

PETRO INDUSTRIAL



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TOTAL
CONTROL
SYSTEMS

TCS 682 METER SERIES

The 682 series piston flow meter is a true positive displacement flow meter that has an inline design consisting of three (3) reciprocating pistons operating within their respective measuring chambers, where each piston works in a manner similar to an automobile engine.

The pistons are fitted to a wobble plate, which has a shaft extending from its upper surface and a valve pivot attached beneath it. The valve pivot drives a sliding valve from piston to piston as a known amount of product flows through each cylinder bore, controlling the sequence of events in a smooth mechanical motion.

SPECIFICATIONS:

Design: reciprocating three (3) piston.

Size: 40nb (1 1/2") flange connection.

Type: SP, SPA, SPD, AF and SS.

Flow range: 0.2 to 50 GPM (0.76 to 190 LPM).

Linear accuracy capable of: +/- 0.1% over flow range.

Repeatability: 0.01% over 250:1 turndown.

Pressure: 150 PSI (10.5 BAR).

Temperature: - 40 to 160°F (- 40 to 71°C).

Material: Aluminum, Ductile iron and Stainless Steel.

Seals: Viton®, Teflon® and Simriz®.

FEATURES:

- Superior accuracy over the entire flow range.
- Low maintenance.
- Long service life.
- 75 years of proven performance and acceptance.
- Wide viscosity range - up to 50,000 SSU (11,000 CPS).
- Meets NIST, NMI, OIML, SABS and many other international weights and measures certifications.
- Industry leading 10 year warranty.

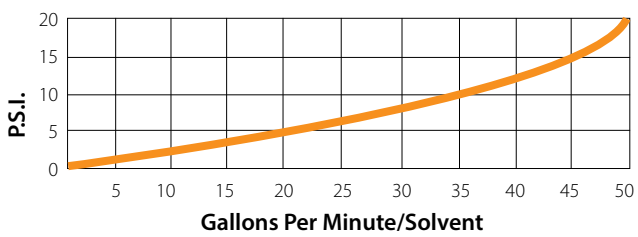


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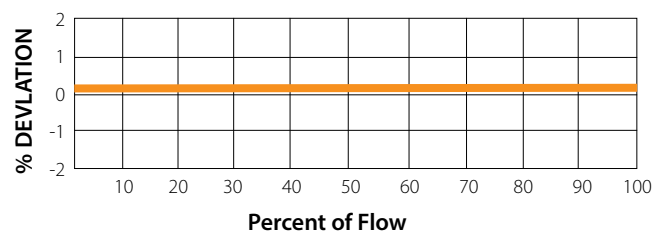


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Pressure Drop Curve



Typical Accuracy Curve



METER TYPES & FLUIDS COMPATIBILITY:

- SP = Standard Petroleum:** Gasoline, Fuel Oils, Diesel, Bio-Diesel, Kerosene, Vegetable oils, Motor Oils, Ethylene Glycol, Naptha etc.
- SPA = Standard Petroleum - Aviation:** Aviation Gasoline, Gasoline, Jet Fuels, Fuel Oils, Diesel, Bio-Diesel, Kerosene, Naptha, etc.
- SPD = Standard Petroleum - Ductile (Nodular) Iron:** Ethanol, Methanol, Aviation Gasoline, Gasoline, Diesel, Bio-Diesel, Fuel Oils, Kerosene, Vegetable Oils, Motor Oils, Naptha, etc.
- AF = All Ferrous:** Industrial Chemicals, Solvents, Pesticides, Nitrogen Solutions, Fertilizer, Chlorinated Solvents, Paints, Inks, Alcohols, Adhesives, Molasses, Corn Syrup etc.
- SS = Stainless Steel:** Industrial Chemicals, Solvents, Nitric Acid, Phosphorus Acid, Glacial Acetic Acid, Anti-Icing Fluid, Vinegar, Fruit Juices, etc.

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