

TS20A, 2" Anodized Aluminum Flow Meters



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)

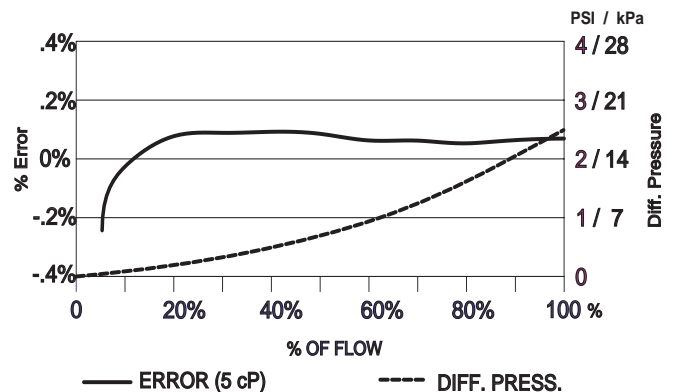
E, F & S : +/- 75 PPG (+/- 26.7 ppl)

● 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

