



**MFC**International

by RESPIREX

ENGINEERED INFLATABLE PRODUCT SOLUTIONS

# Inflatable Stretcher

Product **Manual**



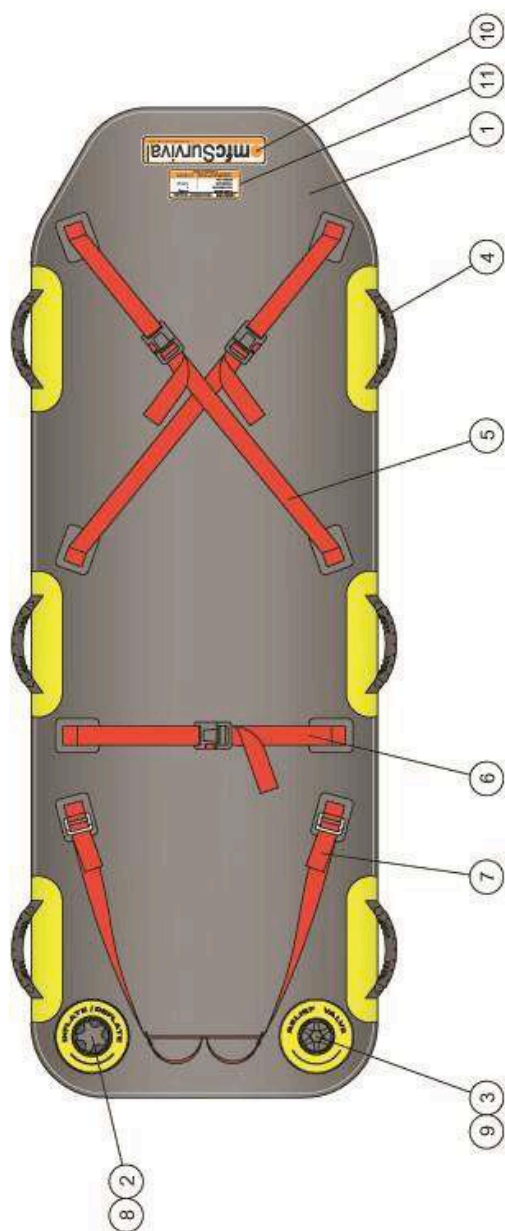
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**WARNING:** Carefully read this manual before operating the Inflatable Stretcher

**NOTICE:** The manufacturer takes no responsibility for the consequences of actions not complying with the instructions given in this manual.



	Inflatable Stretcher
<b>Product Code</b>	WR0196
<b>No. of persons</b>	1
<b>Length (cm)</b>	203
<b>Width (cm)</b>	69.5
<b>Height (cm)</b>	6.7
<b>Capacity (kg)</b>	150
<b>Air Requirements (ltr)</b>	100
<b>Pack size (cm)</b>	35x35x18
<b>Weight (kg)</b>	6.5
<b>Working Pressure (bar)</b>	0.5
<b>Recommended regulator</b>	Type 855 8 bar



- 1 INFLATABLE BED
- 2 INFLATE/ DEFLATE VALVE
- 3 RELIEF VALVE
- 4 CARRYING HANDLE
- 5 CHEST RESTRAINING STRAP c/w SIDE RELEASE BUCKLE
- 6 LEG RESTRAINING STRAP c/w SIDE RELEASE BUCKLE
- 7 FOOT SECURING STRAP c/w 2 ADJUSTMENT BUCKLES
- 8 LABEL, INFLATE / DEFLATE
- 9 LABEL, RELIEF VALVE
- 10 LABEL, MFC LOGO
- 11 LABEL, RECOVERY BOARD DATA
- 12 RUCKSACK FOR RECOVERY BOARD



	Item	Description
1	Inflatable Bed	Neoprene coated drop thread - Black Hypalon coated polyester - Black
2	Inflate/deflate valve	Leaffield C7 - Black Acetal.
3	Relief Valve – 0.41 Bar	Leaffield A6 - Black Acetal.
4	Carrying Handle	Hypalon coated polyester - Yellow, webbing strap with moulded rubber handle
5	Chest restraining strap	3.8cm polyprop webbing - Red ISO 12402-7 S/R buckle - Black
6	Leg restraining strap	3.8cm polyprop webbing - Red ISO 12402-7 S/R buckle - Black
7	Foot securing strap	3.8cm polyprop webbing - Red, 316 S/S buckles
8	Label, Inflate / Deflate	Yellow vinyl, digitally printed
9	Label, Relief Valve	Yellow vinyl, digitally printed
10	Label, MFC logo	White vinyl, digitally printed
11	Label, Recovery board data	White vinyl, digitally printed
12	Rucksack	PVC coated polyester – Orange Straps – Polyester webbing
13	HP Inflation hose	1.0m reinforced hose c/w C7 valve adaptor
14	Repair kit	70ml.tube Neo. Adhesive, Hypalon patches x4

## 1. INFLATION

- 1.1. At deployment point, select best possible flat debris-free site.
- 1.2. Unpack the Inflatable Stretcher from its rucksack and unroll.
- 1.3. Prepare for Inflation:-
  - a) Fix Regulator to cylinder(s) and connect delivery hose to Regulator.
  - b) Remove dust cap from inflation valve in the inflatable bed, ensure the central valve diaphragm is closed; i.e. the internal spindle is raised. (push and turn to release).

