Trusted by the world’s navies, commercial craft and leisure sailors

When you specify lifesaving equipment for your vessel, you need to know – beyond any doubt – that it is the most reliable and cost-effective available. With Pains Wessex advanced pyrotechnic marine distress signals, you can be sure you have made the right choice.

The leading light – worldwide

Pains Wessex, a world leading manufacturer of pyrotechnics for the commercial and leisure marine markets, has been saving lives around the globe for more than a century.

Our comprehensive range of marine distress signals and safety systems are trusted for their reliability by the world’s navies, lifeboat and rescue services, merchant fleets and airlines, as well as by fishing vessels and leisure craft.
Quality you can rely upon

The quality, technological superiority and innovative design of our products – combined with worldwide SOLAS approvals, including MED and USCG, and manufacturing to ISO 9001 standard – has placed Pains Wessex at the forefront of marine safety. Moreover, with distributors in 70-plus countries, specifying Pains Wessex marine distress signals is simple and makes sound commercial sense.

From individual products to purpose-designed packs

Pains Wessex products are available not only as individual rockets, flares, smokes and markers, but also integrated into special Distress Packs.

These packs are purpose-designed for the many different types of boating, whether close to shore or deep sea and where either short or long-range signalling is required. In addition, the packs are extremely convenient to take and keep on board your vessel.

www.painswessex.com
**LINETHROWER 250**

Item no. 50000 – Complete Unit, comprising:
- Item no. 50070 – Linethrower 250 Body + Line
- Item no. 50080 – Linethrower Rocket

Self-contained line-throwing appliance that is fully compliant to the latest international SOLAS/MED and USCG legislation and meets worldwide approval standards. A solid propellant rocket is used which guarantees a highly accurate flight path – even in strong sidewinds.

**APPLICATION** All line throwing operations at sea between vessels, ship to shore, shore to ship and shore based rescue services

**IGNITION** Twist-grip trigger

**TEMPERATURE OPERATING RANGE** -30c to 65c (-22F to 149F)

**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)

**WEIGHT** 4.3Kg (9.5lbs)

**OTHER INFORMATION** Throwing range >230m

**LINE BREAKING STRAIN** >2Kn

**NEW**

**MANOVERBOARD MK8**

Item no. 53775

Combined light and smoke Lifebuoy marker which far exceeds SOLAS/MED requirements.

**APPLICATION** Day and night signal attached to a lifebuoy (not supplied) and used in emergency to mark position of man overboard.

**COLOUR OF SMOKE** Dense orange smoke

**DURATION OF BURN TIME** 15 minutes

**LIGHT INTENSITY AND DURATION** Minimum 2 Candela for 2 hours

**IGNITION** Firing pin/percussion cap

**TEMPERATURE OPERATING RANGE** -1c to +30c (30.2F to 86F)

**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)

**WEIGHT** 6.7Kg (14.77 lbs) including mounting bracket

**OTHER INFORMATION** Tested to survive a 60m drop into water (SOLAS 30m) • Universal stainless steel mounting bracket • Safe to use on petrol or oil covered water • Use with a lifebuoy weighing 4Kg (9lbs) • Attach to Lifebuoy with a 9.5mm diameter, 4m (13ft) long line

**NEW**

**BUOYSMOKE MK8**

Item no. 53830

15 minute orange smoke

Man Overboard Lifebuoy marker. Identical to MOB MK8 – but without the lighting system. Daytime use only.

**NEW**

**RED HANDFLARE MK8**

Item no. 52900

Unique, compact, telescopic handle allows easy extension for safe operation and saves space in stowage.

**APPLICATION** For use in day and night. Short range distress signal used to pinpoint position

**COLOUR OF LIGHT** Red

**DURATION OF BURN TIME** 60 seconds minimum

**LIGHT INTENSITY** 15,000 Candela minimum

**IGNITION** Top pull-wire igniter

**TEMPERATURE OPERATING RANGE** -30c to 65c (-22F to 149F)

**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)

**WEIGHT** 160g (5.6oz)

**OTHER INFORMATION** Designed to withstand exceptional environmental exposure • Performs reliably even after immersion in water • Unique telescopic handle with improved grip, making it compact for stowage • Easily extended for safe handling and operation • Designed for stowage in liferaft

**NEW**

**PARA RED ROCKET MK8A**

Item no. 50672

Designed to withstand exceptional environmental exposure and to perform reliably even after immersion in water. Features improved grip for easy handling and conforms to SOLAS 74/88 as amended.

