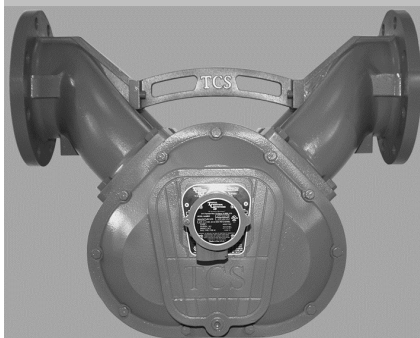


SPECIFICATIONS

700-60 Flow Meter

**TOTAL
CONTROL
SYSTEMS**



Total Control Systems rotary positive displacement flow meters offer reliable and precise measurement solutions for Bunker Deliveries, Hydrant Servicers, Into-Plane Refuellers, Bulk Terminals, Transloading and many other custody transfer liquids on vehicle or wholesale measurement applications.

METER TYPE — SPA Std Petroleum (Aviation)

For metering refined petroleum products; such as Aviation Gasoline, Jet Fuels, Gasoline, Diesel, Bio-Diesel, Fuel Oils, Naptha, Kerosene, etc

DESIGN

The 700-60 flow meter has a simple and efficient meter design consisting of a housing and three rotors that rotate in unison within the two measuring chambers manifolded together. The absence of wear, from no metal-to-metal contact inside the chamber, eliminates any deterioration in accuracy and provides a long service life. The rotors are supported by bearings inserted into two bearing plates, where at the end of each rotor shaft is a timing gear. The timed rotation between each rotor is then transferred through the calibration adjuster to the register, which will then give a consistent and superior measurement of accuracy.



FLOW ILLUSTRATION

PERFORMANCE FEATURES

LOW PRESSURE DROP: will operate on gravity flow or pump pressure

SUSTAINED ACCURACY: no metal-to-metal contact inside the measuring chamber means minimal wear and deterioration in accuracy over time, fewer recalibrations and longer service life.

LINEARITY:

5:1 Turndown - capable of $\pm 0.100\%$ of maximum nominal flow rate
10:1 Turndown - capable of $\pm 0.125\%$ of maximum nominal flow rate

REPEATABILITY: capable of 0.02% over the entire range of flow

Data provided from test conditions where all system variables were constant. The results are based on the 700 series (SPA) flow meter and Veeder Root mechanical registration, using 32 SSU testing fluid..

REGULATORY: NIST, OIML, NMI, USA military and other international weights and measures approved.

OPERATING SPECIFICATIONS

DESIGN TYPE: Positive Displacement Rotary Abutment

FLOW CAPACITY: 80 GPM to 800GPM
303 LPM to 3028 LPM

VISCOSITY: Up to 225 SSU (44 CPS)

PRESSURE RATING: 150 PSI (10.5 BAR)
Optional: 275 PSI (19 BAR)

