

Model GSCPS

Standard Sanitary Clamp

**Model GSCPS**

Low Profile Sanitary Clamp



For complete part number, see
"Meter Number Reference" for this section.

ACCURACY: $\pm 0.5\%$

***GSCPS Stainless Steel
Precision Turbine Meter***

**Select Your Meter Size:**

- 1 inch Meter with 1-1/2 inch Fitting
- 1-1/2 inch Meter with 1-1/2 inch Fitting
- 2 inch Meter with 2 inch Fitting

SPECIFICATIONS

Design Type:	Turbine	
Housing Material:	316 Stainless Steel	
Meter Sizes Available (ID):	1" 1-1/2" 2"	
Meter ID:	1"	1-1/2" Fitting
	1-1/2"	1-1/2" Fitting
	2"	2" Fitting
Flow Range:	1" (100)	6.7 - 67 GPM (25.2 - 252 LPM)
	1-1/2" (150)	17.7 - 177 GPM (67.0 - 670 LPM)
	2" (200)	33 - 330 GPM (125.0 - 1250 LPM)
Accuracy (Linearity):	$\pm 0.5\%$	
Repeatability:	$\pm 0.1\%$	
Pressure Rating:	Limited by fitting size, clamp size & temp.	
Operating Temperature Range:		
For GSCPS:	-100° F to +225° F (-74° C to +107° C)	
SIP (up to 1 hour):	+285° F (+140° C)	
Typical K-Factor:	1" (100)	896 PPG / 237 PPL
	1-1/2" (150)	340 PPG / 90 PPL
	2" (200)	181 PPG / 48 PPL
Wetted Materials (SIP):		
Housing:	316 Stainless Steel	
Bearings & Bushings:	PEEK	
Shaft:	316 Stainless Steel	
Rotor:	CD4MCu Stainless Steel (Nickel Plated)	
Rotor Supports:	316 Stainless Steel	
Retaining Rings:	300 Series Stainless Steel	
Recommended Strainer Size:		
	1"	40 mesh
	1-1/2"	18 mesh
	2"	14 mesh
Frequency Output:	1" (100)	100 - 1000 Hz
	1-1/2" (150)	100 - 1000 Hz
	2" (200)	100 - 1000 Hz
Calibration Report	Comes standard with G Series meters. N.I.S.T. – Certification available.	

APPROVALS

GSCPS & "L" Option Meters carry a



Sanitary Rating.

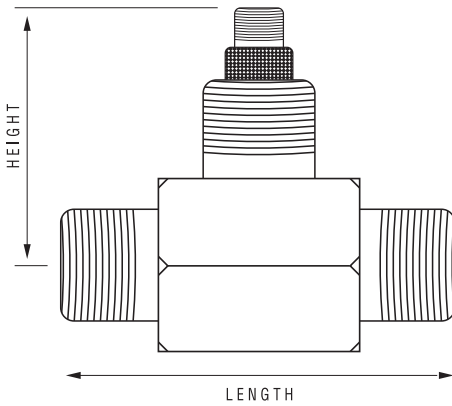
Flowmeters for milk and milk products, Number 28-04.



This meter meets the strict 3-A Sanitary Standards using the new "Third Party Verification" (TPV) program. Our methods of design, construction and traceability of components have been reviewed and approved.

The internals of this meter are machined or polished to meet 3-A self-draining and cleaning requirements (Ra 32). The GSCPS Meter meets Clean in Place (CIP), Steam in Place (SIP) and Clean Out of Place (COP) requirements.

G Series Precision Meters












Size	NPT		Sanitary Clamp		Flanged*	
	Length inches (mm)	Height inches (mm)	Length inches (mm)	Height inches (mm)	Length inches (mm)	Height inches (mm)
1/2 in.	2.75 (70)	2.56 (65)	2.75 (70)	2.56 (65)	—	—
3/4 in.	3.25 (82)	2.62 (66)	3.25 (82)	2.62 (66)	5.50 (140)	2.00 (51)
1 in.	3.56 (90)	2.75 (70)	3.56 (90)	2.75 (70)	5.50 (140)	2.12 (54)
1-1/2 in.	4.59 (116)	3.00 (76)	4.59 (116)	3.00 (76)	6.00 (152)	2.50 (63)
2 in.	6.06 (154)	3.25 (82)	6.06 (154)	3.25 (82)	6.50 (165)	3.00 (76)
3 in.	10.00 (254)	3.50 (89)	—	—	10.00 (254)	3.75 (95)

* Height on flange meters, measures from center line to top of flange.

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.

<p>3-A</p>	<p>3-A Sanitary Standards, Inc. "Flowmeters for Milk and Milk Products, Number 28-03" for GSCPS Models and L Option Meters.</p>
<p>ATEX </p>	<p>Ex II 1 G Per 94/9/EC.</p>
<p></p>	<p>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 Oval Gear Meters, the CE Approval is applied when meter is part of a system.</p>
<p></p>	<p>Factory Mutual Approved 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.</p>
<p></p>	<p>Factory Mutual Approved Class 1, Div. 1, Group D (01A31GM Only)</p>
<p></p>	<p>Factory Mutual Approved 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.</p>
<p></p>	<p>Federal Communication Commission Industry Canada Approval Class B; digital service, part 15 of FCC Rules.</p>
<p></p>	<p>Ex ia IIC T6 Ta=60° C</p>
<p>IP44/IP54/IP66</p>	<p>Ingress Protection Code IP44 (Greater than 1 mm and splashed water); IP54 (Dust protected and splashed water); IP66 (Dust-tight and heavy seas).</p>
<p>IP/NEMA</p>	<p>Pulse versions of Oval Gear Meters have enclosure ratings that vary from IP54 / NEMA 13 to IP66 / NEMA 16 depending on the application.</p>
<p>NEMA 4</p>	<p>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></p>
<p></p>	<p>Restriction of Hazardous Substances Directive 2002/95/EC and 2011/65/EU</p>
<p></p>	<p>Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.</p>