



International **Safety** Products

# CHALLENGER LIFEJACKET RANGE 2019

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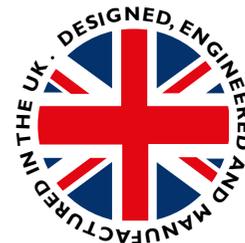
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# WHO ARE WE?

**SAFETY** is at the heart of everything at ISP. We design, engineer and manufacture inflatable lifejackets of the highest performance and quality, giving peace of mind that if disaster strikes you have the best possible protection available.

We have built our reputation with 34 years of engineering experience gained in military, commercial and leisure markets combined with continuous product testing in the most extreme and hostile seascapes imaginable. This with the most rigorous in house and lab testing drives market leading innovation leaving you wearing the most highly developed and reliable lifejackets on the planet.



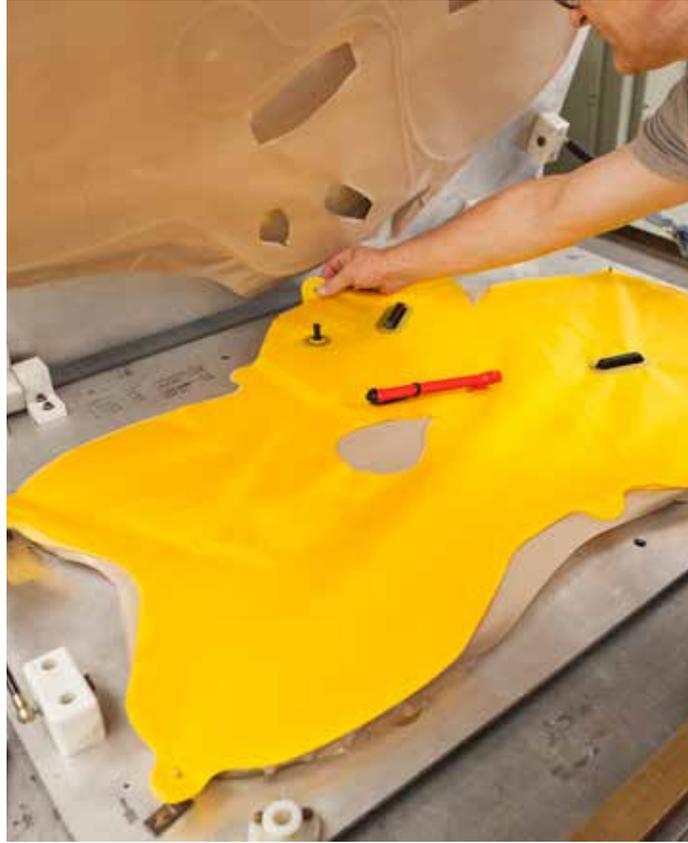
# DESIGN EXCELLENCE



Our designers are fanatical about **SAFETY, DETAIL, FIT** and **STYLE**. From the precise measurement of each bladder, its speed of inflation, freeboard and turn speed to the cut and placement of every panel, buckle and harness, ensuring the most comfortable ergonomic fit imaginable.

ISP designers demand that fit and style are combined with ultimate cutting-edge performance. We are the world's leading marine inflatable lifejacket manufacturer for a reason and only work with the best manufacturers and suppliers available so you can be assured of the ISP quality every single time.

# BESPOKE DESIGN & MANUFACTURING



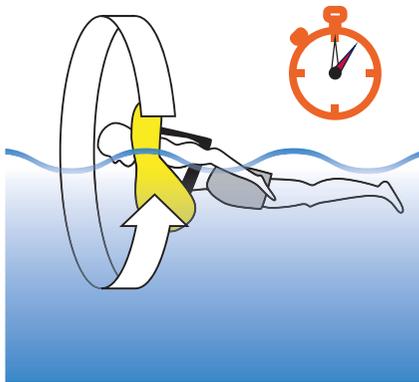


You can put your trust in ISP whether it's your people in our products or your brand on them. ISP understands that building and maintaining a business relationship and a brand is a demanding process requiring absolute attention to detail.

