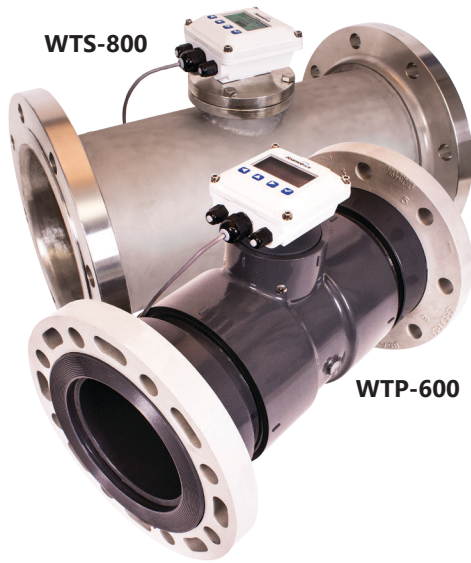


# WT-SERIES TURBINE METERS



## RIGHT METER FOR

Water treatment

Municipal

Cooling water monitoring

Industrial flow control

## Features

- One moving part
- Low friction jewel bearings
- Field repairable
- Choice of materials
- Variety of displays and controls

This unique system of 3" to 8" turbine meters uses just one moving part, a precision helical rotor. Rotation of the rotor is electronically detected and processed. The high-quality jewel bearings and shafts minimize friction while providing long life in non-lubricating fluids. The entire rotor assembly can be easily removed for field service without removing the meter from the pipe.

WTP bodies are fabricated from Schedule 80 PVC fittings and WTS bodies from stainless steel tubing. The turbine insert on WTS meters is machined from a stainless steel casting. The WTP turbine insert is machined from a solid piece of PVC. Turbine rotors on all models are Kynar (PVDF).

WT meters can be ordered with various output options. The basic model (100) comes with pulse output only. An electronic display (Seametrics FT430/440) can be mounted on the 103 and 109 models to display flow rate and total (resettable or non-resettable), and provide a programmable pulse or 4-20 mA output. Other electronics options include a battery-powered (FT450) rate/totalizer plus pulse output for applications that lack power (107 model). All of these controls/displays can be mounted on the meter or remotely mounted on a wall or panel up to 2,000 feet away. WT-Series meters are compatible for use with other remote-mount Seametrics displays and controls as well.

## Contact Your Supplier

## Specifications\*

	WTP			WTS				
<b>Pipe Sizes</b>	3", 4", 6"			3", 4", 6", 8"				
<b>Materials</b>	<b>Meter Body</b>	PVC Schedule 80 fittings			304 Stainless steel (316 SS optional)			
	<b>Turbine Insert</b>	PVC			CF8 cast stainless			
	<b>Rotor</b>	Kynar® (PVDF)			Kynar® (PVDF)			
	<b>Shaft</b>	Zirconia ceramic			Zirconia ceramic			
	<b>Bearings</b>	Sapphire journal, ruby endstone			Sapphire journal, ruby endstone			
<b>Cable</b>	#22 AWG, 2000' max			#22 AWG, 2000' max				
<b>Flanges</b>	Optional (See dimensions)			150 lb. drilling				
<b>Maximum Pressure</b>	150 psi @ 75° F (10 bar @ 24° C) (See chart)			200 psi (14 bar)				
<b>Maximum Temperature</b>	120° F (50° C) (See chart)			200° F (93° C)				
<b>Accuracy</b>	± 1% of full scale			± 1% of full scale				
<b>Flow Range (GPM)</b>	<b>3"</b>	<b>4"</b>	<b>6"</b>	<b>3"</b>	<b>4"</b>	<b>6"</b>	<b>8"</b>	
	<b>Minimum</b>	3	6	12	3	6	12	30
	<b>Maximum</b>	400	600	1200	400	600	1200	3000

Kynar is a registered trademark of Arkema, Inc.

\* Specifications subject to change. Please consult our web site for current data ([seametrics.com](http://seametrics.com)).

