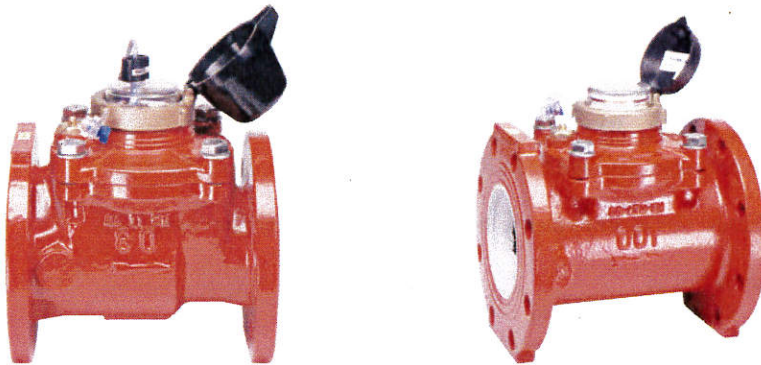


# 'WST' AND 'WT' WATER METERS

**MORE ACCURATE OVER  
A WIDE RANGE OF FLOWS**



## PRODUCT ADVANTAGES

- Impeller is located in the center of the flow allowing for accurate measurements ( $\pm 2\%$ ) over a wide range of flows - including low flows.
- Double magnetic transmission (repelling magnets) drives the register enabling the meter to handle high loads of sand since only the impeller is in contact with the water.
- Transmission gears are located in a sealed, dry compartment which has no contact with the water.
- Balanced impeller with equal load on front and rear gears prevents bearing wear and maintains high accuracy even after years of operation.
- Registers are stainless steel encapsulated and guaranteed not to accumulate moisture or fog.
- 'WST' Water Meters have built-in straightening vanes which reduce the length of straight pipe required before and after the meter.
- Wide selection of register options.

## APPLICATIONS

- For main supply lines in agriculture applications

## SPECIFICATIONS

- 'WST' Sizes: 3", 4", 6" and 8"
- 'WT' Sizes: 10" and 12"
- Maximum Working Pressure: 230 psi
- Maximum Liquid Temperature: 140° F
- Body Material: Cast Iron with Polyester Coating
- Connections: Flange
- Register Options: Reed Switch, Photo Diode or MPE Digital
- 'WST' Reed Switch Register Pulse Outputs: 10, 32.6 or 100
- 'WT' Reed Switch Register Pulse Outputs: 100 or 325.9
- 'WST' Photo Diode Register Pulse Outputs: 0.1172, 0.1097, 0.2027 or 0.378
- 'WT' Photo Diode Register Pulse Outputs: 4.505 or 6.73
- 'WST' MPE Digital Register Pulse Outputs: 10, 100 or 32.6
- 'WT' MPE Digital Register Pulse Outputs: 100 or 325.9
- 'WST' Straight Pipe Installation Requirement: 5 x D\* upstream and 2 x D downstream
- 'WT' Straight Pipe Installation Requirement: 10 x D upstream and 5 x D downstream

\*D = meter size



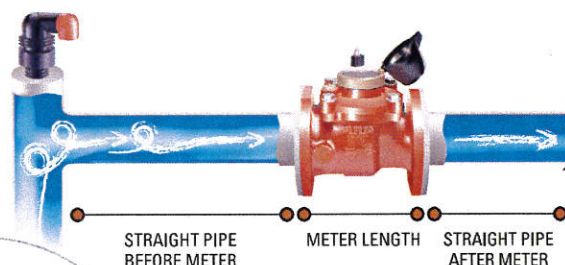
**FULL DIAMETER IMPELLER**  
HIGH DEGREE OF ACCURACY FROM  
VERY LOW TO MAXIMUM FLOWS



## 'WST' AND 'WT' WATER METERS

### STRAIGHT PIPE INSTALLATION REQUIREMENT

METER SIZE	UPSTREAM DISTANCE	DOWNSTREAM DISTANCE	METER LENGTH	TOTAL REQUIREMENT
<b>'WST' WATER METERS - 5 D X 2 D</b>				
3"	15"	6"	9"	30"
4"	20"	8"	10"	38"
6"	30"	12"	12"	54"
8"	40"	16"	14"	70"
<b>'WT' WATER METER - 10 D X 5 D</b>				
10"	100"	50"	18"	168"
12"	120"	60"	20"	200"



