

# GM Series Oval Gear Meters

*GM Series Oval Gear Meters are designed for low flow and high accuracy. GM Series Meters are great for viscous fluids. Units are available with pulse output from either a Reed Switch or Hall Effect Sensor.*

*Electronics choices for the GM Series Meters are covered in Section 6.*





# Build-Your-Own GM Oval Gear Meter

## 1) Select Your GM Meter

GM Meters come in a variety of sizes and materials.



**Pulse Meter**



**Mechanical Meter**



## 2) Select Your Sensor

**Reed Switch**  
(Standard)

**Hall Effect**  
Requires Dedicated Power Source



## 3) Select Your Electronics Choice

For further details and selections see Electronics Section on page 58.



**GA500**  
4-20 mA Output  
Without Display (Remote)



**GG510**  
Local Display  
With Pulse Output



**GX500**  
Display 4-20 mA Output  
(Remote)



**Pulse Output**

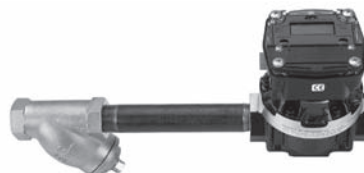


## 4) Need a Strainer?

Oval Gear Meters work best with clean fluid, free of debris.

GPI carries Y Strainers to fit all models of Oval Gear Meters. These strainers range from 1/4 in. to 2 in. models.

All sizes come complete with blow-off and plug. See page 73 for strainer specifications.



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# GM Series Meter Number Reference

## Product Identifier

- GM001** = Pulse Meter - 1/8 inch
- GM002** = Pulse Meter - 1/4 inch
- GM003** = Pulse Meter - 1/4 inch
- GM005** = Pulse Meter - 1/2 inch
- GM505** = Mechanical Meter - 1/2 inch
- GM006** = Pulse Meter - 3/4 inch
- GM007** = Pulse Meter - 1 inch
- GM010** = Pulse Meter - 1 inch
- GM510** = Mechanical Meter - 1 inch
- GM015** = Pulse Meter - 1-1/2 inch
- GM515** = Mechanical Meter - 1-1/2 inch
- GM020** = Pulse Meter - 2 inch
- GM520** = Mechanical Meter - 2 inch

## Body Material

- A** = Aluminum (All models except GM007)
- B** = Bronze (Models GM010, GM015 & GM510)
- C** = PPS w/Hastalloy C Shafts (Model GM007 only)
- H** = High Pressure Stainless Steel (Models GM002 & GM003)
- I** = Intermediate Pressure Stainless Steel (Models GM001, GM002 & GM003)
- R** = PPS (Models GM002, GM003 & GM007)
- S** = Stainless Steel (All models except GM006 & GM007)

GM Series dimensions listed on page 70.

## Fitting Type

- 1** = BSP (Female) Litre
- 2** = NPT (Female) Gallon
- 3** = NPT (Female) Litre (Models GM505, GM510, GM515 & GM520)
- 4** = 150# ANSI Flange Gallon (Models GM010, GM015, GM020, GM510, GM515, GM520 Aluminum & S.S. only)
- 5** = 150# ANSI Flange Litre (Models GM510, GM515, GM520 Aluminum & S.S. only)
- 6** = Tri-Clover® Fitting Gallon (Models GM010, GM015 S.S. only)

## Sensor

- H** = Hall Effect (Models GM001, GM002, GM003, GM005, GM006, GM007, GM010, GM015 & GM020)
- M** = Mechanical Display (Models GM505, GM510, GM515 & GM520 only)
- R** = Reed Switch (Models GM001, GM002, GM003, GM005, GM006, GM007, GM010, GM015 & GM020)

## Rotor Materials

- 2** = PPS (Models GM002\*, GM003\*, GM005, GM006, GM007\*, GM010, GM015, GM020, GM505, GM510, GM515 & GM520)
- 3** = High Viscosity PPS (Models GM005, GM010, GM015, GM020, GM505, GM510, GM515 & GM520)
- 4** = Stainless Steel (Models GM001, GM002, GM003, GM005, GM010, GM015, GM020, GM510, GM515 & GM520)
- 5** = High Viscosity S.S. (Models GM003, GM005, GM010, GM015, GM020, GM510, GM515 & GM520)

## O-Ring

- 1** = Fluorocarbon
- 2** = PTFE

## Electronics Choice

- 1** = Pulse Out - Aluminum (Models GM001, GM002, GM003, GM005, GM010, GM015 & GM020)
- 2** = Pulse Out - S.S. (Models GM001, GM002, GM003, GM005, GM010, GM015 & GM020)
- 3** = Pulse Out - Bronze (Models GM010 & GM015)
- 4** = Pulse Out - PPS (Models GM002, GM003 & GM007)
- 5** = GG500 - Standard Display (Models GM001, GM002, GM003, GM005, GM006, GM007, GM010, GM015 & GM020)
- 6** = GX500 - 4-20 mA Transmitter with Display (Models GM001, GM002, GM003, GM005, GM006, GM007, GM010, GM015 & GM020)
- 7** = GA500 - 4-20 mA Transmitter (Models GM001, GM002, GM003, GM005, GM006, GM007, GM010, GM015 & GM020)
- 9** = Mechanical (Models GM505, GM510, GM515 & GM520)

**GM001 + A + 2 + R + 4 + 1 + 1**

(Sample Model Number)

\* Requires PPS body material.

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# GM001 - 1/8" Oval Gear Pulse Meter



Shown here with Local Display

The GM001 is one of three compact meters in the Oval Gear Meter line. This meter is small and accurate. Choose from either Aluminum or 316 Stainless Steel body materials, both with stainless steel rotors. The GM001 can handle a wide range of fluid viscosities.

**ACCURACY: ± 1.0% OF READING**

### Select Your Body Material:

Aluminum

Stainless Steel

Intermediate Pressure Stainless Steel



### Features and Benefits:

- ✓ Up to 1,000 cps viscosity.
- ✓ Compact, durable and serviceable on-site. Extremely accurate even with viscous fluids.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Handles particles sizes to 0.005"/0.127 mm.
- ✓ Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- ✓ Choose from a variety of Output and Display Options.
- ✓ Certificate of Accuracy supplied with meter.

