



**KRUEGER
SENTRY
GAUGE®**

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Informational Handbook

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**Krueger Sentry Gauge Co., Inc.
1873 Siesta Lane
Green Bay, WI 54313-8021**

Ph: 920-434-8860

Ph: 800-959-0371

Fax: 920-434-8897

Office Hours: 7:00 A.M. to 5:00 P.M. (CST)

Web: <http://www.ksentry.com>

Blog: <http://ksentry.com/blog/>

Email: info@ksentry.com



KRUEGER
SENTRY
GAUGE®

Company Profile

Background: Krueger Sentry Gauge is a company built on old-fashioned values. We are a 15 employee, family owned and operated business. Every employee takes great pride in providing only the finest quality gauges backed by the best service available. **Our gauges and all of the components used on our gauges are produced by us or by other American Manufacturers.** A flexible manufacturing process combined with a variety of material options allows for gauges that will work in a variety of tank sizes and liquid types. ***No minimum orders* *Direct ship orders accepted***

What we offer: We manufacture liquid level gauges primarily for above ground storage tanks. Almost all of the gauges are mechanical. Some of the accessories include very simple electronics and have remote read-out capabilities. We manufacture Level Gauges, Overfill Alert Gauges, and Leak Detection Gauges.

Qualities: An all mechanical design equals low cost, easy installation, very little maintenance, and high durability. Replacement parts are available. So even when the gauge seems to have reached its life, repairs are simple and inexpensive.

Limitations: All the level gauges are top mounted, swing arm style. The gauge gives you a simple reading of eighths and quarters of a tank. We can manufacture gauges anywhere from 6 inches in depth to 12 feet in depth. The gauges are made to order and are not field adjustable.

Warranty: Our gauges are under warranty for one year from the date of purchase. This warranty covers manufacturers defects.

We are not responsible for the following: Compatibility Issues: It is your responsibility to be certain that your liquid is compatible with the gauge components. We offer a suggested material based on chemical resistance books but it is the consumer's responsibility to make the final decision. Sizing/Measurement Issues: We produce our level gauges to your specifications. It is your responsibility to obtain the proper dimensions of the tank so we can manufacture the proper gauges. Physical Damage: We are not responsible for physical damage to the gauge. Parts are available to make the unit more durable if needed.



KRUEGER SENTRY GAUGE®

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KRUEGER SENTRY GAUGE®

Chemical Compatibility Guide

***Disclaimer*:** The data presented in this publication is for reference only. It was compiled primarily from outside sources provided by feedstock materials suppliers and resin manufacturers, and is offered to our customers as a means of comparing the characteristics of resins and materials used by Krueger Sentry Gauge at the time of this publication. The particular conditions of your use and application of our products are beyond our control. Thus, it is imperative that you test our products in your specific application to determine their ultimate suitability. All information is provided without implied or expressed warranty or guarantee by Krueger Sentry Gauge, or the resin and feedstock manufacturers. Krueger Sentry Gauge assumes no liability with respect to the accuracy or completeness of the information contained herein and none of the information provided constitutes a recommendation or endorsement of any kind by Krueger Sentry Gauge.

Recommended Gauge	Gauge Components	Chemical
Standard	Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Galvanized Steel Rods, and HDPE Floats	Diesel, Gasoline, Hydraulic Oil, Transmission Fluid, Isopropyl
NTF	Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Galvanized Steel Rods, and Nitrophyll Floats	Mineral Spirits
SSF	Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Galvanized Steel Rods, and Stainless Steel Floats	Break Fluid, Methyl Ethyl Ketone
SSR	Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Stainless Steel Rods, and HDPE Floats	Citric Acid
SSR-GLC	Glass calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Stainless Steel Rods, and HDPE Floats	Methanol, Windshield Washer Fluid
SSR-SSF	Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Stainless Steel Rods, and Stainless Steel Floats	Acetone, Antifreeze, Ammonia, JP-5, JP-8, Jet Fuel, Kerosene, Nitric Acid, Paint Resin, Crude/Waste Oil
SSR-SSF-VTN	Plastic calibration, HDPE lock nut, Viton Gasket, Aluminum Bushing, Stainless Steel Rods, and Stainless Steel Floats	Biodiesel/Methyl Oleate
ALLSS	Glass calibration, Aluminum lock nut, Viton Gasket, Stainless Steel Bushing, Stainless Steel Rods, and Stainless Steel Floats	Caustic/ Sodium Hydroxide, Diesel Exhaust Fluid (DEF), E-85, Ethanol, Peroxide, Potassium Hydroxide, Urea
Peek Plastic Gauge	Glass calibration, PVC lock nut, Viton Gasket, PVC Bushing, Peek Plastic Rods, and HDPE Floats	Bleach/Sodium Hypochlorite, Ferric Chloride, Hydrochloric Acid, Phosphoric Acid
Kynar Gauge	Glass calibration, PVC lock nut, Viton Gasket, PVC Bushing, Kynar Rods, and HDPE Floats	Chlorine, Sulfuric Acid

At-A-Glance® Direct Reading Gauge (Type D)

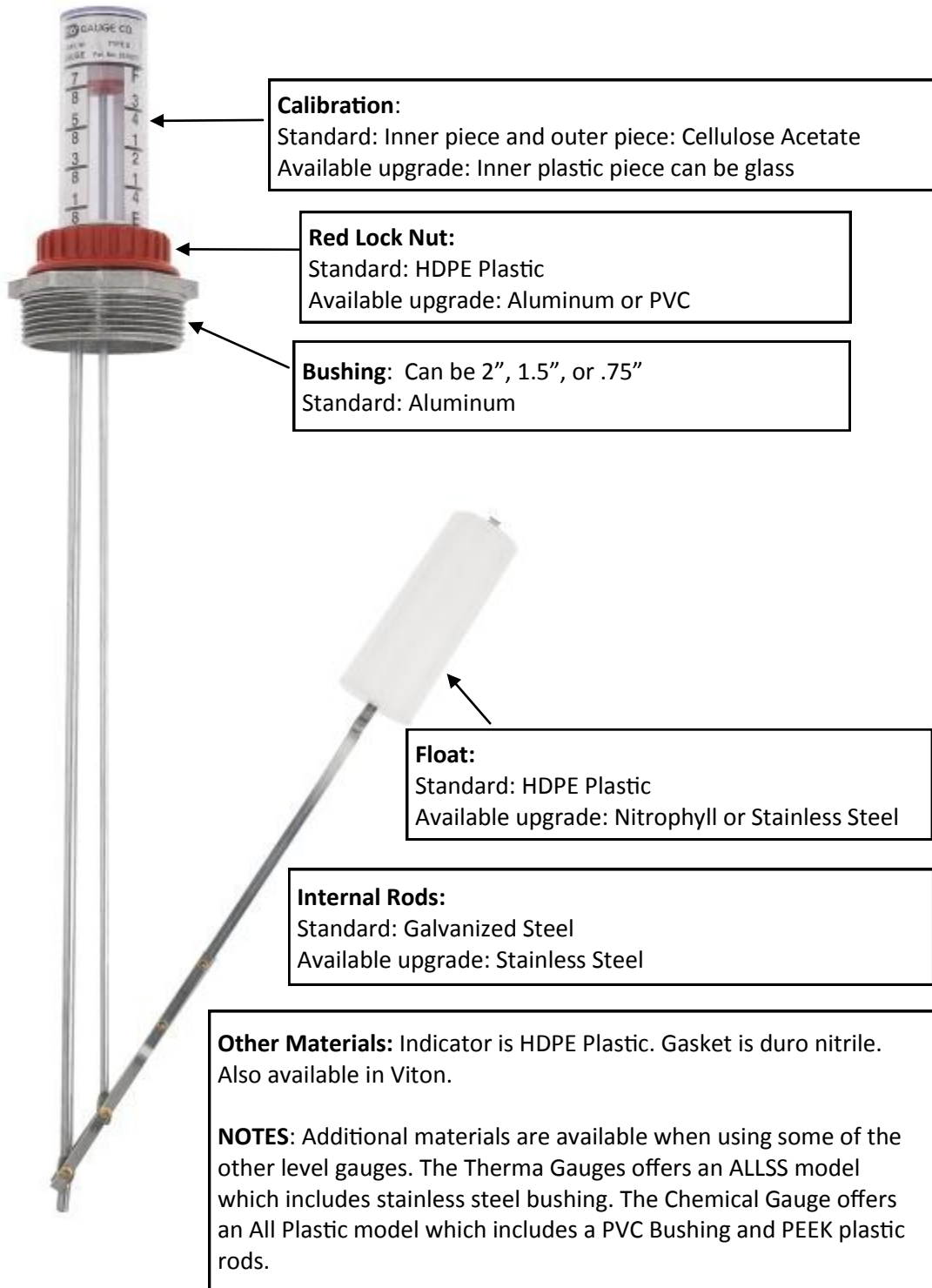
PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge

Standard Construction is ULC approved

Pictured: Standard Type D Level Gauge

Upgrades also listed on page 6



Calibration:

Standard: Inner piece and outer piece: Cellulose Acetate
Available upgrade: Inner plastic piece can be glass

Red Lock Nut:

Standard: HDPE Plastic
Available upgrade: Aluminum or PVC

Bushing: Can be 2", 1.5", or .75"
Standard: Aluminum

Float:

Standard: HDPE Plastic
Available upgrade: Nitrophyll or Stainless Steel

Internal Rods:

Standard: Galvanized Steel
Available upgrade: Stainless Steel

Other Materials: Indicator is HDPE Plastic. Gasket is duro nitrile. Also available in Viton.

NOTES: Additional materials are available when using some of the other level gauges. The Therma Gauges offers an ALLSS model which includes stainless steel bushing. The Chemical Gauge offers an All Plastic model which includes a PVC Bushing and PEEK plastic rods.