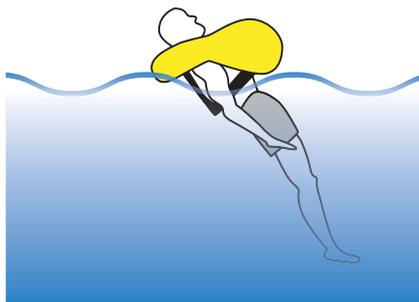
As a world leader in the manufacture and design of leisure, military and commercial inflatable lifejackets we have the experience, specialist safety expertise and the total manufacturing efficiency to offer you confidential support in developing a product that will meet your exacting requirements and the needs of the end user.

ISP's expertise and knowledge includes working as a Design Authority to sections of the MoD and catering for some of the biggest leisure brands in the market, and have numerous accreditations in our portfolio. With our leisure customers we have supported the development of 'own label' jackets which fully complement their brand and product range. We offer the widest possible choice of fabrics, buoyancies, inflation mechanisms and logo styling. Using the very latest designs and technologies available, ISP will work with you to ensure that lifejackets offered to the market are at the forefront of the industry demands.

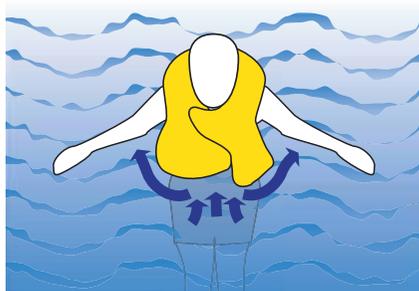




1. Wave Barrier technology delivers sub 5 seconds  
• super-fast turn speed.



2. The wearer is placed on their back with airways  
raised clear above the waterline delivering  
maximum freeboard.



3. The interlocking wave barrier bladder blocks the  
flow of water into the wearers airways, massively  
reducing the risk of secondary drowning.



# WAVE BARRIER TECHNOLOGY

ISP's range of bladders includes the unique patented interlock bladder design with **WAVE BARRIER** technology. The design is the culmination of years of design expertise and knowledge working in tandem with test houses and approval bodies.

The bladder delivers a sub 5 second super-fast turn speed placing the wearer on their back with airways raised clearly above the waterline delivering maximum freeboard. The two lobes of the bladder overlap in the middle creating a resistant Wave Barrier keeping the wearers airways clear of the water and massively reducing the risk of secondary drowning\*.

\*Secondary drowning is when the airways open up, letting water into the lungs where it builds up, causing a condition called pulmonary edema. The end result is troubled breathing that can lead to drowning.

# Challenger

**WORKSAFE 170 | WORKSAFE 300 | WORKSAFE PRO 170**

**WORKSAFE PRO 300 | SOLAS FLEXI-WING 150 | INTERLOCK 275**

**SOLAS AQUA JUNIOR | WORKSAFE PRO AMBULANCE**

**WORKSAFE PRO FIRE | WORKSAFE PRO POLICE**

**INTERLOCK 275 SERIES III OFFSHORE**



In the 2019 Challenger range, ISP has developed a consolidated range of commercial marine workwear lifejackets which carry all the relevant approvals and accreditations. This gives our customers the assurance of safety when operating in demanding and often hazardous situations. The interlocking lobe design used provides in-water protection by channeling water and spray away from the wearers airways, whilst optional AIS integration will increase your chances of a quick recovery, should the unexpected happen.



The Challenger Worksafe lifejacket is designed to be easy to don, comfortable and unrestricted to wear when performing heavy manual work.

The Worksafe can also be fitted with a fire retardant cover for wear when performing tasks such as welding (PVC, Nylon or clear painters covers are also available).

The Challenger Worksafe incorporates the patented interlocking bladder which self-rights the wearer in under five seconds, (even if they are unconscious) providing an effective wave barrier which prevents water from being channelled into the wearers airways.

