

**ADVISOR****The Regulations**

Gas Inflation Lifejackets are divided into the categories of 150 and 275 Newtons, depending on the buoyancy they offer. Lalizas gas inflation lifejackets are approved according to ISO 12402-2 standard for the 275 Newton category & ISO 12402-3 standard for the 150 Newton category. The ISO 12402-2 & 3 standards set the minimum buoyancy that a lifejacket should have according to the size of the user. For example, a 150 Nt inflatable lifejacket, designed for an adult of approximately 70kg, should offer at least 150Newtons buoyancy. Lalizas products have been tested for their behaviour in the water, their endurance and for many more parameters, as required by the regulations. In the case of the automatic jacket, the tests which are required by the regulations are numerous and stringent. Gas Inflation Lifejackets, with 150 & 275 Newton buoyancy, are designed and tested so that, in the event you lose consciousness and faced down in the water, they will turn your face up within 5 seconds and keep the mouth freeboard no less than 10 & 12 cm respectively above the water surface. This type of product must have the CE certification, as it is included in the Personal Protective Equipment (PPE) Directive (89/686/EC) of the European Union. According to this Directive, it is forbidden to manufacture, distribute to vending points and sell products that do not have the CE certification and have not passed all the required procedures for their approval. In most cases, the products available in the market meet the required specifications. Nevertheless, there is the possibility that unsuitable or non certified products are also available. Thus, it is imperative that the end user is always informed and pays attention to the products available in each store.

**Instructions of Use**

**Donning:** Gas inflation Lifejackets are worn in the same way as conventional lifejackets. They fasten at the front with a durable, inox buckle. The models with a safety harness can be combined with a safety line.

**Function:** Depending on the type of mechanism available in each lifejacket, there are three ways to operate it.

- **Automatic Inflation:** The automatic device contains a special paper, which dissolves when it comes in contact with water and releases a compressed spring. After a series of mechanical actions, the CO<sub>2</sub> gas cylinder is pierced and the lifejacket is inflated. The automatic inflation device also allows for manual activation, which is operated as described below.

- **Manual Inflation:** The manual device is operated by pulling the cord downwards. The CO<sub>2</sub> gas cylinder is pierced and the lifejacket is inflated.

- **Oral tube:** All gas inflation lifejackets have also an oral tube as a back up or just to top up the lifejacket. In case the manual or automatic device does not operate (e.g. the cylinder has already been used and not replaced) then you can inflate the lifejacket by blowing into the oral tube. Although it may seem difficult, relevant tests have shown that this can be done in just one minute.

**Service / Replacement**

**Service:** Lalizas recommends that once a year your gas inflation lifejackets should be inspected at the Lalizas Service station. As with all Lalizas products, gas inflation lifejackets are constructed to endure harsh conditions. Nevertheless, should any of the following occurs for any reason, e.g. improper use, you should contact the Lalizas Service Station as soon as possible:

- Signs of corrosion on the CO<sub>2</sub> gas cylinder
- The device and/or the oral tube appear to have cracks
- Tears in the fabric or the seams
- Colour change
- The spare parts' expiry date has passed

**Replacement:**

In the event of your life-jacket firing for any reason - you can purchase any required spare parts from store selling stocking Lalizas products. When all green indicators are present in the manual or automatic system of the lifejacket (page 8) there is no need to replace any of the parts. In all other cases, where there is a red indicator, as shown in page 8, you should replace any relevant parts.

If you follow all instructions correctly and have your lifejacket inspected once a year by a Lalizas Service station, you will ensure its longevity and proper operation at time of an emergency.

