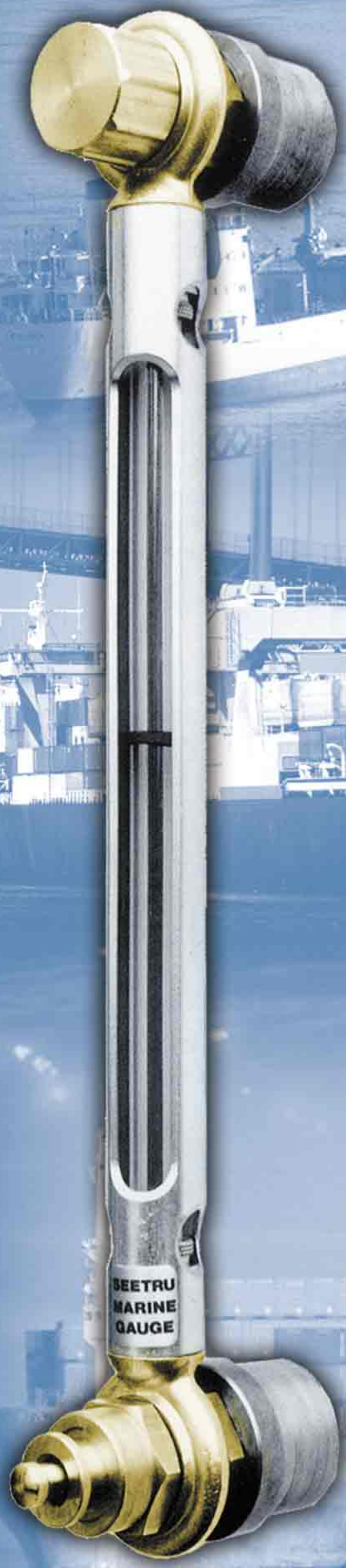
Liquid Level Gauges

Tubular Patent Marine Gauge



Meeting modern requirements for Non-Flammable liquids

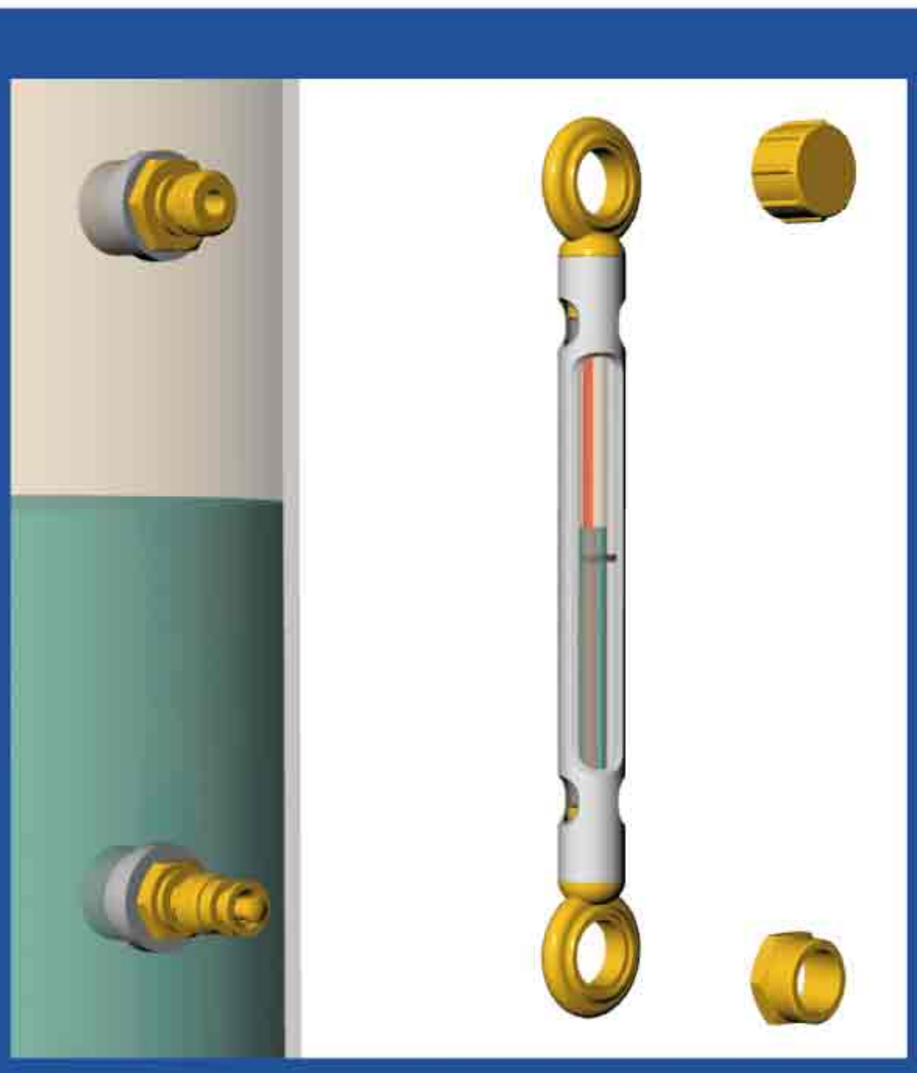
SEETRU
LIMITED

THE SEETRU MARINE GAUGE PROVIDES

Easily dismantled and reassembled without draining the tank

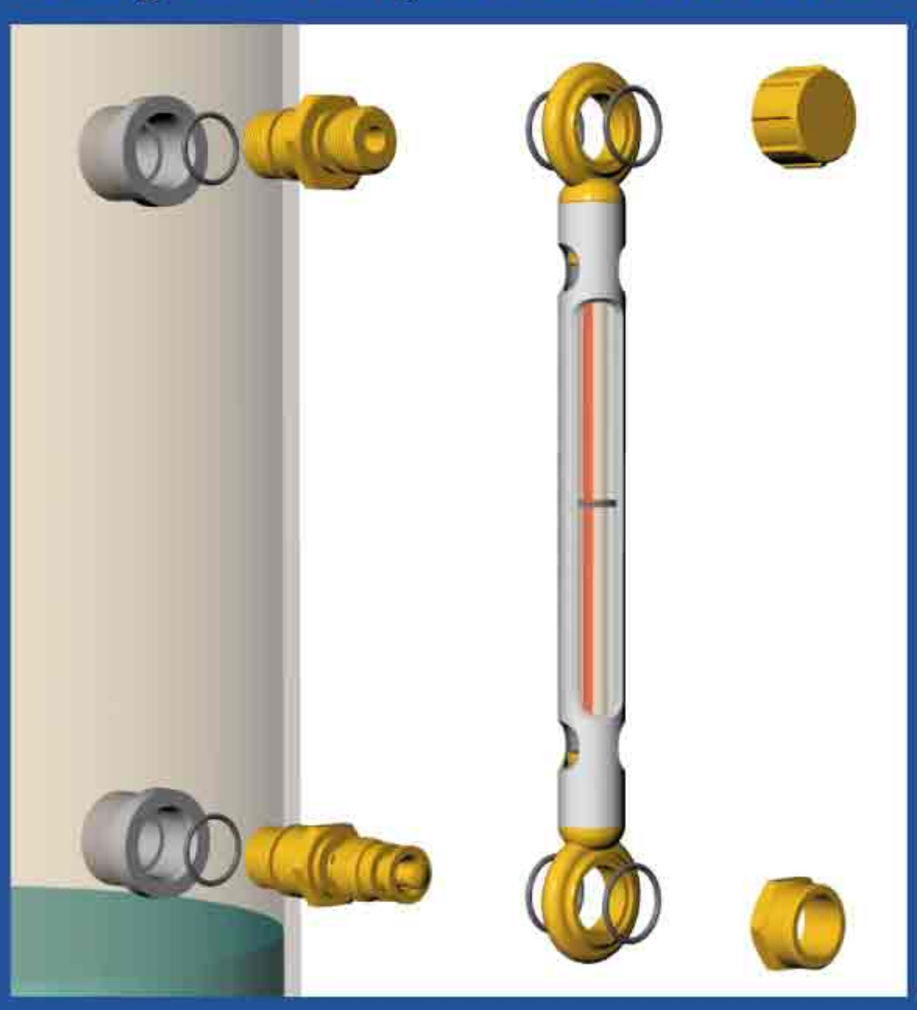
Sealed against external damage

Pushbutton reading



Gauge removed from tank fittings, tank remaining sealed and in service.

Gauge and fittings removed from tank



THE SEETRU MARINE GAUGE is the original sight-tube contents gauge to meet the requirements for non-flammable liquids in tanks, aboard ship. In common with the standard range of Seetru gauges, the Seetru Marine gauge comprises a flange type narrow gauge collar construction into which the sight tube is glanded. The gauge collar renders all Seetru gauges exceptionally neat and compact and enables them to be mounted very close to the tank wall where they are largely protected from external damage. The Seetru Marine gauge includes special additional safety features which enable it to achieve the high standards of reliability required on board ship.

