



APPLICATIONS

- Irrigation
- Chemigation
- Agricultural automation
- Well usage monitoring
- Dairy Lagoons

FEATURES

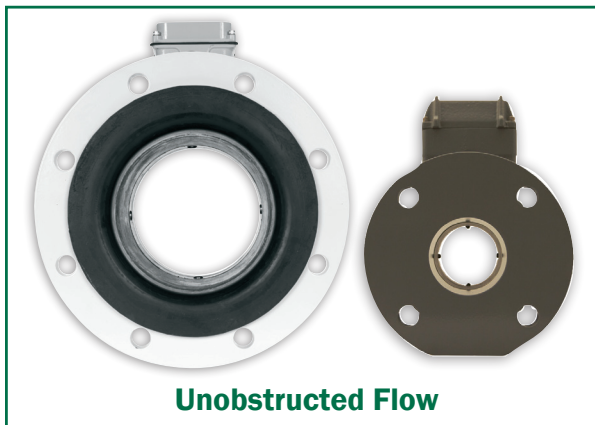
- Simple as a mechanical meter
- No moving parts
- Minimal straight pipe required
- Battery power standard; External power optional
- Solar compatible
- Built-in rate & total indicator
- Built-in pulse output for data-logging or telemetry
- Tamper-evident seal



AG2000-600



AG2000-300



Unobstructed Flow

Seametrics' series of standard and IP68 (submersible) flanged magmeters.

Available in sizes from 3" up to 10".

GENERAL INFORMATION

The AG2000 is a spool-type electromagnetic flowmeter for use in irrigation applications in 3" to 10" pipe. With no moving parts, these meters provide unobstructed flow and are resistant to wear from debris found in ground or surface water. Little maintenance is required because there are no bearings to wear out or propellers to stop turning. Minimal straight pipe requirements allow AG2000 meters to be used in piping configurations where there is little space between the meter and an elbow.

The standard AG2000 is battery powered. Where an external power source is available, the AG2000 can be optionally converted to 8-32 Vdc, with the batteries then serving as back-up to maintain continuous operation in case of power failure. This configuration will prolong battery life indefinitely.

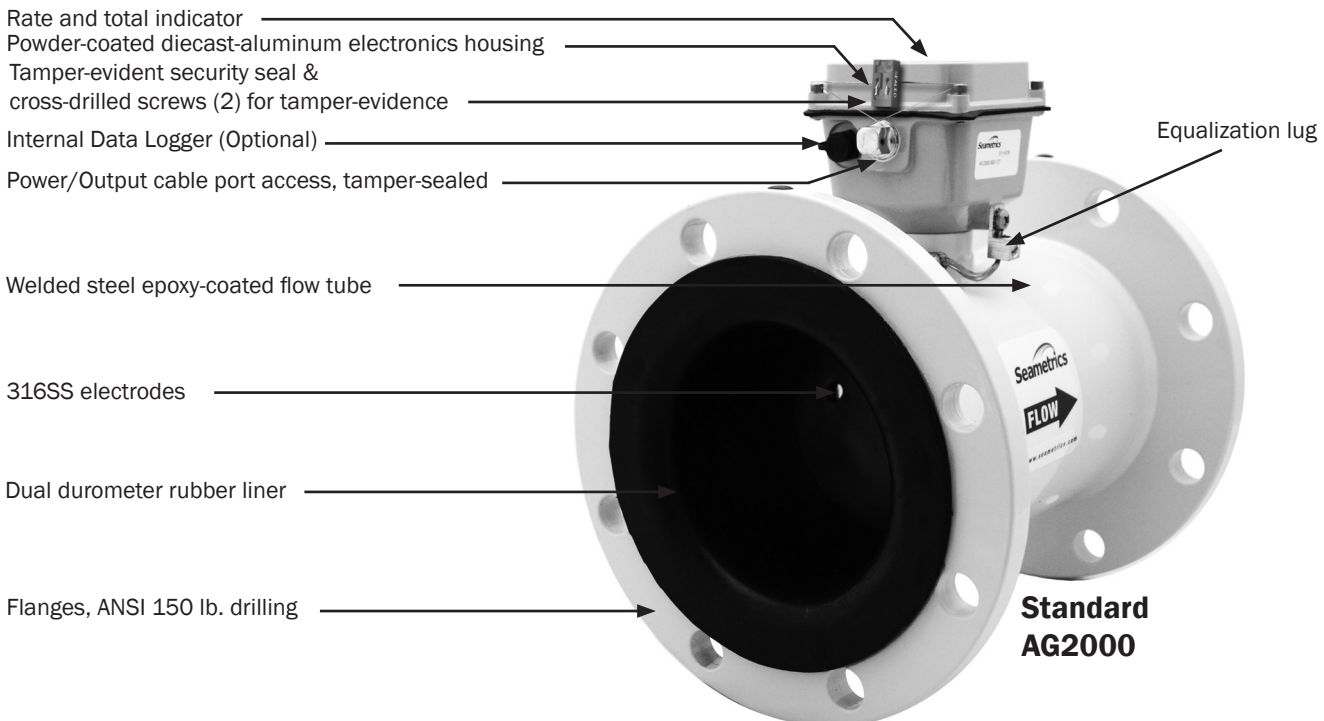
An IP68 version (-168 option) is available for burial or applications where the meter may be under water up to a depth of 3 meters for prolonged periods of time.

