

FPP Industrial Meters 1" Aluminum, Oval Gear Meter Model TS10A

FPP Meters' versatile STEALTH Series is available in a variety of configurations including mechanical registration, electronic registration or non-factored pulse output flow sensors. With only two moving parts and exceptional pressure loss characteristics, STEALTH represents the ideal platform for year 2000 metering systems.



TS10AC0E Representative Model

Specifications

- Flow Rate 4-40 GPM, viscosities to 300 CST 15-150 LPM, viscosities to 300 CST
- Pressure
 150 PSI @ 100°F (10 Bar @ 40°C)
 400 PSI @ 100°F (28 Bar @ 40°C) Meter only

• Temperature 300°F (149°C) RSFS only 212%E (100%C) mechanica

212°F (100°C) mechanical registers 185°F (85°C) HEFS only Other limits may apply to electronic devices

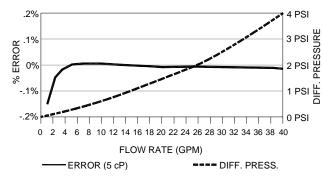
• Viscosity Full nominal flow rate to 300 CST Up to 350,000 CST with special gears

- Connections
 1" NPT or BSP
 Optional: ANSI flange adaptors
- Materials
 Case: Anodized Aluminum
 Oval gears: Ryton® (PPS)
 Posts: 17-4 PH Stainless Steel
 Seals: Viton™ (Teflon™ optional)

Industrial Performance

- Linearity +/- 0.25% @ 1 CST
 Repeatability
- +/- 0.1%
- Resolution
 Flow Sensor: 67 PPG
 Optional: 135 PPG
- Calibration
 Mechanical: 1/10 gallon, lbs., liter & kg
 Electronic: Any unit of mass or volume

Delta P & Accuracy Curves



Registration Options

- Mechanical register: 4, 5 or 6 digit
- Mechanical register/printer, register/preset, or register/preset/printer combination
- Battery-powered electronic totalizer or register
- Electronic AC batch controllers, flow computers, and temperature compensation
- NEMA 4X & NEMA 7/4 enclosures

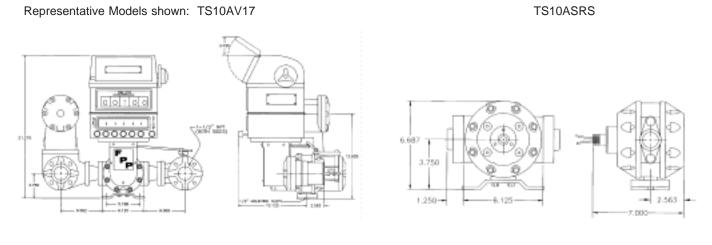
Accessories

- Inlet strainer for meter protection
- · Air eliminator on inlet strainer
- Air check valve with air eliminator
- Mechanical preset (shut-off) valve
- Electric or pneumatic preset valve
- Pulse output, analog signal & serial port
- Pulse Isolator/Amplifier/Splitter
- Pump control signal

Note: Recommended protection

Inlet strainer, depending upon viscosity, with 20, 40 or 80 mesh basket





Warranty.

Tuthill Transfer Systems ("Manufacturer") warrants to each buyer of its FPP Meters products (the "Buyer") for a period of 12 months from date of invoice or sales receipt, but in no event more than 18 months from date of manufacture, that goods of its manufacture ("Goods") will be free from defects of material and workmanship. Manufacturer's sole obligation under the foregoing warranties will be limited to either, at Manufacturers' option, replacing or repairing defective Goods (subject to limitations hereinafter provided) or refunding the purchase price for such Goods theretofore paid by the Buyer, and Buyer's exclusive remedy for breach of any such warranties will be enforcement of such obligations of Manufacturer. If Manufacturer so requests the return of the Goods, the Goods will be redelivered to Manufacturer in accordance with Manufacturer's instructions F.O.B. Factory. The remedies contained herein shall constitute the sole recourse of the Buyer against Manufacturer for breach of warranty. IN NO EVENT SHALL MANUFACTURER'S LIABILITY ON ANY CLAIM FOR DAMAGES ARISING OUT OF THE MANUFACTURE, SALE, DELIVERY OR USE OF THE GOODS EXCEED THE PURCHASE PRICE OF THE GOODS. The foregoing warranties will not extend to Goods subjected to misuse, neglect, accident or improper installation or maintenance, or which have been altered or repaired by anyone other than Manufacturer or its authorized representative. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR PURPOSE OF ANY OTHER TYPE, WHETHER EXPRESS OR IMPLIED. No person may vary the foregoing warranties and remedies except in writing signed by a duly authorized officer of Manufacturer. Warranties or remedies that differ from the foregoing shall not otherwise be binding on Manufacturer. The Buyer's acceptance of delivery of the Goods constitutes acceptance of the foregoing warranties and remedies, and all conditions and limitations thereof.



