

**IMPACT**  
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**Pressure Filter  
BM070**

**Impact Test Equipment Ltd**  
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User Guide  
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The 4 litre pressure filter consists of a plated steel pressure vessel with a filter support & pressure gauge.

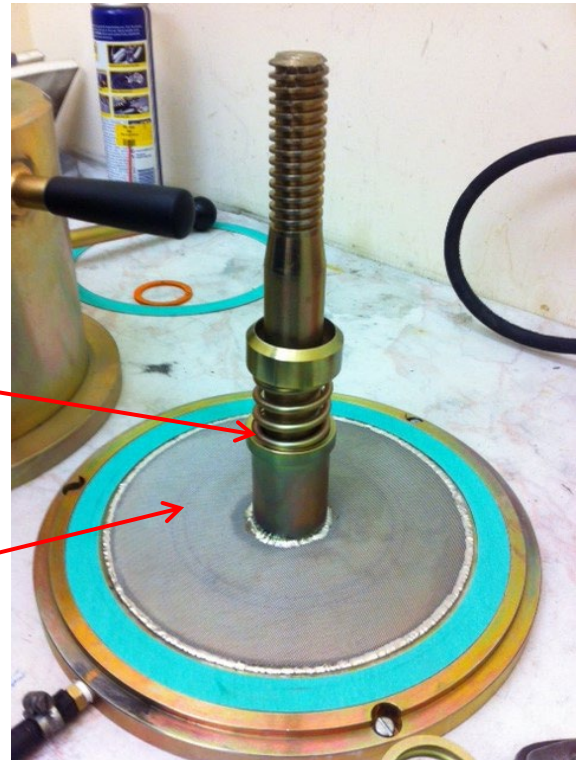


### To use the pressure filter

1. Undo the pressure filter by turning the large handle anti-clockwise & remove the handle & nut assembly to reveal the threaded shaft, then lift off the top housing.
2. Remove the spring & column assembly by sliding over the threaded shaft.
3. Place a BM090 filter paper centrally over the mesh.

Spring & column assembly

Mesh



4. Replace the column & spring over the vertical shaft.
5. Place a base gasket BM070/1 around the edge of the base as shown in the photo (bright green gasket).
6. Place a bell gasket BM070/2 on top of the housing, where the handle & nut screw onto the threaded shaft.

Bell Gasket



*Images in these instructions are from a different capacity pressure filter*

7. Twist the filler cap handles less than a quarter turn clockwise to release the cap from the bayonet collar. Place a filler gasket BM070/3 under the filler cap.

This is the filling orifice, where the pressure filter is filled from once it is assembled.

Filler Gasket



8. Leave the filler cap off & replace the top housing, securing with the handle & nut assembly.

9. Connect the airline to the air inlet valve on the base of the pressure filter.



The pressure filter is now ready to fill & start the test.

To fill, use a funnel capable of supporting three 200mm or 300mm diameter test sieves, the finest having a 63 $\mu$ m aperture, over the filling orifice.

Decant the binder solution through the test sieves into the pressure filter.

Reconnect the filler cap ensuring that it is firmly located in the bayonet collar.

Force the solution through the filter paper using air pressure.

When finished, remove the filter paper, complete with the remaining mineral matter.

Please refer to the standard for the full test procedure.