

# Flow

## Optima Series – Oval Gear Flow Meter



### Optima Flow Assist System specially designed for Distilleries.

- Optima - Flow Assist System is a product for direct measurement of volume of industrial liquids. The measuring element consists of two toothed highly precise cut oval wheels, which are driven by the liquid and roll off each other; hence resulting in very accurate totalizer readings in the field.
- The Optima system assures a high degree of accuracy, quality, and performance.
- This system is approved by Petroleum Explosives Safety Organization (PESO) and Legal Metrology Weights & Measure (W&M).

### SALIENT FEATURES

- Compatible Liquids: Ethanol, Rectified Spirits (RS), Extra Neutral Alcohol (ENA) and several other petrochemicals.

*Please reach out to Vermont to check compatibility with any other additional service liquids/ chemicals.*

- Nominal Sizes (mm): 50/ 80/ 100/ 150
- Operating Temperature: -10° C to +60° C
- Accuracy: +/-0.1%
- Repeatability: 0.05%
- Easy to Install
- Pressure Rating: 150# Class
- M.O.C: Aluminum Alloy/  
Gray Cast Iron/ Cast Steel
- Flowrate upto 190 m<sup>3</sup>/hr



**Optima Oval Gear Insight**

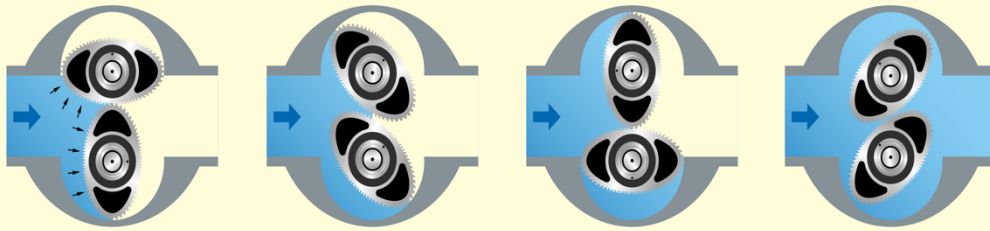
### ACCESSORIES

- Strainers
- Air Eliminators
- Pulse Transmitter & Batch Controller
- Digital Control Valves
- Control Room hook up kits
- Printers
- Nozzles/ Hoses/ Loading Arm
- Loading Spouts

### APPLICATIONS

- Tank Truck Loading
- Unloading
- Barrel Filling
- Internal production with custody transfer applications

## Principle of Operation



2D Schematic showcasing Optima Oval Wheel Gear PD meter

### SMART SERIES

- Custom designed to enable a more sophisticated process integration with multiple communication interfaces.
- In addition to local readout, Vermont Smart Series Optima Flow Assist System can provide a direct communication link with PLC systems.
- All variables and parameters such as batch, flowrate, temperature, meter factor, diagnostics and others programmed into the Smart Series system and made available on PC or control room instrumentation platforms.



Optima Oval Gear Schematic

• Specifications are subject to change without notice.

## 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 / +91 9168176683

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

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

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