At-A-Glance® Direct Reading Gauge (Type D)

GAUGE INFORMATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge
Standard Construction is ULC approved

- Custom sizes from 6 inches to 144 inches
- Available in .75" 1.5" and 2" NPT opening
- Multiple material options and accessories available
- Cost effective durable design
- Can accommodate pipe risers, vaulted, and double wall tanks
- When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**

Compatible Chemicals

- Diesel
- Gasoline
- Hydraulic Oil
- Isopropyl
- Methanol (add SSR-GLC)
- Mineral Spirits (add NTF)
- (call for more info)

Part Number Key: Gauge Type—Size Opening—Tank Depth + Extension—Accessories

(Tank Depth = empty to full, Extension = full to threads)

Examples:

D-2-48+6 (2" opening, 48" tank depth, 6" riser)

D-1.5-36-GLC (1.5" opening, 36" tank depth, glass calibration)

D-2-42+12-SSR (2" opening, 42" tank depth, 12" riser, stainless steel rods)

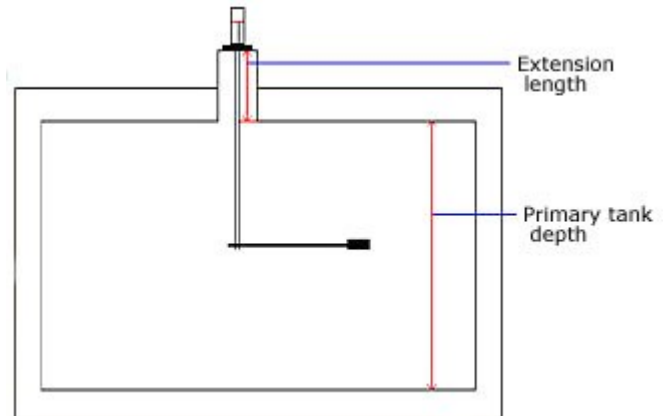
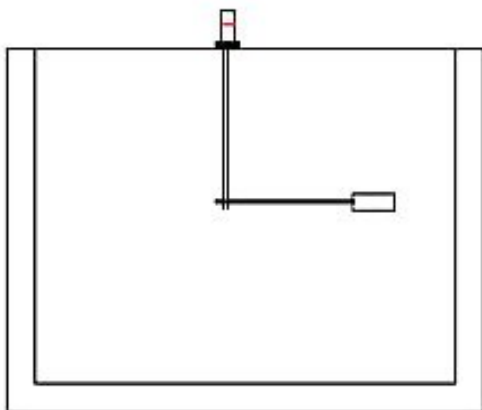
For more information visit www.ksentry.com/ordhelp.htm

For standard tanks: No pipe riser, no top double wall.

For Vaulted / Pipe Riser Applications:

Use these instructions when you have a pipe riser or double wall.

Example: There is significant space between where the gauge float reads full, and where the gauge threads in. This is the extension.



Tank Depth = empty to full
Extension = full to threads

At-A-Glance® Direct Reading Gauge (Type D)

UPGRADES AND REPLACEMENT PARTS

Upgrades and Add-on Accessories

Accessories	Add-on
Glass Calibration	GLC
Aluminum Lock Nut	ALN
Viton Gasket	VTN
Nitrophyll Float	NTF
Aluminum Gauge Guard	ALG
PVC Gauge Guard	PVG
Vented Bushing	VNT
Alarms/Remote Displays	See pages 31-34



NTF



ALG



PVG



ALN



GLC

Replacement Parts

Individual Parts

Description	Part Number
Plastic Calibration (Std)	D-CAL
Glass Calibration	DG-CAL
Calibration Paper	D-PAP
Indicator Disc	D-IND
Duro Nitrile Gasket (Std)	D-GAS
Viton Gasket	D-VTN
Red Lock Nut	D-RDN
Aluminum Lock Nut	D-ALN
Aluminum Gauge Guard	ALG
PVC Gauge Guard	PVG
Polyethylene Float (Std)	PLF
Nitrophyll Float	NTF
.75" Bushing	D-.75B
1.5" Bushing	D-1.5B
2" Bushing	D-2B

Repair Kits

Description	Part Number
Calibration, Indicator Disc, Gasket, and Red Lock Nut	D-KIT
Glass Calibration, Indicator Disc, Gasket, and Red Lock Nut	DG-KIT
Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut	DALN-KIT
Glass Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut	DGALN-KIT

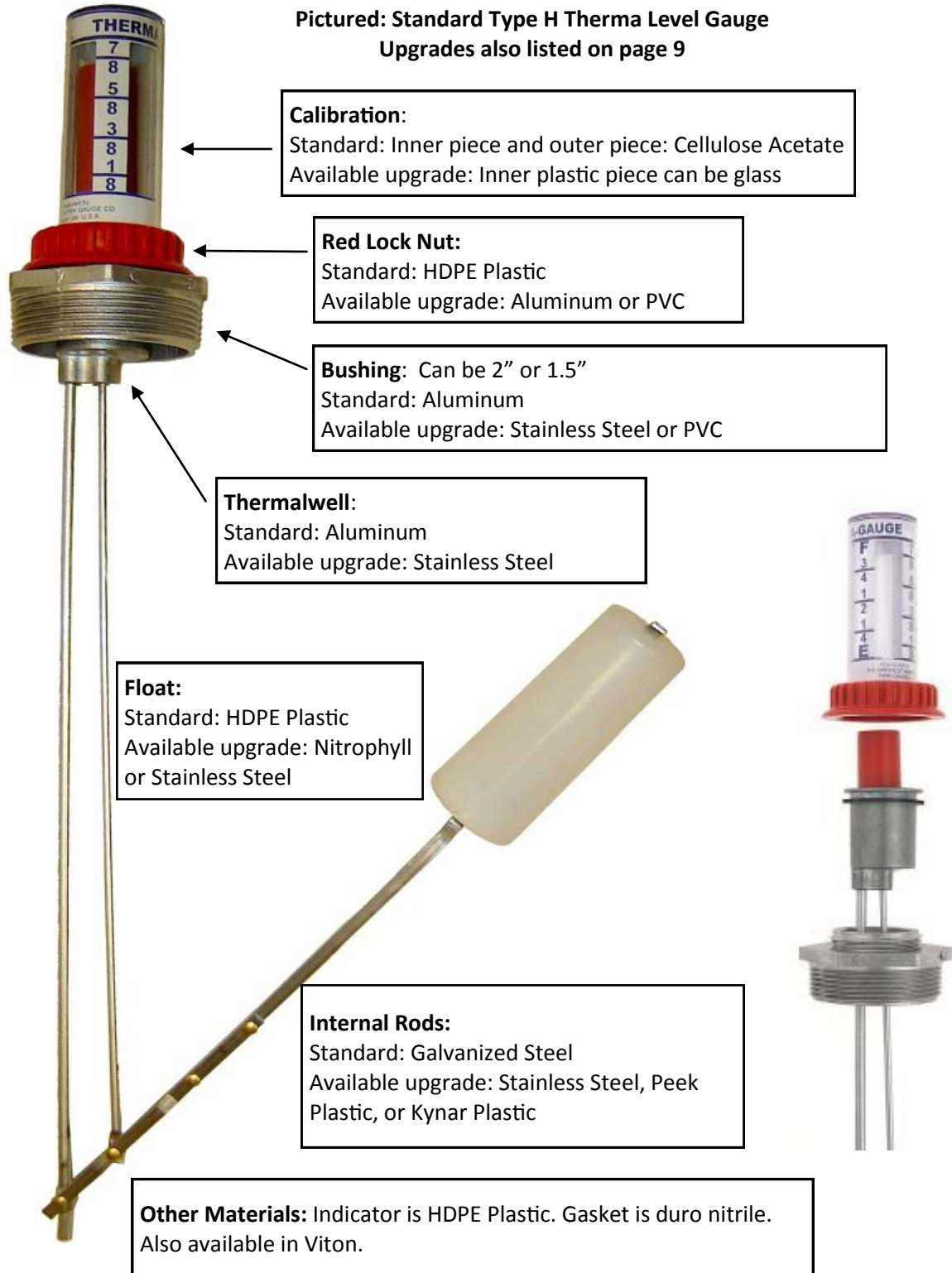
STANDARD "D" KIT



Therma Gauge (Type H)

PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge
More control over swing arm direction
(Approved in FL for overfill protection)



Therma Gauge (Type H)

GAUGE INFORMATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge—More control over swing arm direction

(Approved in FL for overfill protection)

- Custom sizes from 6 inches to 144 inches
- Available in 1.5" and 2" NPT opening
- Multiple material options and accessories available
- Cost effective durable design
- Can accommodate pipe risers, vaulted, and double wall tanks
- When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**



Compatible Chemicals

- Diesel
- Gasoline
- Hydraulic Oil
- Isopropyl
- Methanol (add SSR-GLC)
- Mineral Spirits (add NTF)
- (call for more info)

Part Number Key: Gauge Type—Size Opening—Tank Depth + Extension—Accessories

(Tank Depth = empty to full, Extension = full to threads)

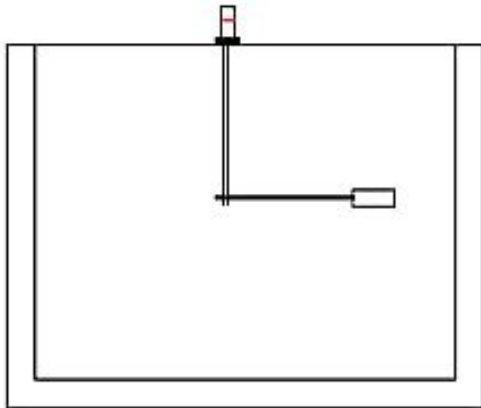
Examples:

H-1.5-36-GLC (1.5" opening, 36" tank depth, glass calibration)

H-2-42+12-SSR (2" opening, 42" tank depth, 12" riser, stainless steel rods)

For more information visit www.ksentry.com/ordhelp.htm

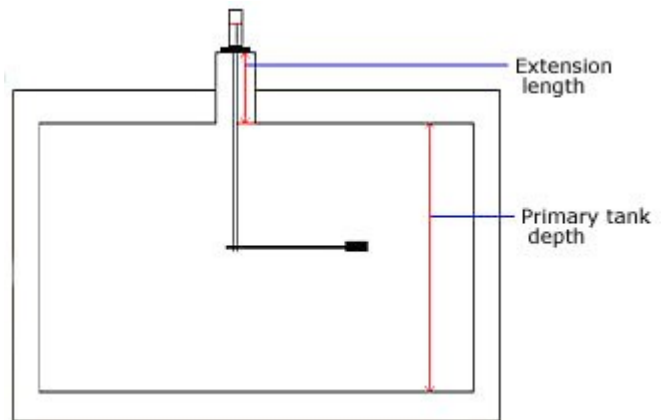
For standard tanks: No pipe riser, no top double wall.



For Vaulted / Pipe Riser Applications:

Use these instructions when you have a pipe riser or double wall.

Example: There is significant space between where the gauge float reads full, and where the gauge threads in. This is the extension.



Optional Bushings/Flanges:



1 5/16" aluminum 5 hole bolt on flange



1 5/16" steel flange (CRS) for welding or soldering



Custom bushing allows for installation of the liquid level monitor on your tank with no need for a threaded fitting. Requires a 1.65" hole.

