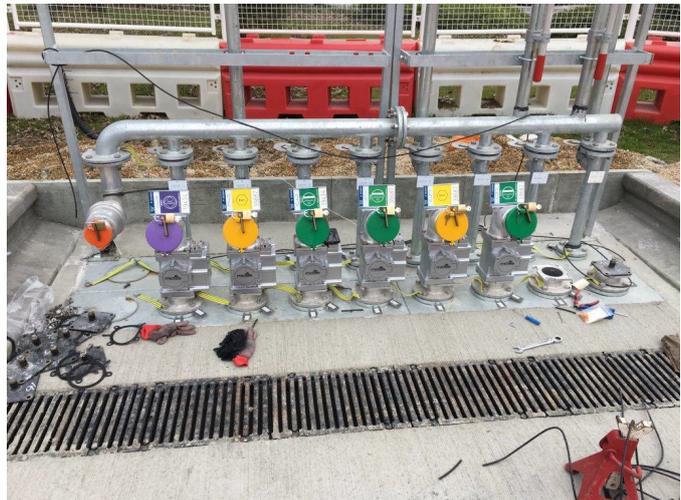


Vent Master

Operations & Maintenance Manual

Version: 1.0
Date: 03/03/2017



Read these instructions before you operate or install the vent master systems.

Version History

Iss. #	Implemented by	Revision date	Approved by	Approval date	Reason
1.0	S.Perry				

1 INTRODUCTION

1.1 PURPOSE

Vent Master is another part of the 'plug-and-play' range from Berrys Technologies. It can either be fitted as a stand-alone component on the side of a forecourt or it can be incorporated as a dual purpose vent and fill system, where the vent position is next to the fill position.

1.2 AUDIENCE

This document has been created for use by installers, operators and for maintenance purposes and can be used as an instruction manual on how operate and maintain the vent master. More information can be found at: <http://berrys.com/ventmaster>.

2 SYSTEM DESCRIPTION

2.1 KEY FEATURES

- Ability to make quick grade changes without breaking any pipework thanks to the spectacle flanges on the 2" vent riser tubes.
- A 3" manifold allows all spirit vapours to be separated from diesel vapours and returned via a stage 1 B-line back to the tanker.
- Can be used to incorporate the Berrys world renowned EROS easy-riser system which allows the operator to bring the pressure vacuum valve down for service & maintenance.
- Vent master can be supplied in formats from 2 vents all the way through to 15, depending on site requirements.
- Pipe work connections are made via an electrofusion coupler straight onto polyethylene pipe reinforcing the ease of 'plug-and-play' between Mono Gen 2, Vent Master and other products in the Berrys range.

2.2 ENVIRONMENT

For successful installation and maintenance of the vent master system, the following tools and equipment will be required.

- Torque wrench
- 24mm socket (on a nut runner)
- x2 stillsons
- x2 24mm spanners

2.3 SYSTEM OPERATIONS

The vent master is used to contain and transfer dangerous petrol vapors during delivery and dispensing. Using the EROS easy riser and the vent master manifold the vapour can be contained and removed during the refill process. This process greatly reduces the quantity of harmful vapours entering the atmosphere as well as reducing the risk of explosive atmospheres.

3 PRODUCT INSTALLATION

3.1 FIRST-TIME USERS - IN HOUSE ASSEMBLY

- 1) Place a 2" novus 10 gasket onto the base tray and line up the pin holes, then attach the polyethylene stubs with the 2" flange to the base plate ensuring the pins pass through the locating holes.
- 2) Tighten the flange to the base tray with M16 nuts using a nut runner and a cross bolt tightening sequence.
- 3) Place Novus 10 gaskets on each flange module and ensure the holes line up. Then position the 2" vent riser tubes on top of the gaskets and adding earthing strips to each tube.
- 4) Novus 10 fire resistant gaskets are added to the top of the vent riser tubes with spectacle flanges placed in between the 2 gaskets.
- 5) The vent manifold is now added on top of the vent riser tubes and secured using M16x75 bolts. If required, fit the diesel exhaust ports to the relative vent riser tube.
- 6) At this stage, attach 2" galvanised elbows to the 2" relevant diesel exhaust ports while fitting 2" galvanised plugs to the spirit vent riser ports.

3.2 ON SITE INSTALATION

1) When the vent tray is ready to be installed, bolt on the 4 legs and the up-rights to the base tray. This must be done before the tray is lowered into the ground. It is important to note that the brackets must be assembled before the tray is concreted to forcourt level.

(Leg brackets can be cut to meet site requirements)

2) Fit the vapour recovery module onto the elbow located to the left of the vent modules.

3) When the area for the vent tray has been prepared, ensure the floor is level and ready for the vent tray to be lowered in. *(Before lowering the tray, evaluate the area for any potential trip hazards and remove them if neccesary)*

4) When the tray is in position, check that the surface is at the level and height it needs to be and secure the 4 legs with concrete in accordance to industry standards.