The meter comes with built-in pulse output (requires optional cable) for data logging or telemetry. Several pulse rates are available. An internal data logger is also available for secure flow logging (-127 option). A Seametrics FT415W or FT420W display can be added if remote rate/total reading is desired, or an AO55W if a (4-20 mA) analog signal is required. (High-frequency pulse rate is required for use with most Seametrics controllers.)

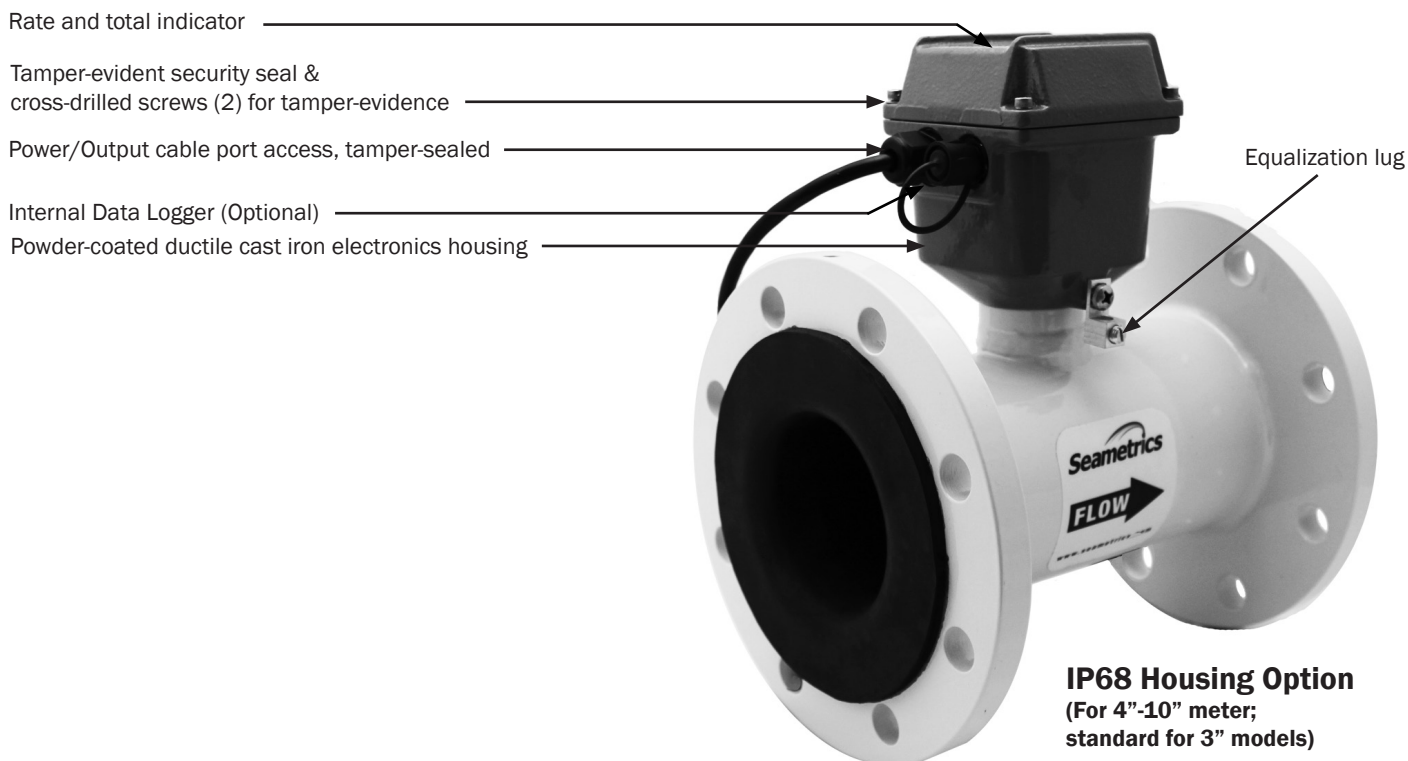