### GM001 - SPECIFICATIONS

Fitting Type:	BSP or NPT (Female)
Sensor Options:	Reed Switch or Hall Effect Sensor*
Rotor Material:	316 Stainless Steel
O-Ring:	Fluorocarbon (Std.), Perfluoroelastomer (Optional)
Output Options:	Pulse Out or Local 4-20 mA Transmitter
Display Options:	Local Display Local Display with 4-20 mA Output
Flow Range:	0.13 - 13.2 GPH (0.5 - 50 LPH)
Flow Range @ < 5 cps:	0.528 - 13.2 GPH (2 - 50 LPH)
Accuracy:	± 1.0% of reading
Repeatability:	± 0.03%
Maximum Viscosity:	1,000 cps
Pressure Rating:	
Aluminum:	75 PSI / 5 BAR
Stainless Steel:	150 PSI / 10 BAR
Intermed. Pressure SS:	800 PSI / 55 BAR
Maximum Temperature:	
Aluminum:	176°F / 80°C
Stainless Steel:	248°F / 120°C
Intermed. Pressure SS:	248°F / 120°C
Typical K-Factor:	5855.4 PPG / 1547 PPL
Wetted Mat'l. - Housing:	
Aluminum:	Aluminum with PPS Cap
Stainless Steel:	316 Stainless Steel
Intermed. Pressure SS:	316 Stainless Steel
Wetted Mat'l. - Bearings:	Sapphire
Wetted Mat'l. - Shaft:	316 Stainless Steel
Frequency Range:	0.2 - 21.5 Hz @ 0.13 - 13.2 GPH
Recommended Strainer Size:	200 mesh
Shipping Weight (approx.):	
Aluminum:	1.0 lbs. (0.45 kg)
Stainless Steel:	2.0 lbs. (0.91 kg)
Intermed. Pressure SS:	2.0 lbs. (0.91 kg)
Remote Display:	Option Available: Model GG500
Remote Transmitter:	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

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# GM002 - 1/4" Oval Gear Pulse Meter



The GM002 is one of the small capacity meters in the GM Series line and is differentiated by its flowrate capabilities. It has the ability to handle a wide range of fluid viscosities with exceptional levels of repeatability and durability.

**ACCURACY: ± 1.0% OF READING**

### Select Your Body Material:

- Aluminum
- PPS
- Stainless Steel
- High Pressure Stainless Steel
- Intermediate Pressure Stainless Steel



### Features and Benefits:

- ✓ Up to 1,000 cps viscosity.
- ✓ Compact size and extremely accurate even with viscous fluids.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Handles particles sizes to 0.005"/0.127 mm.
- ✓ Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- ✓ Durable and serviceable on-site.
- ✓ Certificate of Accuracy supplied with meter.

### GM002 - SPECIFICATIONS

<b>Fitting Type:</b>	BSP or NPT (Female)
<b>Sensor Options:</b>	Reed Switch or Hall Effect Sensor*
<b>Rotor Material:</b>	PPS or 316 Stainless Steel
<b>O-Ring:</b>	Fluorocarbon (Std.), Perfluoroelastomer (Optional)
<b>Output Options:</b>	
<b>Aluminum:</b>	Pulse Out or Local 4-20 mA Transmitter
<b>PPS:</b>	Pulse Out or Local 4-20 mA Transmitter
<b>Stainless Steel:</b>	Pulse Out or Local 4-20 mA Transmitter
<b>High Pressure SS:</b>	Pulse Out
<b>Intermed. Pressure SS:</b>	Pulse Out or Local 4-20 mA Transmitter
<b>Display Options:</b>	Local Display Local Display with 4-20 mA Output
<b>Flow Range:</b>	0.53 - 26.4 GPH (2 - 100 LPH)
<b>Flow Range @ &lt; 5 cps:</b>	1.32 - 26.4 GPH (5 - 100 LPH)
<b>Accuracy:</b>	± 1.0% of reading
<b>Repeatability:</b>	± 0.03%
<b>Maximum Viscosity:</b>	1,000 cps
<b>Pressure Rating:</b>	
<b>Aluminum:</b>	75 PSI / 5 BAR
<b>PPS:</b>	75 PSI / 5 BAR
<b>Stainless Steel:</b>	150 PSI / 10 BAR
<b>High Pressure SS:</b>	8,000 PSI / 544 BAR
<b>Intermed. Pressure SS:</b>	800 PSI / 55 BAR
<b>Maximum Temperature:</b>	
<b>Aluminum:</b>	176°F / 80°C
<b>PPS:</b>	176°F / 80°C
<b>Stainless Steel:</b>	248°F / 120°C
<b>High Pressure SS:</b>	248°F / 120°C
<b>Intermed. Pressure SS:</b>	248°F / 120°C
<b>Typical K-Factor:</b>	3785.4 PPG / 1000 PPL
<b>Wetted Mat'l. - Housing:</b>	
<b>Aluminum:</b>	Aluminum with PPS Cap
<b>PPS:</b>	PPS
<b>Stainless Steel:</b>	316 Stainless Steel
<b>High Pressure SS:</b>	316 Stainless Steel
<b>Intermed. Pressure SS:</b>	316 Stainless Steel
<b>Wetted Mat'l. - Bearings:</b>	
<b>Aluminum:</b>	Bronze
<b>PPS Rotor:</b>	N/A
<b>Stainless Steel:</b>	Ceramic
<b>High Pressure SS:</b>	Ceramic
<b>Intermed. Pressure SS:</b>	Ceramic
<b>Wetted Mat'l. - Shaft:</b>	
<b>Aluminum:</b>	316 Stainless Steel
<b>PPS:</b>	Hastalloy C / Stainless Steel
<b>Stainless Steel:</b>	316 Stainless Steel
<b>High Pressure SS:</b>	316 Stainless Steel
<b>Intermed. Pressure SS:</b>	316 Stainless Steel
<b>Frequency Range:</b>	0.6 - 27.8 Hz @ 0.53 - 26.4 GPH
<b>Recommended Strainer Size:</b>	200 mesh
<b>Shipping Weight (approx.):</b>	Aluminum/PPS = 1 lb. (0.45 kg), High Pressure Stainless Steel = 8 lbs. (3.63 kg), SS/Intermediate Pressure SS = 2 lbs. (0.91 kg)
<b>Remote Display:</b>	Option Available: Model GG500
<b>Remote Transmitter:</b>	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

