



Britannia Fire Ltd

BRITANNIA RANGE

FIRE EXTINGUISHER SERVICING & MAINTENANCE INSTRUCTIONS

Stored Pressure Powder Models



SPINTRO REV6: October 2017

PROCEDURES FOR SERVICING THE BRITANNIA 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 should 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 If there is significant corrosion or the markings are not legible, then the extinguisher should be withdrawn from service.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.

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.



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SERVICING PROCEDURES FOR BRITANNIA RANGE STORED PRESSURE POWDER MODELS

MODEL NO'S: BAS2, BAS4, BAS6, BAS9, BMS9

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, 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. RPSPP).
3. Ensure instruction label is legible, rectify as necessary. Check for damage/corrosion to extinguisher body. If damage/corrosion is found, mark the extinguisher as condemned and/or remove from service.
4. Checkweigh the extinguisher against the gross weight recorded when first installed. 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. Refit pin and fit new operational seal and service indicator (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 or magnet (BAS2); 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. Check discharge hose, nozzle and clips for wear, cuts or abrasion. Replace as necessary.
9. Fill in details of service, including extinguisher weight, on service label using indelible pen. Clean extinguisher and return to service.



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RECHARGING PROCEDURE FOR BRITANNIA RANGE STORED PRESSURE DRY POWDER MODELS

MODEL NO'S: BAS4, BAS6, BAS9, BMS9

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

1. Check for signs of damage or 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. Loosen headcap, using nutring spanner [Part Ref: HCS]. (Do not use hammer or other blunt implement). Remove headcap slowly, allowing residual pressure to escape through vent holes.
4. Empty residual powder from extinguisher body. Dispose of 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, spring holder and spindle (Valve holder spanner 27mm). Thoroughly clean any residual powder from both chambers using a soft brush. Remove 'O' rings from spindle, clean 'O' ring grooves. Fit new 'O' rings ensuring they are put back into grooves correctly.
8. Refit spindle, spring and spindle housing to headcap. Refit syphon tube. Fit new headcap 'O' ring.
9. Clean cylinder neck threads and 'O' ring seating. Refit headcap, tighten using headcap spanner. Refit safety pin, new operational seal and service indicators (in accordance with service colour code).
10. Pressurise through schrader valve connection to 12 bar using compressed dry air or Nitrogen.
11. Check for leakage. Record recharging details, including new weight on service label.