



**Britannia Fire Ltd**

# ***BLAZEX RANGE***

## ***FIRE EXTINGUISHER SERVICING & MAINTENANCE INSTRUCTIONS***

### **Powder Models**



**BXINTRO REV 4: October 2017**

## **PROCEDURES FOR SERVICING THE BLAZEX RANGE OF HAND PORTABLE FIRE EXTINGUISHERS**

### **Introduction**

The commissioning and servicing of firefighting equipment must be carried out by a competent person using the correct tools to follow these manufacturer's instructions and any National standards required in the relevant Country.

This maintenance should be performed at least annually. The extinguishers should be visually inspected at least quarterly, but preferably monthly, by the user, to ensure that the equipment is in its designated position, has not been used and has not been tampered with.

Servicing and recharging must be carried out in a clean dry environment. All recharge materials and spare parts must be as specified by the manufacturer.

In the event that an extinguisher cannot immediately be rendered suitable for continued service, it must be marked 'NOT MAINTAINED' until it can be repaired/recharged. The competent person must advise the user of any equipment, which is either condemned or unfit for service and make any recommendations for replacement and/or remedial work.

Always check the security and suitability of the hanging bracket, and that the extinguisher is of the right type for the prevalent risk.

If the extinguisher is to be sited in a hazardous/corrosive environment i.e. marine use, the inspection periods should be more frequent. The effects of the environment should be considered, with particular reference to corrosion and legibility of marking instructions. Where necessary the extinguisher should be protected from the environment i.e. PVC cover or box. If there is significant corrosion or the markings are not legible, then the extinguisher should be withdrawn from service. This is a requirement of the Marine Equipment Directive

It is essential that extinguishers are not subjected to temperatures outside of the temperature range stated on the extinguisher.

Extinguishers should remain in their allocated location, and should be used only for the purposes of extinguishing a fire. On no account should the extinguisher be removed for any other purpose, and should not be subjected to any impact, force, heat, abrasion or any other misuse or condition that may be detrimental to the integrity of the extinguisher. Fire extinguishers are lifesaving appliances and as such, need to operate correctly, in the event of a fire.

Failure to use the recommended spare parts and adhere to these maintenance instructions may cause the extinguisher to malfunction or prevent it from operating altogether. This may invalidate the warranty and the manufacturer accepts no liability in the event that these instructions are not followed.

Care must be taken to ensure that residual media (powder and foam) are disposed of in accordance with environmental legislation. Where facilities exist, condemned extinguishers and components should be recycled.



## SPBP

### SERVICING PROCEDURES FOR BLAZEX RANGE STORED PRESSURE POWDER MODELS

#### MODEL NO'S: BXP1M, BXP2M, BXP4, BXP6, BXP9

1. Remove extinguisher from hanging bracket and check security of the bracket, rectify if necessary. Check exterior of extinguisher for corrosion or damage, if found, mark the maintenance label as "CONDEMNED" and withdraw from service.
2. Ensure safety pin and operational seal are in position and the extinguisher has not been completely or partially discharged. If the extinguisher has been completely or partially discharged, discontinue servicing procedure and commence recharge procedure (Ref. RPBP).
3. Ensure instruction label is legible, rectify as necessary. Check for damage/corrosion to extinguisher body. If significant damage/corrosion is found, mark the extinguisher as condemned and/or remove from service.
4. Checkweigh the extinguisher against the gross weight recorded on service label. If underweight by more than 10% of contents, the extinguisher should be removed from service and recharged.
5. Invert extinguisher to loosen powder.
6. Check safety pin for free removal. Replace pin and fit new operational seal (in accordance with service colour code).
7. Check pressure gauge is reading 12 bar in the green zone. Check that gauge is operational by using gauge test kit (BXP1M and BXP2M) or magnet; ensure that after testing the needle returns to the original mark. If it remains in the red, remove extinguisher from service and recharge. Fit new gauge sticker without preventing ability to read gauge.
8. Remove discharge hose and blow through with compressed air. Check discharge hose, nozzle and clips for wear, cuts or abrasion. Replace as necessary. Fit new O ring, if required, to hose assembly and refit hose.
9. Fill in details of service, including extinguisher weight, on service label using indelible pen. Clean extinguisher and return to service.



RPBP

## RECHARGING PROCEDURE FOR BLAZEX RANGE STORED PRESSURE POWDER MODELS

MODEL NO'S: BXP1M, BXP2M, BXP4, BXP6, BXP9

### THESE RECHARGE PROCEDURES SHOULD BE USED IF COMPLETE OR PARTIAL USE OF THE EXTINGUISHER IS SUSPECTED.

1. Check for signs of damage or significant corrosion to extinguisher. If found, do not continue recharge procedure, mark extinguisher "CONDEMNED" and inform user. Ensure instruction label is legible, rectify if necessary. Check gauge.
2. Ensure pressure is relieved by inverting extinguisher and squeezing the levers together slowly (whilst pointing nozzle down and away).  
**This should be done in a suitable location.**
3. Remove hose and loosen valve, using Blazex bar adaptor. Remove valve slowly, allowing residual pressure to escape through vent slots.
4. Empty residual powder from extinguisher body and discard. Dispose in an environmental way.
5. Inspect the extinguisher inside, checking for caked powder or corrosion, indicating moisture inside the cylinder, rectify or replace extinguisher if found.
6. Recharge the extinguisher body with new dry powder, **ensuring correct quantity and type in accordance with marking. Never mix different types of powder as pressure and moisture may develop as a result of a chemical reaction.**
7. Remove syphon tube, tube holder, spring and spindle from the valve. Thoroughly clean any residual powder from chamber using a soft brush. Remove 'O' rings from spindle, clean 'O' ring grooves. Fit new 'O' rings (manufacturer's spares), if required, ensuring they are put back in grooves correctly.
8. Refit spindle, spring and tube holder to valve. Refit syphon tube.
9. Check operation of valve, ensure gas safety vent is clear, blow through nozzle with compressed air, if signs of blockage, rectify. Fit new 'O' rings, to valve and discharge hose assembly.
10. Refit valve to extinguisher body, tighten using Blazex filling bar adaptor.
11. With the valve open (depressed), pressurise through valve, to 12 bar using dry air or Nitrogen, close valve (release) and shut off pressure supply. Remove pressurising adaptor slowly, as a small amount of pressure may remain in the filling line.
12. Refit safety pin and operational seal (in accordance with service colour code).



**Britannia Fire Ltd**

13. Refit discharge hose assembly.

14. Check for leakage, record recharging details, including new weight on service label.