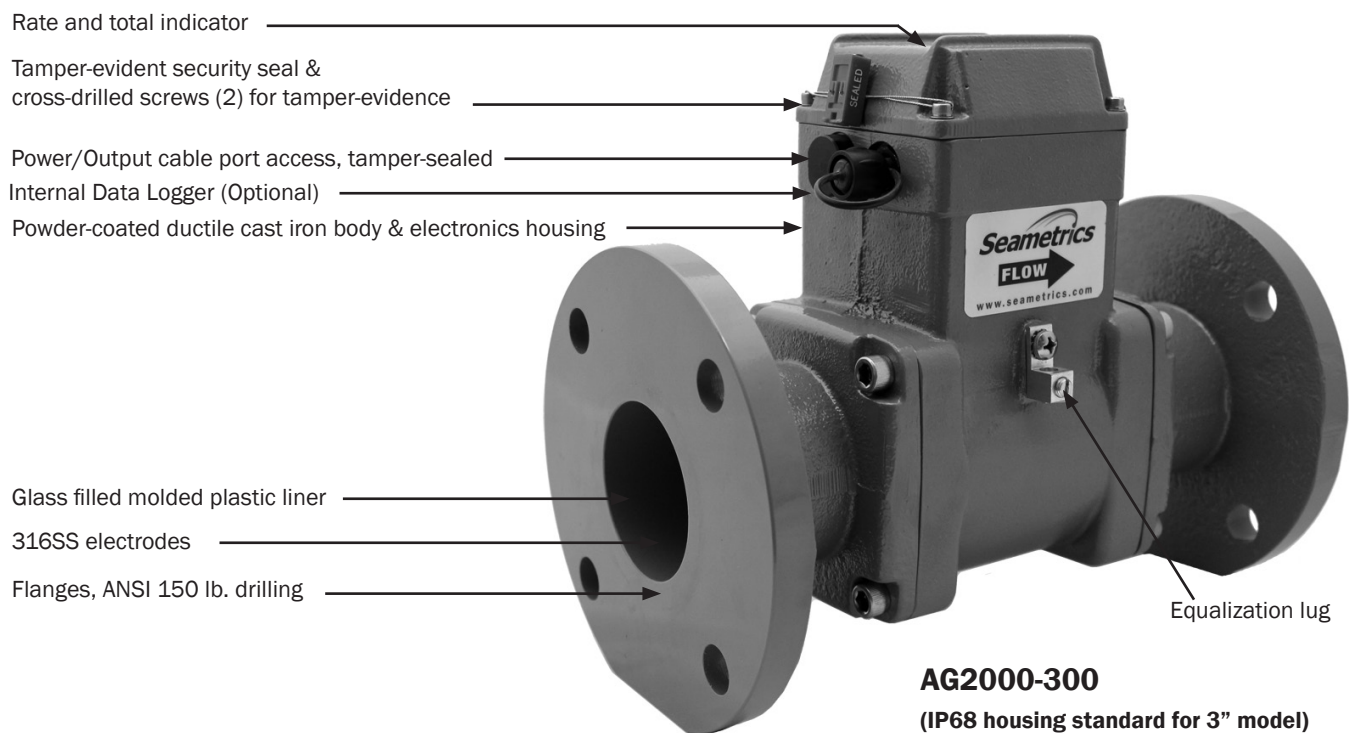
The AG2000 is secured with a seal wire to protect against unauthorized access. The seal can be broken by an authorized agent, to change units of measure, replace the battery pack, or to field-install an optional power/output cable. The cable can be factory or field-installed where external power is available and/or pulse output is needed. An accessory weather guard is available for additional protection in outdoor applications.