**NOTE:** The Inflatable Stretcher is inflated through the inflation valve located at the feet end of the bed. (see pg. 4)

- 1.4. Hold delivery hose tight into inflation valve. Open cylinder valve and inflate until relief valve activates. (see pg.4 item 3) Close cylinder valve. Do not release hose during inflation.

**WARNING:** Failure to do this may result in personal injury to the operator.

- 1.5. Ensure dust cap is replaced to prevent ingress of dirt and water.

## 2. DEPLOYMENT & USE

The following points are operational recommendations established by deploying the Inflatable Stretcher at different training and demonstration events. MFC acknowledge that almost every operational scenario will have different hazards and risks, which can only be properly assessed at, and during, an operational rescue/recovery.

**WARNING:** during use near water, mud and suspect surfaces, personnel should wear a Lifejacket or appropriate buoyancy aid. Failure to do this may result in personal injury or death.

- 2.1 Body restraining straps - The casualty should be strapped onto the Inflatable Stretcher during transportation using the 2 diagonal chest restraining straps and the leg restraining strap. (see pg.4 items 5 & 6) All straps must be tightened to secure the casualty.  
To undo the straps press the red button located on the side of each buckle.

**CAUTION:** Ensure that the two parts of the buckles are pushed together and securely locked (audible click) before moving the casualty.

- 2.2. Foot securing strap - The foot securing strap is fitted by placing the webbing loops over the feet. The continuous strap goes over both insteps and the short strap forms two loops that go under the soles of the feet (see pg.4, item 7). The strap must be adjusted equally at each end to secure the casualties feet in the centre of the Recovery board.
- 2.3 Carrying handles - The Inflatable Stretcher should only be carried by using the moulded handles provided on each side. (see pg.4 item 4)

**CAUTION:** Ensure that the Inflatable Stretcher is lifted evenly to prevent further possible injury to the casualty.

## Packing

1. Lay the Inflatable stretcher on a clean, debris free area.
2. Deflate the Inflatable stretcher. This is achieved by depressing the central spindle in the inflate/deflate valve, (push and turn to lock open). (see page 4, item 2).
3. Roll from the head end towards valve to expel the air.
4. Un-roll the Inflatable stretcher to its full length once again. Fold in half length ways and flat roll towards the valves, taking care to maintain the width of the roll.
5. Lay the rucksack face down on the ground, place the rolled Inflatable stretcher in the centre, tightly overlap the sides and secure using the velcro straps. Lift the bottom flap (webbing straps) up and over, tucking in both corners. Do the same with the top flap, secure the webbing straps through the buckles and tighten.

## Storage

1. On return to base the Inflatable stretcher should be unpacked, inflated, thoroughly washed to remove contaminants and left to dry.
2. When the Inflatable stretcher is completely dry it and its associated equipment should be checked for wear or damage. If none is found it should be repacked in its rucksack.
  - 2.1. If any damage is found it should be repaired or replaced immediately in accordance with the Repair instructions.
3. Where possible the packed Inflatable stretcher should be stored so that no damage can be caused by it's proximity to other items of equipment.



## 1. **GENERAL**

It should be noted that, due to the type of fabrics used in its construction, when the Stretcher is wet, there may sometimes be visual evidence of miniscule white bubbles, which form a line of froth at the seams and joints of the unit. This is recognised within the industry as 'lateral leakage', and is simply air that is trapped in the layer of nylon between the rubber coatings, forcing its way to the nearest available edge of the fabric. This type of leakage will not affect the performance of any inflatable product over the course of an operational procedure, and can be safely ignored.

However, if there are larger, transparent bubbles, this is clearly evidence of a leak that must be repaired at the earliest convenience.

The following is a recommended regime for maintenance & test.

## 2. **QUARTERLY**

- 2.1. Check control equipment as per relevant manual.
- 2.2. Inflate Inflatable Stretcher to working pressure.
- 2.3. Check audible relief valve operation.
- 2.4. Whilst inflation system is charged, check connections and valves using brush and soapy water.
- 2.5. When relief valve has operated, and the unit is at working pressure; it can be left to stand for a length of time that would be comparable to an operational situation (e.g. 2 to 3 hours.)
- 2.6. After this time, the Inflatable Stretcher should still be firm.
- 2.7. If the Inflatable Stretcher has become soft, the air-loss should be located by applying a soapy- water solution.
- 2.8. Any significant leaks (See 1 above) should be marked and repaired using the repair kit provided.

## **RECOMMENDATIONS**

1. The Inflatable Stretcher and its associated equipment should undergo an annual test carried out by the manufacturer, or persons certified by MFC International Ltd. If in doubt contact the service department.
2. The Inflatable Stretcher should be inspected and tested in accordance with relevant International, European or National standards and appropriate records maintained throughout its operational life.

As a general rule, punctures and other damage will need to be assessed in two categories:

a) that which is repairable at the base, or b) serious damage that will need to be repaired by MFC International Ltd.

a) Repairs that are manageable at the base workshops will be minor punctures to any area of the Rescue sled. These can normally be repaired by the application of a small repair patch.

b) Repairs that should be carried out by MFC will be the more serious kind, such as damaged valves, badly torn fabric (either on the sidewalls or the flat surfaces) and the replacement of damaged fittings.

If in doubt as to the extent of the damage and the level of repairs necessary, please contact :-

## MFC International

Naval Yard

Tonypandy

Rhondda Cynon Taff

CF40 1JS

T. +44 (0) 1443 433 075

F. +44 (0) 1443 420 448

[sales@mfc-international.com](mailto:sales@mfc-international.com)

[www.mfc-international.com](http://www.mfc-international.com)

A Respirex International Limited Group Company





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