## Electronics Options Specifications\*

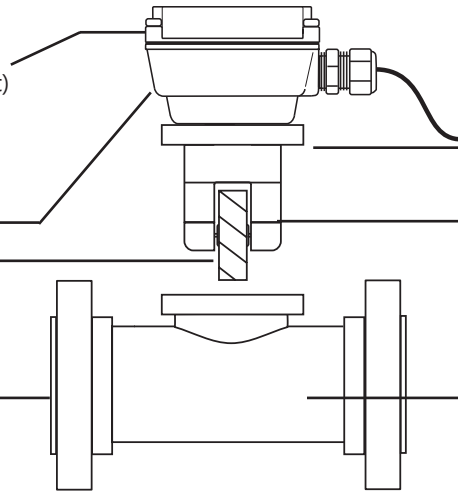
	WT100	WT103	WT107	WT109
<b>Power</b>	6-36 Vdc	7-30 Vdc	Battery (Lithium "C", 3.6V, replaceable)	7-30 Vdc, 4mA (4-20 mA when loop powered)
<b>Electronic Display</b>		FT430	FT450	FT440
<b>Pulse Out</b>	0-160 pulse/sec. current sinking	Pulse scaled and pulse pass through	Pulse scaled	Pulse scaled
<b>Analog Out</b>				4-20 mA Loop
<b>Rate</b>		5-digit autorange	5-digit autorange	5-digit autorange
<b>Total</b>		8-digit	8-digit	8-digit
<b>Memory</b>		Non-volatile	Non-volatile	Non-volatile
<b>Response Time</b>				
<b>High/Low Alarm</b>		Selectable on one output	Selectable on one output	Selectable on one output
<b>Environmental</b>		NEMA 4X, IP67	NEMA 4X, IP67	NEMA 4X, IP67
<b>Regulatory</b>	CE Mark	CE Mark	CE Mark	CE Mark

## Features

Modular electronics for a wide range of applications (available as meter or remote mount)

Rugged cast control housing  
Rotor is the only moving part

150 lb. drilling flanges  
(Standard on WTS,  
Optional on WTP)

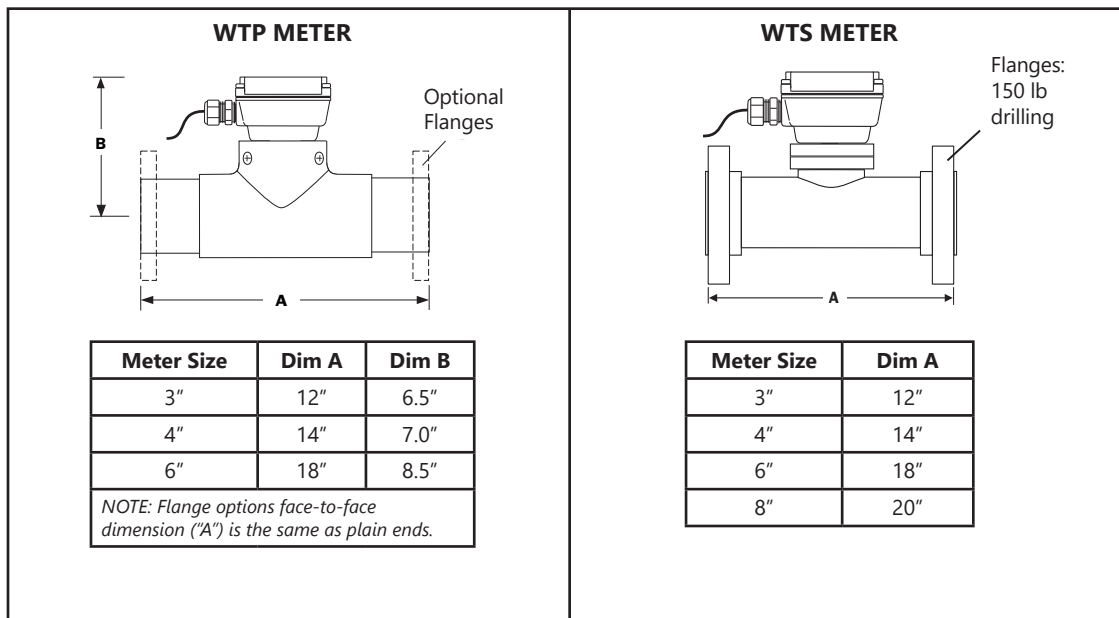


Cast stainless steel (WTS)  
or PVC (WTP) insert removes  
easily for service

Jewel bearings for long life  
and low friction resulting in  
lower minimum flows

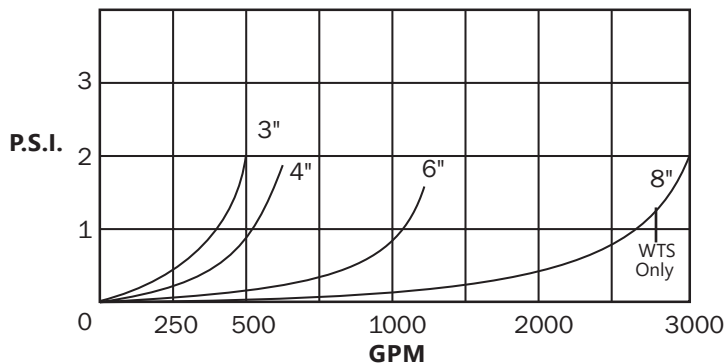
Schedule 80 PVC (WTP)  
or stainless steel (WTS)

