

SEETRU



Liquid Level Gauges

Shipbuilding & Offshore

BESTOBELL
AQUATRONIX

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- A Bristol Based Manufacturer

Seetru Limited was founded in 1949 with the aim of producing the finest liquid level gauges so customers could see the true level even under the most severe conditions. Today, Seetru have an extensive range of Pressure Relief Valves and Liquid Level Gauges which carry a wide range of international approvals and are supplied worldwide.



Seetru Liquid Level Contents Gauges

Seetru liquid level gauges are primarily of two types, sight gauges and magnetic float by-pass gauges. Many of the gauges are direct reading though most have optional electronic remote reading systems and computer interfaces.

Seetru products are widely recognised for their accuracy, quality, reliability, low cost, low life-cycle cost & durability.

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The G35 Seemag® Magnetic Gauge:

High quality magnetic level indicator, accurate step-less reading with a wide angle of visibility, high/low level alarms with remote digital reading, approved for use with flammable liquids.

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The G31 Seeflex Gauge:

Push-button operation, commonly used for fuel oil, hydraulic oil and lubrication oil tanks of cargo ships and work boats, approved for use with flammable liquids.

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The G21 Tubular Marine Gauge:

Tubular design, easy viewing, Instant dismantling and re-assembly. Commonly used for the water storage and coolant tanks on board cargo ships, tugs and military vessels.

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The G20 Admiralty Gauge:

Designed to meet the stringent standards required by the Ministry of Defence, Ingenious flexible fixing system which enables multi-angle and directional mounting capabilities.

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The G22 Quickmount Tubular Gauge:

Direct reading, tubular design, unique isolating valve and collar design - allows for maintenance of the gauge column without tools and the need to drain the tank.

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Approvals:

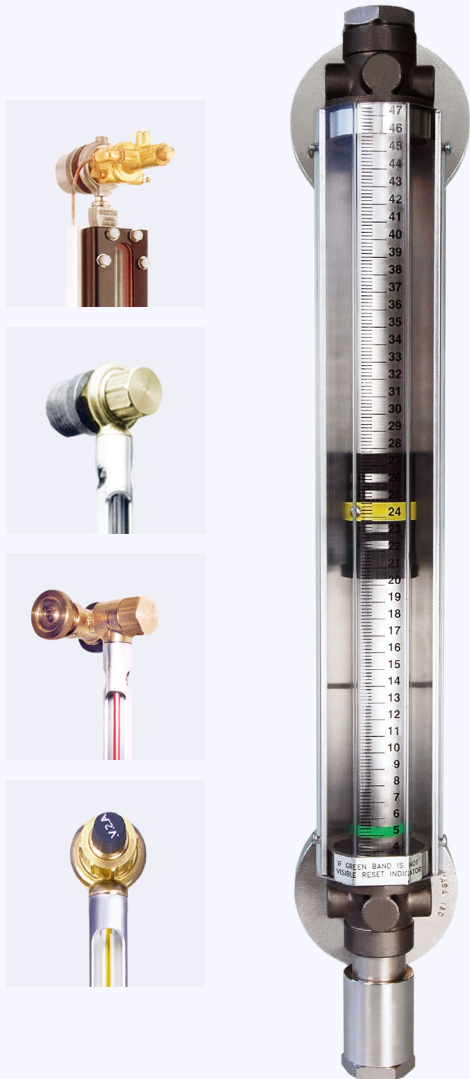
Seetru Liquid Level Gauges carry a wide range of international approvals and are supplied worldwide.

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Other Seetru Products:

Window Sight Glasses, Safety Relief Valves, Change-Over Valves, Auxiliary Valves, Testing Equipment ...

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The Seetru 'G35' Seemag® Magnetic Gauge

The Seetru Seemag® tank content indicator or gauge is a high quality yet economical magnetic level indicator. Its unique design offers considerable advantages over conventional magnetic gauges including accurate step-less reading with a wide angle of visibility and the option of high/low level alarms with remote digital reading.

The Seemag® Gauge meets the requirements of SOLAS (Safety Of Lives At Sea), for use with tanks containing flammable liquids.