Therma Gauge (Type H)

UPGRADES AND REPLACEMENT PARTS

Upgrades and Add-on Accessories

Accessories	Add-on
Glass Calibration	GLC
Aluminum Lock Nut	ALN
Viton Gasket	VTN
Nitrophyll Float	NTF
Aluminum Gauge Guard	ALG
PVC Gauge Guard	PVG
Alarms/Remote Displays	See pages 31-34



NTF



ALG



PVG



ALN



GLC

Replacement Parts

Individual Parts

Description	Part Number
Plastic Calibration (Std)	H-CAL
Glass Calibration	HG-CAL
Calibration Paper	H-PAP
Indicator Tube	H-IND
Duro Nitrile Gasket (Std)	H-GAS
Viton Gasket	H-VTN
Red Lock Nut	H-RDN
Aluminum Lock Nut	H-ALN
Aluminum Gauge Guard	ALG
PVC Gauge Guard	PVG
Polyethylene Float (Std)	PLF
Nitrophyll Float	NTF
1.5" Bushing	H-1.5B
2" Bushing	H-2B

Kits

Description	Part Number
Calibration, Indicator Disc, Gasket, and Red Lock Nut	H-KIT
Glass Calibration, Indicator Disc, Gasket, and Red Lock Nut	HG-KIT
Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut	HALN-KIT
Glass Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut	HGALN-KIT

STANDARD "H" KIT



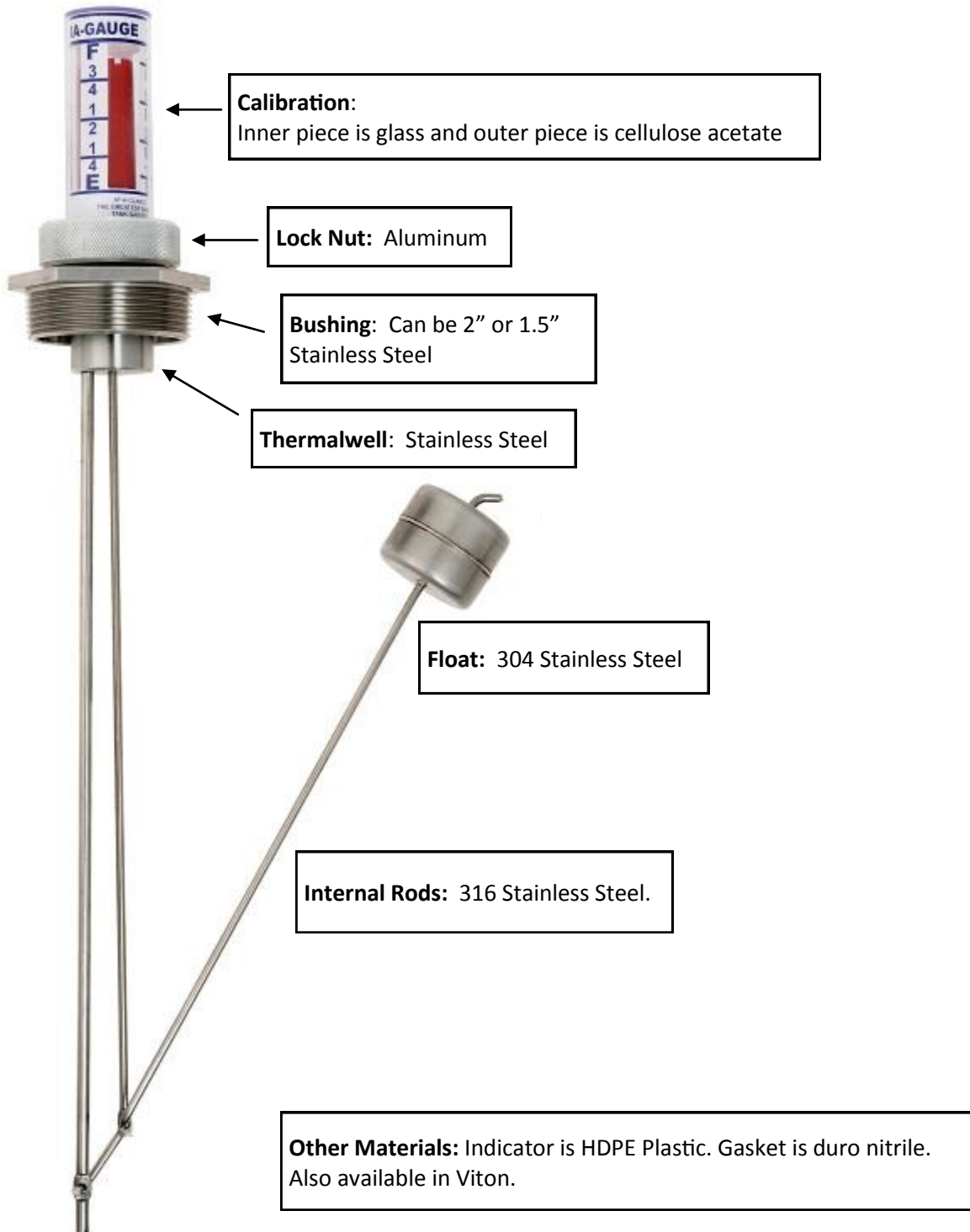
All Stainless Steel Therma Gauge (Type H-ALLSS)

PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge

More control over swing arm direction

(Approved in FL for overfill protection)



All Stainless Steel Therma Gauge (Type H-ALLSS)

GAUGE INFORMATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge

- Custom sizes from 12 inches to 120 inches
- Available in 1.5" and 2" NPT opening
- Can accommodate pipe risers, vaulted, and double wall tanks
- ★ When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**
- Useful for chemical applications

Compatible Chemicals

- Caustic
- Sodium Hydroxide
- E-85
- Ethanol
- Peroxide
- Potassium Hydroxide
- DEF

Part Number Key: Gauge Type—Size Opening—Tank Depth + Extension—Accessories

(Tank Depth = empty to full, Extension = full to threads)

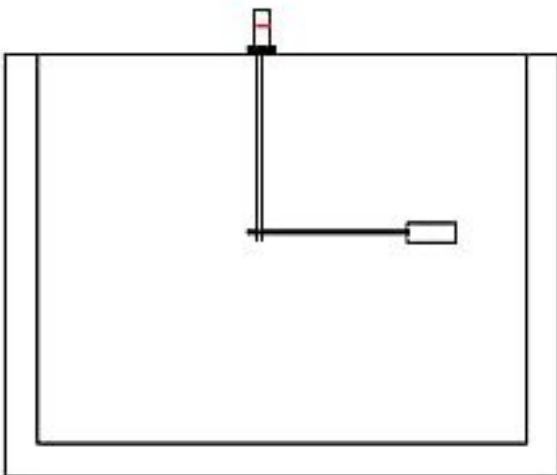
Examples:

H-1.5-36-GLC (1.5" opening, 36" tank depth, glass calibration)

H-2-42+12-SSR (2" opening, 42" tank depth, 12" riser, stainless steel rods)

For more information visit www.ksentry.com/ordhelp.htm

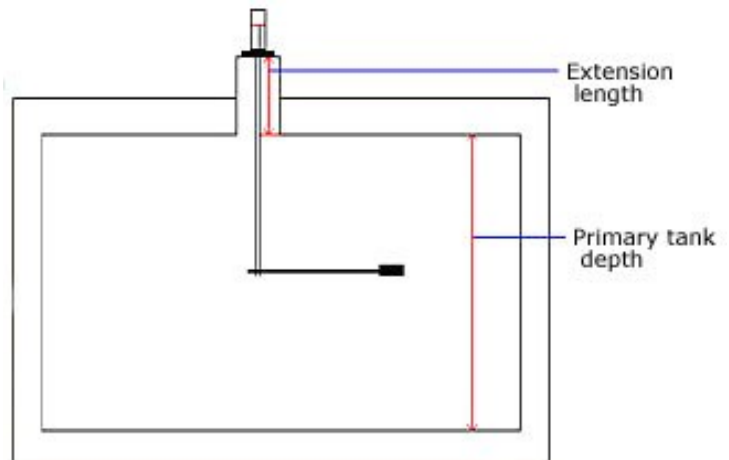
For standard tanks: No pipe riser, no top double wall.



For Vaulted / Pipe Riser Applications:

Use these instructions when you have a pipe riser or double wall.

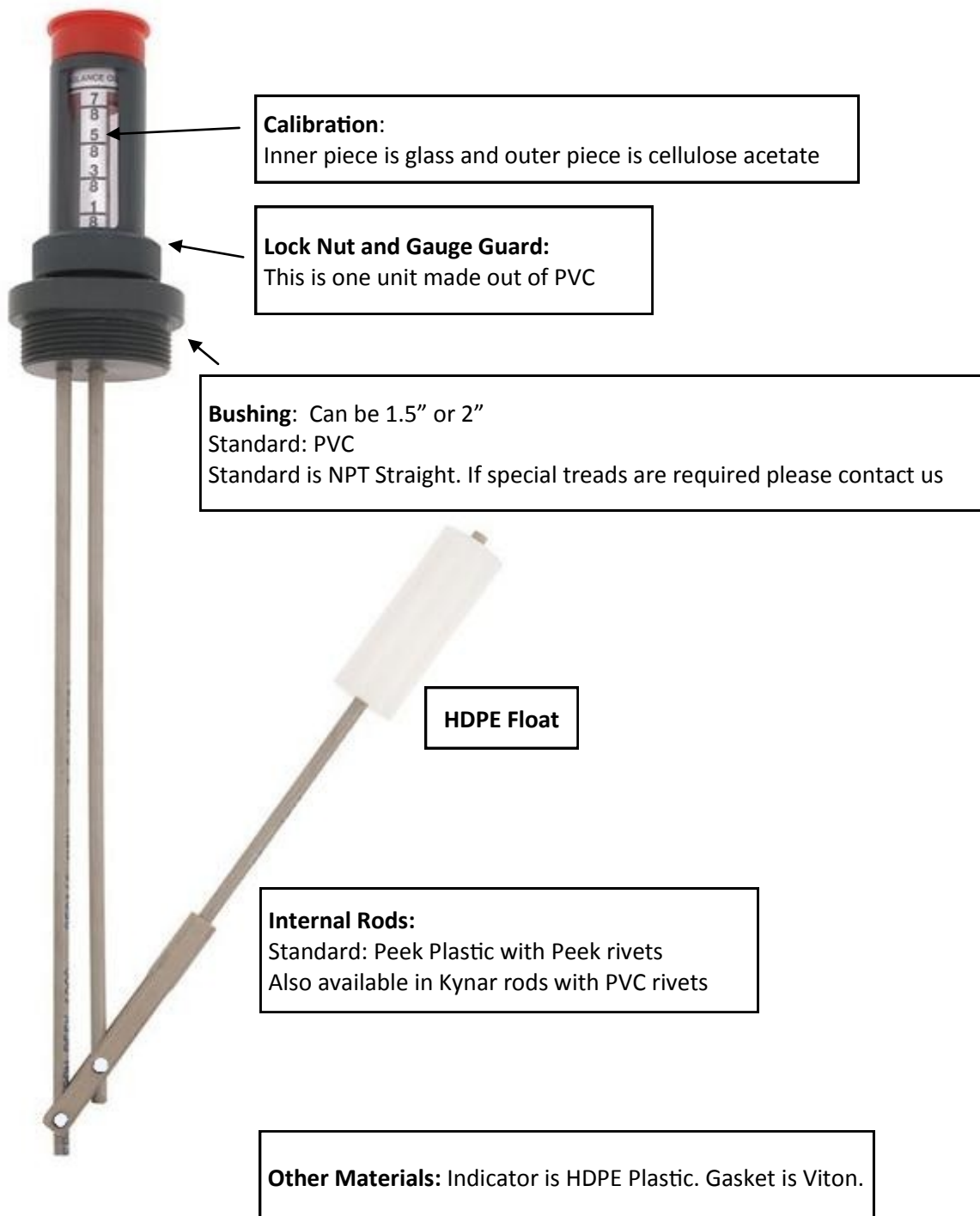
Example: There is significant space between where the gauge float reads full, and where the gauge threads in. This is the extension.