**APPLICATION** For use in day and night long range distress signal situations

**COLOUR OF LIGHT** Red

**DURATION OF BURN TIME** 40 seconds minimum

**LIGHT INTENSITY** 30,000 Candela minimum

**HEIGHT** 300m (985’)

**IGNITION** Base pull-wire igniter

**TEMPERATURE OPERATING RANGE** -30c to 65c (-22F to 149F)

**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)

**WEIGHT** 235g (8.23oz)

**OTHER INFORMATION** Altitude is minimum 300m (985ft) • Designed to withstand exceptional environmental exposure • Performs reliably even after immersion in water • Compact design for easy liferaft stowage

**Ship’s Bridge Kit**

Item no. 55540

Designed to meet the SOLAS/MED/LUSCG regulation, which requires 12 Para Red rockets on a ships bridge, this kit is conveniently stowed in our large waterproof polybottle.
LIFESMOKE MK8
Item no. 53685
Compact, flat-top day-time orange smoke distress signal providing effective position marking or indication of wind direction during rescue operations.

APPLICATION For use in day distress signal situations and to mark the position during a rescue operation
COLOUR OF LIGHT Dense orange smoke
DURATION OF BURN TIME 3 minutes minimum
IGNITION Pull-wire igniter with a 2 second safety delay
TEMPERATURE OPERATING RANGE -1c to 30c (30.2F to 86F)
TEMPERATURE STORAGE RANGE -30c to +75c (-22F to 167F)
WEIGHT 340g (11.9 oz)
OTHER INFORMATION Can be used for indication of wind direction during a rescue • Safe to use on petrol or oil covered water • Designed for stowage in liferaft

DAY & NIGHT MK8
Item no. 55970
Compact, hand-held distress signal consisting of a red flare at one end and an orange smoke at the other. Housed in a rugged, corrosion and water resistant case.

APPLICATION For use in day and night distress signal situations and to mark the position during a rescue operation
COLOUR OF LIGHT Dense orange smoke for day and red flare for day and night use
DURATION OF BURN TIME Orange smoke for 18 seconds minimum and red flare for 20 seconds minimum
IGNITION Pull toggle application
TEMPERATURE OPERATING RANGE -30c to +65c (-22F to 149F)
TEMPERATURE STORAGE RANGE -30c to +75c (-22F to 167F)
WEIGHT 170g (5.95 oz)
OTHER INFORMATION End caps are colour coded and finned to identify flare and smoke

PERSONAL DISTRESS SIGNALS
Miniflare MK8
Item no. 55665
Lightweight, compact pack containing 9 red aerial flare cartridges and a penjector firing mechanism in a tough, water-resistant case. The penjector is fitted with a stainless steel spring and striker pin.

APPLICATION For use in day and night long range distress signal situations
COLOUR OF LIGHT Red flare
DURATION OF BURN TIME > 5 seconds
LIGHT INTENSITY 10,000 Candela minimum
HEIGHT 46m (150 ft)
IGNITION Penjector system
TEMPERATURE OPERATING RANGE -30c to 65c (-22F to 149F)
TEMPERATURE STORAGE RANGE -30c to +75c (-22F to 167F)
WEIGHT 160g (5.6 oz)
OTHER INFORMATION 9 red cartridges per miniflare • Each cartridge projects its payload to a height of over 40m • Unique slot fitting with a simple slide-on action for loading the cartridges

COMPACT DISTRESS SIGNALS
Miniflare MK8
Item no. 55666
A smaller version of the Personal Distress Signals with the penjector incorporated into the case which contains 3 red cartridges cleverly connected to an elastic lanyard to avoid them being lost when the base cap is unscrewed.