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# GM003 - 1/4" Oval Gear Pulse Meter



The GM003 is another of the GPI compact pulse meters. This 1/4-inch Pulse Meter has an increased flow range and offers the same ability to handle a wide range of fluid viscosities with exceptional levels of repeatability.

**ACCURACY: ± 1.0% OF READING**

### Select Your Body Material:

- Aluminum
- PPS
- Stainless Steel
- High Pressure Stainless Steel
- Intermediate Pressure Stainless Steel



### Features and Benefits:

- ✓ Up to 1,000 cps viscosity with standard rotor; 1,000,000 cps with high viscosity rotor.
- ✓ Compact size and extremely accurate even with viscous fluids.
- ✓ High viscosity stainless steel rotor available.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Handles particles sizes to 0.005"/0.127 mm.
- ✓ Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- ✓ Choose from a variety of Output and Display Options.
- ✓ Certificate of Accuracy supplied with meter.

### GM003 - SPECIFICATIONS

<b>Fitting Type:</b>	BSP or NPT (Female)
<b>Sensor Options:</b>	Reed Switch or Hall Effect Sensor*
<b>Rotor Materials:</b>	PPS, 316 Stainless Steel or High Viscosity SS
<b>O-Ring:</b>	Fluorocarbon (Std.), Perfluoroelastomer (Optional)
<b>Output Options:</b>	
<b>Aluminum:</b>	Pulse Out or Local 4-20 mA Transmitter
<b>PPS:</b>	Pulse Out or Local 4-20 mA Transmitter
<b>Stainless Steel:</b>	Pulse Out or Local 4-20 mA Transmitter
<b>High Pressure SS:</b>	Pulse Out
<b>Intermed. Pressure SS:</b>	Pulse Out or Local 4-20 mA Transmitter
<b>Display Options:</b>	Local Display or Local Display w/4-20 mA Output
<b>Flow Range:</b>	4 - 132 GPH (15 - 500 LPH)
<b>Flow Range @ &lt; 5 cps:</b>	6 - 132 GPH (25 - 500 LPH)
<b>Accuracy:</b>	± 1.0% of reading
<b>Repeatability:</b>	± 0.03%
<b>Maximum Viscosity:</b>	Standard Rotors: 1,000 cps High Viscosity Rotors: 1,000,000 cps
<b>Pressure Rating:</b>	
<b>Aluminum:</b>	75 PSI / 5 BAR
<b>PPS:</b>	75 PSI / 5 BAR
<b>Stainless Steel:</b>	150 PSI / 10 BAR
<b>High Pressure SS:</b>	8,000 PSI / 544 BAR
<b>Intermed. Pressure SS:</b>	800 PSI / 55 BAR
<b>Maximum Temperature:</b>	
<b>Aluminum:</b>	176°F / 80°C
<b>PPS:</b>	176°F / 80°C
<b>Stainless Steel:</b>	248°F / 120°C
<b>High Pressure SS:</b>	248°F / 120°C
<b>Intermed. Pressure SS:</b>	248°F / 120°C
<b>Typical K-Factor:</b>	1514.2 PPG / 400 PPL
<b>Wetted Mat'l. - Housing:</b>	
<b>Aluminum:</b>	Aluminum with PPS Cap
<b>PPS:</b>	PPS
<b>Stainless Steel:</b>	316 Stainless Steel
<b>High Pressure SS:</b>	316 Stainless Steel
<b>Intermed. Pressure SS:</b>	316 Stainless Steel
<b>Wetted Mat'l. - Bearings:</b>	
<b>Aluminum:</b>	Bronze
<b>PPS Rotor:</b>	N/A
<b>Stainless Steel:</b>	Ceramic
<b>High Pressure SS:</b>	Ceramic
<b>Intermed. Pressure SS:</b>	Ceramic
<b>Wetted Mat'l. - Shaft:</b>	
<b>Aluminum:</b>	316 Stainless Steel
<b>PPS:</b>	Hastalloy C / Stainless Steel
<b>Stainless Steel:</b>	316 Stainless Steel
<b>High Pressure SS:</b>	316 Stainless Steel
<b>Intermed. Pressure SS:</b>	316 Stainless Steel
<b>Frequency Range:</b>	1.7 - 55.5 Hz @ 4 - 132 GPH
<b>Recommended Strainer Size:</b>	200 mesh
<b>Shipping Weight (approx.):</b>	Aluminum/PPS = 1 lb. (0.45 kg), High Pressure Stainless Steel = 8 lbs. (3.63 kg), SS/Intermediate Pressure SS = 2 lbs. (0.91 kg)
<b>Remote Display:</b>	Option Available: Model GG500
<b>Remote Transmitter:</b>	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

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# GM005 - 1/2" Oval Gear Pulse Meter



The GM005 Meter is a low to medium flow range model. The construction of this meter allows for fast and easy servicing while installed.

**ACCURACY: ± 0.5% OF READING**

### Select Your Body Material:

Aluminum  
Stainless Steel



### Features and Benefits:

- ✓ High viscosity PPS and Stainless Steel rotors available.
- ✓ Extremely accurate even with viscous fluids.
- ✓ Handles particles sizes to 0.011"/0.28 mm.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- ✓ Choose from a variety of Output and Display Options.
- ✓ Certificate of Accuracy supplied with meter.