Peek Plastic Gauge (Type PD or PH)

PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge



Peek Plastic Gauge (Type PD or PH)

GAUGE INFORMATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge

- Peek Rods: custom sizes from 17 inches to 110 inches
- Kynar Rods: custom sizes from 17 inches to 76 inches
- Available in 1.5" and 2" NPT opening
- Can accommodate pipe risers, vaulted, and double wall tanks
- Useful for chemical applications
- When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**



Compatible Chemicals	
Peek Rods	Kynar Rods
Bleach	Chlorine
Ferric Chloride	Sulfuric Acid
Hydrochloric Acid	
Phosphoric Acid	

Part Number Key: Gauge Type—Size Opening—Tank Depth + Extension—Accessories
(Tank Depth = empty to full, Extension = full to threads)

Examples:

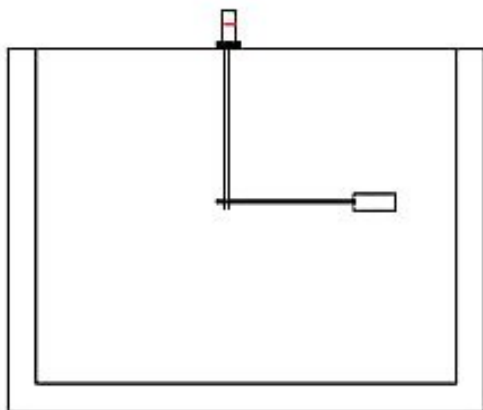
PH-2-48+6 (Type H Plastic, 2" opening, 48" tank depth, 6" riser)

PD-1.5-36 (Type D Plastic, 1.5" opening, 36" tank depth)

PH-2-64-KYNAR (Type H Plastic, 2" opening, 64" tank depth, Kynar Rods)

****For more information visit www.ksentry.com/ordhelp.htm ****

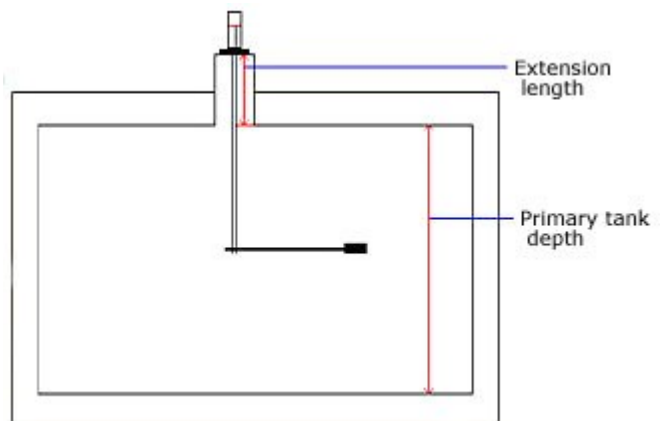
For standard tanks: No pipe riser, no top double wall.



For Vaulted / Pipe Riser Applications:

Use these instructions when you have a pipe riser or double wall.

Example: There is significant space between where the gauge float reads full, and where the gauge threads in. This is the extension.



Difference between PH and PD

Type PH: designed like the Therma Type H Gauge which allows you to precisely aim your swing arm, allowing you to avoid walls and baffles (see pages)

Type PD: designed like the At-A-Glance® Type D Gauge (see pages)

Barrel Gauge (Type B)

PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge—Designed for 15, 30, or 55 gallon drums

**Calibration:**

Standard: Inner piece and outer piece: Cellulose Acetate
Available upgrade: Inner plastic piece can be glass

Red Lock Nut:

Standard: HDPE Plastic
Available upgrade: Aluminum or PVC

Bushing: Can be 2", 1.5" or .75"

Standard: Aluminum
Available upgrade: PVC or Stainless Steel (SS only for 2" and 1.5")

Float:

Standard: HDPE Plastic
Available upgrade: Nitrophyll or Stainless Steel (SS only for 2" and 1.5")

Internal Rods:

.75" Standard: Galvanized Steel and Aluminum Rods
Available upgrade: Stainless Steel (float will be Nitrophyll), Kynar or Peek
1.5" and 2" Standard: Galvanized Steel Rods

Other Materials:

Indicator is HDPE Plastic. Gasket is duro nitrile. Also available in Viton.

Barrel Gauge (Type B)

GAUGE INFORMATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge—Designed for 15, 30, or 55 gallon drums

- Sizes for 55, 30, or 15 gallon drum tanks
- Available in .75" 1.5" and 2" NPT opening
- Has a gallon and 1/8 increment read out
- Multiple material options and accessories available
- When ordering we need to know your size opening and gallon size

Part Number Key: Gauge Type—Gallon Size—Size Opening—Accessories

Examples:

B-55-.75 (for a 55 gallon tank, 3/4" opening)

B-55-2-SSR-GLC (for a 55 gallon tank, 2" opening, stainless steel rods, glass calibration)

B-15-2-ALN (for a 15 gallon tank, 2" opening, aluminum lock nut)

For more information visit www.ksentry.com/ordhelp.htm



Compatible Chemicals (some examples for reference only)

Standard	Stainless Rods	Stainless Rods/Floats	ALL SS	Peek Rods	Kynar Rods
Diesel	Methanol (add GLC)	Acetone	Caustic	Bleach	Chlorine
Gasoline	Citric Acid	Ammonia	Sodium Hydroxide	Ferric Chloride	Sulfuric Acid
Hydraulic Oil		Antifreeze	E-85	Hydrochloric Acid	
Isopropyl		Bio Diesel	Ethanol	Phosphoric Acid	
		Brake Fluid	DEF		
		MEK	Peroxide		

Barrel Gauge (Type B)

UPGRADES AND REPLACEMENT PARTS

Upgrades and Add-on Accessories

Accessories	Add-on
Glass Calibration	GLC
Aluminum Lock Nut	ALN
Viton Gasket	VTN
Nitrophyll Float	NTF
Aluminum Gauge Guard	ALG
PVC Gauge Guard	PVG
Alarms/Remote Displays	See pages 31-34



Replacement Parts

Individual Parts

Description	Part Number
Plastic Calibration (Std)	B-CAL
Glass Calibration	BG-CAL
Calibration Paper (specify gallon)	B-PAP(gallon)
Indicator Disc	B-IND
Duro Nitrile Gasket (Std)	B-GAS
Viton Gasket	B-VTN
Red Lock Nut	RDN
Aluminum Lock Nut	B-ALN
Aluminum Gauge Guard	ALG
PVC Gauge Guard	PVG
Polyethylene Float (Std)	PLF
Polyethylene Float (3/4" NPT)	PLF.75
Nitrophyll Float	NTF

Kits

****specify gallon size****

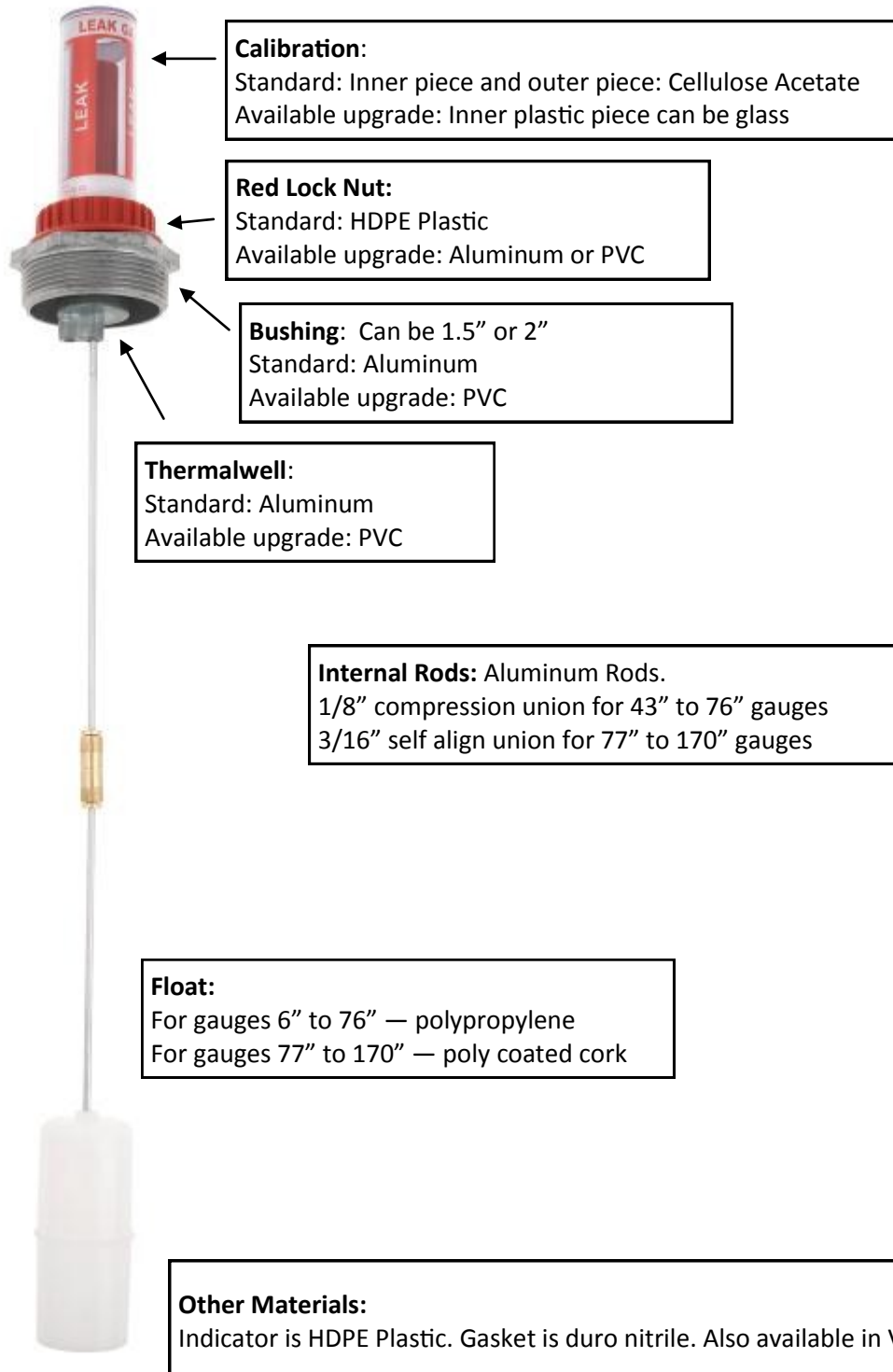
Description	Part Number
Calibration, Indicator Disc, Gasket, and Red Lock Nut	B-KIT
Glass Calibration, Indicator Disc, Gasket, and Red Lock Nut	BG-KIT
Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut	BALN-KIT
Glass Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut	BGALN-KIT