**Image: Worksafe 170N, Red Nylon Deck Harness.**

#### KEY FEATURES

- Wave barrier technology
- Stainless steel front buckle fastening
- Tailored fit
- Fitted lifting becket
- Whistle
- Hook & loop quick burst cover
- Reflective binding on outer cover
- AIS compatible

#### OPTIONS

- Various cover options available including; Orange wipe clean, heavy duty PVC, fire retardant, red Nylon and antistatic
- Sprayhood
- Lifejacket light
- Crotch strap
- Stainless steel deck harness (Harness version only)
- United Moulders or Hammar also available
- Auto or Manual

#### ORDERING INFORMATION

##### WORKSAFE 170

Part No.	Description
10-ISP-085I-003	HR Auto Std Red Nylon
10-ISP-085I-004	HR Auto Deck Red Nylon
10-ISP-085I-009	HR Auto Std Orange PVC
10-ISP-085I-010	HR Auto Deck Orange PVC

##### WORKSAFE 300

Part No.	Description
10-ISP-044I-013	HR Auto Std, Red Nylon
10-ISP-044I-027	HR Auto Deck, Red Nylon
10-ISP-044I-017	HR Auto Std, Orange PVC
10-ISP-044I-028	HR Auto Deck, Orange PVC

# Challenger

## WORKSAFE 170 & 300

#### Approval

ISO 12402

#### Buoyancy

170 - 170N (Actual)

150N (Category)

300 - 300N (Actual)

275N (Category)

#### Flotation

Automatic gas inflation

#### Operating head

Halkey Roberts Alpha

Automatic

#### Chambers

Single



# Challenger

## WORKSAFE PRO 170 & 300

### Approval

ISO 12402

### Buoyancy

170 - 170N (Actual)

150N (Category)

300 - 300N (Actual)

275N (Category)

### Flotation

Automatic gas inflation

### Operating head

UML Pro Sensor

Automatic

### Chambers

Single



### KEY FEATURES

- Ergonomically designed
- AIS compatible
- Radio attachment point
- Firing head window
- Integral crotch strap
- Easy front donning
- Zip closure with protective tab for zip durability
- Interlocking lobes
- Wave barrier technology (170N only)
- UML Pro Sensor Elite

### OPTIONS

- Lifejacket light
- Automatic or manual firing head
- Sprayhood
- AIS beacon
- Further cover options available
- Stainless steel D ring (Harness version only)
- Auto or Manual
- Halkey Roberts or Hammar also available

### ORDERING INFORMATION

#### WORKSAFE PRO 170

Part No.	Description
10-ISP-085I-113	UM Pro Auto Std Black, Neo
10-ISP-085I-107	UM Pro Auto Deck Black, Neo

#### WORKSAFE PRO 300

Part No.	Description
10-ISP-227I-008	UM Pro Auto Std Black/Orange M/Back
10-ISP-227I-009	UM Pro Auto Deck Black/Orange M/Back



The Worksafe Pro is constructed using a highly durable cover fabric and boasts a slim fit ergonomic design with mesh back for increased support and breathability. A neoprene anti abrasion neck comes as standard further enhancing wearer comfort.

A storm flap, integral zipped pocket and radio attachment strap add to this feature packed high-performance lifejacket. Easy to don, comfortable to wear and buoyant to 170/300 Newtons it has self-righting increasing freeboard and keeping the airways high above the water line, reducing the possibility of secondary drowning. A single removable crotch strap minimises ride-up further improving in-water performance.

The UML Pro Sensor Elite Automatic operating head is placed behind a window for speedy safety check. The Worksafe Pro also comes in a harness option.

**Image: Worksafe 300N, with Orange PVC Cover & Deck Harness**



The Flexi-Wing 150 lifejacket has been designed as a dual purpose emergency abandonment or constant wear lifejacket.

The low profile design allows the wearer unrestricted movement and full forward and downward vision. The unique Flexi-Wing design affords the wearer enhanced in water performance with higher mouth freeboard and improved flotation angles. The interlocking lobe design self rights the wearer in under 5 seconds and provides an effective wave barrier preventing water from being channelled into the airways. The tailored neck design gives vital support to the head and neck, even to an unconscious subject.