48513 Highway 51 North P.O. Box 400 Tickfaw, Louisiana USA 70466 Tel 504 542-5200 Fax 504 542-7394



FPP Industrial Meters 1" Stainless Steel, Oval Gear Meter Model TS10C

FPP Meters' versatile STEALTH Series is available in a variety of configurations including electronic registration or non-factored pulse output flow sensors. With only two moving parts and exceptional pressure loss characteristics, STEALTH represents the ideal platform for year 2000 metering systems.



TS10CSRS Representative Model

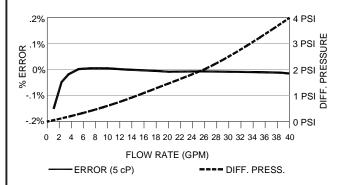
Specifications

- Flow Rate 4-40 GPM, viscosities to 300 CST 15-150 LPM, viscosities to 300 CST
- Pressure 150 PSI @ 100°F (10 Bar @ 40°C)
- Temperature 185°F (85°C) RSFS only Other limits may apply to electronic devices
- Viscosity Full nominal flow rate to 300 CST Up to 350,000 CST with special gears
- Connections 1" NPT or BSP Optional: ANSI flange adaptors
- Materials
 Case: 303 Stainless Steel
 Oval gears: Ryton® (PPS)
 Posts: 17-4 PH Stainless Steel
 Seals: Teflon™

Industrial Performance

- Linearity +/- 0.25% @ 1 CST
 Repeatability
- +/- 0.1% • Resolution Flow Sensor: 67 PPG Optional: 135 PPG
- Calibration Electronic: Any unit of mass or volume

Delta P & Accuracy Curves



Registration Options

- Battery-powered totalizer or registers
- Communication ports, pump controls
- · Unscaled pulse output
- Electronic totalizers/ratemeters
- Electronic batch controllers
- Electronic flow computers
- Electronic mass flow computers
- NEMA 4X & NEMA 7/4 enclosures

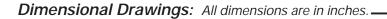
Accessories

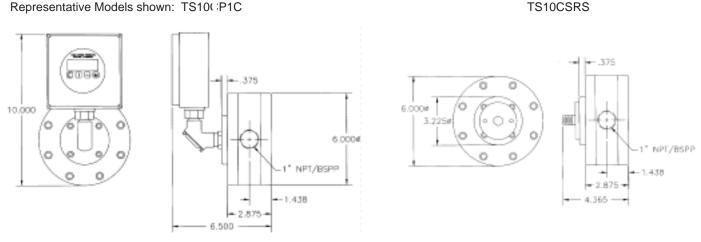
- Pulse amplifiers
- Analog coverters

Note: Recommended protection

Inlet strainer, depending upon viscosity, with 80, 100 or 250 mesh basket







Warranty.

