

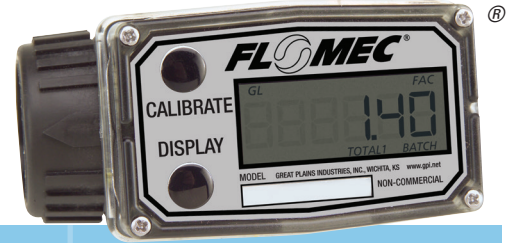
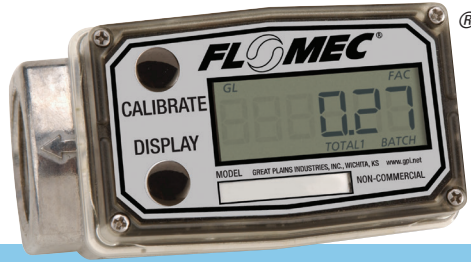
# A1 Commercial Grade Meters

A1 SERIES

FLOMEC® Commercial Grade Meters are identified by an A1 prefix. Commercial Grade Meters are packaged as a self-contained unit. Select this meter when you

need an accurate, basic meter. GPI Commercial Grade Meters come in Aluminum or Nylon housing material.

Choose one of three sizes of Aluminum meters for petroleum products. Use the Nylon meters for water or non-aggressive chemicals.



"Look for the silver label!"

	ALUMINUM			NYLON	
	A025 (Low Flow)	A100 (1 inch)	A200 (2 inch)	N025 (Low Flow)	N100 (1 inch)
<b>Design Type:</b>	Paddlewheel	Turbine	Turbine	Paddlewheel	Turbine
<b>Housing Material:</b>	Aluminum	Aluminum	Aluminum	Nylon	Nylon
<b>Fitting Size:</b>	1 inch	1 inch	2 inch	1 inch	1 inch
<b>Fitting Type:</b>	NPT, ISO♦ or BSPP(female)	NPT, ISO♦ or BSPP(female)	NPT or ISO♦ (female)	NPT or ISO♦ (female)	NPT or ISO♦ (female)
<b>Flow Range (GPM):</b>	0.3 - 3 GPM	3 - 50 GPM	30 - 300 GPM	0.3 - 3 GPM	3 - 50 GPM
<b>Flow Range (LPM):</b>	1 - 11 LPM	11 - 190 LPM	114 - 1,135 LPM	1 - 11 LPM	11 - 190 LPM
<b>Accuracy:</b>	Application Dependent*	± 1.5% of reading	± 1.5% of reading	Application Dependent*	± 1.5% of reading
<b>Repeatability:</b>	± 1%	± 0.2%	± 0.2%	± 1%	± 0.2%
<b>Pressure Rating:</b>	300 PSI / 21 BAR	300 PSI / 21 BAR	300 PSI / 21 BAR	150 PSI / 10.2 BAR	150 PSI / 10.2 BAR
<b>Operating Temperature Range:</b>	-40° F to +250° F (-40° C to +121° C)	-40° F to +250° F (-40° C to +121° C)	-40° F to +250° F (-40° C to +121° C)	-40° F to +250° F (-40° C to +121° C)	-40° F to +250° F (-40° C to +121° C)
<b>with Display:</b>	0° F to +140° F (-18° C to +60° C)	0° F to +140° F (-18° C to +60° C)	0° F to +140° F (-18° C to +60° C)	0° F to +140° F (-18° C to +60° C)	0° F to +140° F (-18° C to +60° C)
<b>Wetted Material - Housing:</b>	Aluminum	Aluminum	Aluminum	Nylon	Nylon
<b>Bearings:</b>	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
<b>Shaft:</b>	Tungsten Carbide	Tungsten Carbide	Tungsten Carbide	Tungsten Carbide	Tungsten Carbide
<b>Rotor:</b>	Nylon	Nylon	Nylon	Nylon	Nylon
<b>Signal Generators:</b>	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
<b>Rings:</b>	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
<b>Typical K-Factor:</b>	2200 PPG / 581 PPL	730 PPG / 193 PPL	72 PPG / 19 PPL	2200 PPG / 581 PPL	730 PPG / 193 PPL
<b>Frequency Range:</b>	11 - 110 Hz @ 0.3 - 3 GPM	36.5 - 608.3 Hz @ 3 - 50 GPM	36 - 360 Hz @ 30 - 300 GPM	11 - 110 Hz @ 0.3 - 3 GPM	36.5 - 608.3 Hz @ 3 - 50 GPM
<b>Recommended Strainer Size:</b>	55 mesh	28 mesh	28 mesh	55 mesh	28 mesh
<b>Shipping Weight:</b>	1.35 lbs. (0.61 kg)	1.35 lbs. (0.61 kg)	3.0 lbs. (1.36 kg)	1.0 lbs. (0.5 kg)	1.0 lbs. (0.5 kg)
<b>Local Display:</b>	09 Display (See page 41)	09 Display (See page 41)	09 Display (See page 41)	09 Display (See page 41)	09 Display (See page 41)
<b>Calibration Report</b>	Comes standard with A1 Series Meters. N.I.S.T. – Certification available.				