### GM005 - SPECIFICATIONS

<b>Fitting Type:</b>	BSP or NPT (Female)
<b>Sensor Options:</b>	Reed Switch or Hall Effect Sensor*
<b>Rotor Materials:</b>	PPS or High Viscosity PPS 316 Stainless Steel or High Viscosity Stainless Steel
<b>O-Ring:</b>	Fluorocarbon (Standard), PTFE (Optional)
<b>Output Options:</b>	Pulse Out or Local 4-20 mA Transmitter
<b>Display Options:</b>	Local Display Local Display with 4-20 mA Output
<b>Flow Range:</b>	0.26 - 7.9 GPM (1 - 30 LPM)
<b>Flow Range @ &lt; 5 cps:</b>	0.80 - 6.6 GPM (3 - 25 LPM)
<b>Accuracy:</b>	± 0.5% of reading
<b>Repeatability:</b>	± 0.03%
<b>Maximum Viscosity:</b>	Standard Rotors: 1,000 cps High Viscosity Rotors: 1,000,000 cps
<b>Pressure Rating:</b>	800 PSI / 55 BAR
<b>Maximum Temperature:</b>	
<b>PPS Rotors:</b>	176°F / 80°C
<b>SS Rotors:</b>	248°F / 120°C
<b>Typical K-Factor:</b>	
<b>Single Pickup:</b>	424 PPG / 112 PPL
<b>Double Pickup:</b>	848 PPG / 224 PPL
<b>Wetted Mat'l. - Housing:</b>	
<b>Aluminum:</b>	Aluminum
<b>Stainless Steel:</b>	316 Stainless Steel
<b>Wetted Mat'l. - Bearings:</b>	PPS / Carbon
<b>Wetted Mat'l. - Shaft:</b>	316 Stainless Steel
<b>Frequency Range:</b>	1.8 - 55.8 Hz @ 0.26 - 7.9 GPM
<b>Recommended Strainer Size:</b>	60 mesh
<b>Shipping Weight (approx.):</b>	
<b>Aluminum:</b>	3.25 lbs. (1.5 kg)
<b>Stainless Steel:</b>	6.0 lbs. (2.7 kg)
<b>Remote Display:</b>	Option Available: Model GG500
<b>Remote Transmitter:</b>	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

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# GM505 - 1/2" Oval Gear Mechanical Meter



The GM505 is the 1/2 inch Mechanical Meter in the Oval Gear Series. Use this meter with low to medium flow ranges. The GM505 is available in three fitting/calibration combinations (NPT Gallon, NPT Litre and BSP Litre).

## GM505 - SPECIFICATIONS

<b>Fitting Type:</b>	BSP or NPT (Female)
<b>Sensor Options:</b>	Mechanical Display
<b>Rotor Materials:</b>	PPS or High Viscosity PPS
<b>O-Ring:</b>	Fluorocarbon (Standard), PTFE (Optional)
<b>Output Options:</b>	N/A
<b>Display Options:</b>	Mechanical Display
<b>Flow Range:</b>	0.26 - 7.9 GPM (1 - 30 LPM)
<b>Flow Range @ &lt; 5 cps:</b>	0.80 - 6.6 GPM (3 - 25 LPM)
<b>Accuracy:</b>	± 1.0% of reading
<b>Repeatability:</b>	± 0.03%
<b>Maximum Viscosity:</b>	Standard Rotors: 1,000 cps High Viscosity Rotors: 1,000,000 cps
<b>Pressure Rating:</b>	500 PSI / 34.5 BAR
<b>Maximum Temperature:</b>	176°F / 80°C
<b>Typical K-Factor:</b>	N/A
<b>Wetted Mat'l. - Housing:</b>	
Aluminum:	Aluminum
Stainless Steel:	316 Stainless Steel
<b>Wetted Mat'l. - Bearings:</b>	PPS
<b>Wetted Mat'l. - Shaft:</b>	316 Stainless Steel
<b>Frequency Range:</b>	N/A
<b>Recommended Strainer Size:</b>	60 mesh
<b>Shipping Weight (approx.):</b>	
Aluminum:	3.75 lbs. (1.7 kg)
Stainless Steel:	6.5 lbs. (2.9 kg)

**ACCURACY: ± 1.0% OF READING**

### Select Your Body Material:

- Aluminum
- Stainless Steel



### Features and Benefits:

- ✓ Cumulative and Resettable Totals.
- ✓ High viscosity PPS rotors available.
- ✓ Extremely accurate even with viscous fluids.
- ✓ Handles particles sizes to 0.011"/0.28 mm.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Comes with easy-to-read Mechanical Display.
- ✓ Certificate of Accuracy supplied with meter.

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# GM006 - 3/4" Oval Gear Pulse Meter



The GM006 Meter is a low to medium flow range model. This meter is great for lubrication products and fluids compatible with aluminum.

**ACCURACY: ± 0.5% OF READING**

### Select Your Body Material:

Aluminum  
Stainless Steel



### Features and Benefits:

- ✓ Extremely accurate even with viscous fluids.
- ✓ Handles particles sizes to 0.011"/0.28 mm.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- ✓ Choose from a variety of Output and Display Options.
- ✓ Certificate of Accuracy supplied with meter.

### GM006 - SPECIFICATIONS

Fitting Type:	BSP or NPT (Female)
Sensor Options:	Reed Switch or Hall Effect Sensor*
Rotor Materials:	PPS
O-Ring:	Fluorocarbon (Standard), PTFE (Optional)
Output Options:	Pulse Out or Local 4-20 mA Transmitter
Display Options:	Local Display Local Display with 4-20 mA Output
Flow Range:	0.8 - 15.8 GPM (3 - 60 LPM)
Flow Range @ < 5 cps:	4.5 - 15.8 GPM (17 - 60 LPM)
Accuracy:	± 0.5% of reading
Repeatability:	± 0.03%
Maximum Viscosity:	Standard Rotors: 1,000 cps
Pressure Rating:	800 PSI / 55 BAR
Maximum Temperature:	
PPS Rotors:	176°F / 80°C
Typical K-Factor:	
Single Pickup:	197 PPG / 52 PPL
Double Pickup:	394 PPG / 104 PPL
Wetted Mat'l. - Housing:	
Aluminum:	Aluminum
Wetted Mat'l. - Bearings:	PPS
Wetted Mat'l. - Shaft:	316 Stainless Steel
Frequency Range:	2.6 - 51.9 Hz @ 0.8 - 15.8 GPM
Recommended Strainer Size:	60 mesh
Shipping Weight (approx.):	
Aluminum:	4.30 lbs. (1.9 kg)
Remote Display:	Option Available: Model GG500
Remote Transmitter:	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

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# GM007 - 1" Oval Gear Pulse Meter

Meter shown here with Electronic choice -5.



