



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

M³/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)

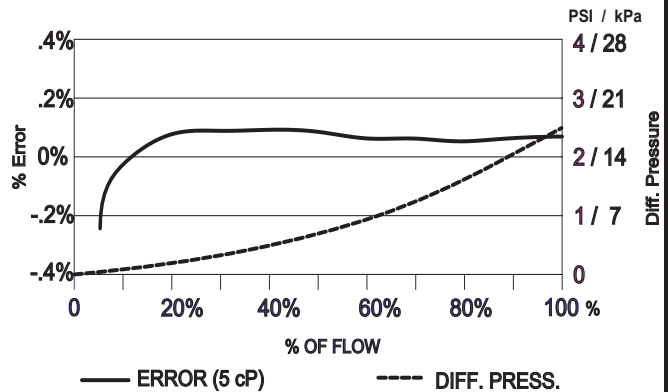
E, F & S : +/- 75 PPG (+/- 26.7 ppl)

● **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

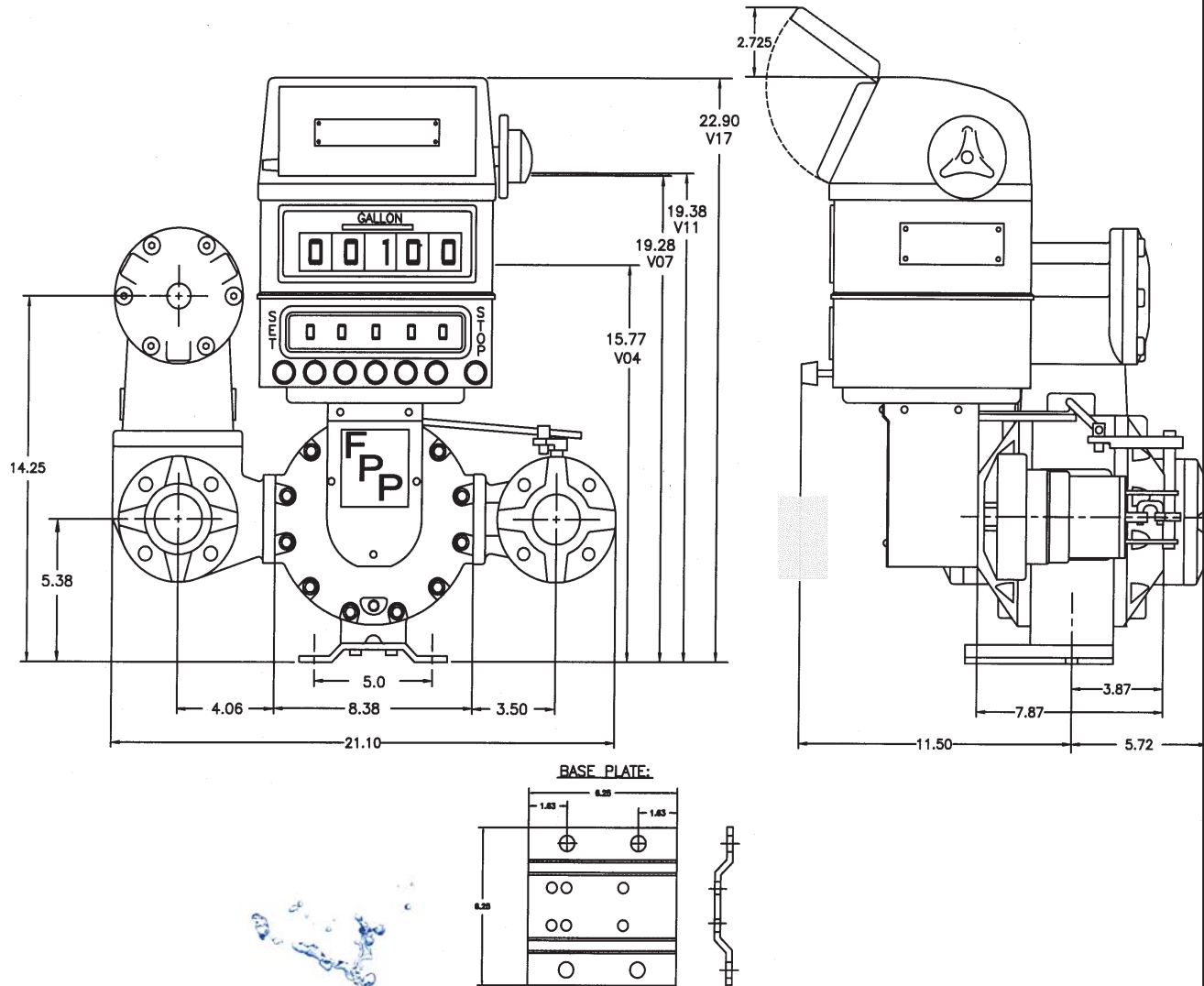
● **Approvals**

US, Canada, and Australian Weights & Measures

TS2HA, 2" Anodized Aluminum Dimensional Drawings

*All Dimensions are in inches

*Not for piping purposes



BELL
Flow Systems



TUTHILL
Transfer Systems

Bell Flow Systems Ltd

7 Swan Business Centre - Osier Way
Buckingham - England - MK18 1TB

☎: +44 (0)1280 817304

☎: +44 (0)1280 817185

✉: sales@bellflowsystems.co.uk

🌐 www.bellflowsystems.co.uk