APPLICATION For use in day and night long range distress signal situations
COLOUR OF LIGHT Red flare
DURATION OF BURN TIME > 5 seconds
LIGHT INTENSITY 10,000 Candela minimum
HEIGHT 46m (150 ft)
IGNITION Penjector system
TEMPERATURE OPERATING RANGE -30c to 65c (-22F to 149F)
TEMPERATURE STORAGE RANGE -30c to +75c (-22F to 167F)
WEIGHT 74g (2.6 oz)
OTHER INFORMATION 3 red cartridges per miniflare • Each cartridge projects its payload to a height of over 40m • Unique slot fitting with a simple slide-on action for loading the cartridges
**WHITE HANDFLARE MK8**
Item no. 52751
Designed for use as a collision warning signal or for illuminating small areas where an intense white light is required.

**APPLICATION** For use in day and night short range warning collision situations and for illuminating small areas
**COLOUR OF LIGHT** White
**DURATION OF BURN TIME** 60 seconds minimum
**LIGHT INTENSITY** 2,500 Candela minimum
**IGNITION** Top pull-wire igniter
**TEMPERATURE OPERATING RANGE** -30c to 65c (-22F to 149F)
**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)
**WEIGHT** 160g (5.6oz)

**OTHER INFORMATION** Designed to withstand exceptional environmental exposure • Performs reliably even after immersion in water • Unique telescopic handle with improved grip, making it compact for stowage • Easily extended for safe handling and operation

**ORANGE HANDSMOKE MK8**
Item no. 53920
Particularly suitable for yachts, dinghies and sailboards, this waterproof, hand-held signal produces a dense orange smoke for daylight distress signalling and wind direction indication.

**APPLICATION** For use in day distress signal situations and to mark the position during a rescue operation
**COLOUR OF LIGHT** Dense orange smoke
**DURATION OF BURN TIME** 60 seconds minimum
**IGNITION** Top pull-wire igniter
**TEMPERATURE OPERATING RANGE** -30c to 65c (-22F to 149F)
**TEMPERATURE STORAGE RANGE** -30c to +75c (-22F to 167F)
**WEIGHT** 200g (7oz)
**OTHER INFORMATION** Can be used for indication of wind direction during a rescue • Safe to use on petrol or oil covered water • Meets USCG requirements

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**Inshore Distress Kit** Item no. 55530
For use when less than 3 miles from land, to raise alarm and pinpoint your position by night or day. Contains 2 Red Handflares and 2 Orange Handsmokes in water resistant 6 litre polybottle.

**Coastal Distress Kit** Item no. 55535
For use when less than 7 miles from land, to raise alarm and pinpoint your position by night or day. Contains 2 Red Handflares, 2 Orange Handsmokes, 2 Para Red Rockets in water resistant 6 litre polybottle.

**ORC/RORC Offshore Distress Kit** Item no. 55565
Meets the special regulations of the Offshore Racing Council and the Royal Ocean Racing Club. Contains 4 Collision White Handflares, 2 Lifesmokes, 4 Red Handflares, 4 Para Red Rockets in waterproof 12 litre polybottle.

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### Overview of kits available and typical applications

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**KEY**
- **R** Recommended
- **O** Optional
- **S** Specified by race committees.
Do’s and Don’ts

Do’s
- Make sure your signals are always in date
- Use in accordance with instructions
- Always store in a container
- Ensure your crew know where the signals are stored
- As part of your safety briefing, ensure your crew are familiar with how to operate your distress signals
- Only use in an emergency situation
- Point signals outboard/downwind and away from your body as per instructions
- Use red flares by day or night
- Use orange smoke in daylight
- Seek medical advice in the event of injury
- Use certified Hazard Class 1 couriers
- Remember these are Class 1 pyrotechnic products when using, storing or transporting them

Don’ts
- Do not use after expiry date
- Do not expose to extremes of temperature, humidity and damp
- Do not dismantle
- Do not use if damaged or dented
- Do not store or place near sources of heat, or where children have access
- Never fire distress signals if not in an emergency situation as vital rescue services will be falsely alerted
- Do not use in confined spaces as signals are designed for outdoor use only
- Do not point at people or property as some products eject projectile components or produce hot flames and dense smoke
- Never use normal mail to transport these products
- If found do not touch and notify the Coast Guard, Fire Marshall or Police

TRANSPORT All the pyrotechnic products are supplied from Chemring Marine Ltd to be transported under the worldwide regulations for Class 1 Hazardous products by air, road, rail or sea.

DISPOSAL Pyrotechnics must be treated as hazardous items and should be disposed of responsibly in accordance with regulations and local rules.