Features

Magnetic Bypass Design

The gauge utilises a marker strip on a movable carriage fitted on the outside of a stainless steel tube, which by way of magnets moves up and down in unison with a float inside the tube. The marker strip is adjustable to suit the specific gravity of the liquid to be measured.

Ease Of Installation and Maintenance

The Seemag liquid level gauge can be provided with a variety of end fittings to customer requirement. These include stub pipe for welding, ball valves, and flanges. The gauge is fitted with blanking plugs at the top & bottom of the gauge column. These can be easily removed to allow cleaning of the gauge column.

Tank Calibration

A scale plate graduated in mm is incorporated into the Perspex front cover of the Seemag gauge. Other scale plates can be supplied graduated to customer requirement.



Tank Connection

Seemag gauges are closed circuit design and both the top and bottom of the gauge is fitted to the tank

Alarms and Electronic/Digital Outputs

Options available include electronic high and low level alarm sensors, continuous electronic read out signals and displays as well as a digital data feed for direct computer interfaces and digital control systems.

Heating Systems for High Viscosity Liquids

The Seemag gauge is available with an electrical, steam or thermal oil trace heating system. This heats the tube to allow the measurement of high viscosity fluids, such as heavy fuel oils on ships.

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Specifications

[Click Here To View Heating Options \(Pages 5,6,7\)](#)

Maximum Temperature	180°C
Maximum Pressure	22 Bar g. (18 Bar g. for marine applications)
Valve Materials	Stainless steel
Connections	• Threaded connections • Flanged connections • Stub pipe for welding
Seal Materials	PTFE
Guard Tube Material	Polycarbonate
Lengths	• Minimum 500mm • Maximum 5000mm
Valve Types	Valveless (¼ Turn ball isolation valves available)
Densities	0.7 to 1.3 SG (Others available on request)
Viscosity	Maximum 2000 cSt (The gauge is suitable for more viscous liquids with trace heating, available on request)



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The Seetru 'G31' Seeflex Gauge

The Seetru Seeflex gauge is designed for use within the marine and offshore industries for tanks containing flammable liquids. The Seeflex gauge meets the requirements of SOLAS (Safety Of Lives At Sea), and is also type approved by many worldwide shipping authorities including Det Norske Veritas (DNV), RINA, Lloyds Register of Shipping, Nippon Kaiji Kyokai and Bureau Veritas. Commonly used for fuel oil, hydraulic oil and lubrication oil tanks of cargo ships and work boats.

The Seeflex Gauge meets the requirements of [SOLAS \(Safety Of Lives At Sea\)](#), for use with tanks containing flammable liquids.

Features

Push-Button Operation

Except when a reading is being taken, the gauge is permanently isolated from the contents of the tank. To take a reading the spring loaded valve is opened by pressing a push-button. When released, the connection between the tank and gauge is automatically resealed.

Protected From External Damage

Due to the design of the push-button isolation valve, not amount of damage to the gauge or external fittings on the tanks can break the liquid seals. In such an event the fluid cannot escape.

Hydraulic actuation

Hydraulic actuation can be supplied as an optional extra. This is designed to enable both push-button valves to be operated at the same time. Recommend for tall gauges where it would otherwise be difficult to operate the upper and lower push-button valves simultaneously.



Open Circuit Design

This is only allowable when it is possible for the gauge column to extend above the top of the tank by at least 100 mm. The upper end of the gauge can be supplied with an automatic safety vent valves or, alternatively, a pipe union connection. The automatic safety vent will allow air to pass, but will seal against a liquid level. In the case of the pipe union connection design, a 10 mm o/d steel vent pipe is returned to the tanks or into the tank vent pipe.

Closed Circuit Design

The closed circuit design penetrates the tank wall at both top and bottom connections. The options for the top connection are either a push-button self closing valve or valveless tank return.

Graduation

Where a measure of the precise storage volume is required, an engraved scale plate can be provided marked with the capacity units.



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The Seeflex Gauge meets the requirements of [SOLAS \(Safety Of Lives At Sea\)](#), for use with tanks containing flammable liquids.