Tuthill Transfer Systems ("Manufacturer") warrants to each buyer of its FPP Meters products (the "Buyer") for a period of 12 months from date of invoice or sales receipt, but in no event more than 18 months from date of manufacture, that goods of its manufacture ("Goods") will be free from defects of material and workmanship. Manufacturer's sole obligation under the foregoing warranties will be limited to either, at Manufacturers' option, replacing or repairing defective Goods (subject to limitations hereinafter provided) or refunding the purchase price for such Goods theretofore paid by the Buyer, and Buyer's exclusive remedy for breach of any such warranties will be enforcement of such obligations of Manufacturer. If Manufacturer so requests the return of the Goods, the Goods will be redelivered to Manufacturer in accordance with Manufacturer's instructions F.O.B. Factory. The remedies contained herein shall constitute the sole recourse of the Buyer against Manufacturer for breach of warranty. IN NO EVENT SHALL MANUFACTURER'S LIABILITY ON ANY CLAIM FOR DAMAGES ARISING OUT OF THE MANUFACTURE, SALE, DELIVERY OR USE OF THE GOODS EXCEED THE PURCHASE PRICE OF THE GOODS. The foregoing warranties will not extend to Goods subjected to misuse, neglect, accident or improper installation or maintenance, or which have been altered or repaired by anyone other than Manufacturer or its authorized representative. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR PURPOSE OF ANY OTHER TYPE, WHETHER EXPRESS OR IMPLIED. No person may vary the foregoing warranties and remedies except in writing signed by a duly authorized officer of Manufacturer. Warranties or remedies that differ from the foregoing shall not otherwise be binding on Manufacturer. The Buyer's acceptance of delivery of the Goods constitutes acceptance of the foregoing warranties and remedies, and all conditions and limitations thereof.



48513 Highway 51 North P.O. Box 400 Tickfaw, Louisiana USA 70466 Tel 504 542-5200 Fax 504 542-7394

FPP Industrial Meters 1 ¹/₂" Aluminum, Oval Gear Meter Model TS15A

FPP Meters' versatile STEALTH Series is available in a variety of configurations including mechanical registration, electronic registration or non-factored pulse output flow sensors. With only two moving parts and exceptional pressure loss characteristics, STEALTH represents the ideal platform for year 2000 metering systems.



TS15AV06 Representative Model

Specifications

- Flow Rate 6-60 GPM, viscosities to 300 CST 23-230 LPM, viscosities to 300 CST
- Pressure
 150 PSI @ 100°F (10 Bar @ 40°C)
 400 PSI @ 100°F (28 Bar @ 40°C) Meter only

• Temperature 300°F (149°C) RSFS only

200°F (100°C) mechanical registers 185°F (85°C) HEFS only Other limits may apply to electronic devices

• Viscosity Full nominal flow rate to 300 CST Up to 350,000 CST with special gears

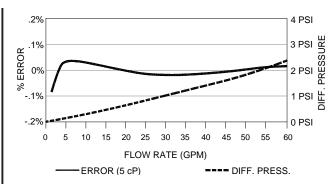
- Connections 1 ½" NPT or BSP Optional: 1 ½" ANSI flange adaptors
- Materials

Case: Anodized Aluminum Oval gears: Ryton® (PPS) Posts: 17-4 PH Stainless Steel Seals: Viton™ (Teflon™ optional)

Industrial Performance

- Linearity +/- 0.25% @ 1 CST
 Repeatability
- +/- 0.1%
- Resolution
 Flow Sensor: 34 PPG
 Optional: 67 PPG
- Calibration
 Mechanical: 1/10 gallon, lbs., liter & kg
 Electronic: Any unit of mass or volume

Delta P & Accuracy Curves



Registration Options

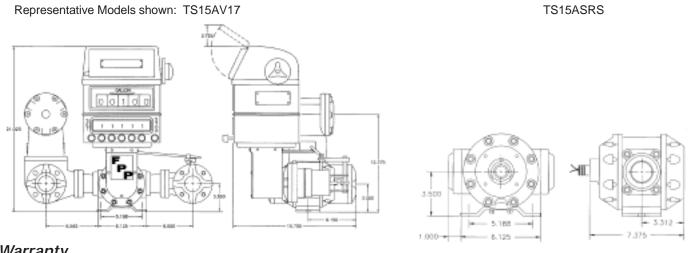
- Mechanical register: 4, 5 or 6 digit
- Mechanical register/printer, register/preset, or register/preset/printer combination
- Battery-powered electronic totalizer or register
- Electronic AC batch controllers, flow computers, and temperature compensation
- NEMA 4X & NEMA 7/4 enclosures

