

'WST' **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 (± 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.
- 3" to 8" 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

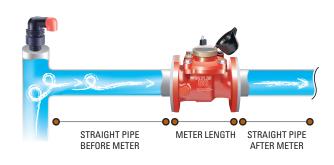
- Sizes: 3", 4", 6", 8", 10" and 12"
- Maximum Working Pressure: 230 psi
- Maximum Liquid Temperature: 140° F
- Body Material: Cast Iron with Polyester Coating
- Connections: Flange
- Register Options: Reed Switch, Photo Diode or **ER** Digital
- 3", 4", 6" and 8" Reed Switch Register Pulse Outputs: 10, 32.6 or 100
- 10" and 12" Reed Switch Register Pulse Outputs: 100 or 325.9
- 3", 4", 6" and 8" Photo Diode Register Pulse Outputs: 0.1172, 0.1097, 0.2027 or 0.378
- 10" and 12" Photo Diode Register Pulse Outputs: 4.505 or 6.73
- All Sizes ER Digital Register Pulse Outputs: Gallons - .1, 1, 10, 100, 1000 Acre Feet - .0001, .001, .01, .1
- 3", 4", 6" and 8" Straight Pipe Installation Requirement:
- 5 x D* upstream and 2 x D downstream
- 8" and 10" Straight Pipe Installation Requirement: 10 x D upstream and 5 x D downstream

*D = meter size



'WST' WATER METERS

STRAIGHT PIPE INSTALLATION REQUIREMENT							
METER Size	UPSTREAM DISTANCE	DOWNSTREAM DISTANCE	METER LENGTH	TOTAL REQUIREMENT			
5 D X 2 D							
3"	15"	6"	9"	30"			
4"	20"	8"	10"	38"			
6"	30"	12"	12"	54"			
8"	40"	16"	14"	70"			
10 D X 5 D	10 D X 5 D						
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 3" to 8" meters: 5 x diameter pipe upstream (before the meter) and 2 x diameter pipe downstream (after the meter)
- Straight pipe installation requirement for 10" and 12" 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 VOLUME Totalizer unit		PULSE OUTPUT (GALS/PULSE)	POINTER RESOLUTION POINTER 1 POINTER 2		ON POINTER 3	
3" & 4"	GALLON	GALLON x 1,000	10	x 1.0 GALLON	x 10 GALLON	x 100 GALLON	
3" & 4"	ACRE FEET	ACRE FEET x 1.00	32.6	x 0.00001	x 0.0001	x 0.001	
6" & 8"	GALLON	GALLON x 10,000	100	x 10 GALLON	x 100 GALLON	x 1,000 GALLON	
6" & 8"	ACRE FEET	ACRE FEET x 1.00	32.6	x 0.000001	x 0.0001	x 0.001	
10" & 12"	GALLON	GALLON x 10,000	100	x 10 GALLON	x 100 GALLON	x 1,000 GALLON	
10" & 12"	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	DINTER RESOLUTION POINTER 2	ON POINTER 3		
3"	GALLON	GALLON x 1,000	0.1172	x 1.0 GALLON	x 10 GALLON	x 100 GALLON		
4"	GALLON	GALLON x 1,000	0.1097	x 1.0 GALLON	x 10 GALLON	x 100 GALLON		
6"	GALLON	GALLON x 10,000	0.2027	x 10 GALLON	x 100 GALLON	x 1,000 GALLON		
8"	GALLON	GALLON x 10,000	0.378	x 10 GALLON	x 100 GALLON	x 1,000 GALLON		
10"	GALLON	GALLON x 10,000	4.505	x 10 GALLON	x 100 GALLON	x 1,000 GALLON		
12"	GALLON	GALLON x 10,000	6.73	x 10 GALLON	x 100 GALLON	x 1,000 GALLON		



ELECTRONIC (ER) DIGITAL REGISTERS						
METER SIZE	REGISTER TOTALIZER	PULSE OUTPUT (GALS/PULSE)	FLOW RATE UNITS			
3" TO 8"	GALLON	.1, 1, 10, 100, 1000	GPM			
3" TO 8"	ACRE FEET	.0001, .001, .01, .1	GPM			
10" & 12"	GALLON	.1, 1, 10, 100, 1000	GPM			
10" & 12"	ACRE FEET	.0001, .001, .01, .1	GPM			