**Inflatable Life Jacket Ypsilon 150N, ISO 12402-3 with automatic inflator Lalizas JS1**

The Ypsilon life jacket is an ergonomic life jacket offered with soft neoprene neck and it's available with automatic inflator. It features one chamber which can be inflated via Lalizas auto operation head (20260, certified per ISO 12402-7) and bear oral inflation tube incorporating Lalizas valves (20610, certified per ISO 12402-7). The inflatable bladder, which is manufactured from High Visibility Yellow fabric, is folded into a valise with Velcro closure and is also equipped with Lalizas retro reflective tapes (70180) and whistle (70010, certified per ISO 12402-7 & 8). The transparent area allows the user to check the operating head function. They are provided with lifting loop and heavy duty D-ring.

Code.....71725

**LALIZAS JS1****Inflatable Life Jacket Epsilon 150N, ISO 12402-3 with HAMMAR MA1 inflator**

The Epsilon life jacket provides optimal protection whilst allowing maximum freedom of movement and comfort with high performance. It features a soft neoprene fabric for the neck and one chamber which can be inflated via MA1 Hydrostatic Inflator for life jacket auto operation head and bear oral inflation tube incorporating Lalizas valves (20610, certified per ISO 12402-7). The gas cylinder is located inside the Lifejacket bladder, for maximum protection against corrosion and reduced snagging hazard. Its unique hydrostatic valve protects the water sensitive element, so there is no activation in rain, spray, splash and humidity. Additionally there is no service requirement of the inflator for 5 years. They are provided with lifting loop and heavy duty D-ring.

Code.....71724

**HAMMAR MA1**

## Inflatable Lifejackets

### SOLAS Inflatable Lifejackets 150N & 275N

Lalzas Inflatable lifejackets Lamda 150N, Lamda 275N & Delta 150N follow the latest SOLAS specifications for ultimate safety, while on board. They feature twin chambers for double security and each chamber can be inflated via its individual Lalzas automatic operating head (20260, certified per ISO 12402-7), which also supports manual activation. The inflatable chamber, which is made of High Visibility Yellow fabric, is folded into a valise with Velcro closure and its inflation tube incorporates the new Lalzas red pressure relief valves (20611, certified per ISO 12402-7). All models are equipped with Lalzas retro reflective tapes (70180), a whistle (70010, certified per ISO 12402-7 & 8) and a lifting loop with yellow buddy line for easier rescue. Additionally, all approved Lalzas SOLAS lifejacket flashlights (70280, 71209, 71210) can be added. These extra user-friendly lifejackets, provide the maximum safety thanks to their fast inflation ability, even at very low temperatures and are available in one adult size, which can be easily adjusted to passengers with chest size up to 175cm or more, with the use of the Lalzas waist belt extender (71161).

All the models of the Lalzas SOLAS Inflatable Lifejackets series are designed to comply with the highest standards and are manufactured using top quality materials, in order to withstand the most adverse conditions in case of emergency. They are available in two different types, standard valise and belt-pack and their lightweight design makes them ideal for use on passenger boats, commercial vessels, yachts, fishing vessels and in all ships where storage space is limited.

The new top-of-the-range Lalzas SOLAS Lamda 275N inflatable lifejacket offers the ultimate sense of security against every situation, in any sea across the world, thanks to the great size of its chamber and the 275 Newton buoyancy provided by the double 60gr CO<sub>2</sub> cylinders.

### Lifejacket Lamda Auto, SOLAS

Code	71107	71216
Newton	150	275



Front



Back



Lifejacket Belt-Pack, Delta Auto 150N, SOLAS

Code.....71108



Front



0098



Lifejacket LED Flashing Light "Safelite II" water activated ON-OFF, L.S.A.Code

Code.....71209



Inflatable Lifejacket Protective Work Cover

Code.....71211



Waist Belt Extender for SOLAS Infl. Lifejackets

Code.....71161



### Inflatable Lifejackets Omega 275N, CE ISO 12402-2

The new range of Omega inflatable lifejackets 275N complies with ISO 12402-2. Omega gas inflation lifejackets' slim fit, light weight design and rugged constructions are combined to form the ultimate in lifejacket technology. According to each code, they feature one chamber which can be inflated via Lalizas manual operating head (20220, certified per ISO 12402-7) or via Lalizas auto operation head (20260, certified per ISO 12402-7) and bear oral inflation tube incorporating Lalizas valves (20610, certified per ISO 12402-7). The inflatable bladder, which is made of High Visibility Yellow fabric, is folded into a nylon red valise with Velcro closure and it is also equipped with Lalizas retro reflective tapes (70180) and whistle (70010, certified per ISO 12402-7 & 8). They are provided with lifting loop and heavy duty D-ring for easier rescue.