Specifications

Maximum Temperature	80°C
Maximum Pressure	2.67 Bar g.
Valve Materials	• Brass • Stainless Steel
Connections	• 42mm weld bosses • Mild steel or stainless steel / flanged or threaded connections available upon request
Seal Materials	Elastomer O'rings
Glass	Toughened borosilicate reflex glass DIN 7080/7081
Column Materials	• Mild Steel • Rust Protected Stainless Steel
Lengths	• Maximum: 8900mm
Valve Types	Push button self closing valves



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The Seetru 'G21' Tubular Marine Gauge

The Seetru Marine Gauge is designed for use within the marine and offshore industries. Due to its tubular design this gauge is suitable only for use with non-flammable liquids. For flammable liquid applications please see either G35 Seemag or G31 Seeflex.

This gauge is commonly used for the water storage and coolant tanks on board cargo ships, tugs and military vessels.

Features

Push-Button Operation

Except when a reading is being taken, the gauge is permanently isolated from the contents of the tank. To take a reading the spring loaded valve is opened by pressing a push-button. When released, the connection between the tank and gauge is automatically resealed.

Protected From External Damage

Due to the design of the push-button isolation valve, not amount of damage to the gauge or external fittings on the tanks can break the liquid seals. In such an event the fluid cannot escape.

Instant Dismantling & Re-Assembly

The gauge can be removed from the tank for cleaning or servicing while valves remain sealed and the tank remains leak-proof.



Ease of Viewing

The level of colourless liquid is indicated by magnification of a coloured strip on the sight tube.

Hydraulic Actuation

Hydraulic actuation can be supplied as an optional extra. This is designed to enable both push-button valves to be operated at the same time. Recommend for tall gauges where it would otherwise be difficult to operate the upper and lower push-button valves simultaneously.

Graduation

Where a measure of the precise storage volume is required, an engraved scale plate can be provided marked with the capacity units.



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This gauge is commonly used for the water storage and coolant tanks on board cargo ships, tugs and military vessels.



Specifications

Maximum Temperature	150°C ¹
Maximum Pressure	3.68 Bar g. ¹
Valve Materials	• Brass • Stainless Steel
Connections	• 42mm weld bosses • Mild steel or stainless steel / flanged or threaded connections available upon request
Seal Materials	Elastomer O'rings
Glass	• Borosilicate glass BS 3463 • Polycarbonate Plastic
Guard Tube Materials	• Brass • Aluminium • Stainless Steel • Mild Steel
Lengths	To suit requirements (minimum 150mm)
Valve Types	• Push button self closing valves • Valveless tank return available for top connection



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The Seetru 'G20' Admiralty Gauge

The Seetru Admiralty liquid level gauge has been specifically designed to meet the stringent standards required by the Ministry of Defence for design, material selection and certification, including shock testing. With a tubular glass indicator the G20 utilises an ingenious flexible fixing system which enables multi-angle and directional mounting capabilities.

For flammable liquid applications please see either Seeflex (G31) or Seemag gauges (G35).

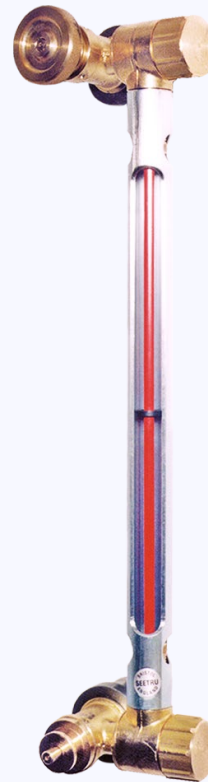
Features

Push-Button Operation

Except when a reading is being taken, the gauge is permanently isolated from the contents of the tank. To take a reading the spring loaded valve is opened by pressing a push-button. When released, the connection between the tank and gauge is automatically resealed.

Graduation

Where a measure of the precise storage volume is required, an engraved scale plate can be provided marked with the capacity units



Electronic & Digital Readout

Remote reading system and/or computer interface options provide a dual system with the advantages of both electronic and sight glass systems. Level alarms can also be implemented (suitable for gauges fitted with screw down valves only).

Heating Systems for High Viscosity Liquids

Hydraulic actuation can be supplied as an optional extra. This is designed to enable both push-button valves to be operated at the same time. Recommend for tall gauges where it would otherwise be difficult to operate the upper and lower push-button valves simultaneously.