Accessories

- Inlet strainer for meter protection
- Air eliminator on inlet strainer
- · Air check valve with air eliminator
- Mechanical preset (shut-off) valve
- Electric or pneumatic preset valve
- Pulse output, analog signal & serial port
- Pulse Isolator/Amplifier/Splitter
- Pump control signal

Note: Recommended protection

Inlet strainer, depending upon viscosity, with 20, 40 or 80 mesh basket



Warranty -

Tuthill Transfer Systems ("Manufacturer") warrants to each buyer of its FPP Meters products (the "Buyer") for a period of 12 months from date of invoice or sales receipt, but in no event more than 18 months from date of manufacture, that goods of its manufacture ("Goods") will be free from defects of material and workmanship. Manufacturer's sole obligation under the foregoing warranties will be limited to either, at Manufacturers' option, replacing or repairing defective Goods (subject to limitations hereinafter provided) or refunding the purchase price for such Goods theretofore paid by the Buyer, and Buyer's exclusive remedy for breach of any such warranties will be enforcement of such obligations of Manufacturer. If Manufacturer so requests the return of the Goods, the Goods will be redelivered to Manufacturer in accordance with Manufacturer's instructions F.O.B. Factory. The remedies contained herein shall constitute the sole recourse of the Buyer against Manufacturer for breach of warranty. IN NO EVENT SHALL MANUFACTURER'S LIABILITY ON ANY CLAIM FOR DAMAGES ARISING OUT OF THE MANUFACTURE, SALE, DELIVERY OR USE OF THE GOODS EXCEED THE PURCHASE PRICE OF THE GOODS. The foregoing warranties will not extend to Goods subjected to misuse, neglect, accident or improper installation or maintenance, or which have been altered or repaired by anyone other than Manufacturer or its authorized representative. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR PURPOSE OF ANY OTHER TYPE, WHETHER EXPRESS OR IMPLIED. No person may vary the foregoing warranties and remedies except in writing signed by a duly authorized officer of Manufacturer. Warranties or remedies that differ from the foregoing shall not otherwise be binding on Manufacturer. The Buyer's acceptance of delivery of the Goods constitutes acceptance of the foregoing warranties and remedies, and all conditions and limitations thereof.



FPP Industrial Meters 1 ¹/₂" Stainless Steel, Oval Gear Meter Model TS15C

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TS15CSRS Representative Model

Specifications

- Flow Rate 6-60 GPM, viscosities to 300 CST 23-230 LPM, viscosities to 300 CST
- Pressure
 150 PSI @ 100°F (10 Bar @ 40°C)
 400 PSI @ 100°F (28 Bar @ 40°C) Meter only

Temperature 300°F (149°C) RSFS only 212°F (100°C) mechanical registers 185°F (85°C) HEFS only Other limits may apply to electronic devices

- Viscosity
- Full nominal flow rate to 300 CST Up to 350,000 CST with special gears

Connections

1 ½" NPT or BSP

Optional: 1 1/2" ANSI flange adaptors • Materials

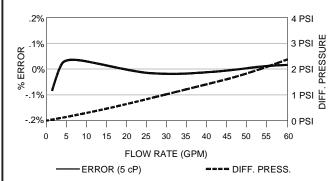
Case: 303 Stainless Steel Oval gears: Ryton® (PPS) Posts: 17-4 PH Stainless Steel Seals: Teflon™

Industrial Performance

- Linearity +/- 0.25% @ 1 CST
- Repeatability +/- 0.1%
- Resolution
 Flow Sensor: 34 PPG
 Optional: 67 PPG
- Calibration
 Mechanical: 1/10 gallon, lbs., liter & kg

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Electronic: Any unit of mass or volume
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Delta P & Accuracy Curves