Code	71103	71104	71105	71106
Adult	•	•	•	•
Automatic Gas	•		•	
Manual Gas		•		•
With Harness	•	•		



#### Omega Lifejackets feature the following characteristics:

- CE ISO 12402-2 approval
- CE ISO 12401 approval on all integral black harnesses
- Twin welded air bladder seam for double security
- Ultra reliable firing mechanism
- Compatible with all major suppliers CO<sub>2</sub> bottles
- Commercial heavy duty weight protective outer cover
- Easy re-packing
- Economical re-arming kits
- 290 Newtons of buoyancy when fully inflated
- Auto heads designed not to fire in heavy weather
- Maintain the correct flotation position in the water (face-up)
- Fully adjustable straps
- Heavy-Duty, Stainless D-Rings for attaching a safety line



### Inflatable Lifejackets Alpha 150N, CE ISO 12402 - 3

The Alpha gas inflation lifejacket has been designed to offer affordable safety for all. Its compact design, low weight, high quality construction is directly attributable to our class leading Omega lifejacket. The Alpha lifejacket offers a more rationalised design for the coastal and inshore yachtsmen. According to each code, they feature one chamber which can be inflated via Lalizas manual operating head (20220, certified per ISO 12402-7) or via Lalizas auto operation head (20260, certified per ISO 12402-7) and bear oral inflation tube incorporating Lalizas valves (20610, certified per ISO 12402-7). The inflatable bladder, which is made of High Visibility Yellow fabric, is folded into a nylon red valise with Velcro closure and silver ending and it is also equipped with Lalizas retro reflective tapes (70180) and whistle (70020, certified per ISO 12402-7 & 8). They are provided with lifting loop and heavy duty D-ring for easier rescue.



Code	71098	71099	71100	71101	71102
Adult	•	•	•	•	
Child					•
Automatic Gas	•		•		•
Manual Gas		•		•	
With Harness	•	•			•



## Inflatable Lifejackets

### Inflatable Lifejackets Sigma 150N, CE ISO 12402-3

The Sigma lifejacket is an economic lifejacket available in auto and manual version. The ultra lightweight design makes Sigma comfortable to wear and its webbing system makes it a user-friendly lifejacket. This cost effective lifejacket is available, in red and its transparent area allows the user to check the operating head function. According to each code, they feature one chamber which can be inflated via Lalizas manual operating head (20220, certified per ISO 12402-7) or via Lalizas auto operation head (20260, certified per ISO 12402-7) and bear oral inflation tube incorporating Lalizas valves (20610, certified per ISO 12402-7). The inflatable bladder, which is made of High Visibility Yellow fabric, is folded into a nylon red valise with Velcro closure and it is also equipped with Lalizas retro reflective tapes (70180) and whistle (70010, certified per ISO 12402-7 & 8). They are provided with lifting loop and heavy duty D-ring for easier rescue.