Use the GM007 with aggressive chemicals and water. The PPS body and rotor materials provide excellent chemical compatibility in this 1-inch meter. This meter is a great choice when you need a rugged and reliable meter.

**ACCURACY: ± 0.5% OF READING**

### Select Your Body Material:

PPS

PPS with Hastalloy C Shafts



### Features and Benefits:

- ✓ PPS body and rotors are excellent for aggressive chemicals.
- ✓ Extremely accurate even with viscous fluids.
- ✓ Handles particles sizes to 0.011"/0.28 mm.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- ✓ Choose from a variety of Output and Display Options.
- ✓ Certificate of Accuracy supplied with meter.

### GM007 - SPECIFICATIONS

Fitting Type:	BSP or NPT (Female)
Sensor Options:	Reed Switch or Hall Effect Sensor*
Rotor Material:	PPS
O-Ring:	Fluorocarbon (Standard), PTFE (Optional)
Output Options:	Pulse Out or Local 4-20 mA Transmitter
Display Options:	Local Display Local Display with 4-20 mA Output
Flow Range:	0.8 - 21.0 GPM (3 - 80 LPM)
Flow Range @ < 5 cps:	2.1 - 18.5 GPM (8 - 70 LPM)
Accuracy:	± 0.5% of reading
Repeatability:	± 0.03%
Maximum Viscosity:	1,000 cps
Pressure Rating:	150 PSI / 10 BAR
Maximum Temperature:	176°F / 80°C
Typical K-Factor:	
Single Pickup:	197 PPG / 52 PPL
Double Pickup:	394 PPG / 104 PPL
Wetted Mat'l. - Housing:	PPS
Wetted Mat'l. - Bearings:	PPS
Wetted Mat'l. - Shaft:	
PPS:	316 Stainless Steel
PPS with Hastalloy C:	Hastalloy C
Frequency Range:	2.6 - 69.0 Hz @ 0.8 - 21 GPM
Recommended Strainer Size:	60 mesh
Shipping Weight (approx.):	3.0 lbs. (1.3 kg)
Remote Display:	Option Available: Model GG500
Remote Transmitter:	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

BUY SMART. BUY VALUE. BUY



# GM010 - 1" Oval Gear Pulse Meter



The GM010 Meter is a 1-inch meter available in Aluminum, Bronze and 316 Stainless Steel body materials. Optional 150# ANSI Flanges and Tri-Clover® Fittings are available on the GM010.

**ACCURACY: ± 0.5% OF READING**

### Select Your Body Material:

- Aluminum
- Bronze
- Stainless Steel



### Features and Benefits:

- ✓ Extremely accurate even with viscous fluids.
- ✓ Handles particles sizes to 0.011"/0.28 mm.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- ✓ Choose from a variety of Output and Display Options.
- ✓ Certificate of Accuracy supplied with meter.

### GM010 - SPECIFICATIONS

<b>Fitting Type:</b>	
<b>Aluminum:</b>	BSP or NPT (Female), 150# ANSI Flange
<b>Bronze:</b>	BSP or NPT (Female)
<b>Stainless Steel:</b>	BSP or NPT (Female), 150# ANSI Flange, or Tri-Clover® Fittings
<b>Sensor Options:</b>	Reed Switch or Hall Effect Sensor*
<b>Rotor Materials:</b>	PPS or High Viscosity PPS, 316 Stainless Steel or High Viscosity Stainless Steel
<b>O-Ring:</b>	Fluorocarbon (Standard), PTFE (Optional)
<b>Output Options:</b>	Pulse Out or Local 4-20 mA Transmitter
<b>Display Options:</b>	Local Display Local Display with 4-20 mA Output
<b>Flow Range:</b>	1.6 - 32 GPM (6 - 120 LPM)
<b>Flow Range @ &lt; 5 cps:</b>	2.6 - 26.4 GPM (10 - 100 LPM)
<b>Accuracy:</b>	± 0.5% of reading
<b>Repeatability:</b>	± 0.03%
<b>Maximum Viscosity:</b>	Standard Rotors: 1,000 cps High Viscosity Rotors: 1,000,000 cps
<b>Pressure Rating:</b>	800 PSI / 55 BAR or Flange Rule
<b>Maximum Temperature:</b>	
<b>PPS Rotors:</b>	176°F / 80°C
<b>SS Rotors:</b>	248°F / 120°C
<b>Typical K-Factor:</b>	
<b>Single Pickup:</b>	136.3 PPG / 36 PPL
<b>Double Pickup:</b>	272.6 PPG / 72 PPL
<b>Wetted Mat'l. - Housing:</b>	
<b>Aluminum:</b>	Aluminum
<b>Bronze:</b>	Bronze
<b>Stainless Steel:</b>	316 Stainless Steel
<b>Wetted Mat'l. - Bearings:</b>	PPS / Carbon
<b>Wetted Mat'l. - Shaft:</b>	316 Stainless Steel
<b>Frequency Range:</b>	3.6 - 72.7 Hz @ 1.6 - 332 GPM
<b>Recommended Strainer Size:</b>	60 mesh
<b>Shipping Weight (approx.):</b>	
<b>Aluminum:</b>	4.9 lbs. (2.2 kg) - Pulse 6.6 lbs. (2.9 kg) - 150# ANSI Flange
<b>Bronze:</b>	12.7 lbs. (5.7 kg) - Pulse
<b>Stainless Steel:</b>	12.5 lbs. (5.7 kg) - Pulse 14.6 lbs. (6.6 kg) - 150# ANSI Flange 10.8 lbs. (4.9 kg) - Tri-Clover® Fittings
<b>Remote Display:</b>	Option Available: Model GG500
<b>Remote Transmitter:</b>	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

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# GM510 - 1" Oval Gear Mechanical Meter



The GM510 is a Mechanical Meter available in Aluminum, Bronze and 316 Stainless Steel body materials. Optional 150# ANSI Flanges are available on the GM510.