Registration Options

- Mechanical register: 4, 5 or 6 digit
- Mechanical register/printer, register/preset, or register/preset/printer combination
- Battery-powered electronic totalizer or register
- Electronic AC batch controllers, flow computers, and temperature compensation
- NEMA 4X & NEMA 7/4 enclosures

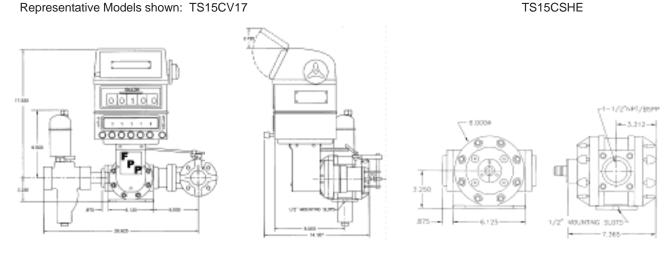
Accessories

- Inlet strainer for meter protection
- Air eliminator on inlet strainer
- · Air check valve with air eliminator
- Mechanical preset (shut-off) valve
- Electric or pneumatic preset valve
- Pulse output, analog signal & serial port
- Pulse Isolator/Amplifier/Splitter
- Pump control signal

Note: Recommended protection

Inlet strainer, depending upon viscosity, with 20, 40 or 80 mesh basket





Warranty.

Tuthill Transfer Systems ("Manufacturer") warrants to each buyer of its FPP Meters products (the "Buyer") for a period of 12 months from date of invoice or sales receipt, but in no event more than 18 months from date of manufacture, that goods of its manufacture ("Goods") will be free from defects of material and workmanship. Manufacturer's sole obligation under the foregoing warranties will be limited to either, at Manufacturers' option, replacing or repairing defective Goods (subject to limitations hereinafter provided) or refunding the purchase price for such Goods theretofore paid by the Buyer, and Buyer's exclusive remedy for breach of any such warranties will be enforcement of such obligations of Manufacturer. If Manufacturer so requests the return of the Goods, the Goods will be redelivered to Manufacturer in accordance with Manufacturer's instructions F.O.B. Factory. The remedies contained herein shall constitute the sole recourse of the Buyer against Manufacturer for breach of warranty. IN NO EVENT SHALL MANUFACTURER'S LIABILITY ON ANY CLAIM FOR DAMAGES ARISING OUT OF THE MANUFACTURE, SALE, DELIVERY OR USE OF THE GOODS EXCEED THE PURCHASE PRICE OF THE GOODS. The foregoing warranties will not extend to Goods subjected to misuse, neglect, accident or improper installation or maintenance, or which have been altered or repaired by anyone other than Manufacturer or its authorized representative. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR PURPOSE OF ANY OTHER TYPE, WHETHER EXPRESS OR IMPLIED. No person may vary the foregoing warranties and remedies except in writing signed by a duly authorized officer of Manufacturer. Warranties or remedies that differ from the foregoing shall not otherwise be binding on Manufacturer. The Buyer's acceptance of delivery of the Goods constitutes acceptance of the foregoing warranties and remedies, and all conditions and limitations thereof.





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.

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 ³ /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

- : Anodized aluminum Case
- : Ryton (PPS) with carbon bearings Gears
- : (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.

Only two moving parts, low pressure loss and simple maintenance. makes **FPP**METERS' flexible STEALTH Series the ideal platform for third Millenium metering systems. With multiple register options, we can assemble solutions for every

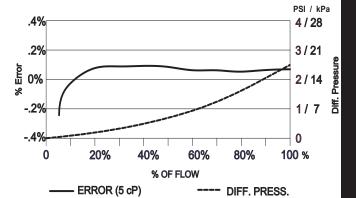


Gland-less flow meter, with ELNC electronic register on bracket mounted on meter case



TS20A S Gland-less flow sensor, opt. with signal conditioner or small totalizer mounted on pulser