Code	71094	71095	71096	71097
Adult	•	•	•	•
Automatic Gas	•		•	
Manual Gas		•		•
With Harness	•	•		

#### Alpha and Sigma Lifejackets feature the following characteristics:

- CE ISO 12402-3 approval
- CE ISO 12401 approval on all integral black harnesses
- Twin welded air bladder seam for double security (Alpha)
- Ultra reliable firing mechanism
- Compatible with all major suppliers CO<sub>2</sub> bottles
- Commercial heavy duty weight protective outer cover
- Easy re-packing
- Economical re-arming kits
- 170 Newtons of buoyancy when fully inflated
- Auto heads designed not to fire in heavy weather
- Maintain the correct flotation position in the water (face-up)
- Fully adjustable straps
- Heavy-Duty, Stainless D-Rings for attachment of a safety line



The transparent area allows the user to check the operating head function. The green indicator on the safety means "Ready for action", while the red indicator means "NOT ready for action"

### Inflatable Lifejackets Belt-Pack, Delta 150N, CE ISO 12402-3

Lalizas ISO 12402-3, Belt pack ISO Delta 150N inflatable lifejackets, comply with the latest ISO 12402-3 specifications for ultimate safety while on board. They feature one chamber which can be inflated via a Lalizas manual (71109) or automatic (71201) operating head (20220, certified per ISO 12402-7) respectively and bears oral inflation tube, incorporating Lalizas black valves (20610, certified per ISO 12402-7). The inflatable bladder, which is made of High Visibility Yellow fabric, is folded into a nylon valise with Velcro closure and it is also equipped with Lalizas retro reflective tapes (70180) and whistle (70010, certified per ISO 12402-7 & 8). The ISO Delta user-friendly lifejackets provide the maximum safety, thanks to their fast inflation ability, even at very low temperatures. Ideal for all ships, especially the small ones where storage space is limited. They are provided with lifting loop, for easier rescue.



Front

Code	71109	71201
Manual Gas	•	
Automatic Gas		•

Manual System Lalizas	Automatic System Lalizas
<p><b>OK</b></p> <p>With green "Ready for action" tag</p>	<p><b>OK</b></p> <p>With green "Ready for action" tag</p> <p>Green Indicator "Ready for action"</p>

Manual System Lalizas	Automatic System Lalizas
<p><b>STOP</b></p> <p>Without green "Ready for action" tag</p>	<p><b>STOP</b></p> <p>Without green "Ready for action" tag</p> <p>Red Indicator "NOT Ready for action"</p>
	<p><b>STOP</b></p> <p>Without green "Ready for action" tag</p> <p>Green Indicator "Ready for action"</p>
	<p><b>STOP</b></p> <p>Without green "Ready for action" tag</p> <p>Red Indicator "NOT Ready for action"</p>





**LALIZAS Auto re-arm kit for JS1 adult life jacket**

Code.....20190



**LALIZAS Manual re-arm kit for adult life jacket & safety pin**

Code.....71323



**LALIZAS Auto re-arm kit for JS1 child life jacket**

Code.....20200



**LALIZAS Auto re-arm bobines set of 4 for adult & child life jacket**

Code.....71324



**LALIZAS Auto re-arm mechanism Hammar MA1 & cylinder 33gr**

Code.....71741



**CO<sub>2</sub> Gas Cylinder, 60gr.**

Code....02197



**CO<sub>2</sub> Gas Cylinder, 33gr.**

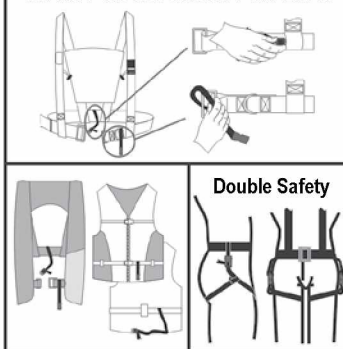
Code....00348



**CO<sub>2</sub> Gas Cylinder, 22gr.**

Code....00349

#### FITTING INSTRUCTIONS FOR 20210



**Harness & Lifejacket crotch strap**

The crotch strap can be used with all Lalizas lifejackets / buoyancy aids and harnesses.