**Image: Flexi-wing, Red Nylon with Deck Harness.**

#### KEY FEATURES

- Interlocking lobe design
- High visibility fabric
- Lightweight and comfortable to wear
- Fully approved to the latest amendments in SOLAS Chapter III 2010
- Hook and loop closure
- Twin independent chambers
- Retro-reflective tape
- Whistle
- Lifting becket
- SOLAS approved light
- Buddy line
- Abandonment suit compatible
- Wave barrier technology
- AIS compatible

#### OPTIONS

- Deck harness
- Waist belt extender
- Sprayhood
- Crotch strap
- Variety of covers
- Stainless steel D-ring deck harness
- United Moulders or Hammar available

#### ORDERING INFORMATION

Part No.	Description
10-ISP-323S-005	HR Std S/S Red Nylon
10-ISP-323S-008	HR Deck S/S Red Nylon
10-ISP-323S-003	HR Auto Std S/S Orange PVC
10-ISP-323S-004	HR Deck S/S Orange PVC

# Challenger

## SOLAS FLEXI-WING 150

#### Approval

SOLAS

#### Buoyancy

170N (Actual)  
150N (Category)

#### Flotation

Automatic gas inflation

#### Operating head

Halkey Roberts Alpha  
Automatic

#### Chambers

Twin



# Challenger

## INTERLOCK 275

### Approval

SOLAS

### Buoyancy

300N (Actual)

275N (Category)

### Flotation

Automatic gas inflation

### Operating head

Halkey Roberts Alpha  
Automatic

### Chambers

Twin



### KEY FEATURES

- Twin chamber bladder system
- Interlocking bladder with wave barrier technology
- 2/3 bar stainless steel buckle
- Stainless steel D ring (Harness version only)
- SOLAS approved light
- Buddy line
- Halkey Roberts automatic inflation system
- Adjustable fit
- Whistle
- Hook & loop closure
- Retro tape
- Abandonment suit compatible
- Lifting becket

### OPTIONS

- Sprayhood
- AIS beacon
- A wide variety of cover options
- Single crotch strap
- Extender belt
- Deck harness
- United Moulders or Hammar available

### ORDERING INFORMATION

Part No.	Description
10-ISP-064S-031	HR Std S/S Red Nylon
10-ISP-064S-037	HR S/S Deck Red Nylon
10-ISP-064S-032	HR Std S/S Orange PVC
10-ISP-064S-036	HR Auto Deck Orange PVC



The SOLAS approved Challenger Interlock 275 lifejacket in durable red Nylon fabric has been designed for use as a combined working/ abandonment lifejacket. This incredibly lightweight and comfortable to wear lifejacket design gives excellent neck and head support which is particularly vital for an unconscious wearer.

With 300N buoyancy performance the lifejacket is designed to be worn when the user is wearing heavy duty clothing or with an abandonment suit, where it guarantees to self right the wearer in less than 5 seconds. The interlocking lobe design also creates an effective wave barrier, preventing water channelling into the airways.

It features durable outer cover with hook and loop closure making it easy to re-pack once activated. The Halkey Roberts automatic operating head is easily accessible and can be checked when required. Challenger Interlock lifejackets are now available with AIS 'Recovery System' integration.



The Aqua Junior 100 is the child's version in the SOLAS range which has been specifically designed to provide a comfortable and compact lifejacket that conforms to the latest regulations. It is much less cumbersome than a foam lifejacket. The jacket fits children in the weight range 15Kg to 43Kg and is fitted with crotch straps and deckbelt as standard for enhanced fit & security.

#### KEY FEATURES

- Twin chamber for improved security
- Stainless steel front buckle fastening
- Buddy line
- Stainless steel deck harness
- Fitted lifting beackets
- Whistle
- Deck belt and crotch straps fitted for child safety
- Hook & loop quick burst cover
- Red Nylon cover
- Lifejacket light fitted
- AIS compatible

#### ORDERING INFORMATION

Part No.	Description
10-ISP-324S-004	HR Auto Deck Red Nylon

# Challenger

## SOLAS AQUA JUNIOR

### Approval

SOLAS

### Buoyancy

115N (Actual)  
100N (Category)

### Flotation

Automatic gas inflation

### Operating head

Halkey Roberts Alpha  
Automatic

### Chambers

Twin

# Challenger

## WORKSAFE PRO AMBULANCE / FIRE / POLICE

### Approval

ISO 12402

### Buoyancy

300N (Actual)  
275N (Category)