INSTANT DISMANTLING AND RE-ASSEMBLY In the Seetru Marine gauge, the bottom gauge collar is fitted over a compact cylindrical valve body which is permanently located in a special tank boss near the bottom of the tank. There is also an identical collar at the top of the gauge. This is either fitted over a similar valve body or over a union which is in permanent liquid connection with the tank above its maximum liquid level. Retaining nuts secure the gauge unit, complete with collars, to the valve bodies housed in the tank bosses. Retaining nuts need only be finger-tight, as efficient O-rings seal the joints. Only gentle metal-to-metal contact is required at the collar faces. For servicing and cleaning, the gauge is withdrawn from the tank fittings as a complete unit merely by releasing the retaining nuts. The tank remains fully sealed, without draining. Subsequently, the gauge may be re-fitted for use within a few moments.

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 gauge valve(s) is opened manually by pressing a push-rod. When released, the connection between tank and gauge is automatically re-sealed.

SAFE FROM EXTERNAL DAMAGE No amount of damage to the gauge or external fittings on the tank can break the liquid seals: in such an event, the fluid cannot escape. The gauge valve is housed in the rear portion of the valve body, which projects deep into the tank. The glanded push-rod, used to open the valve, is a separate component. It is not even in contact with the valve when sealed. Thus, if the exposed portion of the push-rod is accidentally damaged or broken, it cannot interfere with the safe seating of the valve. The special construction of the valve itself provides absolute sealing against even the most searching liquids. The seal between the valve body and the tank boss is situated near the end of the boss, itself projecting appreciably into the tank. By virtue of the deep-seating of the seal within the very robust tank boss, the seal would remain intact even if the entire external fitting were broken off.





THE HIGHEST SAFETY FACTOR

STURDY CONSTRUCTION The gauge fittings are of the finest quality brass and of substantial yet compact proportions. The sight tube is protected throughout by a metal guard tube.

MAGNIFIED LIQUID LEVEL The rear of the sight tube incorporates a special red marker stripe which is magnified by the liquid contents, clearly indicating the level, even if the liquid itself is colourless.

ECONOMICAL IN PRICE AND MAINTENANCE As Seetru gauges are supplied not only for marine use, but also for all branches of the manufacturing and service industries, large scale production methods enable thoroughly economical first costs to be achieved. Economy in use is ensured by their ease of installation and simple maintenance procedure.

GRADUATION Where a measure of the precise storage volume is required, graduated gauges can be supplied. The guard tube incorporates marked bridges indicating major intervals in gallons or other capacity units. Fine slots are milled in the guard tube to indicate intermediate intervals, thus providing an accurate scale readily visible at a distance. Alternatively, engraved brass scale plates can be provided for affixing alongside the gauge.

HYDRAULIC ACTUATION Remote-controlled or integral hydraulic actuation can be provided for Seetru Marine gauges as an optional extra. This facility is particularly helpful in the case of tall gauges where it would otherwise be difficult to operate the upper and lower push-button valves simultaneously.

ELECTRONIC AND DIGITAL READOUT Remote reading system and/or computer interface options are available to provide a dual system with the advantages of electronic and sight tube systems.

PRODUCT SELECTION

BOTTOM FITTING	TOP FITTING	MATERIAL OF CONSTRUCTION	FITTINGS PART NUMBER
Pushbutton valve	Valveless tank return	Brass	G21113121
		Stainless Steel	G21122121
Pushbutton valve	Pushbutton valve	Brass	G21113122
		Stainless Steel	G21122122
Pushbutton valve	Pipe Union Connection	Brass	G21113123
		Stainless Steel	G21122123
Push button valve with hydraulic actuation	Push button valve with hydraulic actuation	Brass	G21113144
		Stainless Steel	G21122144

OPTIONS

GUARD TUBE Options: Zinc plated mild steel
Stainless steel

SIGHT TUBE Options: Borosilicate glass
Polycarbonate tube

SEAL Options: Nitrile rubber
Viton rubber

GAUGE SELECTION EXAMPLE

LENGTH: Customer to specify centre to centre length required (minimum length of 150mm)

FITTINGS: G21113121

OPTION SELECTION:

GUARD TUBE: Zinc plated mild steel
SIGHT TUBE: Borosilicate glass
SEAL MATERIAL: Nitrile rubber

OTHER SEETRU MODELS FOR THE MARINE INDUSTRY

SEEFLEX - Pushbutton tank contents gauge for oil tanks with reflex glass to comply with the requirements of Solas.