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

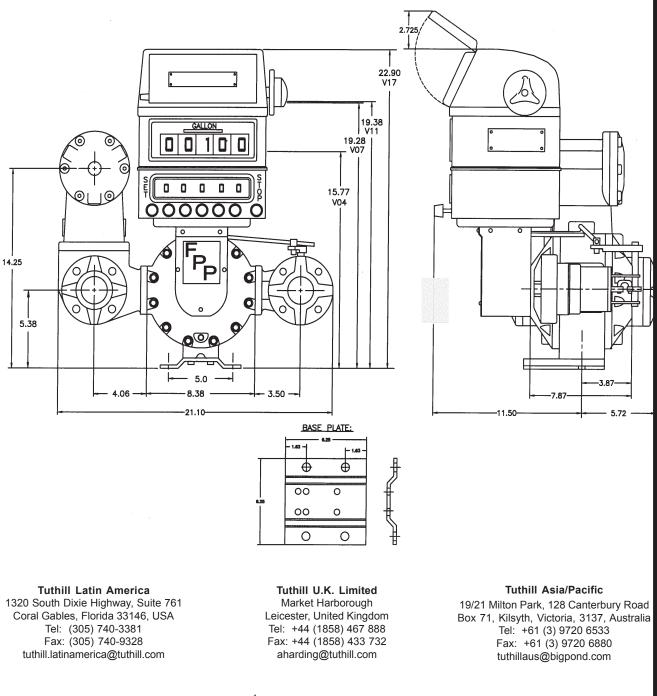




TS2HA, 2" Anodized Aluminum Dimensional Drawings

*All Dimensions are in inches

*Not for piping purposes





48513 Highway 51 North, P. O. Box 400 Tickfaw, LA 70466, USA Tel: 985-542-5200 Fax: 985-542-7394 US: 888-578-3258

www.fppmeters.com



FPP Industrial Meters 2" Stainless Steel, Oval Gear Meter Model TS20C

FPP Meters' versatile STEALTH Series is available in a variety of configurations including mechanical registration, electronic registration or non-factored pulse output flow sensors. With only two moving parts and exceptional pressure loss characteristics, STEALTH represents the ideal platform for year 2000 metering systems.



TS20CSRS Representative Model

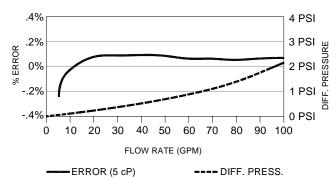
Specifications

- Flow Rate 10-100 GPM, viscosities to 300 CST 38-380 LPM, viscosities to 300 CST
- Pressure 150 PSI @ 100°F (10 Bar @ 40°C)
- Temperature 300°F (149°C) RSFS only 212°F (100°C) mechanical registers 185°F (85°C) RSFS only Other limits may apply to electronic devices
- Viscosity Full nominal flow rate to 300 CST Up to 350,000 CST with special gears
- Connections
 2" NPT or BSP
 Optional: 2" ANSI flange adaptors
- Materials
 - Case: 316 Stainless Steel Oval gears: Ryton® (PPS) Posts: 17-4 PH Stainless Steel Seals: Teflon™

Industrial Performance

- Linearity +/- 0.25% @ 1 CST
- Repeatability +/- 0.1%
- Resolution
 Flow Sensor: 34 PPG
- Calibration
 Mechanical: 1/10 gallon, lbs., liter & kg
 Electronic: Any unit of mass or volume

Delta P & Accuracy Curves



Registration Options

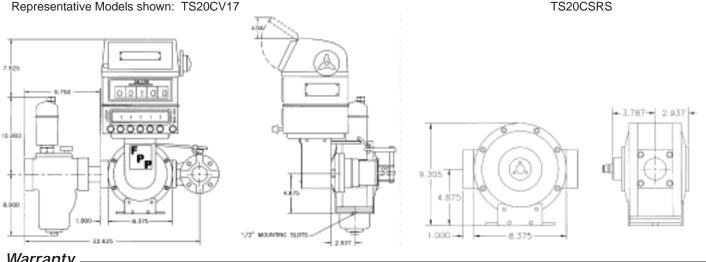
- Mechanical register: 4, 5 or 6 digit
- Mechanical register/printer, register/preset, or register/preset/printer combination
- Battery-powered electronic totalizer or register
- Electronic AC batch controllers, flow computers, and temperature compensation
- NEMA 4X & NEMA 7/4 enclosures