For chemigation applications, the chemical injection point must be placed downstream of the meter **OR** far enough upstream for **complete mixing** to occur before the flow reaches the meter. (See tech bulletin on Seametrics' website, www.seametrics.com).

FEATURES



FEATURES Continued





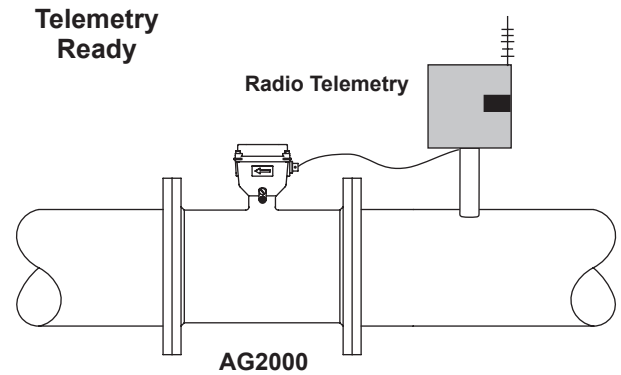
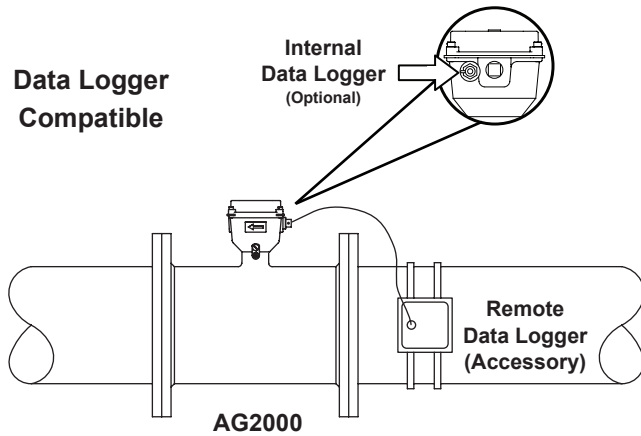
AG2000 Irrigation Magmeter