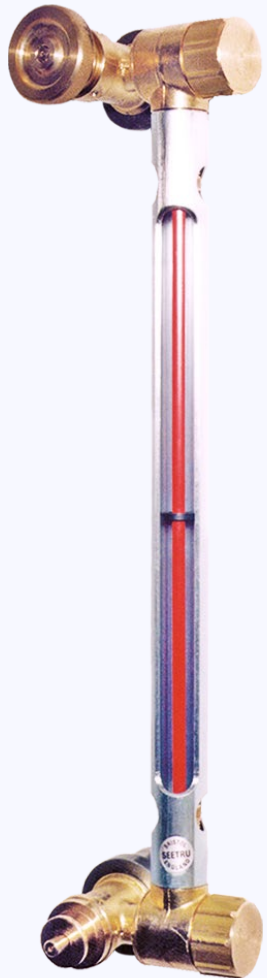


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The Seetru Admiralty liquid level gauge has been specifically designed to meet the stringent standards required by the Ministry of Defence for design, material selection and certification, including shock testing. With a tubular glass indicator the G20 utilises an ingenious flexible fixing system which enables multi-angle and directional mounting capabilities.

For flammable liquid applications please see either Seeflex (G31) or Seemag gauges (G35).



Specifications

Maximum Temperature	150°C ¹
Maximum Pressure	22 Bar g. ¹
Valve Materials	• Bronze • Stainless Steel
Connections	• 42mm weld bosses
Seal Materials	Elastomer
Tube Materials	• Borosilicate glass BS 3463 • Polycarbonate Plastic
Guard Tube Materials	• Anodised aluminium • Brass • Stainless steel • Zinc plated mild steel
Lengths	To suit requirements (minimum 150mm)
Valve Types	Hand wheel isolation valves and/or push-button closing valves



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The Seetru 'G22' Quickmount Tubular Gauge

The Seetru Quickmount liquid level gauge is a direct reading, tubular design for general industrial use. The unique isolating valve and collar design, allows for maintenance of the gauge column without tools and the need to drain the tank. Available with automatic safety shut off valves and drain valve. Suitable for a wide range of pressures and temperatures, the gauge is fitted with elastomer seals in materials to suit the required service.

Features

Tubular Sight Glass Design

Sight tubes are available in glass or polycarbonate. Metal protecting tubes are available in a variety of materials with optional supplementary transparent polycarbonate protecting tube.

Ease Of Installation and Maintenance

The Quickmount liquid level gauge can be installed without the use of special tools. Threaded end units are screwed into female tank bosses. The gauge collars slip over these units and are secured by hand tightening retaining nuts. 'O' ring sealing is used throughout. The isolating valves will allow column removal without need to drain the tank.

Tank Calibration

A scale plate graduated in mm is incorporated into the Perspex front cover of the Seemag gauge. Other scale plates can be supplied graduated to customer requirement.



Tank Connection

A closed circuit or open circuit pattern may be selected for the gauge.

Closed Circuit Pattern

Direct connection from the top of the gauge to the tank can be made with a screw-down valve or a valveless unit.

Open Circuit Pattern

The upper end of the liquid level gauge can be supplied with an automatic safety vent valve or, alternatively, a pipe union connection. The automatic safety vent valve will allow air to pass, but will seal against a liquid level. In the case of the pipe union connection design, a 10 mm o/d steel vent pipe is returned to the tank or into the tank vent pipe. Open circuit connection is only allowable when it is possible for the gauge column to extend above the top of the tank.

Electronic & Digital Readout

Remote reading system and/or computer interface options provide a dual system with the advantages of both electronic and sight glass systems. Level alarms can also be implemented.

The Seetru 'G22' Quickmount Tubular Gauge

The Seetru Quickmount liquid level gauge is a direct reading, tubular design for general industrial use. The unique isolating valve and collar design, allows for maintenance of the gauge column without tools and the need to drain the tank. Available with automatic safety shut off valves and drain valve. Suitable for a wide range of pressures and temperatures, the gauge is fitted with elastomer seals in materials to suit the required service.



