



## POSITIVE DISPLACEMENT METERS AND ACCESSORIES



[www.vermonttechnologies.co.in](http://www.vermonttechnologies.co.in)

- Measurement
- Tank Safety
- Transfer
- Control



## Applications

### Truck Mounted Metering

- Aviation Fuel
- Refined Fuels
- Lube Oils & Additives
- LPG

### Terminal/Depot Metering

- Refined Petroleum Products
- Solvents/Chemicals
- Marine Fuel Oil

### Industrial Process Metering

- Industrial Liquids
- Barrel Filling
- Batching/Blending
- Dispenser Metering

### Others

- Ship Bunkering and Barge Loading
- Rail Wagon Loading
- Railway Consumer Depot (RCD)

## About Us

Vermont Technologies is engaged in manufacture and supply of reliable, high accuracy Positive Displacement (P.D.) flow metering systems. All meters are designed to provide the highest performance in flow measurement, meeting international custody transfer measurement standards. These meters are designed for use with a variety of liquids. Each meter is fully tested and calibrated at our manufacturing facility before dispatch.

## Design Features

- Conformation to custody transfer accuracy
- Can handle wide range of Viscosity of liquids.
- Modular construction ensures interchangeable parts, lower inventory of spares and ease of service.
- Bi-directional flow.
- Low pressure drop.
- Mechanical or Electronic readout.



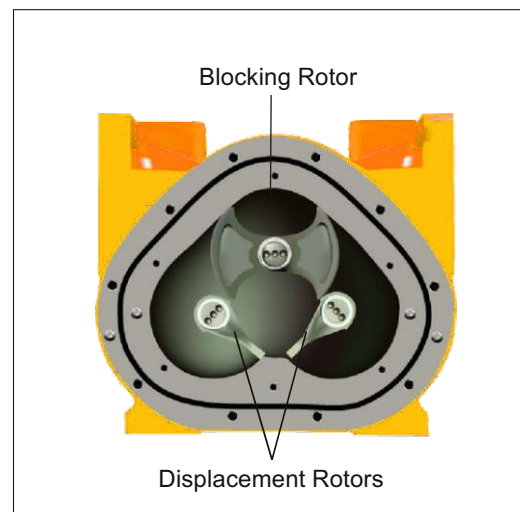
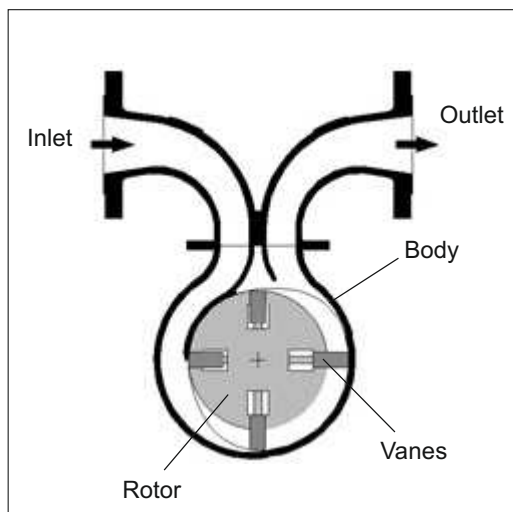
# Your Liquid Assets Manager

---

## Vermont Taurus & TL Series P. D. Meters

---

### Construction



Vermont has two designs of P. D FlowMeters  
One is the unchallenged  
Rotary Vane Design &  
Second Tri-Rotor efficient design.

### Sustained Accuracy

Rotary Vane design works on the principle of “Capillary Seal”, which ensures unmatched accuracy even for liquid with less viscosity. Any variation in viscosity does not effect accuracy.

### Efficient Design

Proven design of Tri-rotor ensures minimal wear and longer service life. It consists of a housing and three rotors. The rotors are supported by bearing plates. The calibrator captures the rotor rotation in a calibrated manner and transmits it to counter.

# Meters

Vermont P.D. meters are used for wide range of applications. From Truck mounted application to Refinery Terminals and refined Petroleum products to Industrial chemicals.

## Truck Meters

Vermont Taurus Series P.D. Meters which are available in (40mm/50mm) sizes are widely used as Truck Meter. These provide proven performance and have Weights & Measures approval. These could be provided with Mechanical or Digital readout with Printer facility



Meter with Batch Controller on LPG Truck

## Process Batching Meters

Vermont Meters are also widely used for industrial process batching Applications. This includes barrel filling, blending, batching of Various industrial liquids. Typical process Batching meter consists of P.D. flow meter with preset Register and Mechanical Shut off valve. P.D. Meters can also be offered in Electronic configuration, with pulse output and batch controllers Configured with Digital Control Valve.