\* Accuracy can vary up to ± 5% depending on installation and fluid type. Field Calibration is recommended for best accuracy.

♦ ISO 7 Designation is RC.

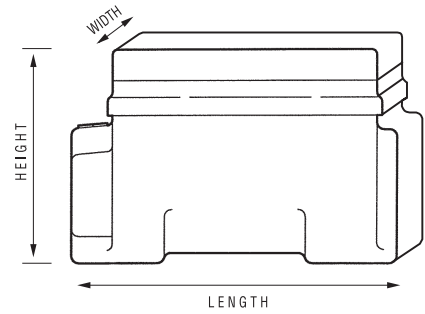
## APPROVALS



Authorized GPI Distributor

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## A1 Series Meters












Model	Length inches (mm)	Height inches (mm)	Width inches (mm)
A025	4.0 (102)	2.5 (63)	2.0 (51)
A100	4.0 (102)	2.5 (63)	2.0 (51)
A200	6.0 (152)	4.5 (114)	3.0 (76)
N025	4.0 (102)	2.5 (63)	2.0 (51)
N100	4.0 (102)	2.5 (63)	2.0 (51)

At Great Plains Industries, we've been building rugged, reliable, liquid flowmeters for over 35 years. The GPI Industrial Meter family includes a full line of Precision and Industrial Turbine meters plus Oval Gear meters in various materials, sizes and fitting options.

We design products to meet the needs of our customers. This includes maintaining appropriate, industry standard approvals. Approvals vary by product line and may be dependent on meter application.

The Approval symbol is listed under product specifications on individual product pages. If no approval mark is found, check the chart to the right. For details about specific "Approvals" refer to the chart.

<b>3-A</b>	<b>3-A Sanitary Standards, Inc.</b> "Flowmeters for Milk and Milk Products, Number 28-03" for GSCPS Models and L Option Meters.
<b>ATEX</b> 	<b>Ex II 1 G</b> Per 94/9/EC.
	Product reviewed for EMC Directive 2004/108/EC. Includes: Euro Norms 61000-6-2 (2005) and 61000-6-3 (2007) on A1 and G2 Series Meters. Note: For <b>Oval Gear Meters</b> , the CE Approval is applied when meter is part of a system.
	<b>Factory Mutual Approved</b> Intrinsically Safe for Class I, II, III, Division 1, All Groups. Nonincendive for Class I, II, III, Division 2 Groups A, B, C, D, F, G.
	<b>Factory Mutual Approved</b> Class 1, Div. 1, Group D (01A31GM Only)
	<b>Factory Mutual Approved</b> Intrinsically safe for Class I & II, Div. 1, Groups A, B, C, D, E, F & G, T6 Ta=-40° C to 60° C hazardous locations, and for use in Class I, Zone 0 as Ex is IIC T6 Ta=-40° C to 60° C.
	<b>Federal Communication Commission</b> Industry Canada Approval Class B; digital service, part 15 of FCC Rules.
	<b>Ex ia IIC T6 Ta=60° C</b>
<b>IP44/IP54/IP66</b>	<b>Ingress Protection Code</b> IP44 (Greater than 1 mm and splashed water); IP54 (Dust protected and splashed water); IP66 (Dust-tight and heavy seas).
<b>IP/NEMA</b>	Pulse versions of <b>Oval Gear Meters</b> have enclosure ratings that vary from IP54 / NEMA 13 to IP66 / NEMA 16 depending on the application.
<b>NEMA</b> <b>4</b>	NEMA Requirements: Enclosure constructed for indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment. Protection against falling dirt, rain, sleet, snow, windblown dust, splashing or hose directed water that will be undamaged by the external formation of ice on the enclosure. <i>GPI products are tested to NEMA requirements.</i>
	Restriction of Hazardous Substances Directive 2002/95/EC and 2011/65/EU
	Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.