### Flotation

Automatic gas inflation

### Operating head

Halkey Roberts Alpha  
Automatic

### Chambers

Single

### KEY FEATURES

- 300N Buoyancy
- Halkey Roberts automatic firing head
- Approval ISO 12402
- Lifting Strop
- Whistle
- Plastic quick release buckle waist fastening
- Retro emergency services reflective check pattern on front cover
- Fixed crotch strap
- Radio Strap x2
- Quick burst zip closure
- High-Visibility wipe clean PVC cover fabric body, with contrast Nylon neck
- Single chamber bladder
- 60g gas cylinder
- Comes in a mesh carry bag

### OPTIONS

- Relevant emergency service colour ways: Fire, Police, Ambulance
- 'AMBULANCE', 'FIRE' & 'POLICE' lettering available
- Different firing head options available: Auto or manual / United Moulders or Hammar available
- Spray hood
- AQ40 LED light
- PLB/AIS device
- Radio dock

### ORDERING INFORMATION

Part No.	Description
10-ISP-2271-011	HR Auto Std Green
10-ISP-2271-013	HR Auto Std Red
10-ISP-2271-012	HR Auto Std Blue



The Worksafe Pro has been adapted to a lifejacket designed for the Emergency Services including Ambulance, Fire and Police.

Buoyant to 300 Newtons, it has a super-fast turnover speed increasing freeboard and keeping the airways high above the water line reducing the possibility of secondary drowning.

A single removable crotch strap minimises ride-up, further improving in-water performance. It features zipped closure making it easy to repack once activated.



The SOLAS approved Challenger Interlock 275 Non Harness is specially designed for the Oil and Gas market constructed using a highly durable nylon cover fabric making it ideal for professionals working in the highly abrasive oil and gas environments.

This incredibly lightweight and comfortable to wear lifejacket design gives excellent neck and head support which is particularly vital for an unconscious wearer. With 300 Newtons of buoyancy it is designed to be worn when the user is wearing heavy duty clothing or with an abandonment suit, where it guarantees to self right the wearer in less than 5 seconds.

The patented interlocking lobe design also creates an effective wave barrier preventing water channelling into the airways.

#### KEY FEATURES

- 300N Twin Chamber
- Interlocking bladder
- SOLAS 2010 Approval
- Easy don plastic buckle
- Spray hood fitted
- Lifejacket light fitted
- Single crotch strap
- Packed into foil bag to support extended service (see further info)
- Whistle
- Lifting becket
- Adjustable fit
- Retro tape
- Abandonment suit compatible
- Buddy line

#### ORDERING INFORMATION

Part No.	Description
10-ISP-064S-030	HR Std PB Red/Navy Foil Bag

# Challenger

## INTERLOCK 275 SERIES III OFFSHORE

### Approval

SOLAS

### Buoyancy

300N (Actual)  
275N (Category)

### Flotation

Automatic gas inflation

### Operating head

Halkey Roberts Alpha  
Automatic

### Chambers

Twin



# SPECIAL 5 YEAR EXTENDED SERVICE OFFER

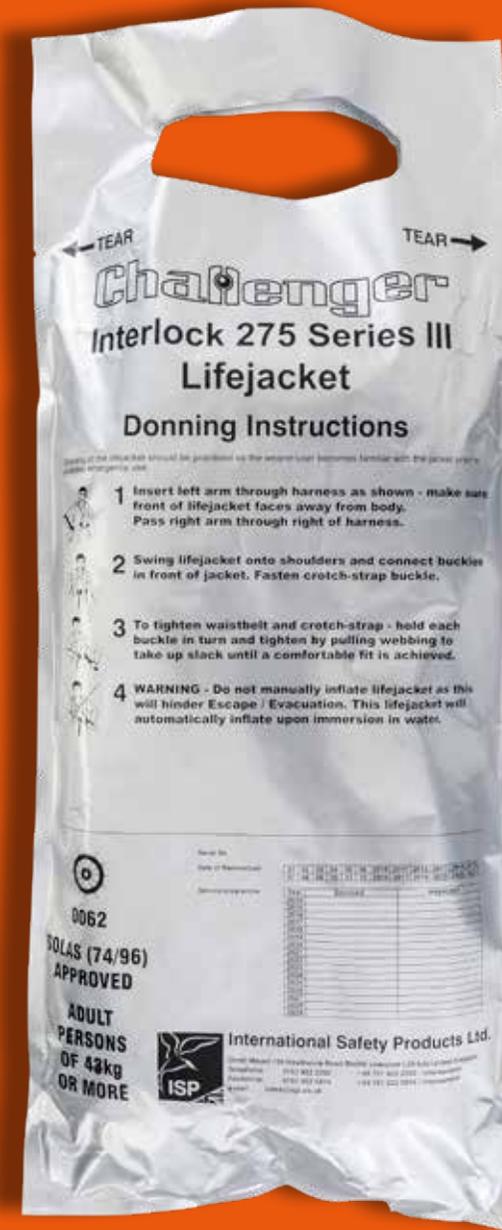
For Emergency use on Offshore Installations the Challenger Interlock 275 Series III and Challenger Flexi-Wing 150 are available in the Extended Service Format.

