



**TS20A, 2" Anodized Aluminum**

Representative assemblies:



**TS20A V\_\_**

*With mechanical register, might include ticket printer, and/or 2-stg preset with valve & linkage.*



**TS20A E\_\_**

*Gland-less flow meter, with an electronic register mounted on right-angle adaptor.*



**TS20A F\_\_**

*Gland-less flow meter, with ELNC electronic register on bracket mounted on meter case*



**TS20A S\_\_**

*Gland-less flow sensor, opt. with signal conditioner or small totalizer mounted on pulser*

All meter assemblies can include optional strainer, air eliminator and/or control valves.

**Specifications**

● **Nominal Capacity**

**GPM** : 10-150, to 120 F & to 300 cP viscosity

**LPM** : 38-570, to 50 C & to 300 cP viscosity

**M<sup>3</sup>/H** : 1.5-23, to 50 C & to 300 cP viscosity

● **Pressure Rating**

**V assy** : 150 PSI @ 100 F (10 BAR @ 40 C)

**E, F & S** : 400 PSI @ 100 F (28 BAR @ 40 C), meter only.

● **Temperature Rating**

**V assy** : 180 F (80 C)

**E & F** : See temperature limit for electronic register

**S assy** : 300 F (150 C) without signal conditioner/ totalizer

● **Viscosity**

Full nominal capacity to 1,500 SSU (300cP) viscosity, at reduced flow rates to 1,500,000 SSU (350,000 cP) with high viscosity rotors.

● **Connections**

Bolted companion flanges with 2" NPT or BSP port, ANSI flange adaptors are optional.

● **Materials**

**Case** : Anodized aluminum

**Gears** : Ryton (PPS) with carbon bearings  
(gears with Teflon bearings optional).

**Posts** : 303SS Hard Chrome Coated

**Seals** : Viton (Teflon optional)

● **Pulsers**

**V assy** : Optional Reed Switch or Solid State pulser on register.

**E, F & S** : Hall Effect with registers using external power.  
: Reed Switch with battery powered registers.

● **Meter Performance**

**Linearity**

Over 5:1 turn-down from max. capacity +/- 0.175%

Over 15:1 turn-down from max. capacity +/- 0.25%

Over 30:1 turn-down from max. capacity +/- 0.5%

**Repeatability 0.05% (at constant rate)**

● **Pulse resolution**

**V assy** : None (1, 10 or 100 PPU if pulser is added)

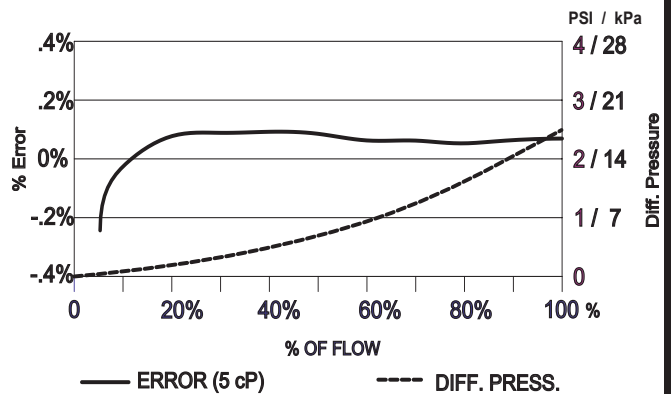
**E, F & S** : +/- 75 PPG (+/- 26.7 ppl)

● **Calibration**

**V assy** : 1/10 gallon, gallon, lbs, liter or kg

**E, F & S** : Any unit of mass or volume.

**Delta P & Accuracy Curves**



● **Signal Conditioners**

PIA Pulse Isolator, Amplifier & Splitter

PAC Pulse to Analog Converter

SCL Scaler, Calibrator & Linearizer

● **Registration Options**

**Mechanical (V-- Assembly No.)**

Register (5 digit reset, 8 digit totalizer)