Specifications

Maximum Temperature	150°C ¹
Maximum Pressure	22 Bar g. ¹
Valve Materials	• Brass • Stainless steel • Polypropylene
Connections	BSP & NPT threaded connections or ANSI/DIN flanges
Seal Materials	Elastomer
Tube Materials	• Borosilicate glass BS 3463 • Polycarbonate Plastic
Guard Tube Materials	• Anodised aluminium • Brass • Stainless steel • Zinc plated mild steel
Lengths	To suit requirements (minimum 150mm)
Valve Types	• Manual screw down • Manual screw down with automatic safety shut-off valve

Approvals

Seetru Liquid Level Gauges carry a wide range of international approvals and are supplied worldwide.

Please visit our website to see a [Full List of Approvals](#)

ABS | DNV | GL | Lloyds Register | RINA | RMRS | RRR | EAC | SOLAS



(American Bureau of Shipping)



(Det Norske Veritas)



(Germanischer Lloyds)



(Lloyds Register)



(RINA Italy)



(Russian Maritime Register of Shipping)



(Russian River Register)



*(EAC Customs Union
DECLARATION - Russia,
Kazakhstan & Belarus)*

The Seemag® gauge meets the requirements of [SOLAS \(Safety Of Lives At Sea\)](#), for use with tanks containing flammable liquids

Seetru Products and Services

Seetru offers a wide range of products and services including; screwed safety and relief valves, flanged safety valves, auxiliary valves, testing equipment, site surveying, testing and refurbishment services, source and supply services.

A wide range of products, for wide range of applications ...



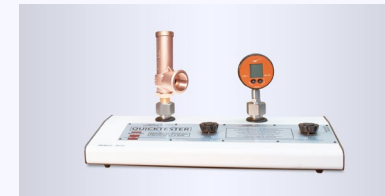
The Seetru range of safety valves are compact, highly efficient and incorporate the exclusive Tutchtite™ seal technology for repeatable bubble-tight sealing performance: designed for applications including air/gas compressors, specialist gas plants, chemical equipment and piping, pressure vessels, thermal relief and medical gases etc. These valves are manufactured in bronze, brass or stainless steel and offer a wide range of connections, for applications up to 250°C. [View Range](#)



LGS® (Liquid, Gas & Steam) valves have a robust and reliable construction designed for the widest range of industrial applications. The LGS® range is suitable for a wide variation in flow characteristics, coping with both low volume and high relief capacity applications. The single trim design means that the components are all common across liquid, gas and steam; and that any LGS® valve can be used in any of these applications. [View Range](#)



Seetru also has a wide range of special purpose valves. The range includes [Change-Over Valves](#) (designed for switching parallel safety valves without interrupting operation), [Minimum Pressure Check Valves](#) (typically suitable for application on compressors), Air-Start Valves (designed to handle a two-stage operation for air starting of engines). We also manufacture a range of [Air Receiver](#) & [In-line Check Valves](#).



The Seetru Quicktester™ is a light-weight, portable valve testing system for compliance with pressure systems safety & equipment regulations. It can be used with plant generated air supplies or with mobile bottled gas. This test bench is supplied with a range of adaptors allowing connection between 1/4" to 1" BSP as standard, additional adaptors are available increasing the connection sizes up to 2" BSP. The Quicktester™ is also available with NPT connection adaptors on request. [More Information](#)



Seetru liquid level gauges are primarily of two types, sight gauges and magnetic float by-pass gauges. Many of the gauges are direct reading though most have optional electronic remote reading systems and computer interfaces. The range includes the Quickmount, Seemag and CPI gauges for industrial and chemical applications and the Seeflex and Seemag for marine applications. [View Range](#)



Seetru Engineering Services (SES) are the service arm of Seetru Limited who are a long established Safety Valve manufacturer of over 68 years. SES has been founded on the ability to react to customers individual requirements and to deliver total engineering solutions that improve the safety, quality, and value of our customer's activities. SES offer a range of 'on-site' and 'off-site' refurbishment and testing services for Safety and Relief Valves. [More information about Seetru Engineering Services](#)



Seetru circular window sight glasses are compact low cost assemblies that provide reliable level indication and positive indication when liquid is present. These screw-in plugs are fitted with high quality glass. They are suitable for a wide variety of liquids including water, oils and lubricants. They operate at temperatures up to 180°C and pressures up to 24 bar g.

[More Information](#)

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Depuis 1953, Produits De Qualités Pour Détecter, Mesurer & Contrôler*