If stored in the conventional manner ie. hanging in a cabinet - the service interval is every 12 months.

To facilitate extended servicing intervals and to remove the risks of accidental inflation plus prevent individuals from tampering with the lifejacket, ISP developed their Extended Service Packaging System.

Each lifejacket is hermetically sealed in a Mil spec foil laminate bag together with a calculated quantity of moisture absorbent desiccant. Provided the foil laminate bag is not damaged the service interval can be extended for up to 5 years - subject to Flag State acceptance.

Our recommended service regime is to undertake a 20% per year service combined with a 100% inspection of the bags. This ensures the maintenance budget remains even over the 5 year period.



**THE COST SAVING IS ESTIMATED AT APPROXIMATELY 60% OF CONVENTIONAL SERVICING COSTS**

Product Approvals



Members



Certificate No. 1147/96



## INFLATION MECHANISM

ISP works with all the major operating head manufacturers including Halkey Roberts, UML and Hammar. Manual, automatic and hydrostatically operated versions are available with single point indicators if required, giving you the flexibility of choice to meet the end users exacting requirements.



Halkey Roberts Manual



Halkey Roberts Alpha Auto



Halkey Roberts Pro IF Auto



UML Micro Manual



UML Auto MK5



UML PS Elite Manual



UML Elite Pro



Hammer Hydrostatic

## HARNESSES & WAISTBELT

ISP offers a comprehensive range of waistbelts, buckles and harness attachments including a variety of plastic buckles, stainless steel 2/3 bar fasteners, stainless steel D-rings, double D-rings and soft loops.

Our standard webbings are manufactured from synthetic fibres to ISO 12402 standard and waist belt adjustment options include single and twin side adjusters.



2.3 Bar Waistbelt (Non-harness)



Deck Harness Waistbelt



Worksafe Pro Non-harness Buckle



Waistbelt Extender



Crotch Strap



Plastic Buckle Non-harness

# BLADDERS



Worksafe Pro 300N



Worksafe 170N



Worksafe 300N



Interlock 275N



SOLAS Aqua Junior

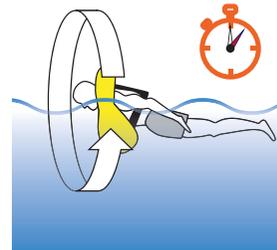


SOLAS Flexi-Wing 150N



ISP offer an extensive range of inflatable bladders covering all areas of the market from the leisure user to the offshore oil and gas market and military personnel, with approvals including ISO 12402, SOLAS, USCG, CE.

Buoyancy levels range from 115 Newtons to 330 Newtons with our unique patented interlocking Wave Barrier technology utilised in the 150N category and 275N category bladders, self-righting the wearer in under 5 seconds they prevent water from being channelled into the airways, a common cause of secondary drowning. The tailored neck design gives vital support to the head and neck even if the wearer is unconscious.



The bladders are welded in polyurethane coated nylon, and are available in a range of approved safety colours. Oral tubes, Whistles and SOLAS reflective tape are fitted as standard.



#### KEY FEATURES

- 150cm<sup>2</sup> Retro tape on hood
- Full face seal
- 5mm Neoprene (4-way stretch)
- Fire retardant
- Large offset zip
- Tailored design
- Integral 5 fingered gloves and neoprene mitts
- Buddy line
- Tough rubber soles
- Grab bag dimensions: 75cm x 29cm. Packed weight: 3.3Kg
- Approved to latest IMO SOLAS regulations

The Intrepid MK1 insulated immersion suit is one of the world's premier immersion suits and with a Clo value of 0.843 it offers excellent thermal protection to the wearer.