SPECIFICATIONS*

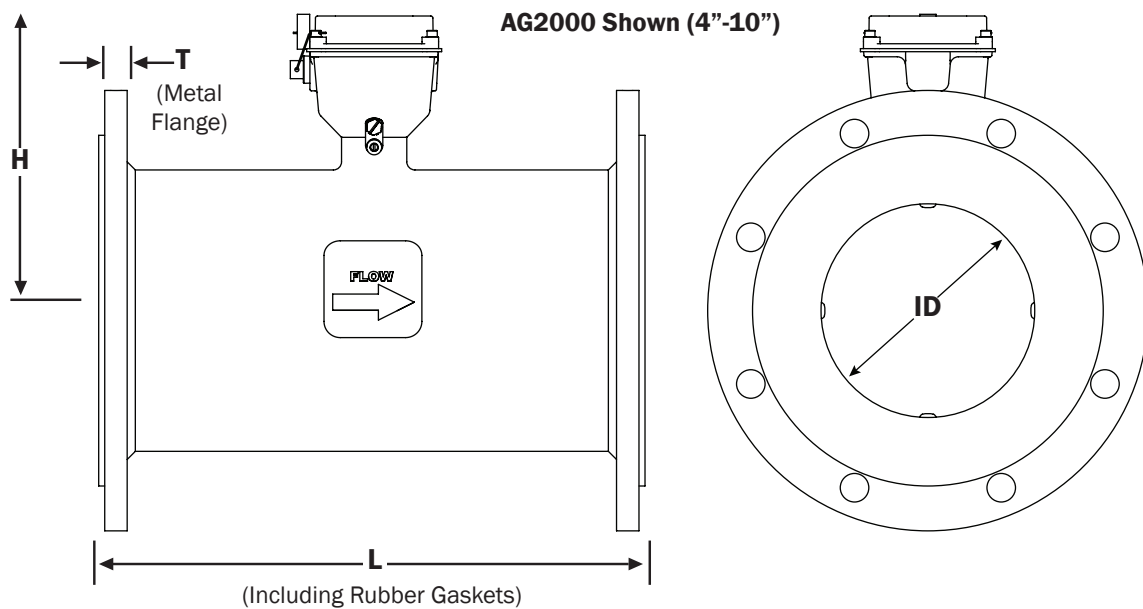
Pipe Sizes		3", 4", 6", 8", 10"	
Fittings		ANSI 150 lb. drilling	
Pressure		150 psi (10.3 bar) working pressure	
Temperature	Operating	10° to 130° F (-12° to 54° C)	
	Non-Operating	-40° to 158° F (-40° to 60° C)	
Accuracy		+/- 1% of reading for flow between 10% to 100% of max flow	
		+/- 2% of reading for flow from cutoff to 10% of max flow	
Materials	Body (3" Only)	Ductile cast iron, powder coated w/NSF61 listed epoxy powder	
	Body (4"-10")	Welded steel, epoxy-coated	
	Liner (3" Only)	Noryl®	
	Liner (4"-10")	Dual durometer rubber	
	Electronics Housing	Diecast aluminum, powder-coated (non-IP68)	Ductile Cast Iron (IP68)
	Electrodes	316 stainless steel	
	O-ring (3" Only)	EPDM	
Display		Rate	Total
	Digits	5	8
	Units	Gallon/Minute, Liter/Minute, Liter/Second, Cubic Feet/Minute, Cubic Meter/Hour, Million Gallon/Day, Mega Liter/Day	Gallon, Gallon x 1000, Liter, Liter x 1000, Mega Liter, Cubic Meters, Cubic Meter x 1000, Cubic Feet, Cubic Feet x 1000
Power		1 battery pack that contains 2 Lithium 3.6V "D" batteries, replaceable. Estimated life is 3-5 years depending on usage.	
		With external power option (uses 8-32 Vdc, 30 mA), Lithium batteries serve as backup in power failure (10 year life)	
Pulse Output (with optional cable)			
		Signal	Current sinking pulse, opto-isolated, 30 Vdc at 10 mA max
		Pulse Rates	High Frequency; 10 units/pulse; 100 units/pulse; 1000 units/pulse (for details, refer to AG2000 High Frequency Output Technical Bulletin on our website)
Conductivity		>20 microSiemens/cm	
Empty Pipe Detection		Hardware/software, conductivity-based	
Environmental		NEMA 4X Standard (IP68/NEMA 6P Option)	

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

OUTPUT CAPABILITIES



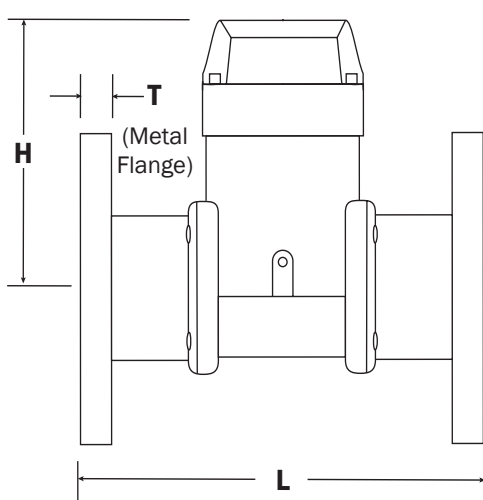
DIMENSIONS



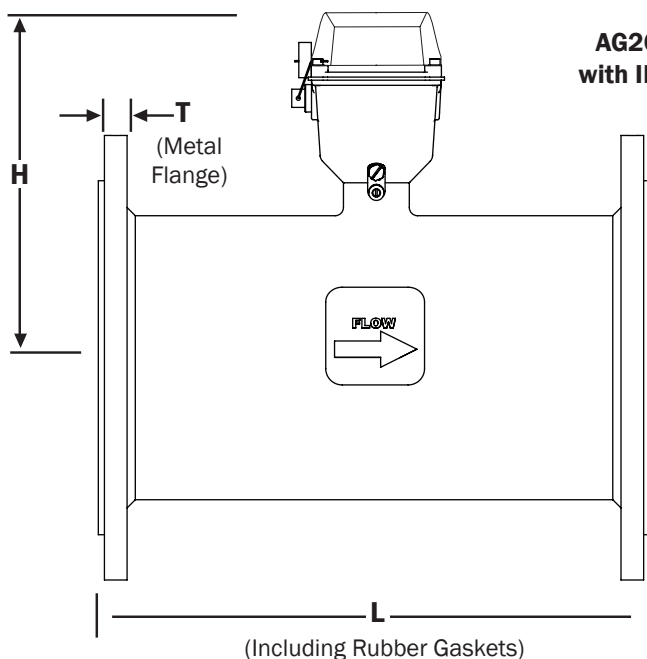
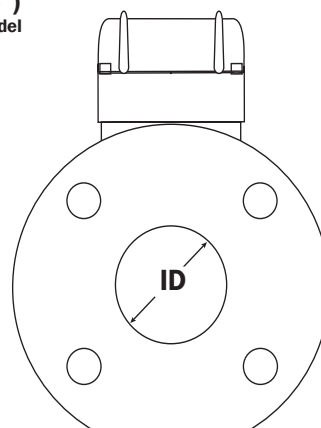
AG2000 (Standard Housing)