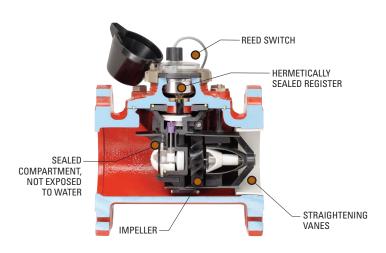




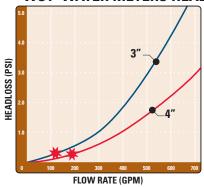
THREE COMPONENTS FOR QUICK MAINTENANCE

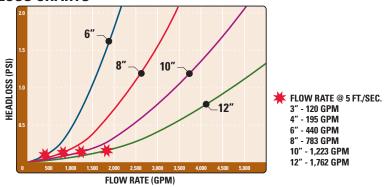
'WST' WATER METER CUT-AWAY VIEW





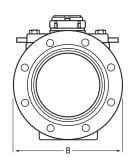
'WST' WATER METERS HEADLOSS CHARTS

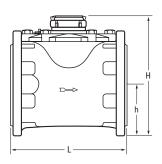




PERFORMANCE DATA							
METER Size	LOWEST FLOW RATE +/- 5% ACCURACY	LOWEST FLOW RATE +/- 2% ACCURACY	NOMINAL FLOW RATE +/- 2% ACCURACY	MAXIMUM FLOW RATE +/- 2% ACCURACY			
3"	2 GPM	4 GPM	528 GPM	660 GPM			
4"	4 GPM	6 GPM	1,013 GPM	1,266 GPM			
6"	11 GPM	15 GPM	1,145 GPM	1,431 GPM			
8"	22 GPM	38 GPM	1,980 GPM	2,475 GPM			
10"	44 GPM	44 GPM	3,300 GPM	4,125 GPM			
12"	51 GPM	51 GPM	4,400 GPM	5,500 GPM			

DIMENSIONS & WEIGHT							
METER SIZE	H HEIGHT	h HEIGHT	L LENGTH	B Width	WEIGHT (LBS.)		
3"	9 1/4"	3 1/2"	9"	7 3/4"	34		
4"	9 3/4"	4 1/4"	9 3/4"	7 3/4"	42		
6"	12 1/4"	5″	11 3/4"	11 1/4"	77		
8"	13 1/4"	6 1/4"	13 3/4"	13 1/4"	103		
10"	17 1/4"	10 1/4"	17 3/4"	16"	165		
12"	18 1/4"	13"	19 3/4"	18 1/4"	209		





'WST' WATER METERS

ORDERING INFORMATION - REED SWITCH AND PHOTO DIODE REGISTERS					
MODEL Number	METER Size	REGISTER Type	GALLONS PER PULSE		
36WST3F		REED SWITCH/GALLON	10		
36WST3F-AF	3"	REED SWITCH/ACRE FEET	32.6		
36WST3F-1172		PHOTO DIODE	0.1172		
36WST4F		REED SWITCH/GALLON	10		
36WST4F-AF	4"	REED SWITCH/ACRE FEET	32.6		
36WST4F-1097		PHOTO DIODE	0.1097		
36WST6F		REED SWITCH/GALLON	100		
36WST63F-AF	6"	REED SWITCH/ACRE FEET	32.6		
36WST6F-2027		PHOTO DIODE	0.2027		
36WST8F		REED SWITCH/GALLON	100		
36WST8F-AF	8"	REED SWITCH/ACRE FEET	32.6		
36WST8F378		PHOTO DIODE	0.378		
36WST10F		REED SWITCH/GALLON	100		
36WST10F-AF	10"	REED SWITCH/ACRE FEET	325.9		
36WST10FPH4.505		PHOTO DIODE	4.505		
36WST12F		REED SWITCH/GALLON	100		
36WST12F-AF	12"	REED SWITCH/ACRE FEET	325.9		
36WST12F-PH6.73		PHOTO DIODE	6.73		





ORDERING INFORMATION - ER DIGITAL REGISTERS

36 .	MODEL	SIZE REC	GISTER VOLU	ME FLOW	RATE OUTPUT 1	OUTPUT 2	DIRECTION
MODEL	SIZE	REGISTER	VOLUME	FLOW RATE	OUTPUT 1 AND 0	UTPUT 2 *	FLOW DIRECTION
WST	3F = 3"	ER = ER DIGITAL	1 = GALLONS	1 = GPM	A = NO OUTPUT		F = FORWARD
	4F = 4"	REGISTER	2 = ACRE FEET		C = .1 GALLON PER	PULSE	R = REVERSE
	6F = 6"	EM = ER DIGITAL			D = 1 GALLON PER	PULSE	A = ALTERNATING
	8F = 8"	REGISTER W/OUTPUT			E = 10 GALLONS P	ER PULSE	N = NET
	10F = 10"	MODULE			F = 100 GALLONS F	PER PULSE	
	12F = 12"		J		G = 1000 GALLONS	PER PULSE	
					H = 0.0001 ACRE FT	PER PULSE	
					I = 0.001 ACRE FT I	PER PULSE	
	EXAMPLE:				J = 0.01 ACRE FT P	ER PULSE	

K = 0.1 ACRE FT PER PULSE

* Pulse rate is based on volume units.

of water that passes through the meter.

by 325,850.

If volume is in Acre Feet and Option D is chosen for

Output 1 or 2, it will result in 1 pulse every acre foot

To convert Acre Feet to Gallons per Pulse, multiply

36WST10FER11EEF

10" WST Series Water Meter, ER Register, Volume in Gallons, Flow Rate in Gallons per Minute, Pulse Output 1 is 10 Gallons per Pulse, Pulse Output 2 is 10 Gallons per Pulse, Forward Flow Direction

INDUSTRY'S LONGEST WARRANTY

Netafim stands behind our water meters with an unprecedented warranty - the industry's longest - three (3) years on the metering components (register and metering assembly) and five (5) years on the meter body.



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