Code.....20210



**Waist Belt Extender for SOLAS Infl. Lifejackets**

Code.....71161



Code.....71211

#### Inflatable Lifejacket Protective Work Cover

- Provides shielding against heat, sparks, flame, soft chemicals
- Easy fit / Simple to use design
- Lightweight fabric
- Does not affect the operation, behaviour & water performance of the protected lifejacket



**Suitable for**

71096 - 71097

71107



1. Turn the protective work cover, so that you face its back side
2. Open the cover around its Velcro tape and unfold it
3. While unfolded, make sure the square belt edges lie towards the center



4. Turn the inflatable lifejacket, so that you face its back side
5. Place the lifejacket on the open protective cover
6. Pass the unfolded cover side through the lifejacket's center



7. Open the square left belt edge of the cover



8. Place it under the center of the belt



9. Then pass it around the lifejacket's left belt holder (under the belt)



10. Close the cover's belt edge & secure the lifejacket's belt holder



11. Repeat the procedure with the right square belt edge of the cover



12. Close the cover around the lifejacket, using the cover's peripheral velcro tape



13. Once the protective work cover is properly adjusted, the life-jacket is ready for use

## Service Inflatable Lifejackets

Lalizas recommends that once a year your gas inflation lifejackets are inspected at the Lalizas Service station. As with all Lalizas products, gas inflation lifejackets are constructed to endure harsh conditions. Nevertheless, should one of the following takes place for any reason, e.g. improper use, you should contact the Lalizas Service Station as soon as possible:

- Signs of corrosion on the CO<sub>2</sub> gas cylinder
- The device and/or the oral tube appear to have cracks
- Tears in the fabric or the seams
- Colour change
- The spare parts' expiry date has passed

If you follow properly the instructions of use and have your lifejacket inspected once a year by Lalizas Service station, you ensure its longevity and proper operation at time of an emergency.

Technical Characteristics for Gas Inflation Omega / Alpha / Sigma / Lamda / Delta Lifejackets

Code	Approval		Automatic System	Manual System	Child Lifejacket	CO <sub>2</sub> Gas Cylinder			Twin welded air bladder seam	Twin Chambers	Retro reflective tape	Oral-tube	Stainless buckle	Safety harness	Whistle	Heavy-Duty, Stainless D-Ring	Colour
	CE ISO 12402	SOLAS				33gr	60gr	22gr									
71094	✓		✓			✓					✓	✓	✓	✓	✓		Red
71095	✓			✓		✓					✓	✓	✓	✓	✓		Red
71096	✓		✓			✓					✓	✓	✓	✓	✓		Red
71097	✓			✓		✓					✓	✓	✓	✓	✓		Red
71098	✓		✓			✓			✓		✓	✓	✓	✓	✓	✓	Red
71099	✓			✓		✓			✓		✓	✓	✓	✓	✓	✓	Red
71100	✓		✓			✓			✓		✓	✓	✓	✓	✓	✓	Red
71101	✓			✓		✓			✓		✓	✓	✓	✓	✓	✓	Red
71102	✓		✓		✓			✓	✓		✓	✓	✓	✓	✓	✓	Red
71103	✓		✓				✓		✓		✓	✓	✓	✓	✓	✓	Red
71104	✓			✓			✓		✓		✓	✓	✓	✓	✓	✓	Red
71105	✓		✓				✓		✓		✓	✓	✓	✓	✓	✓	Red
71106	✓			✓			✓		✓		✓	✓	✓	✓	✓	✓	Red
71107		✓	✓			✓				✓	✓	✓	✓	✓	✓		Red
71216	✓		✓				✓			✓	✓	✓	✓	✓	✓		Red
71108		✓	✓			✓				✓	✓	✓	✓	✓	✓		Black
71109	✓			✓		✓					✓	✓	✓	✓	✓		Red
71201	✓		✓			✓					✓	✓	✓	✓	✓		Red
71724	✓		✓			✓					✓	✓	✓	✓	✓	✓	Red / Black
71728	✓		✓			✓					✓	✓	✓	✓	✓	✓	Red / Black

How you wear Gas Inflation Lifejacket



How to manually activate an inflatable lifejacket