Standard AG2000 Meter Size	L		H		T		ID		Shipping Weight Standard	
	inch	mm	inch	mm	inch	mm	inch	mm	pounds	Kg
4"	10.24	260	7.0	178	.62	20.9	3.12	79.25	32	15
6"	12.27	312	8.1	206	.69	23.3	5.05	128.27	47	21
8"	14.24	362	9.1	231	.69	23.3	6.44	163.58	69	31
10"	18.18	462	10.1	257	.69	23.3	8.61	218.69	125	57
Flanges Standard ANSI 150 lb. drilling									Cable (WMX 101) 1 lb.	

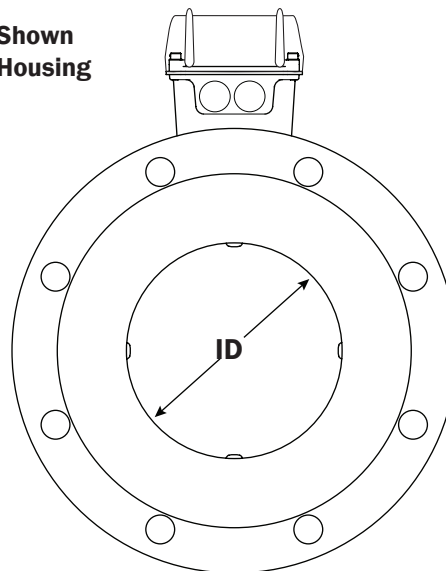
DIMENSIONS



AG2000-300 Shown (3")
IP68 housing standard for 3" model



**AG2000 Shown
with IP68 Housing**



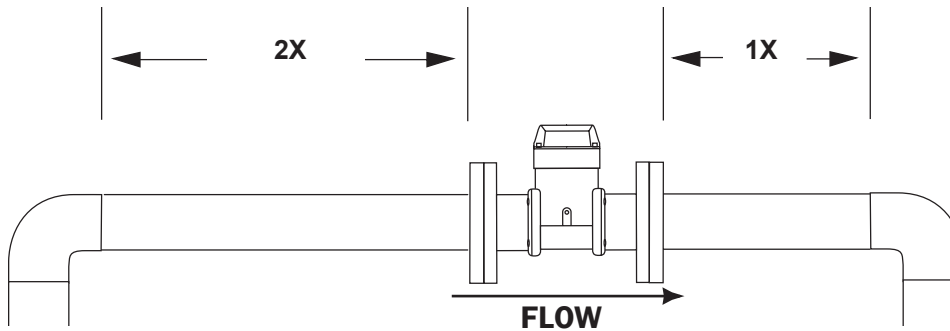
AG2000 with IP68 Housing (-168 option)

IP68 AG2000 Meter Size	L		H		T		ID		Shipping Weight IP68 Version	
	inch	mm	inch	mm	inch	mm	inch	mm	pounds	Kg
3"	12.0	305	6.80	173	.68	17.3	2.60	66.04	41	19
4"	10.24	260	8.12	206	.62	20.9	3.12	79.25	35	16
6"	12.27	312	9.22	234	.69	23.3	5.05	128.27	50	23
8"	14.24	362	10.22	260	.69	23.3	6.44	163.58	72	33
10"	18.18	462	11.22	285	.69	23.3	8.61	218.69	128	58
Flanges Standard ANSI 150 lb. drilling									Cable (WMX 101) 1 lb.	