Leak Interstitial Monitor Gauge (Type K)

PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Leak Detection Gauge

(Approved in FL and MI for leak protection)



Leak Interstitial Monitor Gauge (Type K)

GAUGE INFORMATION

Top Mount Mechanical Leak Detection Gauge

(Approved in FL and MI for leak protection)

- Designed to detect leaks in double wall containment systems, interstitial spaces, and monitoring pipes
- Custom sizes from 6 inches to 170 inches
 - Available in 1.5" NPT opening for sizes 6 inches to 76 inches
 - Available in 2" NPT opening for sizes 6 inches to 170 inches
- Simple and effective
- Third party testing documents available
- ★ When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**

Part Number Key: Gauge Type—Size Opening—Tank Depth—Accessories
(Tank depth = bottom of tank to threads)

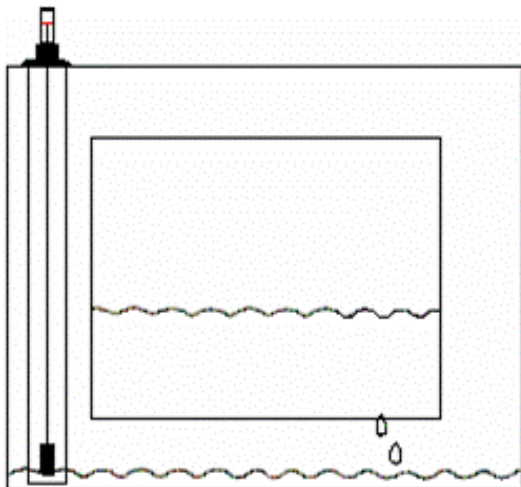
Examples:

K-1.5-48 (1.5" opening, 48" tank depth)

K-2-96-ALG (2" opening, 96" tank depth, aluminum gauge guard)

For more information visit www.ksentry.com/ordhelp.htm

Example illustration of application:



The Interstitial Leak Gauge is custom made in house to fit your tank.

We can accommodate any size tank from 6 inches to 170 inches in depth.

If you have a monitoring pipe or have a threaded fitting at the top of the interstitial space on a double wall containment tank, this monitor will thread right in. Any liquid seeping into the containment space will cause the float to rise which will provide a visual indication on top of the tank that there is liquid in the interstitial containment area.

Leak Interstitial Gauge (Type K)

UPGRADES AND REPLACEMENT PARTS

UPGRADES AND ADD-ON ACCESSORIES

Accessories	Add-on
Glass Calibration	GLC
Aluminum Lock Nut	ALN
Viton Gasket	VTN
Aluminum Gauge Guard	ALG
PVC Gauge Guard	PVG

Alarms/Remote Displays: See pages 31-34

REPLACEMENT PARTS

Description	Part Number
Plastic Calibration (Std)	K-CAL
Glass Calibration	KG-CAL
Calibration Paper	K-PAP
Indicator Tube	K-IND
Duro Nitrile Gasket (Std)	K-GAS
Viton Gasket	K-VTN
Red Lock Nut	K-RDN
Aluminum Lock Nut	K-ALN
Aluminum Gauge Guard	ALG
PVC Gauge Guard	PVG
Polypropylene Float (6"-76")	K-PKF
Poly Coat Cork Float (77"-170")	K-CORK
1.5" Bushing	K-1.5B
2" Bushing	K-2B
1/8" Union (6"-76")	1/8Comp
3/16" Union (77"-170")	3/16Comp

Description	Part Number
Calibration, Gasket, Red Lock Nut, Indicator Tubes, and Clips	K-KIT
Glass Calibration, Gasket, Red Lock Nut, Indicator Tubes, and Clips	KG-KIT
Calibration, Gasket, Aluminum Lock Nut, Indicator Tubes, and Clips	KALN-KIT
Glass Calibration, Gasket, Aluminum Lock Nut, Indicator Tubes, and Clips	KGALN-KIT

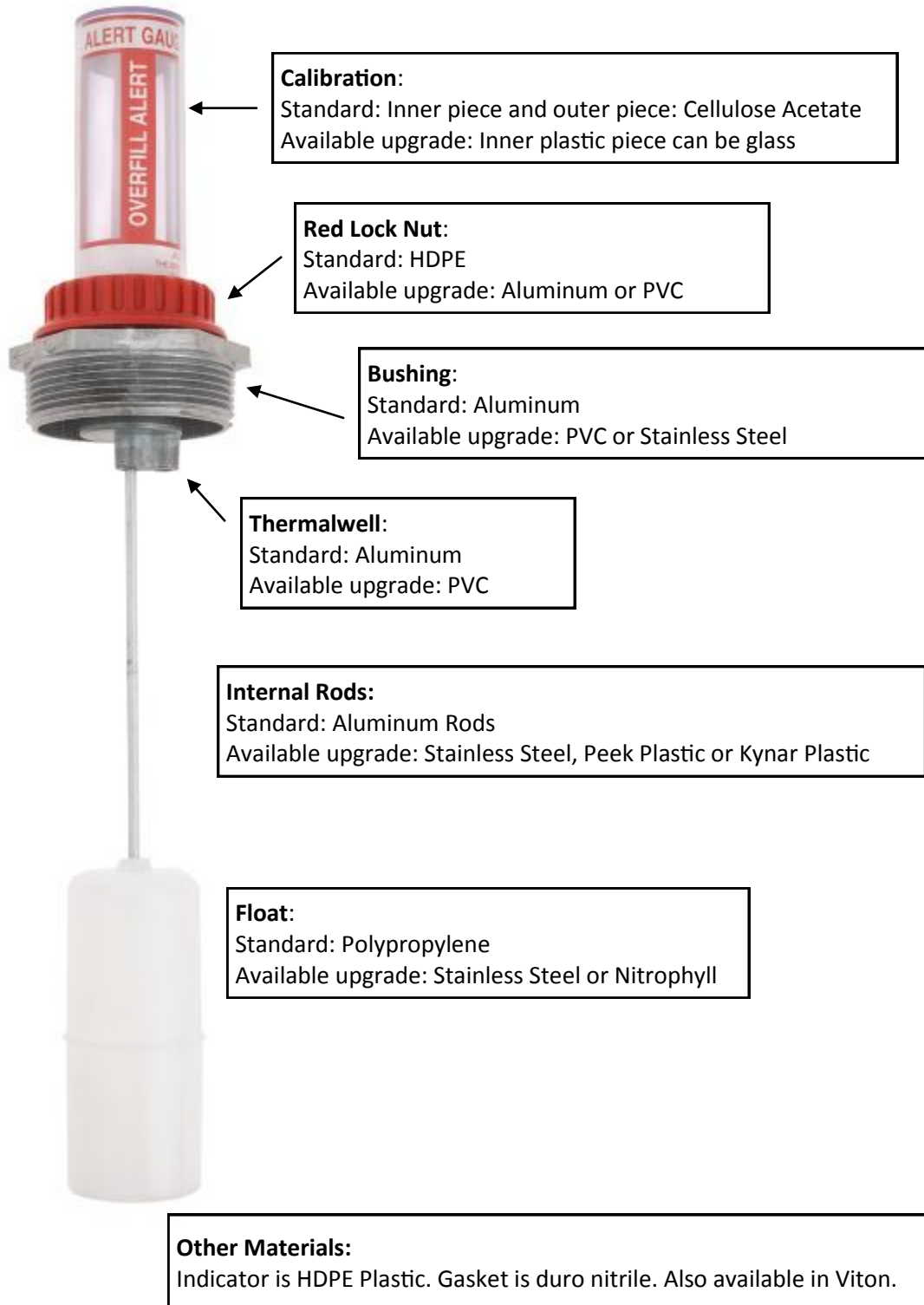
STANDARD "K" KIT



Overfill Alert Gauge (Type OF)

PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Overfill Alert Gauge
(Approved in FL for overfill protection)



Overfill Alert Gauge (Type OF)

GAUGE EXPLANATION

Top Mount Mechanical Overfill Alert Gauge

(Approved in FL for overfill protection)



- Designed to alert when tank is about 90% full
- Custom sizes from 6 inches to 40 inches
- Available in .75" 1.5" or 2" NPT opening
- Multiple material options and accessories available
- When ordering specify the size opening and exact length needed—every gauge is made custom to fit your tank
- **Length is the point at which you want the level of the tank to read the overfill**

Part Number Key: Gauge Type—Size Opening—Length—Accessories

Examples:

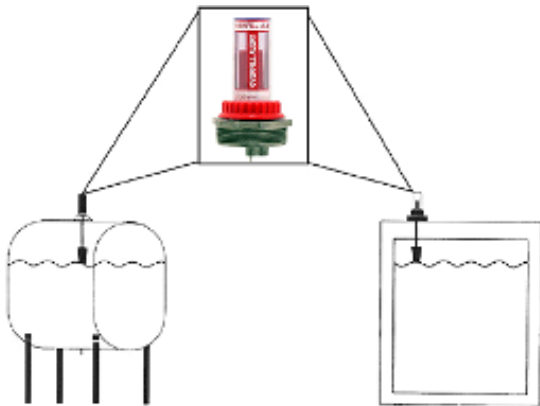
OF-2-10 (2" opening, 10" length)

OF-.75-12-GLC-ALG (3/4" opening, 12" length, glass calibration, aluminum gauge guard)

OF-2-6-ALLSS (2" opening, 6" length, all stainless steel construction)

****For more information visit www.ksentry.com/ordhelp.htm****

Example illustration of application:



Overfill Gauge Overfill Prevention Ordering Instructions.

Use these instructions when ordering the Overfill Gauge as an overfill prevention device.

The Length of the overfill gauge shall be the distance from the top of your gauge threads to the **full mark** in your tank. Your **full mark** should be no less than 90% capacity, and no more than 95% capacity. These measurements will vary depending upon each individual tank. It is the customer's responsibility to insure that we receive the proper measurements for correct overfill warning.

