



APPLICATIONS

- Water treatment
- Industrial wastewater treatment
- Cooling water monitoring
- Industrial fluid control

FEATURES

- Low-friction, long-life jewel bearings
- One moving part
- Field repairable
- Choice of materials for chemical compatibility
- Fits 1-1/2" to 8" pipe
- Fixed depth in fitting ensures correct depth in pipe

GENERAL INFORMATION

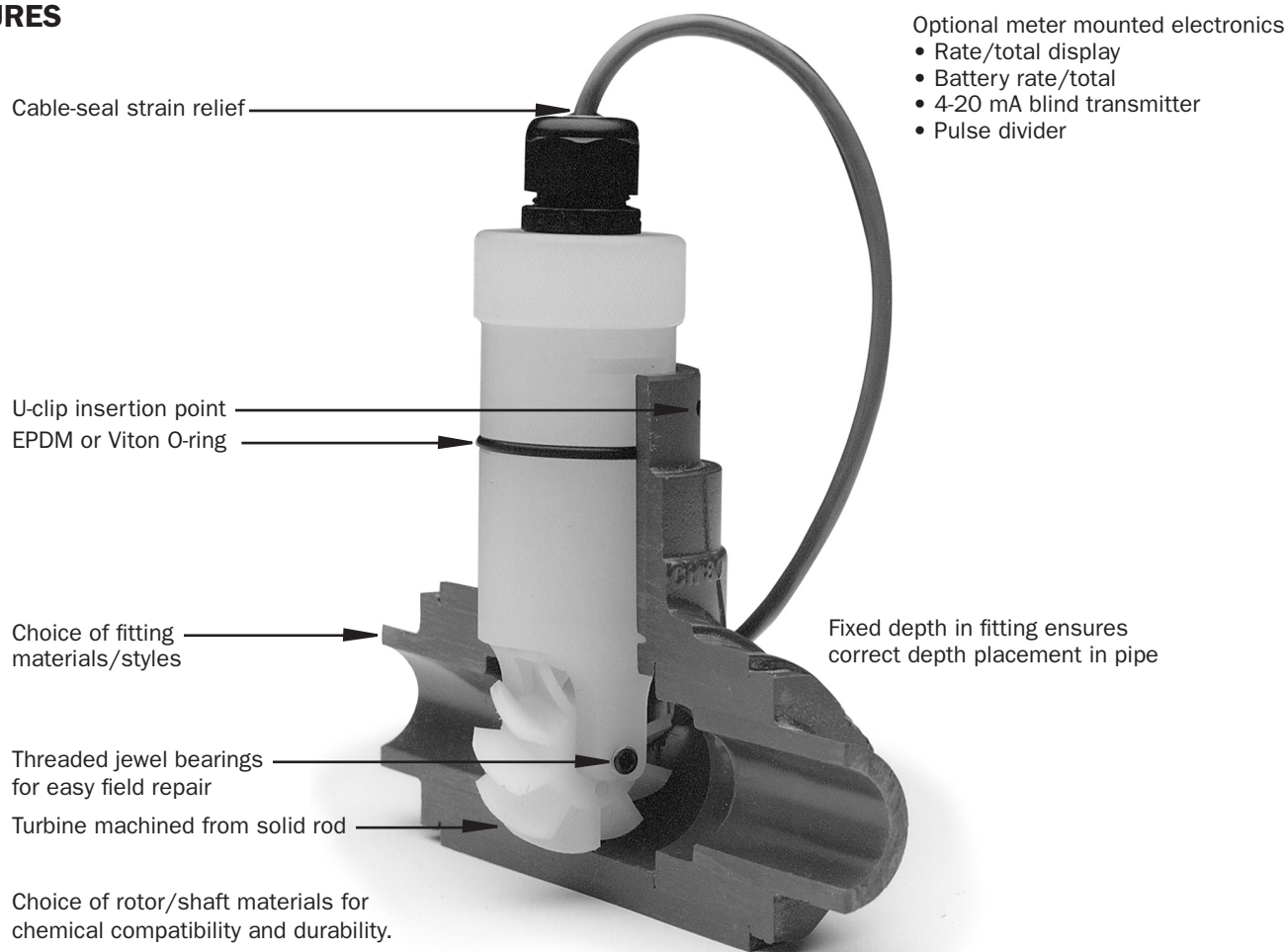
The TX80-Series are insertion turbine meters designed for use in 1-1/2" to 8" pipe. High-quality jewel bearings and precision shafts ensure long life and low friction. Available in 316 stainless steel, brass, PVC and polypropylene, sensor bodies are machined from solid rod for maximum low-flow performance. The TX80-Series use special fittings that ensure ease of installation and correct depth setting in the pipe.