**ACCURACY: ± 1.0% OF READING**

### Select Your Body Material:

- Aluminum
- Bronze
- Stainless Steel



### Features and Benefits:

- ✓ Cumulative and Resettable Totals.
- ✓ BSP or NPT fittings are standard, optional 150# ANSI Flanges are available.
- ✓ Extremely accurate even with viscous fluids.
- ✓ Handles particles sizes to 0.011"/0.28 mm.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Comes with easy-to-read Mechanical Display.
- ✓ Certificate of Accuracy supplied with meter.

### GM510 - SPECIFICATIONS

<b>Fitting Type:</b>	
<b>Aluminum:</b>	BSP or NPT (Female), 150# ANSI Flange
<b>Bronze:</b>	BSP or NPT (Female)
<b>Stainless Steel:</b>	BSP or NPT (Female), 150# ANSI Flange
<b>Sensor Options:</b>	Mechanical Display
<b>Rotor Materials:</b>	PPS or High Viscosity PPS, 316 Stainless Steel or High Viscosity Stainless Steel
<b>O-Ring:</b>	Fluorocarbon (Standard), PTFE (Optional)
<b>Output Options:</b>	N/A
<b>Display Options:</b>	Mechanical Display
<b>Flow Range:</b>	1.6 - 32 GPM (6 - 120 LPM)
<b>Flow Range @ &lt; 5 cps:</b>	2.6 - 26.4 GPM (10 - 100 LPM)
<b>Accuracy:</b>	± 1.0% of reading
<b>Repeatability:</b>	± 0.03%
<b>Maximum Viscosity:</b>	Standard Rotors: 1,000 cps High Viscosity Rotors: 1,000,000 cps
<b>Pressure Rating:</b>	500 PSI / 34.5 BAR or Flange Rule
<b>Maximum Temperature:</b>	
<b>PPS Rotors:</b>	176°F / 80°C
<b>SS Rotors:</b>	248°F / 120°C
<b>Typical K-Factor:</b>	N/A
<b>Wetted Mat'l. - Housing:</b>	
<b>Aluminum:</b>	Aluminum
<b>Bronze:</b>	Bronze
<b>Stainless Steel:</b>	316 Stainless Steel
<b>Wetted Mat'l. - Bearings:</b>	PPS / Carbon
<b>Wetted Mat'l. - Shaft:</b>	316 Stainless Steel
<b>Frequency Range:</b>	N/A
<b>Recommended Strainer Size:</b>	60 mesh
<b>Shipping Weight (approx.):</b>	
<b>Aluminum:</b>	4.9 lbs. (2.2 kg) - Pulse 7.0 lbs. (3.1 kg) - 150# ANSI Flange
<b>Bronze:</b>	12.0 lbs. (5.4 kg) - Pulse
<b>Stainless Steel:</b>	11.7 lbs. (5.3 kg) - Pulse 13.6 lbs. (6.2 kg) - 150# ANSI Flange

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# GM015 - 1-1/2" Oval Gear Pulse Meter



The GM015 is our medium to large capacity meter with 1-1/2-inch fittings. Optional 150# ANSI Flanges and Tri-Clover® Fittings are available on the GM015. The GM015 can be installed without regard to straight pipe runs making installation easy.

**ACCURACY: ± 0.5% OF READING**

### Select Your Body Material:

- Aluminum
- Bronze
- Stainless Steel



### Features and Benefits:

- ✓ Extremely accurate even with viscous fluids.
- ✓ Handles particles sizes to 0.011"/0.28 mm.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- ✓ Choose from a variety of Output and Display Options.
- ✓ Certificate of Accuracy supplied with meter.

### GM015 - SPECIFICATIONS

<b>Fitting Type:</b>	
<b>Aluminum:</b>	BSP or NPT (Female), 150# ANSI Flange
<b>Bronze:</b>	BSP or NPT (Female)
<b>Stainless Steel:</b>	BSP or NPT (Female), 150# ANSI Flange or Tri-Clover® Fittings
<b>Sensor Options:</b>	Reed Switch or Hall Effect Sensor*
<b>Rotor Materials:</b>	PPS or High Viscosity PPS, 316 Stainless Steel or High Viscosity Stainless Steel
<b>O-Ring:</b>	Fluorocarbon (Standard), PTFE (Optional)
<b>Output Options:</b>	Pulse Out or Local 4-20 mA Transmitter
<b>Display Options:</b>	Local Display Local Display with 4-20 mA Output
<b>Flow Range:</b>	2.6 - 66 GPM (10 - 250 LPM)
<b>Flow Range @ &lt; 5 cps:</b>	4.0 - 62.5 GPM (15 - 235 LPM)
<b>Accuracy:</b>	± 0.5% of reading
<b>Repeatability:</b>	± 0.03%
<b>Maximum Viscosity:</b>	Standard Rotors: 1,000 cps High Viscosity Rotors: 1,000,000 cps
<b>Pressure Rating:</b>	
<b>Aluminum:</b>	800 PSI / 55 BAR or Flange Rule
<b>Bronze:</b>	800 PSI / 55 BAR
<b>Stainless Steel:</b>	800 PSI / 55 BAR or Flange Rule
<b>Maximum Temperature:</b>	
<b>PPS Rotors:</b>	176°F / 80°C
<b>SS Rotors:</b>	248°F / 120°C
<b>Typical K-Factor:</b>	
<b>Single Pickup:</b>	54.9 PPG / 14.5 PPL
<b>Double Pickup:</b>	109.8 PPG / 29 PPL
<b>Wetted Mat'l. - Housing:</b>	
<b>Aluminum:</b>	Aluminum
<b>Bronze:</b>	Bronze
<b>Stainless Steel:</b>	316 Stainless Steel
<b>Wetted Mat'l. - Bearings:</b>	PPS / Carbon
<b>Wetted Mat'l. - Shaft:</b>	316 Stainless Steel
<b>Frequency Range:</b>	2.4 - 60.4 Hz @ 2.6 - 66 GPM
<b>Recommended Strainer Size:</b>	60 mesh
<b>Shipping Weight (approx.):</b>	
<b>Aluminum:</b>	10.0 lbs. (4.5 kg) - Pulse 12.0 lbs. (5.4 kg) - 150# ANSI Flange
<b>Bronze:</b>	18.7 lbs. (8.49 kg) - Pulse
<b>Stainless Steel:</b>	18.4 lbs. (8.4 kg) - Pulse 20.9 lbs. (9.4 kg) - 150# ANSI Flange 19.2 lbs. (8.7 kg) - Tri-Clover® Fittings
<b>Remote Display:</b>	Option Available: Model GG500
<b>Remote Transmitter:</b>	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