## Dimensions

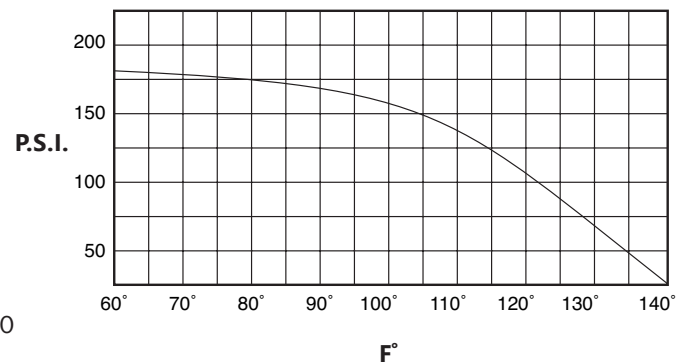


## Pressure and Temperature

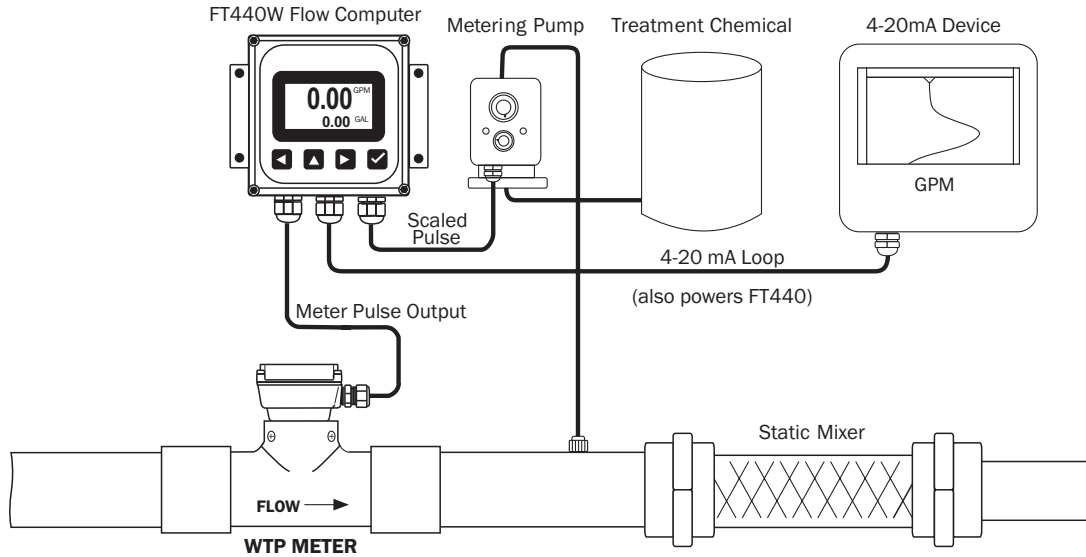
**Pressure Loss Chart (WTP & WTS)**



**Pressure vs. Temperature (WTP Only)**



## Typical Application



## How to Order

MODEL	ELECTRONICS	SIZE	OPTIONS
PVC = <b>WTP</b> Stainless Steel = <b>WTS</b>	Pulse Output = <b>100</b> Rate+Total/Pulse Scaled/ Pulse Pass Through = <b>103</b> Battery-Powered/Pulse = <b>107</b> Rate+Total/Pulse Scaled/ 4-20mA = <b>109</b>	3" = <b>-300</b> 4" = <b>-400</b> 6" = <b>-600</b> 8" = <b>-800 (WTS Only)</b>	Micropower Sensor = <b>-04</b> <i>(Required for use with FT450W)</i> LMI 4-pin Connector = <b>-06</b> <i>(For use with WT100 only)</i> Seametrics Control Connector = <b>-07</b> <i>(For use with WT100 only)</i> 316 SS (WTS only) = <b>-14</b> Flanged Ends (WTP) = <b>-18</b> Tamper-evident = <b>-32</b> Non-resettable total = <b>-64</b> Dual Relay Output = <b>-98</b> <i>(For use with WT103, 109 only)</i> Roytronics® Series A 5-pin Pump Connector = <b>-106</b> <i>(For use with WT100 only)</i> Hinged Display Cover = <b>-126</b>

### ACCESSORIES

Remote Rate and Total Indicator = **FT430W/440W**

Remote Battery-Operated Rate/Totalizer = **FT450W**