts the solid ball up to prevent fuel from moving past the valve.

#### 3.0 INSTALLATION:

The valve should be installed with the AIR FLOW arrows pointing in the direction air will exit the tank (when viewing it, the large ball should be closer to the floor and the smaller ball closer to the roof). The valve should not be angled more than +/- 15 degrees from perpendicular to the ground. For optimal use and longevity an air filter should be placed on the end of the vent line to prevent debris from traveling up the vent line to the valve.

#### 4.0 SECURING THE VALVE TO THE VEHICLE:

Each valve comes with a stainless steel mounting bracket suitable for direct mounting to the vehicle. The bracket can be bolted, screwed, clamped, or welded directly to the chassis. The valve is then bolted through the tabs for a secure fit. **DO NOT ATTEMPT TO SECURE THE VALVE VIA THE CLEAR VIEWING CHAMBER AS THIS WILL CAUSE IT TO CRACK PREMATURELY.**



## 5.0 MAINTENANCE:

Annual maintenance of the valve should be performed to verify all features are working correctly. Inspections of the float and solid balls, the inlet screen, the o-rings, and the clear plastic should be done to verify no cracking, clogging, or other damage has occurred. In the event any parts need to be replaced Harmon offers a rebuild kit (part # HDRBK-100V) that includes all seals, balls, screens, and a clear viewing chamber.

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