Accessories

- Inlet strainer for meter protection
- Air eliminator on inlet strainer
- · Air check valve with air eliminator
- Mechanical preset (shut-off) valve
- Electric or pneumatic preset valve
- Pulse output, analog signal & serial port
- Pulse Isolator/Amplifier/Splitter
- Pump control signal

NOTE: Recommended protection Inlet strainer, depending upon viscosity, with 20, 40 or 80 mesh basket





Warranty

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FPP INDUSTRIAL METERS

3" Aluminum, Oval Gear Meter Model TS30A

FPP Meters' versatile STEALTH Series is available in a variety of configurations including mechanical registration, electronic registration or non-factored pulse output flow sensors. With only two moving parts and exceptional pressure loss characteristics, STEALTH represents the ideal platform for year 2000 metering systems



Model Number TS30AE13

Specifications

Flow Rate

20-200 GPM, viscosities to 300 cSt 76-760 LPM, viscosities to 300 cSt **Pressure** 150 PSI @ 100°F (10 Bar @ 40° C) 400 PSI @ 100° F (28 Bar @ 40° C) **Temperature** 300°F (80° C) 185° F (85° C) RSFS only Other limits more explicit a electronic de

Other limits may apply to electronic devices **Viscositv**

Full nominal flow rate to 300 cSt to 350,000 cSt at reduced flow rates with special gears **Connections** 150# RF ANSI flanges

Materials

Case: Anodized Aluminum

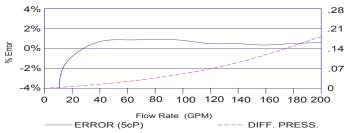
Oval gears: Ryton[™] (PPS), Teflon[™] optional

Posts: 17-4 PH Stainless Steel Seals: Viton[™], Teflon[™] optional

Industrial Performance

Linearity +/- 0.25% @ 1 cSt Repeatability +/- 0.1% Resolution Flow Sensor: 51 PPG Calibration Mechanical: 1/10 gallon, whole gallon, lbs., liter, dekaliters & kg Electronic: Any unit of mass or volume

Delta P & Accuracy Curves



Registration Options

- * Mechanical Register: 4, 5 or 6 digit
- * Mechanical register/printer, register/preset, or register/preset/printer combination
- * Battery-powered electronic totalizer or register
- * Electronic AC batch controllers, flow computers, and temperature compensation
- NEMA 4X & NEMA 7/4 enclosures

Accessories

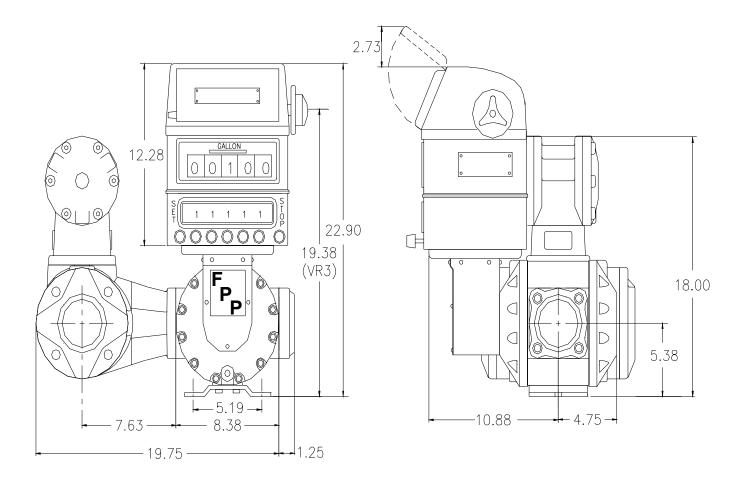
- * Inlet strainer for meter protection
- * Air eliminator on inlet strainer
- * Air check valve with air eliminator
- * Mechanical preset (shut-off) valve
- * Electric or pneumatic preset valve
- * Pulse output, analog signal & serial port
- * Pulse Isolator/Amplifier/Splitter
- Pump control signal