The rotation of the turbine is detected by a non-drag Hall-effect sensor. Output is a pulse-type square wave, which can be sent long distances (up to 2,000 feet) without a

transmitter. This signal can be connected directly to Seametrics controls and displays, as well as PLC's, counters, and computer cards.

Seametrics TX80 meters are ideal for chemical proportioning applications. If no display is required, a simple divider such as the PD10 provides adjustable pump pacing. For rate and total display, as well as pump pacing, the FT420 flow indicator can be mounted directly on the TX80-Series, or remotely on a wall or panel. The FT415 offers a battery-operated rate/totalizer where power is not available.

FEATURES



SPECIFICATIONS*

Materials	Body	Polypropylene, brass or stainless steel		
	Rotor Assembly	Polypropylene rotor/carbide shaft (PVDF rotor/ceramic shaft optional)		
	Bearings	Ruby jewel		
	O-Ring	EPDM (Viton optional)		
Rotor Pickup		GMR (Giant Magnetoresistive Sensor)		
Maximum		Brass	316 SS	PVC/Polypro
	Pressure	200 psi (14 bar)	250 psi (17 bar)	175 psi (12 bar) at 75°
	Temperature	200° F (93° C)		130° F (55° C) at 0 psi
Flow Range		0.2 to 30 ft./sec.		
Calibrated Accuracy		+/- 1.5% of full scale		
Signal		Current sinking pulse, 20 mA max, 30 Vdc max (Micropower option: Pulse output swings between supply voltage and 0 Vdc)		
Power		6-30 Vdc @ 8 mA (Micropower option: 3.5-16 Vdc @ 0.3 mA max)		
Cable		22 AWG, 3 Con, 18'; 2000' max run		
Regulatory		CE Mark (Stainless Steel, Brass and Standard Power Only)		

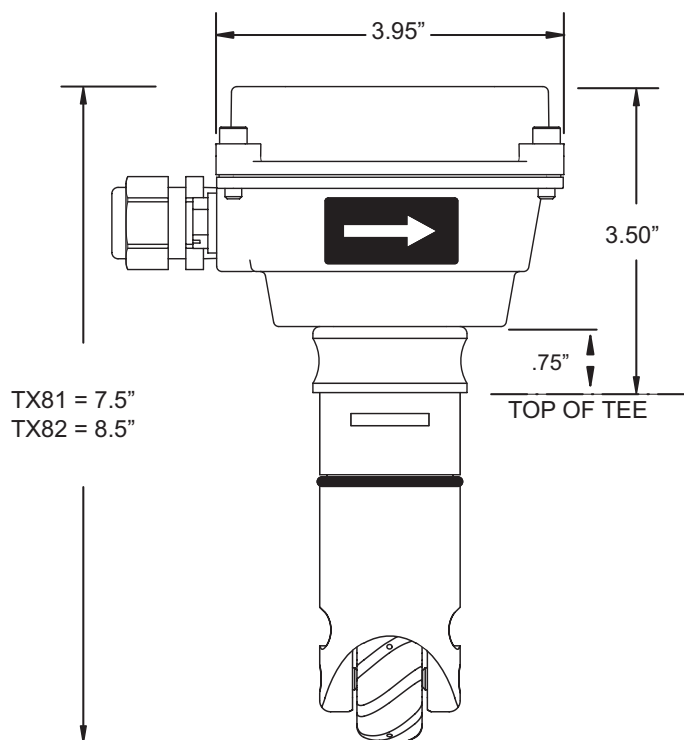
*Specifications subject to change. Please consult our website for the most current data (www.seametrics.com).