2-Stage preset counter, optional pump control

Ticket Printer, Zero Start or Accumulative type

**Electronic (E, F or S-- Assembly No.)**

Totalizer, Register or Batch Controller

Optional currency function

Optional temperature/volume compensation

Battery powered, DC or AC powered

In NEMA 4X, IS or NEMA 7/4 enclosure

Mounted on the flow meter or remote

Pulse, Analog or Serial Port communications

● **Accessories**

Inlet strainer for meter protection

Air Eliminator

Air Check Valve for tank truck service

Solenoid control valves, pneumatic operator

Solenoid control valves, electric operator

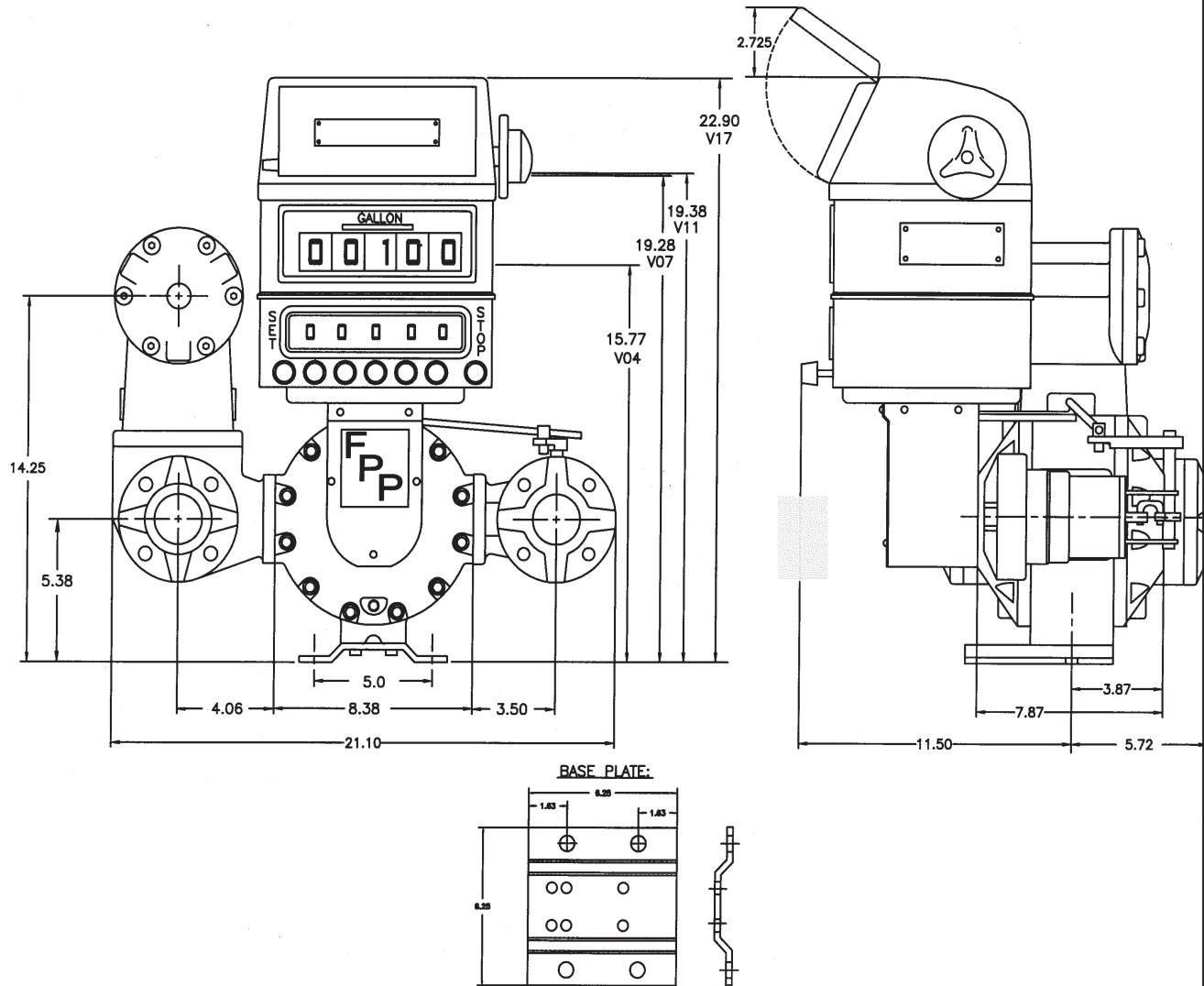
● **Approvals**

US, Canada, and Australian Weights & Measures

**TS2HA, 2" Anodized Aluminum Dimensional Drawings**

\*All Dimensions are in inches

\*Not for piping purposes



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