TEMPERATURE RATING: -40°F to 160°F
-40°C to 71°C

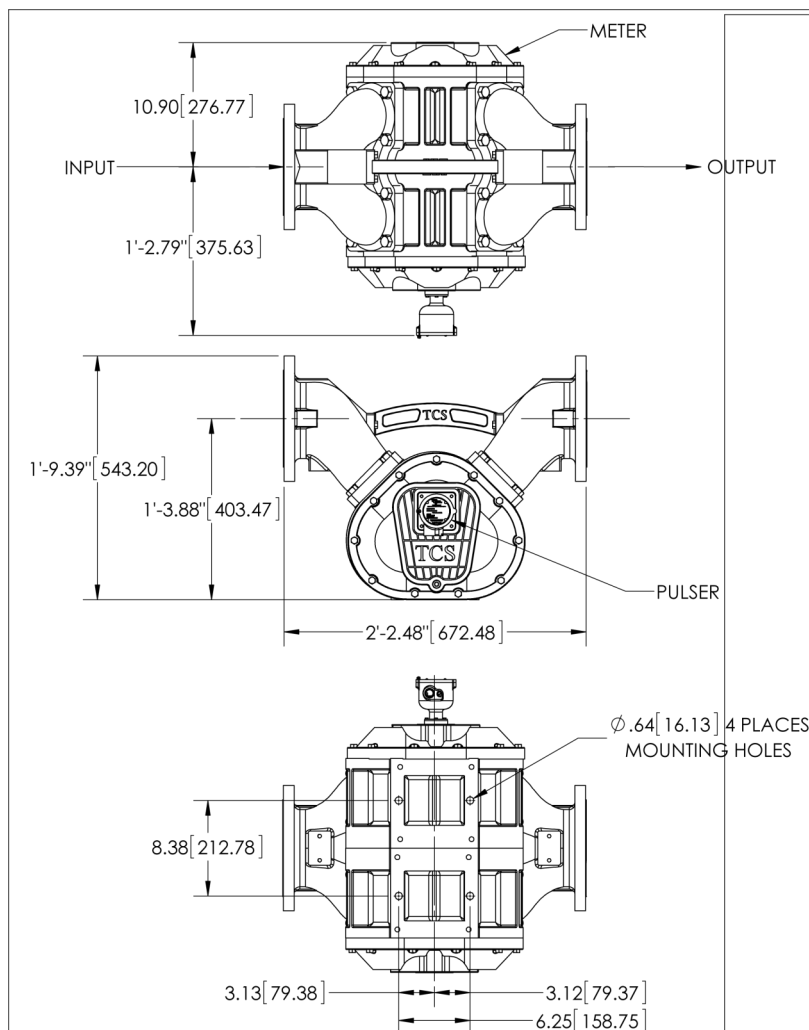
CONNECTIONS: 6"; Raised Face ANSI

MATERIALS OF CONSTRUCTION

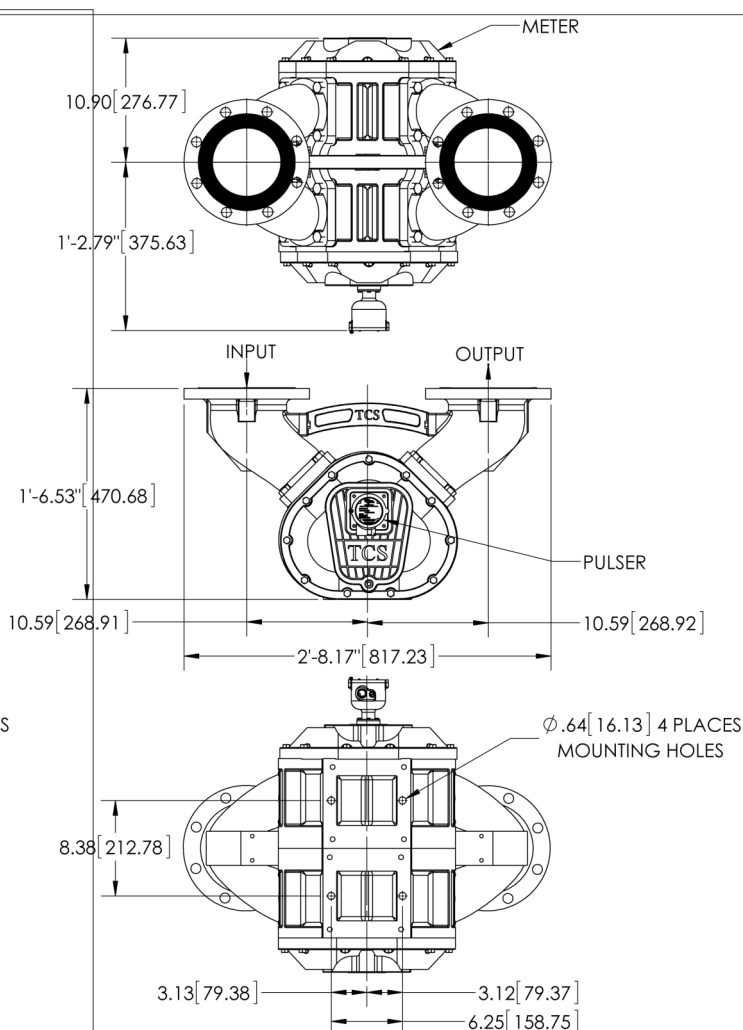
Meter Type	Housing & Manifold	Rotors	Bearing Plates	Bearing Sleeves	Journals	Timing Gears	Internal Hardware	Seals
SPA	Anodized Aluminum	Anodized Aluminum	Ni-Resist	Carbon Graphite	Hardchrome Stainless Steel	Stainless Steel	Stainless Steel	FKM

700-60 DIMENSIONS IN INCHES (MILLIMETERS)

INLINE MANIFOLD FLANGE CONNECTIONS



UPRIGHT MANIFOLD FLANGE CONNECTIONS



700-60 NET WEIGHTS IN POUNDS (KILOGRAMS)

Meter Type	Flow Meter	Register Counter	Preset Counter	Ticket Printer	Air Eliminator/Strainer	Electronic Air Eliminator/Strainer	Strainer	Electronic Valve
SPA	225 (102)	12 (5.4)	10 (4.5)	12 (5.4)	TBD	TBD	TBD	Consult Factory

WARRANTY

Total Control Systems 700 rotary meters and accessory components sold to the original purchaser for a period of TWELVE (12) months from installation or EIGHTEEN (18) months from the date of shipment, to be free, under normal use and service, from defects in material and workmanship. If a warranty dispute occurs the DISTRIBUTOR may be required to provide proof of date of sale. Defects occurring within the stated warranty period, will be repaired or replaced, at TCS's option; provided that part or parts are returned to TCS transportation charges prepaid, and TCS's examination discloses the parts or workmanship to have been defective upon delivery to the purchaser. All repaired or warranted meters will be shipped Ex-works Fort Wayne, Indiana. Total Control Systems shall not be liable for consequential damages, whether or not arising out of warranty, negligence or otherwise.

NOTE: The above warranty applies only to Total Control Systems, Fort Wayne, Indiana manufactured products. Private label and OEM engineered products are specifically excluded from the above warranty. Consult factory for non-TCS manufacturer's warranty.

PAMS

Petroleum, Aviation & Mining Supplies

Carondun Pty Ltd trading as Petroleum, Aviation & Mining Supplies (P.A.M.S.)

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