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# GM515 - 1-1/2" Oval Gear Mechanical Meter



The GM515 is a medium to large capacity meter with Mechanical Sensor and Display. Optional 150# ANSI Flanges are available on the GM515 model. This meter can handle high viscosity fluids without sacrificing accuracy.

**ACCURACY: ± 1.0% OF READING**

### Select Your Body Material:

Aluminum  
Stainless Steel



### Features and Benefits:

- ✓ Cumulative and Resettable Totals.
- ✓ BSP or NPT fittings are standard, optional 150# ANSI Flanges are available.
- ✓ Extremely accurate even with viscous fluids.
- ✓ Handles particles sizes to 0.015"/0.38 mm.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Comes with easy-to-read Mechanical Display.
- ✓ Certificate of Accuracy supplied with meter.

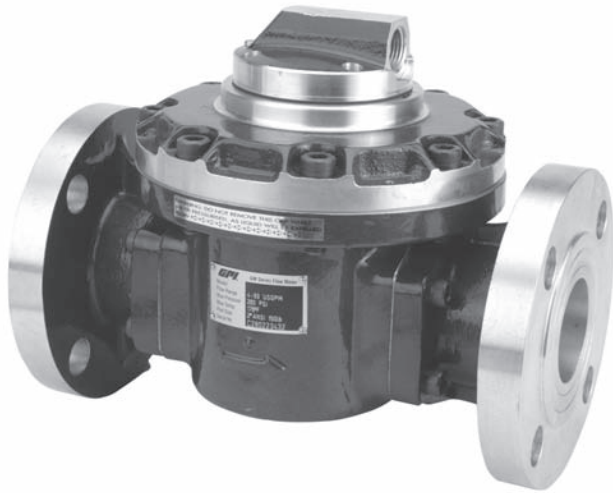
### GM515 - SPECIFICATIONS

<b>Fitting Type:</b>	BSP or NPT (Female), 150# ANSI Flange
<b>Sensor Options:</b>	Mechanical Display
<b>Rotor Materials:</b>	PPS or High Viscosity PPS, 316 Stainless Steel or High Viscosity Stainless Steel
<b>O-Ring:</b>	Fluorocarbon (Standard), PTFE (Optional)
<b>Output Options:</b>	N/A
<b>Display Options:</b>	Mechanical Display
<b>Flow Range:</b>	2.6 - 66 GPM (10 - 250 LPM)
<b>Flow Range @ &lt; 5 cps:</b>	4.0 - 62.0 GPM (15 - 235 LPM)
<b>Accuracy:</b>	± 1.0% of reading
<b>Repeatability:</b>	± 0.03%
<b>Maximum Viscosity:</b>	Standard Rotors: 1,000 cps High Viscosity Rotors: 1,000,000 cps
<b>Pressure Rating:</b>	
<b>Aluminum:</b>	500 PSI / 34.5 BAR
<b>Stainless Steel:</b>	500 PSI / 34.5 BAR or Flange Rule
<b>Maximum Temperature:</b>	
<b>PPS Rotors:</b>	176°F / 80°C
<b>SS Rotors:</b>	248°F / 120°C
<b>Typical K-Factor:</b>	N/A
<b>Wetted Mat'l. - Housing:</b>	
<b>Aluminum:</b>	Aluminum
<b>Stainless Steel:</b>	316 Stainless Steel
<b>Wetted Mat'l. - Bearings:</b>	PPS / Carbon
<b>Wetted Mat'l. - Shaft:</b>	316 Stainless Steel
<b>Frequency Range:</b>	N/A
<b>Recommended Strainer Size:</b>	60 mesh
<b>Shipping Weight (approx.):</b>	
<b>Aluminum:</b>	9.9 lbs. (4.5 kg) - Mechanical 12.0 lbs. (5.4 kg) - 150# ANSI Flange
<b>Stainless Steel:</b>	17.6 lbs. (8.0 kg) - Mechanical 20.2 lbs. (9.2 kg) - 150# ANSI Flange

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# GM020 - 2" Oval Gear Pulse Meter



The GM020 is the largest of our GM Series Meters. The fitting size is 2 inches on this large meter. This meter includes NPT or BSP fittings as standard. Choose from four rotor options; PPS is standard.

**ACCURACY: ± 0.5% OF READING**

### Select Your Body Material:

Aluminum  
Stainless Steel



### Features and Benefits:

- ✓ NPT or BSP fittings are standard, 150# ANSI Flanges are optional.
- ✓ Extremely accurate even with viscous fluids.
- ✓ Handles particles sizes to 0.011"/0.28 mm.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Comes with Reed Switch as standard, Hall Effect Sensor\* optional.
- ✓ Choose from a variety of Output and Display Options.
- ✓ Certificate of Accuracy supplied with meter.