Overfill Alert Gauge (Type OF)

UPGRADES AND REPLACEMENT PARTS

Upgrades and Add-on Accessories

Accessories	Add-on
Glass Calibration	GLC
Aluminum Lock Nut	ALN
Viton Gasket	VTN
Nitrophyll Float	NTF
Aluminum Gauge Guard	ALG
PVC Gauge Guard	PVG
Vented Bushing	VNT



NTF



ALN



ALG



PVG



GLC

Replacement Parts

Individual Parts

Description	Part Number
Plastic Calibration (Std)	OF-CAL
Glass Calibration	OFG-CAL
Calibration Paper	OF-PAP
Indicator Tube	OF-IND
Duro Nitrile Gasket (Std)	OF-GAS
Viton Gasket	OF-VTN
Red Lock Nut	RDN
Aluminum Lock Nut	OF-ALN
Aluminum Gauge Guard	ALG
PVC Gauge Guard	PVG
Polyethylene Float (Std)	PLF
Nitrophyll Float	NTF
1.5" Bushing	OF-1.5B
2" Bushing	OF-2B

Kits

Description	Part Number
Calibration, Indicator Disc, Gasket, and Red Lock Nut	OF-KIT
Glass Calibration, Indicator Disc, Gasket, and Red Lock Nut	OFG-KIT
Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut	OFALN-KIT
Glass Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut	OFGALN-KIT

STANDARD "OF" KIT



L Gauge (Type L)

PICTURE AND COMPONENT EXPLANATION

Top Mount Low Profile Mechanical Liquid Level Gauge

Gasket:

Seals the gauge to the bushing
Standard material: Duro Nitrile
Available upgrade: Viton

Calibration:

Contains the red marks and the letters E and F for Empty and Full.
Standard material: Cellulose Acetate

Locknut:

Red plastic locking nut tightens the calibration and the gauge to the bushing
Standard material: HDPE
Available upgrade: Aluminum or PVC

Bushing:

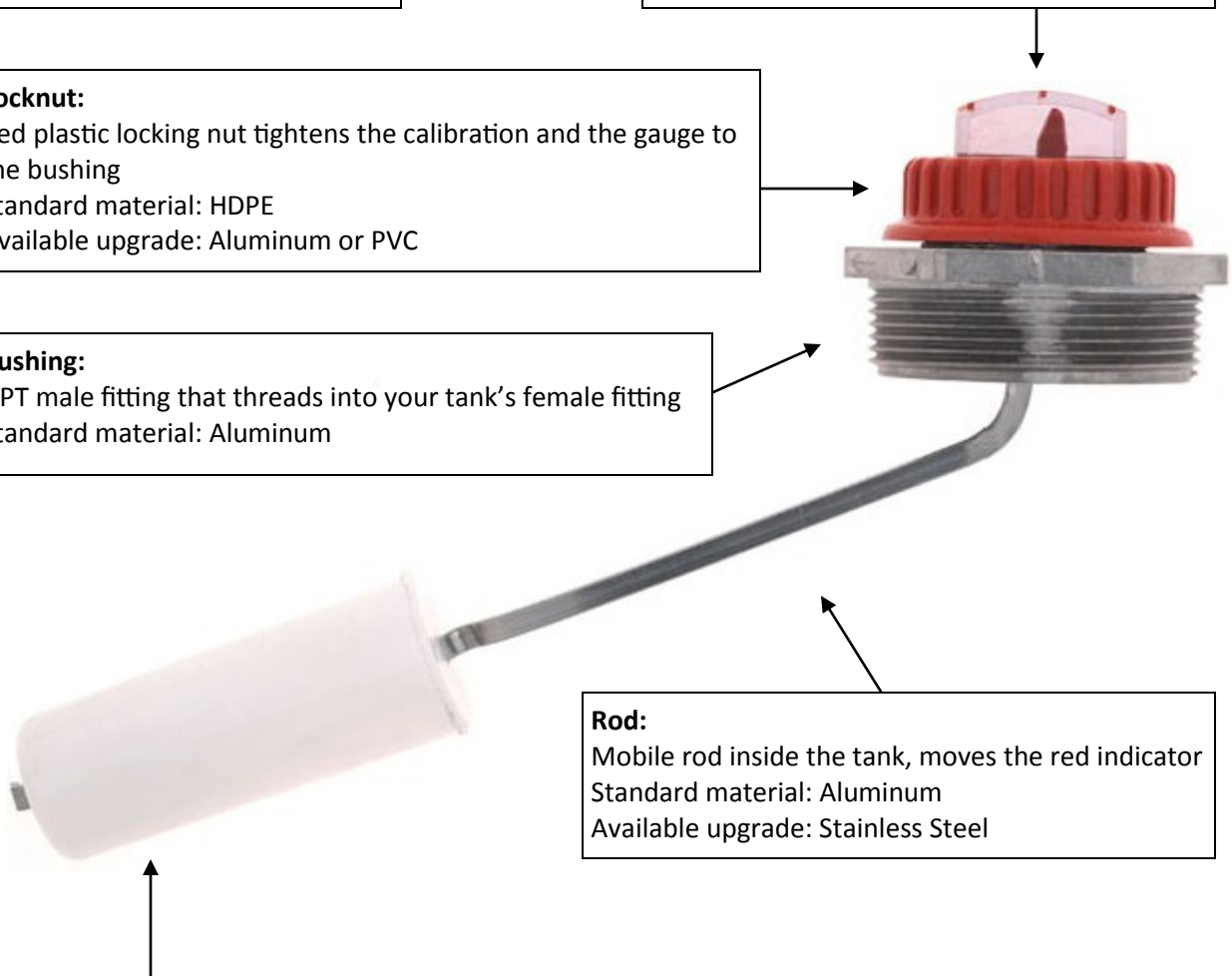
NPT male fitting that threads into your tank's female fitting
Standard material: Aluminum

Rod:

Mobile rod inside the tank, moves the red indicator
Standard material: Aluminum
Available upgrade: Stainless Steel

Float:

Attached to the rod inside the tank. Floats on top of the liquid.
Standard material: HDPE
Available upgrade: Stainless Steel or Nitrophyll



L Gauge (Type L)

GAUGE INFORMATION

Top Mount Low Profile Mechanical Liquid Level Gauge

- Ideal for small tanks
- Reads Half, Full and Empty
- Custom sizes from 6 inches to 30 inches
- Available in 1.3125" 1.5" or 2" NPT opening
- ★ When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**

Optional Bushings/Flanges:



1 5/16" aluminum 5 hole bolt on flange



1 5/16" steel flange (CRS) for welding or soldering level monitor to tank



Custom bushing allows for installation of the liquid level monitor on your tank with no need for a threaded fitting. Requires a 1.65" hole.

NEW →

Upgrades and Add-on Accessories

Accessories	Add-on
Aluminum Lock Nut	ALN
Viton Gasket	VTN
Nitrophyll Float	NTF
Stainless Steel Float	SSF
Aluminum Guard	ALG

GFK Gauge (Type GFK)

PICTURE AND COMPONENT EXPLANATION

Top Mount All Metal Mechanical Liquid Level Gauge

Locknut:

Red plastic locking nut tightens the calibration and the gauge to the bushing
Standard material: Aluminum

Calibration:

Contains the 1/4 increments reading
Standard material: Zinc Alloy

Gasket:

Seals the gauge to the bushing
Standard material: Duro Nitrile
Available upgrade: Viton

Bushing:

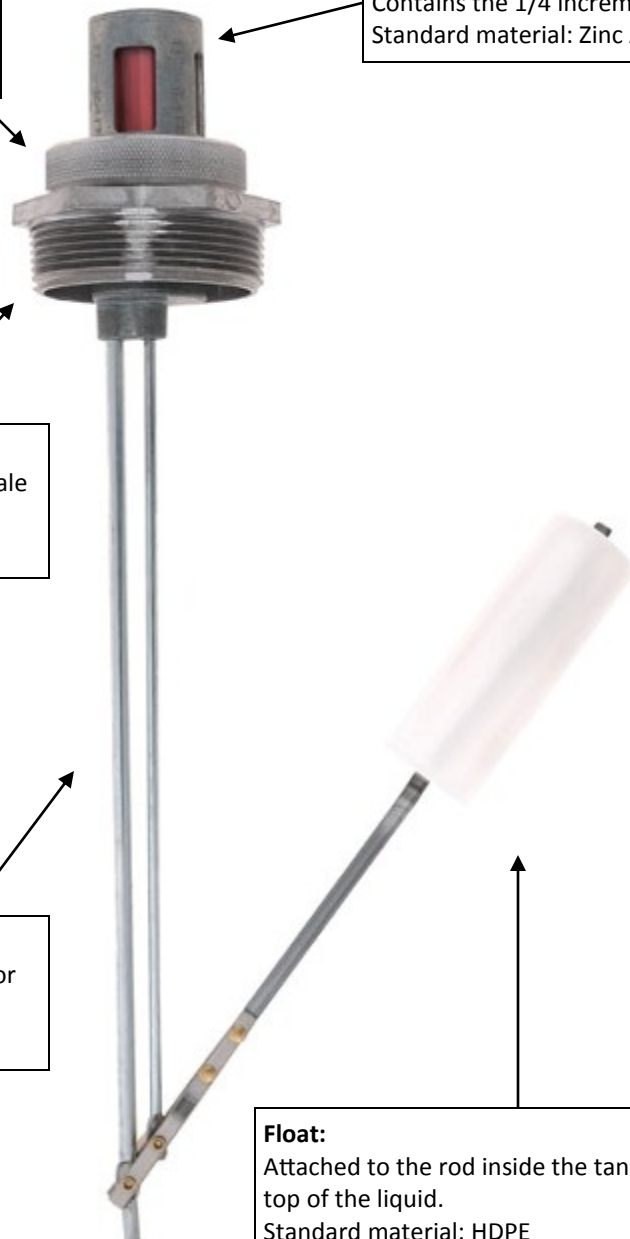
NPT male fitting that threads into your tank's female fitting
Standard material: Aluminum

Rod:

Mobile rod inside the tank, moves the red indicator
Standard material: Aluminum
Available upgrade: Stainless Steel

Float:

Attached to the rod inside the tank. Floats on top of the liquid.
Standard material: HDPE
Available upgrade: Stainless Steel or Nitrophyll



GFK Gauge (Type GFK)

GAUGE INFORMATION

Top Mount All Metal Mechanical Liquid Level Gauge

- Most durable and rugged gauge
- Custom sizes from 8 inches to 48 inches
- Available in 1.3125" 1.5" or 2" NPT opening
- ★ When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**

Optional Bushings/Flanges:



1 5/16" aluminum 5 hole bolt on flange



1 5/16" steel flange (CRS) for welding or soldering level monitor to tank

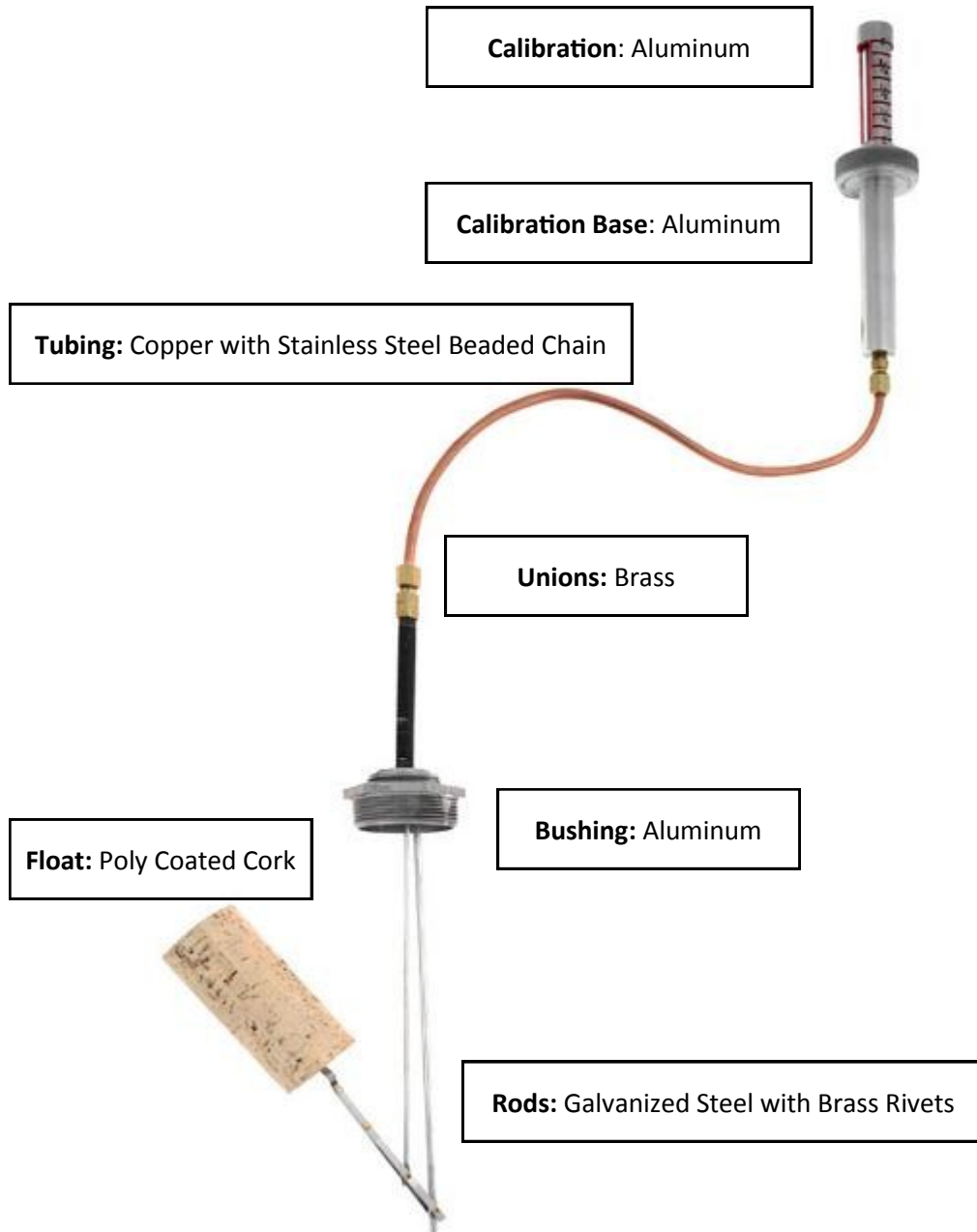


Custom bushing allows for installation of the liquid level monitor on your tank with no need for a threaded fitting. Requires a 1.65" hole.

Remote Reading Gauge (Type DU)

PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Remote Reading Liquid Level Gauge



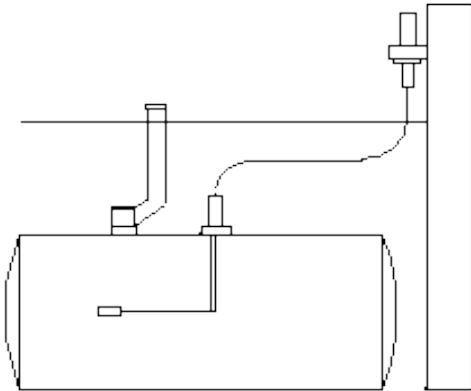
Remote Reading Gauge (Type DU)

GAUGE INFORMATION

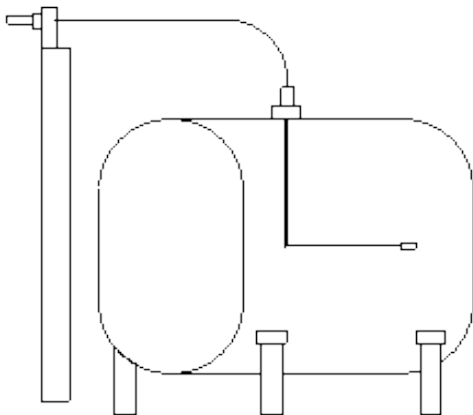
Top Mount Mechanical Remote Reading Liquid Level Gauge

DU Gauge Applications:

Underground Storage Tank



Aboveground Storage Tank



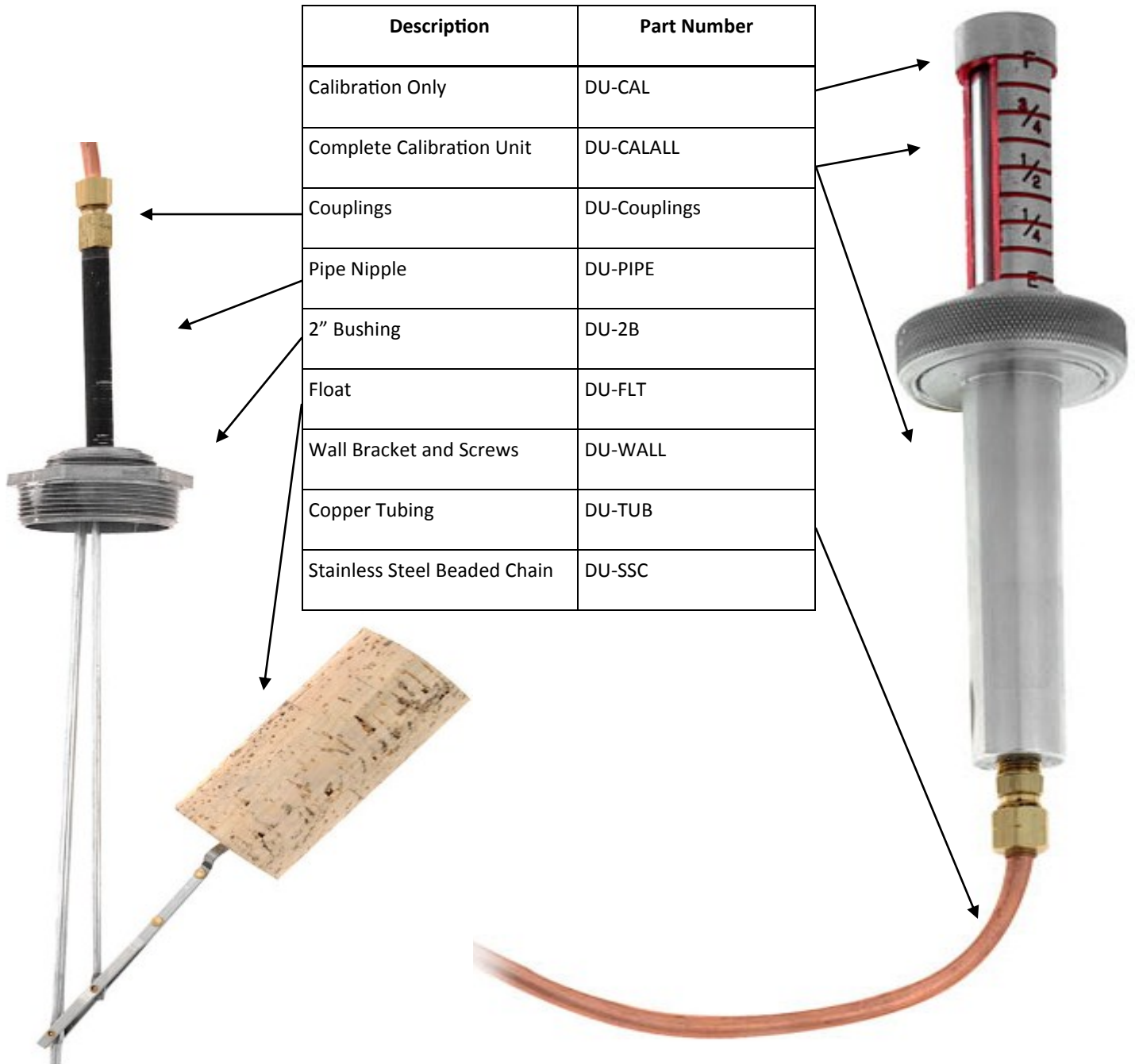
- Monitors tanks from 14 inches to 144 inches in depth.
- Allows for up to 12 feet of remote capability. 12 feet is the maximum.
- All mechanical action, no power required.
- 12 feet of tube and beaded chain are included with the gauge.
- Only available in 2" NPT.

Remote Reading Gauge (Type DU)

GAUGE INFORMATION

Top Mount Mechanical Remote Reading Liquid Level Gauge

Replacement Parts





KRUEGER SENTRY GAUGE®

ACU Gauge

ACU Gauge Tank Mounted Unit

- Vertical Float Type Sensing Device good up to 60 inches.
- Unit is enclosed in a weather/water resistant housing.
- Standard auxiliary output jack with gold plated connections.
- Display has a push button activation with a battery saving automatic shut off.
- Powered by a 9 volt lithium battery. Can also be powered by the remote unit.

ACU Gauge Tank Mounted Unit Options

ACU Gauge with Display

ACU Gauge without Display

- This option is sometimes used when purchasing the remote display unit

ACU Gauge Remote Display Option

- Remote capability. Wired Range over 100 feet.
- Display comes standard with high and low level alarms.
- Standard with wall cube power or 9 volt lithium batteries.

ACU Gauge Remote Display Options

ACU Gauge Remote Display Unit

ACU Gauge Remote Display Unit with 4-20 Milliamp Output

Extra Cable

Tank Mounted Unit



Optional Remote Display





KRUEGER SENTRY GAUGE®

LED At-A-Glance® Remote Display

The “LED At-A-Glance®” gauge system is an electronic remote read that accurately and reliably measures the fuel level in your fuel tank. It will transmit and display the level information to a wired LED display located in a convenient location on your premises.

Operation:

- The Display/Receiver displays the liquid level on a row of LED's where each LED represents approximately a 1/8 of the tank's capacity
- The row of LED's is green from 3/8 of a tank to full
- When the level goes to 1/4 tank the highest LED illuminated will be yellow
- At 1/8 of a tank the highest LED illuminated will be red



Features:

- Quick and Easy Install
- Suitable for both inside or outside tanks
- Connects using a 3 wire cable
- Yellow LED will illuminate if any fault to the system occurs
- Powered by a 9V battery—change after 1 year of use
- Display can be located anywhere within 100ft of the Transmitter
- Hi or Lo Level adjustable 90-100 DB alarms triggered by a magnetic switch (can also be disabled)

LED At-A-Glance®:

Part Number: **LED AAG**
Includes 25 feet of cable

Additional Cable Available





KRUEGER SENTRY GAUGE®

Alarms

At-A-Glance® Alarms

- Compatible with Krueger Sentry Gauges: Type D, Type H, Type B, Type PH, Type PD, Type O, and Type K.
- Powered by a 9 volt Lithium Battery and a test switch allows you to test the battery before each use.
- Magnetic Switch triggers a 110 DB Alarm and can be reset while in alarm mode.

