Flow

VERMONT

P. D. Flow Meter

Taurus Series P. D. Flowmeter

The Taurus series Positive Displacement
Flowmeters are an efficient and highly accurate
positive displacement flow meter. Proven design of
Tri- rotor ensures minimal wear and longer service
life.

The unique design of no metal to metal contact maintains a thin layer of capillary seal which results in high accuracy and sustained repeatability. This innovative design offers low pressure drop across metering loop and thus ensures low pumping cost.

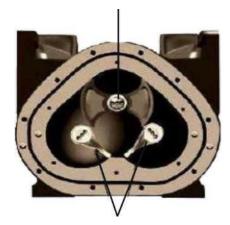
DESIGN FEATURES

- High Accuracy
- Lack of internal friction (No metal to metal contact)
- · Bi-directional liquid flow
- · Suitable for wide range of liquids
- Meets world wide Metrological Standards
- · Long service life





Blocking Rotor



Displacement Rotor

PRINCIPLE OF OPERATION

The Taurus series P. D. flowmeters have a simple and robust design. 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 to a counter.

SPECIFICATIONS

Type : Positive Displacement

(PD) Tri-rotor

Size : Upto 6"

Flow Range : Upto 3000 LPM

Standard Unit : Liters, (Gallons Optional)

Repeatability : 0.02 %

Working Temperature : -30°C to +70°C (Or to be

specified)

Connections : Flanged ANSI (or as

specified)

Pressure : 10.5 BAR (150 PSI) (Higher

Pressure build optional)

MATERIALS OF CONSTRUCTION

Housing: Aluminum Alloy / SS 316

Rotors :AluminumAlloy / SS316 Bearings: Carbon / PTFE / PB

Rubber Parts: Buna-N (Nitrile) / Viton/ PTFE

Counter Options

- Vermont Mechanical Counter (V01) & Register (V02)
- · Electronic Digital Readout
- Veeder Root Counters / Mechanical &

Electromechanical

APPLICATIONS

Truck Mounted Metering

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

Terminal/Depot Metering

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

Industrial Process Metering

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

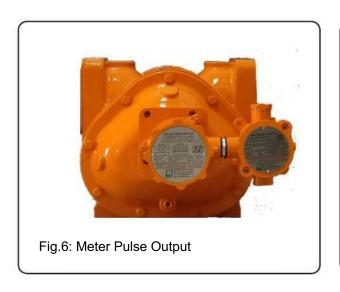
Others

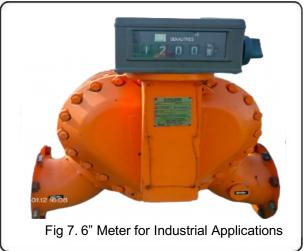
- · Ship Bunkering and Barge Loading
- Rail Wagon Loading
- Railway Consumer Depot (RCD)











Model Configuration: Taurus Series P. D. Flowmeters

Model Designation	Size" (mm)	Flow Range (LPM)
T-550 (1)	1 ¹ / ₂ " (40 mm)	Upto 250
T-550 (2)	2" (50 mm)	Upto 360
T-550 (3)	2" (50 mm)	Upto 550
T-1200	3" (80 mm)	Upto 1200
T-2000	4" (100 mm)	Upto 2000
T-3000	6" (150 mm)	Upto 3000

For ATF applications: 30% Higher capacity rating*

- · Higher Pressure options are available
- Read out in Liters, Kilo Liters, Gallons or Barrels
- Mechanical and Digital readout
- Complete package of accessories: Strainers, Control Valves, Air separators, Large Display
- Approvals by PESO & Legal Metrology (Weights & Measures)
- Skid options available

Meter Accessories

A. Counters

Veeder Root 7887 or Vermont V01 for volume indication, 5 digit large numerical reset with 8 digit non-reset totaliser. Litres, Dekalitres, Gallons indication.



C. Strainer and Air Eliminator

For efficient operation of meter, removes free air or vapour and provides protection from debris entering into flowmeter.



Air Separator

Air separator efficiently separates and releases air or gas from liquid products before they are metered.



Veeder Root 7889 or Vermont V02 Preset Counter selects predetermined volume for precise batch control.



D. Mechanical Preset Valve

Preset valves provide an accurate and automatic control of a predetermined quantity of liquid to be delivered through the P. D. flowmeter. A typical preset arrangement consists of a Preset Valve mounted on the P. D. flowmeter outlet and connected by a mechanical linkage to the preset register fitted below the P. D. flowmeter counter.



Veeder Root EMR4 Electronic display counter with remote indication, 4-20 mAoutput, data logging facility.



Veeder Root Ticket Printer 7888 provides an imprinted ticket for delivery transaction. Accumulative or Zero start options available.



Electronic Registration Ex proof as well as Panel mounted WP options to perform multiple functions and pulse output, Electrically actuated, hydra



Electrically actuated, hydraulically operated multifunction control valve. The valve also offers an inbuilt flow governing function. Dual stage valve also available.





B. Pulse Transmitter

RS232/485 communication.

The electronic pulse signal output, to transmit to other flow control ordata acquisition.



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