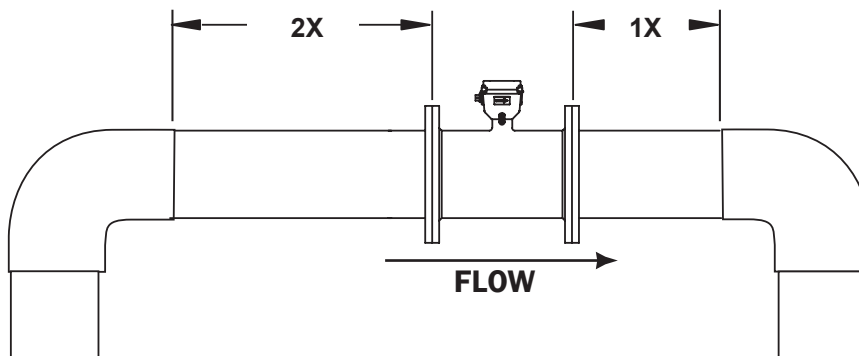
STRAIGHT PIPE RECOMMENDATIONS

(X = pipe diameter)

*Minimal straight pipe
required between elbows.
For other piping configurations,
consult factory.*



(X = pipe diameter)



FLOW RANGE (3" - 10")

Meter Size	3"		4"		6"		8"		10"	
	Gal/Min	Liter/Sec	Gal/Min	Liter/Sec	Gal/Min	Liter/Sec	Gal/Min	Liter/Sec	Gal/Min	Liter/Sec
Minimum	7.5	.47	12	.75	32	2	60	3.8	95	6
Maximum	700	44.2	1,000	63	2,400	151.4	4,400	277.6	7,000	441.6

HOW TO ORDER

MODEL	SIZE	OPTIONS	PULSE RATE (With Option -11)	UNITS
AG2000	3" = -300* 4" = -400 6" = -600 8" = -800 10" = -1000	Factory-Installed Power/Output Cable 6m (20 ft) = -11/6 Factory-Installed Power/Output Cable 15m (50 ft) = -11/15 Data Logger (internal) = -127 IP68 Submersible = -168	10 Units**/Pulse = -PxX 100 Units**/Pulse = -PxH 1000 Units**/Pulse = -PxK High Frequency = -HF	Gal/Min = GPM Liter/Min = LPM Cu Ft/Min = CFM Cu Meter/Hr = CMH Gal/Sec = GPS Liters/Sec = LPS Cu Ft/Sec = CFS Miner's In** = MI Cu Met/Min = CMM Gal = G Gal x 1000 = GT Liter = L Liter x 1000 = LT Mega Liters = ML Cubic Meters = CM Cu Met x 1000 = CMT Acre Feet = AF Cubic Feet = CF Cu Feet x 1000 = CFT Million Gal = MG Miner's Inch Day = MID Acre Inch = AI
	*-300 available in IP68 only		**Units = Gal or Liter depending on Rate/Total unit selection	Consult factory for additional units Any rate selection can be combined with any total selection ** 1 Miner's Inch = 1.2 CFM

ACCESSORIES

Remote 4-20 mA (analog) signal = **AO55W**

Remote Rate and Total Indicator (Battery) = **FT415W***

Remote Rate and Total Indicator (Powered) = **FT420W***

Remote Data Logger = **DL76W**

Dual Power Supply, 115 Vac, 12/24 Vdc = **PC42**
(Use with High Frequency pulse rate)

Replacement Battery Pack = **31126**

Weather Guard = **31388**

Post-Factory 20-ft. Power/Output Cable
(Standard Housing Only) = **DC30**

Post-Factory 50-ft. Power/Output Cable
(Standard Housing Only) = **DC35**

Post-Factory 20-ft. Power/Output Cable
(IP68 Housing Only) = **DC30S**

Post-Factory 50-ft. Power/Output Cable
(IP68 Housing Only) = **DC35S**

Grounding Rings
(not needed for most applications):

3" = **33508**

4" = **31090**

6" = **31091**

8" = **31092**

10" = **31093**

*Consult customer service to determine the appropriate indicator based on the distance it will be installed from the meter.

CONTACT YOUR SUPPLIER