

## Life Raft - Product Information



### **Leaffield Marine – Gas Inflation Systems for Life-rafts**

Leaffield Marine is the World leader in the design, development and manufacture of valves and inflation systems for a wide range of inflatable structures, including Life Rafts, Inflatable Boats, Marine Evacuation Systems and River Rafts.

We are renowned for our engineering strength and work closely with customers in the product design phase, ensuring our products fully satisfy our customers' needs.

To ensure consistent and reliable performance in critical applications, all design and production is carried out to Quality standard BS EN ISO9001: 2008

Leaffield Marine are accredited with Approved Exporter Status for beneficial trade with EFTA countries entered into the Free Trade Agreement (FTA).

### GIS System

This is the original system developed by Leaffield Marine, and was introduced in 1992. It is well proven with over 120,000 manufactured, and is used by some of the world's leading life raft manufacturers on their SOLAS life-rafts. The GIS system uses a patented cutter system to ensure consistent, rapid inflation times, even on the largest life rafts.

Due to the safety critical nature of this product and number of variants available, we suggest that you contact Leaffield Marine directly to discuss your particular requirement.



#### Contact Details

Leaffield Marine Ltd.,  
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Tel: +44 (0)1225 899550  
Fax: +44 (0)1225 709587  
Email: [sales@leaffieldmarine.co.uk](mailto:sales@leaffieldmarine.co.uk)  
Website: [www.leaffieldmarine.co.uk](http://www.leaffieldmarine.co.uk)

## General benefits of the Gas Inflation Systems (GIS Type)

- Extremely reliable and rugged.
- Fast and consistent inflation times.
- CE standard Overpressure Burst Disc fitted to prevent cylinder exceeding test pressure.
- Operate using CO2, CO2/Nitrogen, air and pure Nitrogen.
- Activation load between 60 to 100 newtons.
- Hose assemblies can be supplied from our in-house manufacturing facility.
- Full activation regardless of painter/lanyard pull speed.
- We have versions available from 250 - to 450 bar.
- Electronically Activated Option
- Available with internal or external overpressure venting.
- Available with a pressure gauge.
- Water activated version available.
- Servo system available to allow multiple cylinder firing.
- ISO 15738 approved for SOLAS use.
- Approved to European Pressure Equipment Directive 2014/68/EU.
- Typical uses include SOLAS life-rafts, Marine Evacuation Systems, RIB self-righting bags and buoyancy bag inflation.

These are safety critical assemblies and must only be installed and serviced in accordance with Leaffield Marine Ltd instructions.

A wide range of Leaffield GIS Tools & Accessories are available:

- GIS Cylinder Valve Filling Tool – C92100
- GIS Operating Head Loading Tool - 0807001
- GIS Diaphragm Extractor Tool – C99260
- GIS Plug Gauge – B15907

C92100



0807001



C99260



B15907



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## SPARE PARTS FOR GIS

	<b>Tandem Inlet Valve (Specify Jet Size)</b>	<b>0127000 – 0127200</b>
	<b>Inlet Valve - G3/8 Male Thread (specify jet size)</b>	<b>B911604</b>
	<b>Diaphragm Assembly 250bar</b>	<b>B91221</b>
	<b>Safety Pin Assembly</b>	<b>149001</b>
	<b>Recoil Cap G3/8</b>	<b>B15514</b>

**For all spare parts, please contact Leaffield Marine Ltd.**

**User Manuals are available from Leaffield Marine Ltd.**

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## GIST System

The GIST system, with its patented torsion operation, was developed by Leaffield Marine to provide a compact and cost-effective system. By integrating the hose and inlet valve designs, further savings in weight and fitting time have been achieved.

This system is widely used in the leisure life-raft market due to its small size and is also used on the largest SOLAS life rafts due to its high flow and ruggedness. There are currently over 100,000 systems in use worldwide.

Due to the safety critical nature of this product and number of variants available, we suggest that you contact Leaffield Marine directly to discuss your particular requirement.



### General benefits of the Gas Inflation Systems (GIST Type)

- Compact yet rugged and extremely reliable.
- Twin outlet.
- Fast consistent inflation times (even on larger systems).
- CE standard Overpressure Burst Disc is fitted to prevent cylinder exceeding test pressure.
- Operates using CO<sub>2</sub>, CO<sub>2</sub>/Nitrogen, Air and pure Nitrogen.
- Activation load between 80 to 110 newtons.
- Hose assemblies can be supplied from our in-house manufacturing facility.
- Full activation regardless of painter/lanyard pull speed.
- For use with up to 300 bar test pressure cylinders.
- Approved to European Pressure Equipment Directive 2014/68/EU
- ISO 15738 approved for SOLAS use.
- ISO 9650 approved for leisure life-rafts.
- Used on SOLAS life-rafts and Marine Evacuation Systems.

These are safety critical assemblies and must only be installed and serviced in accordance with Leaffield Marine Ltd instructions.

For Gas Inlet Valves and hoses for use with this GIST system, please see the GIVT and Hose section on our website.

For Alternative GIS or Gas Inflation System, please contact Leaffield Marine.

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A wide range of Leaffield GIST Tools & Accessories are available:

- GIST Cylinder Valve Filling Tool – 03240FTA
- GIST Filling Adaptor 3/8 - 617000
- GIST Operating Head Loading Tool – 17854
- Spanner Assembly – Inlet Valve - 032000

03240FTA



617000



17854



032000



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	<b>Break Stem Seal (all pressures)</b>	<b>03020BSSNNN</b>
	<b>Transit Plug</b>	<b>19334</b>
	<b>Actuator Cable Assembly</b>	<b>1103004</b>
	<b>Actuator Cable Assembly (with a short loop)</b>	<b>1104003</b>
	<b>Operating Head Screws x 2</b>	<b>78201214</b>
	<b>Connector M16 x 1.5</b>	<b>032400010</b>
	<b>Connector M16 c/w O Ring Seal</b>	<b>0907003</b>
	<b>Rigid Link</b>	<b>18442</b>
	<b>Outlet Port Adaptor Kit Blanking Plug</b>	<b>0626000</b>

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