Manufactured from high stretch, fire retardant, 5mm neoprene, the close fitting Intrepid MK1 gives the wearer maximum levels of manoeuvrability both on dry surfaces and in water.

The double glove system allows the wearer high levels of manual dexterity, when needed; coupled with excellent thermal protection.

The Intrepid MK1 immersion suit available in small, universal and extra large sizing, is supplied complete with grab bag and pictogram donning instructions.

## INTREPID MK1 IMMERSION SUIT

Size	Universal	Xlarge
Length*	1.85m	1.95m
Chest	1.16m	1.27m
Waist	1.06m	1.17m
Inner Leg	0.78m	0.82m
Inner Arm**	0.70m	0.70m

\*to end of boot inc. hood

\*\* to end of glove



# INTREPID MK8 IMMERSION SUIT

Size	Universal	Xlarge
Length*	1.95m	2.23m
Chest	1.57 - 1.77m	1.72 - 1.92m
Waist	1.34m	1.46 - 1.60m
Inner Leg	0.98m	1.04m
Inner Arm**	0.70m	0.70m

\*to end of boot inc. hood

\*\* to end of glove



## KEY FEATURES

- Easy to don
- Full face seal
- High visibility colour
- Large offset zip
- Integral 5 finger gloves and neoprene mitts
- Buddy line
- Wide size range
- Valise dimensions: 40cm x 23cm. Packed weight 1Kg
- Approved to latest IMO SOLAS regulations



The Intrepid MK8 non-insulated immersion suit has been designed as an easy don, lightweight immersion suit. It is manufactured using tough polyurethane coated nylon fabric and the high visibility colour greatly improves survivor location, especially in low light conditions.

The Intrepid MK8 is designed to give a generous fit and is available in 2 sizes, universal and extra large, which will accommodate a wide range of personnel. When packed in its valise it is extremely compact and can be stowed easily for emergency situations. Options such as leg ties and wrist ties are also available on the MK8.



# AFTER SALES SUPPORT

## **SOLAS LIFEJACKET SERVICE REQUIREMENTS**

All Inflatable Lifejackets that conform to SOLAS requirements have to be serviced annually\*, at a Manufacturer Authorised Service Station, as per SOLAS 111/20.8. If the lifejackets are being used on a frequent basis and/or are being subject to extreme conditions, (damp/high humidity etc.), it is recommended that they are serviced more

frequently, i.e. every 3-6 months, depending on the conditions. Please refer to your local authority/service station for advice.

\*An exception to the 'annual' service, is the SOLAS lifejackets that ISP offer in hermetically sealed foil bags. Subject to the Flag State acceptance, these lifejackets may be serviced every 5 years, with a simple annual check on the condition of the packaging.

## **SERVICE STATIONS**

ISP has a worldwide network of Approved Service Stations and we are constantly updating and adding new stations where service is required. A full and up to date list of our Approved Service Stations is available on our website [www.ispl.co.uk](http://www.ispl.co.uk). Alternatively, please contact us for the nearest Service Station for your requirements.

## **DONNING**

Always ensure that you and your staff are trained in the correct donning procedure for your model of lifejacket. Donning instructions are included with each lifejacket and care must be taken to ensure that these instructions are kept with the lifejacket.



## ROUTINE MAINTENANCE

It is important that you should regularly check your lifejackets to ensure that they are in good condition. Inflatable lifejackets should always be stored in clean, dry conditions, and must be thoroughly dried after use before being returned to their stowage. Failure to do so may cause the lifejacket to inflate automatically, due to moisture build up. Regular Pre-Wear checks should include inspection of webbing and cover material for cuts/damage, buckle inspection, cylinder tightness, firing mechanism retaining clip secure, firing mechanism indicator (where fitted), etc. If you have any doubt whatsoever about the condition of your lifejacket, then you should send your lifejacket to an ISP Authorised Service Station for service without delay. End user pre-wear inspection and donning training courses are available on request.



# International **Safety** Products

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