### GM020 - SPECIFICATIONS

<b>Fitting Type:</b>	
<b>Aluminum:</b>	BSP or NPT (Female), 150# ANSI Flange
<b>Stainless Steel:</b>	150# ANSI Flange
<b>Sensor Options:</b>	Reed Switch or Hall Effect Sensor*
<b>Rotor Materials:</b>	PPS or High Viscosity PPS, 316 Stainless Steel or High Viscosity Stainless Steel
<b>O-Ring:</b>	Fluorocarbon (Standard), PTFE (Optional)
<b>Output Options:</b>	Pulse Out or Local 4-20 mA Transmitter
<b>Display Options:</b>	Local Display Local Display with 4-20 mA Output
<b>Flow Range:</b>	4.0 - 92.5 GPM (15 - 350 LPM)
<b>Flow Range @ &lt; 5 cps:</b>	8.0 - 79.0 GPM (30 - 300 LPM)
<b>Accuracy:</b>	± 0.5% of reading
<b>Repeatability:</b>	± 0.03%
<b>Maximum Viscosity:</b>	Standard Rotors: 1,000 cps High Viscosity Rotors: 1,000,000 cps
<b>Pressure Rating:</b>	
<b>Aluminum:</b>	800 PSI / 55 BAR or Flange Rule
<b>Stainless Steel:</b>	Flange Rule
<b>Maximum Temperature:</b>	
<b>PPS Rotors:</b>	176°F / 80°C
<b>SS Rotors:</b>	248°F / 120°C
<b>Typical K-Factor:</b>	
<b>Single Pickup:</b>	25.3 PPG / 6.7 PPL
<b>Double Pickup:</b>	50.6 PPG / 13.4 PPL
<b>Wetted Mat'l. - Housing:</b>	
<b>Aluminum:</b>	Aluminum
<b>Stainless Steel:</b>	316 Stainless Steel
<b>Wetted Mat'l. - Bearings:</b>	PPS / Carbon
<b>Wetted Mat'l. - Shaft:</b>	316 Stainless Steel
<b>Frequency Range:</b>	1.7 - 39.0 Hz @ 4.0 - 92.5 GPM
<b>Recommended Strainer Size:</b>	60 mesh
<b>Shipping Weight (approx.):</b>	
<b>Aluminum:</b>	17.1 lbs. (7.8 kg) - Pulse 20.1 lbs. (9.1 kg) - 150# ANSI Flange
<b>Stainless Steel:</b>	20.1 lbs. (9.1 kg) - Pulse 46.3 lbs. (2.1 kg) - 150# ANSI Flange
<b>Remote Display:</b>	Option Available: Model GG500
<b>Remote Transmitter:</b>	Options Available: Models GA500 & GX500

\* Hall Effect Sensor requires dedicated power source.

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# GM520 - 2" Oval Gear Mechanical Meter



The GM520 is the Mechanical version of our large capacity meter. Choose from either Aluminum or 316 Stainless Steel body materials. This meter can be mounted horizontally or vertically depending on your application.

**ACCURACY: ± 1.0% OF READING**

### Select Your Body Material:

Aluminum  
Stainless Steel



### Features and Benefits:

- ✓ Cumulative and Resettable Totals.
- ✓ Five Fitting / Calibration offerings are available, 150# ANSI Flanges are one of the options.
- ✓ Extremely accurate even with viscous fluids.
- ✓ Handles particles sizes to 0.015"/0.38 mm.
- ✓ Meter design minimizes the number of wear-able parts – extending product life.
- ✓ Comes with easy-to-read Mechanical Display.
- ✓ Certificate of Accuracy supplied with meter.

### GM520 - SPECIFICATIONS

<b>Fitting Type:</b>	
<b>Aluminum:</b>	BSP or NPT (Female), 150# ANSI Flange
<b>Stainless Steel:</b>	150# ANSI Flange
<b>Sensor Options:</b>	Mechanical Display
<b>Rotor Materials:</b>	PPS or High Viscosity PPS, 316 Stainless Steel or High Viscosity Stainless Steel
<b>O-Ring:</b>	Fluorocarbon (Standard), PTFE (Optional)
<b>Output Options:</b>	N/A
<b>Display Options:</b>	Mechanical Display
<b>Flow Range:</b>	4.0 - 92.5 GPM (15 - 350 LPM)
<b>Flow Range @ &lt; 5 cps:</b>	7.9 - 79.3 GPM (30 - 300 LPM)
<b>Accuracy:</b>	± 1.0% of reading
<b>Repeatability:</b>	± 0.03%
<b>Maximum Viscosity:</b>	Standard Rotors: 1,000 cps High Viscosity Rotors: 1,000,000 cps
<b>Pressure Rating:</b>	
<b>Aluminum:</b>	500 PSI / 34.5 BAR or Flange Rule
<b>Stainless Steel:</b>	Flange Rule
<b>Maximum Temperature:</b>	
<b>PPS Rotors:</b>	176°F / 80°C
<b>SS Rotors:</b>	248°F / 120°C
<b>Typical K-Factor:</b>	N/A
<b>Wetted Mat'l. - Housing:</b>	
<b>Aluminum:</b>	Aluminum
<b>Stainless Steel:</b>	316 Stainless Steel
<b>Wetted Mat'l. - Bearings:</b>	PPS / Carbon
<b>Wetted Mat'l. - Shaft:</b>	316 Stainless Steel
<b>Frequency Range:</b>	N/A
<b>Recommended Strainer Size:</b>	60 mesh
<b>Shipping Weight (approx.):</b>	
<b>Aluminum:</b>	17.1 lbs. (7.7 kg) - Mechanical 20.1 lbs. (9.1 kg) - 150# ANSI Flange
<b>Stainless Steel:</b>	46.3 lbs. (2.1 kg) - 150# ANSI Flange

BUY SMART. BUY VALUE. BUY