Note: Recommended protection Inlet strainer, depending upon viscosity, with 20, 40 or 80 mesh basket

DIMENSIONAL DRAWINGS



Dimensional Drawings: All dimensions are in inches





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FPP INDUSTRIAL METERS

3" Stainless Steel, Oval Gear Meter Model TS30C

FPP Meters' versatile STEALTH Series is available in a variety of configurations including mechanical registration, electronic registration or non-factored pulse output flow sensors. With only two moving parts and exceptional pressure loss characteristics, STEALTH represents the ideal platform for year 2000 metering systems



Model Number TS30CE04

Specifications

Flow Rate

20-200 GPM, viscosities to 300 cSt 76-760 LPM, viscosities to 300 cSt **Pressure** 150 PSI @ 100°F (10 Bar @ 40° C) 400 PSI @ 100° F (28 Bar @ 40° C) **Temperature** 300°F (80° C) 185° F (85° C) RSFS only

Other limits may apply to electronic devices **Viscositv**

Full nominal flow rate to 300 cSt to 350,000 cSt at reduced flow rates with special gears **Connections**

150# RF ANSI flanges

Materials

Case: Anodized Aluminum

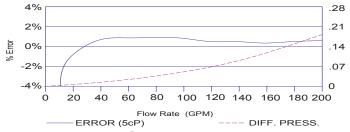
Oval gears: Ryton[™] (PPS), Teflon[™] optional

Posts: 17-4 PH Stainless Steel Seals: Viton[™], Teflon[™] optional

Industrial Performance

Linearity +/- 0.25% @ 1 cSt Repeatability +/- 0.1% Resolution Flow Sensor: 51 PPG Calibration Mechanical: 1/10 gallon, whole gallon, lbs., liter, dekaliters & kg Electronic: Any unit of mass or volume

Delta P & Accuracy Curves



Registration Options

- * Mechanical Register: 4, 5 or 6 digit
- * Mechanical register/printer, register/preset, or register/preset/printer combination
- * Battery-powered electronic totalizer or register
- * Electronic AC batch controllers, flow computers, and temperature compensation
- NEMA 4X & NEMA 7/4 enclosures

Accessories

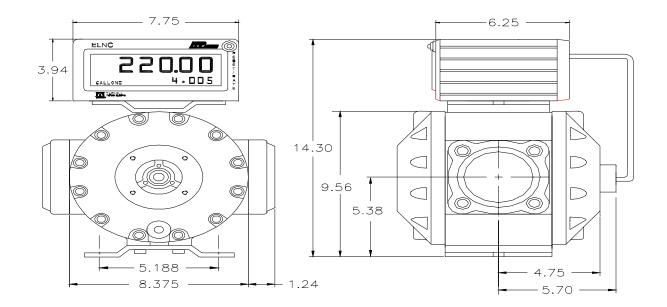
- * Inlet strainer for meter protection
- * Air eliminator on inlet strainer
- * Air check valve with air eliminator
- * Mechanical preset (shut-off) valve
- * Electric or pneumatic preset valve
- * Pulse output, analog signal & serial port
- * Pulse Isolator/Amplifier/Splitter
- Pump control signal

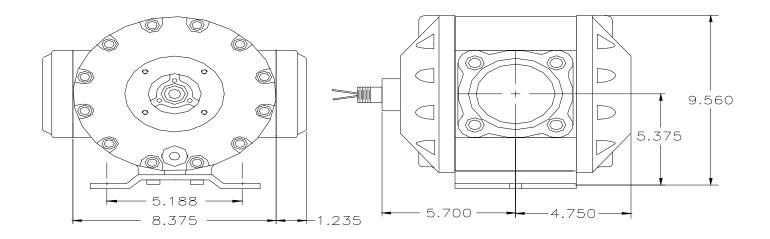
Note: Recommended protection Inlet strainer, depending upon viscosity, with 20, 40 or 80 mesh basket

DIMENSIONAL DRAWINGS



Dimensional Drawings: All dimensions are in inches







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