At-A-Glance® Direct Mount Alarm

- Mounts directly to the gauge.
- Comes with:
 - 9 volt Lithium Battery,
 - Magnetic Indicator and
 - Installation guide.

At-A-Glance® Remote Mount Alarm

- Remotely mounted for remote access.
- Comes with:
 - 25' of cable including connectors
 - 9 volt Lithium Battery,
 - Magnetic Indicator and
 - Installation guide.



Direct Mount Alarm
Part Number: DAlarm



Remote Mount Alarm
Part Number: RAlarm



KRUEGER SENTRY GAUGE®

Alarm Upgrades

Below are upgrades that can be added to the direct mount alarm and remote mount alarm. Part number, price and description for each option are stated in the charts. All alarms come with: a 9 volt lithium battery, a magnetic indicator, installation instructions, and the options stated below.



Direct Mount Alarm Options

Part Number	Description
DAlarm-FL	With this model, the audible alarm is replaced with a flashing light. The flashing light will alert when triggered by the magnetic indicator on the gauge and continue until reset.
DAlarm-FL-TO	With this model, there is an audible alarm with an added flashing light and time-out feature. The flashing light will alert when triggered by the magnetic indicator on the gauge. The time-out feature will shut down the alarm after 20 seconds to save on battery life.

Remote Mount Alarm Options

Part Number	Description
RAalarm-FL	With this model, the audible alarm is replaced with a flashing light. The flashing light will alert when triggered by the magnetic indicator on the gauge and continue until reset. This includes 25 feet of cable to allow for remote access.
RAalarm-FL-TO	With this model, there is an audible alarm with an added flashing light and time-out feature. The flashing light will alert when triggered by the magnetic indicator on the gauge. The time-out feature will shut down the alarm after 20 seconds to save on battery life. This includes 25 feet of cable to allow for remote access.

General Information about the Alarms:

- Audible Alarm = 110 db
- Powered by 9 volt lithium battery with approximate life of 3 to 10 years
- Weather resistant, semi water proof (cannot be submerged)
- Tested 0° to 60° Celsius, 32° to 140° Fahrenheit.
- Third party tested
- Alarm is intrinsically safe

When ordering an alarm that is going to be used with a gauge guard you need to order special because the rings are made to fit the gauge so your part numbers are: DAlarm-GG for Direct Mount Alarm and RAalarm-GG for Remote Mount Alarm. No price change.



KRUEGER SENTRY GAUGE®

Alarm with Dry Contacts

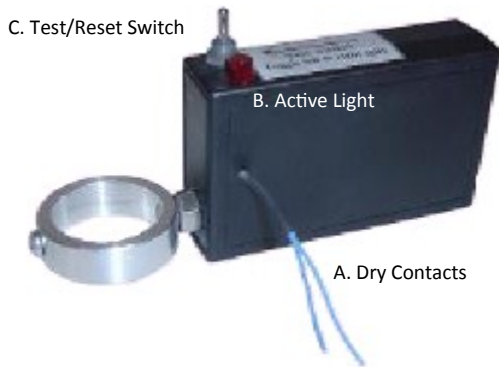
With this model, the audible alarm is replaced with a set of dry contacts. The dry contacts are not designed to power anything. These contacts can then be used to trigger a switch on your own system, thus turning a pump on or off, triggering your own alarm.

Direct Mount Alarm Options

Part Number	Description
DAAlarm-DC-FL	Standard dry contacts option with flashing light.
DAAlarm-DC-FL-TO	With this model, there is an audible alarm with an added set of dry contacts, flashing light and time-out feature. This allows you to use the dry contacts while having a visual and audible application.

Remote Mount Alarm Options

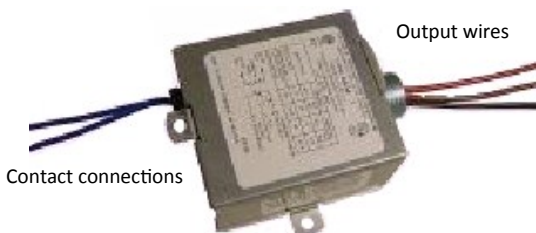
Part Number	Description
RAAlarm-DC-FL	Standard dry contacts option with flashing light. This includes 25 feet of cable to allow for remote access.
RAAlarm-DC-FL-TO	With this model, there is an audible alarm with an added set of dry contacts, flashing light and time-out feature. This allows you to use the dry contacts while having a visual and audible application. This includes 25 feet of cable to allow for remote access.



Technical Specifications -

Powered by 9 volt lithium battery.

- A. Dry contacts can handle up to 2 amps of resistive or inductive load.
- B. The active light is a red blinking led. When light is blinking, it means the contacts have been triggered and the unit must be reset.
- C. The Test/Reset switch can be used to check the battery. Click it left or right. If the red light comes on the battery is working. The Test/Reset switch is also used to reset the alarm. When active, the red light will be blinking. Toggle the switch left or right to reset the alarm back to ready.



Relay Switch is not included but we can supply.

- Relay switch, good to 1/2 horsepower motor.
- The blue wires are the contact connection. This is where you connect our (A) Dry Contacts.
- The output wires connect to your device, and the wiring diagram will explain either normally open contacts or normally closed contacts setup.
- On this relay switch Black and Red would be normally open, and Black and Brown would be normally closed.
- **Part Number: Relay Switch**



**KRUEGER
SENTRY
GAUGE®**

Piping Level

These Piping Levels were crafted by two retired UA Members. The levels have been tried and proven to be a real time saver for aligning tees, 90's, etc. Works well for welding in stubs using various nipples, bushings, or reducing couplings. With reasonable care these levels should last a Lifetime. If a thread becomes damaged, just re-tap it or run the thread over with a die.



- Made of 6061 grade aluminum bar anodized.
- Level has a 1/2" female pipe thread inside on end and a 1" male pipe thread outside on the same end
- Opposite end has an eye bolt for a plumb bob line
- Level is about 4" long with a diameter of 1.25"

Part Number: PLevel



KRUEGER SENTRY GAUGE®

Additional Gauge Ordering Instructions and Help

For standard tanks:

No pipe riser, no top double wall.

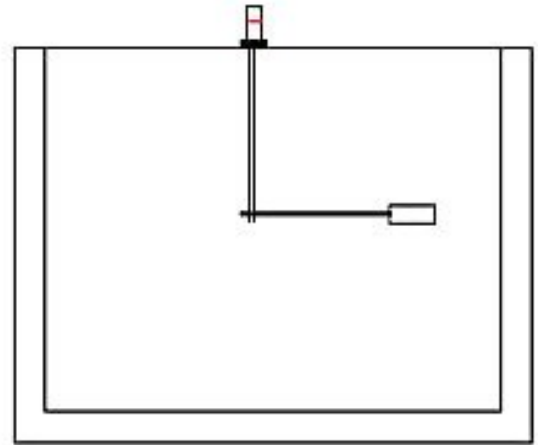
Definition: There is less than one inch of space between where the gauge float reads full, and where the gauge threads into the tank.

Part Number:

Gauge Type—Size Opening—Depth of Tank—Accessories (optional)

Example: D—2—48—GLC

All Gauge measurements are in inches. Depth of tank should be the inside diameter/height of the tank in inches.



For Vaulted / Pipe Riser Applications

Use these instructions when you have a pipe riser or double wall.

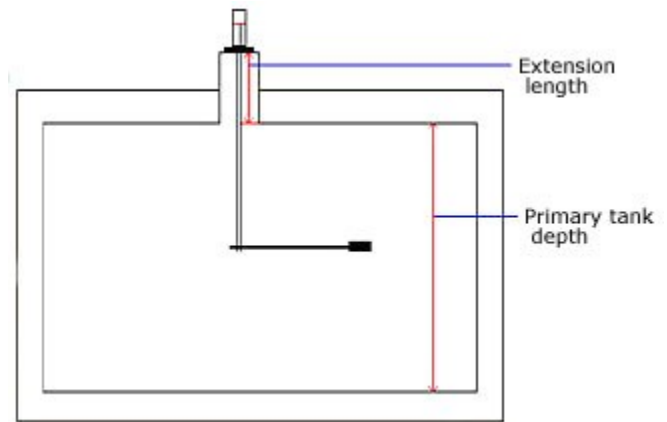
Definition: There is significant space between where the gauge float reads full, and where the gauge threads in. This is the extension.

Part Number:

Gauge Type—Size Opening—Depth of Tank—Extension—Accessories

Example: D—2—48 + 12—GLC

All Gauge measurements are in inches. Depth of tank should be the inside diameter/height of the tank in inches.



Accessories: Abbreviations and Definitions

Standard Level Gauge Materials: Galvanized Steel, HDPE Floats, Aluminum Bushing, Plastic Calibration, Plastic Lock Nut.

- Add **SSR** to part number Stainless Steel Rods
- Add **SSF** to part number Stainless Steel Floats
- Add **All SS** to part number Stainless Rods, Stainless Floats, Stainless Bushing, Aluminum Lock Nut, and Glass Calibration
- Add **Peek** to part number Peek Rods, HDPE Float, Glass Calibration, and PVC Bushing
- Add **Kynar** to part number Kynar Rods, HDPE Float, Glass Calibration, and PVC Bushing
- Add **GLC** to Part number Calibration gets a Glass internal piece
- Add **ALG** to Part number Adds protective guard and aluminum nut to the top of the gauge
- Add **ALN** to part number Replaces red plastic nut with an aluminum nut
- Add **NTF** to part number Replaces HDPE float with a nitrophyll float



KRUEGER SENTRY GAUGE®

FAQS

Helpful Information:

- Restocking Fee is typically 25% but may vary depending on the individual situation and the type of gauge.
- If you can't determine what size you need please see our order help on our website: <http://www.ksentry.com/ordhelp.htm> and if that doesn't help, contact us or you can fax a copy of your tank drawing and we will help you.
- If you would like to be listed on our website as a distributor please contact Lee at extension 204 to discuss requirements. <http://www.ksentry.com/repsearch.php>
- If you would like to list KSG parts on your website please contact Lee at extension 204 for pictures and information.
- Product PDF files are available upon request or on our website: <http://www.ksentry.com/products.htm>
- Visit our blog (<http://ksentry.com/blog/>) for updates on products, literature, employees, and the Green Bay Packers.

Who do you talk to?



Amy Ambrosius
Accounting Associate
amy@ksentry.com
920-434-8860 ext. 201



Lee Geurts
Sales and Marketing
lee@ksentry.com
920-434-8860 ext. 204



Jon Beyer
Production and Office Assistant
jon@ksentry.com
920-434-8860 ext. 207



Shannon Doell
Production and Office Assistant
shannon@ksentry.com
920-434-8860 ext. 207

**Krueger Sentry Gauge Co., Inc.
1873 Siesta Lane
Green Bay, WI 54313-8021**

Ph: 920-434-8860

Fax: 920-434-8897

Office Hours: 7:00 A.M. to 5:00 P.M. (CST)

Web: <http://www.ksentry.com>

Blog: <http://ksentry.com/blog/>

Email: info@ksentry.com