### INSTALLATION REQUIREMENTS

- The meter may be installed in any position. For non-horizontal positions, the flow should be upwards.
- Straight pipe installation requirement for 'WST' meters: 5 x diameter pipe upstream (before the meter) and 2 x diameter pipe downstream (after the meter)
- Straight pipe installation requirement for 'WT' meters: 10 x diameter pipe upstream (before the meter) and 5 x diameter pipe downstream (after the meter)
- Prior to installation of the meter, the pipeline should be thoroughly flushed
- Meter must be installed so that the pipe will be full of water at all times during metering
- To eliminate air in the system, continuous acting air vents of proper size and type are required

### REED SWITCH REGISTERS

METER SIZE	REGISTER TOTALIZER	VOLUME UNIT	PULSE OUTPUT (GALS/PULSE)	POINTER 1	POINTER 2	POINTER 3
3" & 4" 'WST'	GALLON	GALLON x 1,000	10	x 1.0 GALLON	x 10 GALLON	x 100 GALLON
3" & 4" 'WST'	ACRE FEET	ACRE FEET x 1.00	32.6	x 0.00001	x 0.0001	x 0.001
6" & 8" 'WST'	GALLON	GALLON x 10,000	100	x 10 GALLON	x 100 GALLON	x 1,000 GALLON
6" & 8" 'WST'	ACRE FEET	ACRE FEET x 1.00	32.6	x 0.000001	x 0.0001	x 0.001
10" & 12" 'WT'	GALLON	GALLON x 10,000	100	x 10 GALLON	x 100 GALLON	x 1,000 GALLON
10" & 12" 'WT'	ACRE FEET	ACRE FEET x 325.9	325.9	x 0.0001	x 0.001	x 0.01



### PHOTO DIODE REGISTERS

METER SIZE	REGISTER TOTALIZER	VOLUME UNIT	PULSE OUTPUT (GALS/PULSE)	POINTER 1	POINTER 2	POINTER 3
3" 'WST'	GALLON	GALLON x 1,000	0.1172	x 1.0 GALLON	x 10 GALLON	x 100 GALLON
4" 'WST'	GALLON	GALLON x 1,000	0.1097	x 1.0 GALLON	x 10 GALLON	x 100 GALLON
6" 'WST'	GALLON	GALLON x 10,000	0.2027	x 10 GALLON	x 100 GALLON	x 1,000 GALLON
8" 'WST'	GALLON	GALLON x 10,000	0.378	x 10 GALLON	x 100 GALLON	x 1,000 GALLON
10" 'WT'	GALLON	GALLON x 10,000	4.505	x 10 GALLON	x 100 GALLON	x 1,000 GALLON
12" 'WT'	GALLON	GALLON x 10,000	6.73	x 10 GALLON	x 100 GALLON	x 1,000 GALLON



### MULTI-PURPOSE ELECTRONIC (MPE) DIGITAL REGISTERS

METER SIZE	REGISTER TOTALIZER	VOLUME UNIT	PULSE OUTPUT (GALS/PULSE)	FLOW RATE UNITS
3" & 4" 'WST'	GALLON	GALLON x 100	10	GPM x 1.00
3" & 4" 'WST'	ACRE FEET	ACRE FEET x 1.000	3.26	GPM x 1.00
6" & 8" 'WST'	GALLON	GALLON x 1,000	100	(6") GPM x 1.00, (8") GPM x 1
6" & 8" 'WST'	ACRE FEET	ACRE FEET x 1.000	32.6	(6") GPM x 1.00, (8") GPM x 1
10" & 12" 'WT'	GALLON	GALLON x 10,000	100	GPM x 1
10" & 12" 'WT'	ACRE FEET	ACRE FEET x 1.000	325.9	GPM x 1