Meter with Digital Display



Preset Metering Package



Meter on Refueller or Bowser

Size	Flow Range upto (LPM)	Material of Construction	Working Pressure (PSI)
1 1/2"	70 / 250	Alum. Alloy / Cast Steel / SS	150
2"	250 / 550	Alum. Alloy / Cast Steel / SS	150 / 300
3"	1200 / 1500	Alum. Alloy / Cast Steel / SS	150 / 300
4"	2200 / 2400	Alum. Alloy / Cast Steel / SS	150 / 300
6"	3000 / 3800	Alum. Alloy / Cast Steel / SS	150 / 300
8"	5500 / 6000	Alum. Alloy / Cast Steel / SS	150 / 300

- Single and Double case options
- Optional High temperature configuration
- Different flange orientations
- Suitable different viscosity ranges



## Loading Terminal Meters

The larger sizes (3" & above) TL and Taurus series meters are ideal for load rack, rail wagon, barges applications and more. These meters are available in Single Case as well as Double Case construction, to suit wide range of applications and flow capacities. They provide unmatched accuracy and trouble free operation over long period of use.

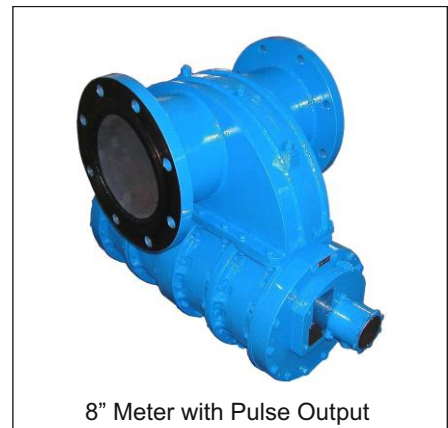
Meters can be fitted with mechanical Veeder Root products or with Electronic Batch Controllers and Digital Control Valve.



3" Double Case Meter with Pulse Output



3" Mechanical Preset Package



8" Meter with Pulse Output



Electronic Batch Controller in Oil Terminal Loading Application



Master Meter Calibration Skid

## Metering Skids

Vermont can offer custom built metering skids. Metering skids can be designed with PD/Mass /Turbine Meters as per various International Standards. From design, engineering, manufacture, fabrication, to testing and calibration. The skid systems are designed to suit customer requirements, which may accomodate all necessary equipments including strainers, air eliminators, pumps, valves and flow computers etc. The skid is cabled, assembled and tested in the factory and then delivered to the destination.



### Strainer and Air Eliminator (SAE)

Vermont can offer the combination of Line Strainer cum Air Eliminator. It ensures removal of solid impurities, air or vapour from the liquids before they enter the meter. Vermont offers 1 ½" to 24" size SAE designed in accordance



### Bulk Air Eliminators (Air Separators)

The Vermont Bulk Air Eliminators (BAE) separate and release air or gas from petroleum or other liquids from the pipeline. BAE's are designed and offered to suit number of applications such as Marine fuel bunkering, cross country pipelines, Oil Terminals and Depots. Typically BAE's, form sizes 6" onwards upto 24", handling host of different products.



### Digital Control Valves

Vermont Digital Control Valve is designed to provide precise Flowrate control and preset batch when used with Batch Controller. Vermont offers two types of Valve - Diaphragm and Piston. These valves are provided with host of accesories like built in strainer, needle valve, locking device, stem switch. These valves offer an in-built flow governing function.



### Batch Controller (BCU)

Vermont BCU for loading provides Custody Transfer loading control. It can operate in 'Manual' or 'Auto' mode. It has been designed to perform various batch loading applications. It can be configured to single loading arm or dual control. It offers modular design and has provision made for additional expansion.

## Counters



Vermont can offer Veeder Root and Vermont Counters for volume indication, 5 digit large numerical reset with 8 digit non-reset totaliser. Liters, Dekaliters, Gallons indication. Apart from Counter, Vermont offers, Veeder Root and Vermont Registers for pre-determined volume of precise batch control or Veeder Root EMR3 Electronic display counter with remote indication, 4-20 mA output, data logging facility. Ticket Printers, provide an imprinted ticket for delivery transaction. Accumulative or Zero start options available.



## Proving Skids and Systems

The tank Prover systems are designed and manufactured in accordance with Legal Metrology regulations. These provers can be Static or Trolley mounted, available in different capacities. Proving Skids are also designed as per customer's specific requirements, which may include flow computer, prover tanks, pump & motor, set of valves, master meter and other equipments.



### Vermont Flow Metering Solutions for you

Come to a company, you can trust and experience the VERMONT difference.

To find out more about what we can do for you, visit our website [www.vermonttechnologies.co.in](http://www.vermonttechnologies.co.in)

For Flow Solution details, write to:

***ho@vermonttechnologies.co.in***





- Specifications are subject to change without notice.
- All dimensions are in mm unless otherwise specified.

Pub. No. 002  
Issue 2 Rev 6 01-2019



## ***Vermont Technologies Pvt. Ltd.***

Corporate Office & Operations:

Plot No: PAP- A-8/6, "A" Block, Phase IV, MIDC Chakan,  
Opp Mahindra Vehicle, Dist:Pune- 410501

Tel. : +91 9168179461 / 9168176683

Email : [ho@vermonttechnologies.co.in](mailto:ho@vermonttechnologies.co.in)

Website : [www.vermonttechnologies.co.in](http://www.vermonttechnologies.co.in)