QUICKMOUNT - Continuous reading tubular tank contents gauge for water with manual isolating valves.

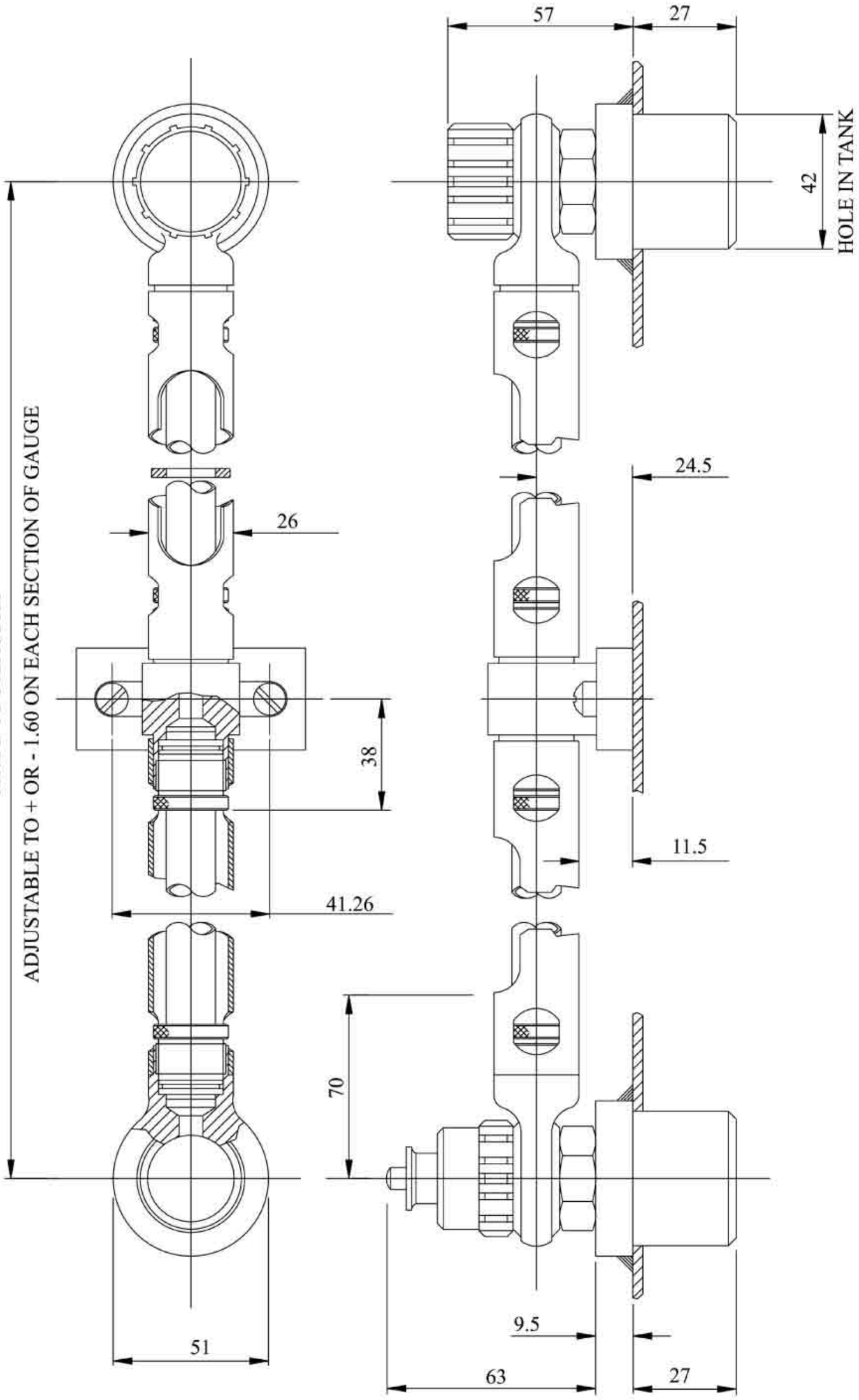
SEEMAG - Unique and economic magnetic float by-pass indicator. Options include: electrical level switches, electronic readout, computer interface, heating jacket.