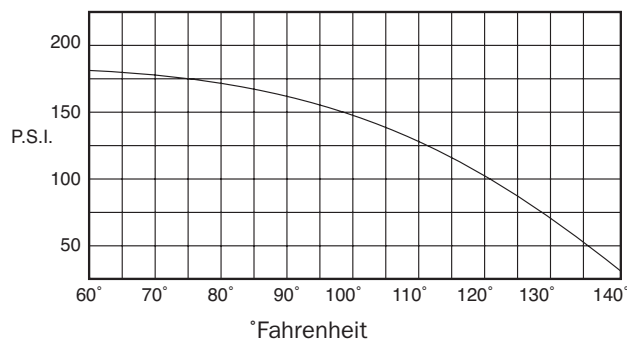
TX80-SERIES Insertion Turbine Flow Sensor

DIMENSIONS

NOTE: Top Housing Optional



PRESSURE VS. TEMPERATURE (PVC/Polypro)



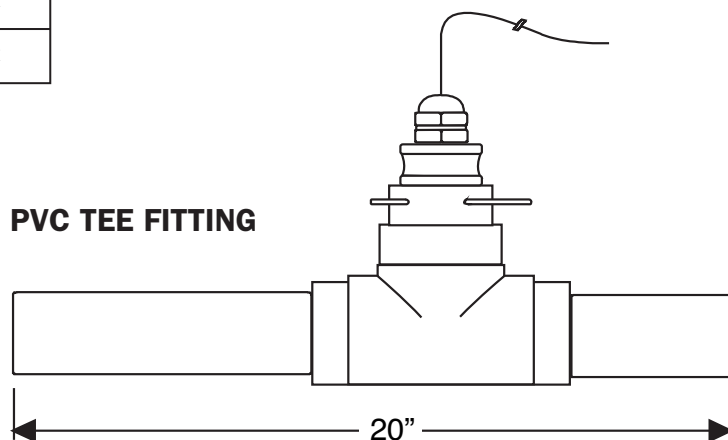
AVAILABLE FITTINGS

	Tee	Saddle	Weld	Braze	Sweat Tee
Bronze	1-1/2"-4"	3"-8"	x	3"-8"	1-1/2"-4"
PVC	1-1/2"-2"	3"-8"	x	x	x
Stainless Steel	1-1/2"-2" 304SS	x	3"-8" 316SS	x	x
Carbon Steel	1-1/2"-2"	x	3"-8"	x	x
Ductile Iron	x	3"-8"	x	x	x

FLOW RANGE (in Gallons Per Minute)

	1-1/2"	2"	3"	4"	6"	8"
Min	1.9	3.1	4.6	7.9	18	31
Max	190	314	691	1190	2700	4680

PVC TEE FITTING





TX80-SERIES Insertion Turbine Flow Sensor

HOW TO ORDER

MODEL

1-1/2" - 3" = **TX81**

4" - 8" = **TX82**

MATERIAL

Brass = **B**

316SS = **S**

PVC = **P**

Polypro = **Y**

OPTIONS

Micropower Pickup = **-04**
(Use with FT415 or DL76)

Rotor/Ceramic Shaft, PVDF (Kynar) = **-05**

LMI Pump Connector = **-06**

Seametrics Control Connector = **-07**

Viton® O-Ring = **-60**

FITTINGS

Select from chart above
(Fitting Type and Material)

ACCESSORIES

Rate and Total Indicator with pulse & 4-20 mA outputs = **FT420**

Rate and Total Indicator, battery powered = **FT415**

Analog transmitter, blind 4-20 mA converter = **AO55**

Power converter, plug-in, 110-115 Vac, 24 Vdc = **PC3**

Pulse divider = **PD10**

Data logger = **DL76**

Mounting kit, converts wall to meter mount = **MK10**

Mounting kit, converts meter to wall mount = **MK20**

CONTACT YOUR SUPPLIER