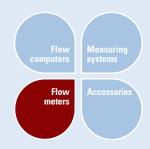


Positive Displacement Meter

ZC 17

The SATAM Positive Displacement Meter (PD meter) is a system with freely-moving blades used to measure petroleum products such as fuels, bio-fuels and refined liquid hydrocarbons and non corrosive chemicals.

Its simple design with only two pairs of blades and one moving rotor makes it exceptionally robust and allows the user to make significant savings on maintenance costs.



Sectors of application

Oil depots For oil product reception and loading stations for tank truck, tank car and ships.

Hydrocarbon transportation Distribution of fuel oil or fuel by road tanker.

Aircraft refuelling Aircraft dispensers and aircraft fuelling tankers.

Army Depot supplies and loading of trucks.

Transport companies Refuelling of locomotives, trucks and public transport coaches.

Marine applications Refuelling of ships.

Mining sites Refuelling of trucks or site machinery.

Operating principle

The product enters the measuring chamber following the direction of the arrow. The rotor and blades assembly (1-2) is set in motion by the pressure of the liquid on blades. A certain amount of liquid (3) is held between 2 blades and then directed to the discharge manifold. The volume of liquid measured at each rotation is therefore equal to 4 times the measured quantity (3). The smooth curves the meter pieces provide a steady, non-fluctuating flow resulting in low head loss.

Key points

Reduced pressure loss 0.3 to 0.5 bar at maximum flow rate.

Low maintenance costs Simple and robust design with mechanical components interchangeable between the different models.

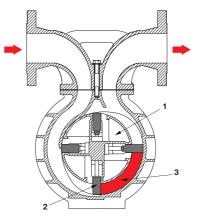
Stability of measurements Accuracy of measurement guaranteed over a period of many years without any drift in the calibration curve.

Modular design Wide range of accessories for performing customized measurement applications.

Robust construction

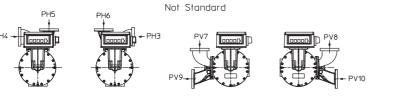
Flowmeter manifold is separated from measurement chamber to eliminate any possible influence of external mechanical stresses on measurement accuracy.

Few moving parts.



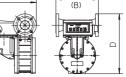
Technical data - PD meter ZC 17

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ZC 17- 80, 150, 250 & 330

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