ADMIRALTY - Designed for arduous requirements such as underwater shock loads and tank deflection, this gauge can accommodate connection misalignment along vertical and two horizontal axes.

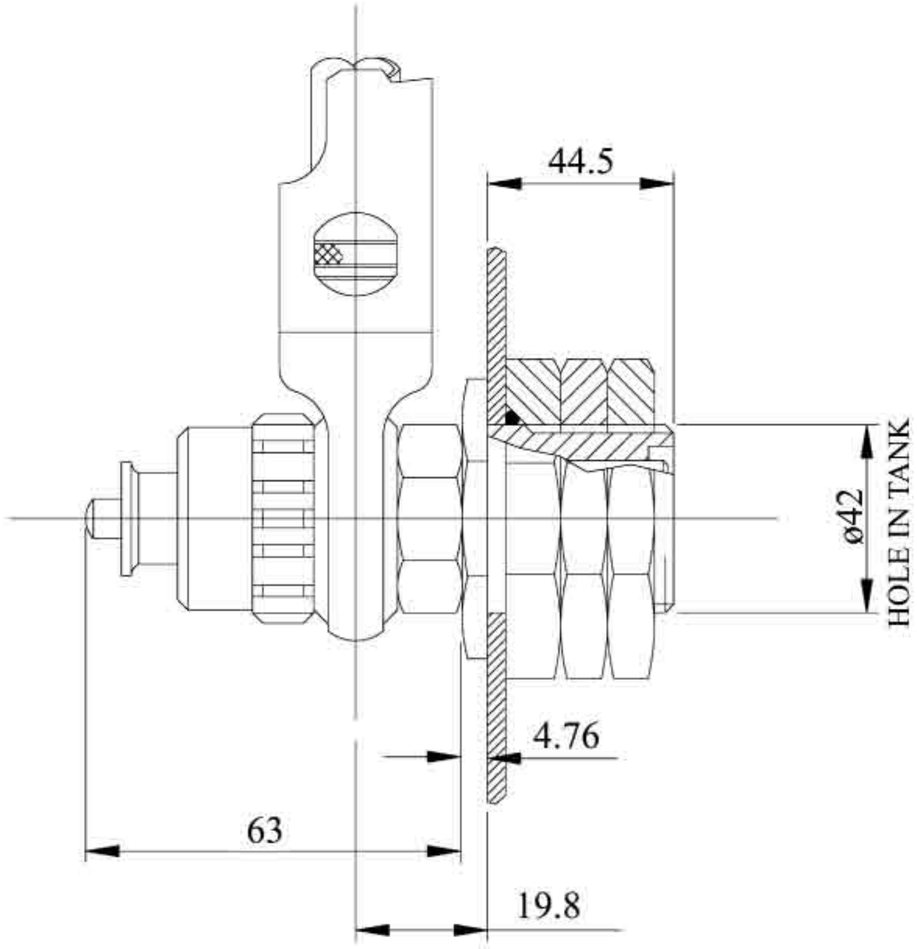
Seetru also manufacture: Pressure vessel control valves for engine air start, Safety relief valves, Check valves.

INSTALLATION DIMENSIONS

SUGGESTIONS FOR FITTING THE MARINE GAUGE The Seetru Marine gauge is supplied complete with tank bosses either for welding in position or for fitting by means of special sealing nuts without welding. Where the welded pattern bosses are used it is suggested that the gauge, complete with the bosses, be offered to the holes in the tank wall. The bosses can then be tack-welded to ensure correct positioning. The gauge and mounting fittings can then be removed and the inside of the bosses protected with graphite grease to prevent oxidation during final welding. After welding the grease should be removed, and the fittings and gauge can then be reassembled to the tank. Where the alternative non-weld pattern bosses are supplied, these can be positioned and tightened without removing the gauge. If, after fitting the tank bosses, a length adjustment of the gauge is still required, this can be achieved by slackening the sight tube gland nuts and re-tightening after the gauge collars have been correctly aligned. For gauges exceeding 1 metre in length, intermediate support brackets are supplied which divide the sight tubes into lengths not exceeding 1metre. In such cases the gauge is supplied in sections, marked for easy assembly. In this way, Seetru gauges are also safeguarded against damage in transit.



Meeting requirements for non-flammable liquids



Alternative tank boss secured to tank by sealed retaining nut. Requires no welding.

The contents of this leaflet do not constitue an offer. SEETRU LIMITED reserve the right while maintaining the essential characteristics of the equipment described and illustrated to amend specification without notice.

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EDITION B