

7. FAULT FINDER

- Should you not achieve a satisfactory test it is always advisable to check that the stoppers have sealed adequately.
- To prove the stoppers have sealed, set up the test again and apply soapy water to the area of pipe in contact with the stoppers. An air leak at these points would be indicated by soap bubbles being formed. If bubbles are visible deflate and remove the stopper, clean area of pipe again and repeat test procedure.

8. STORAGE AND CARE

- When storing stoppers, completely deflate so the rubber sleeve fits flush with the GRP core and lay flat in a cool place away from direct sunlight. Inspect the stoppers periodically for damage to the central core or the outer sealing surface.
- **ALWAYS** – Use and store stoppers out of direct sunlight

9. DISCLAIMER

- Failure to adhere to the instructions provided with the equipment may invalidate any claims with respect to damage, death or injury due to misuse or malfunctioning of the apparatus.

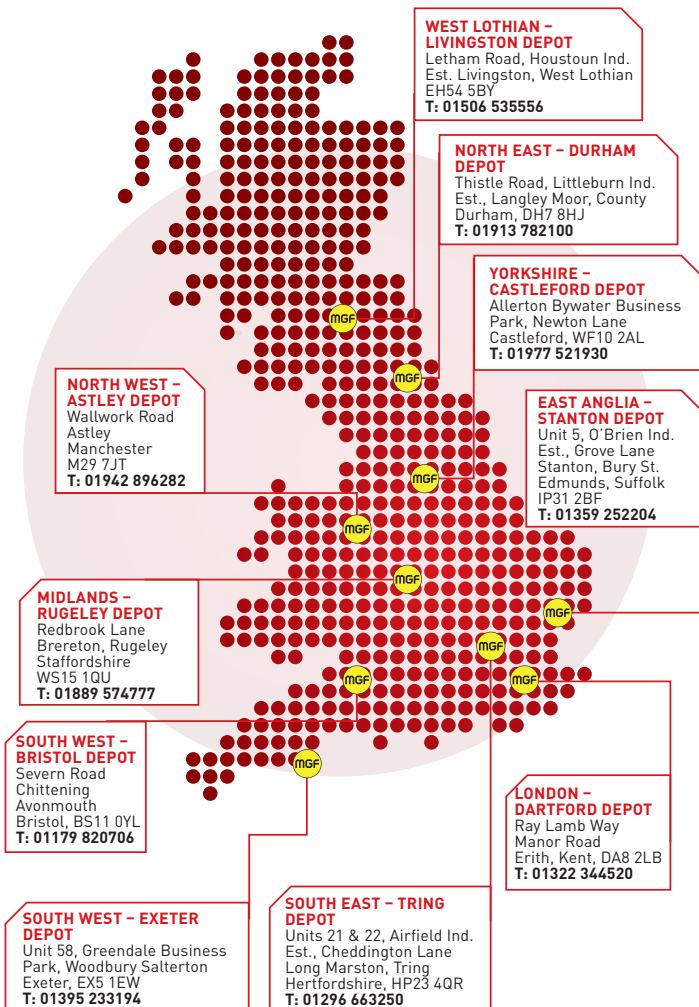
WARNINGS

- **ALWAYS** – Use the MGF-supplied pressure relief valve
- **ALWAYS** – Clean area of pipe to receive stopper
- **ALWAYS** – Check valves do not leak using soapy water
- **ALWAYS** – Use and store stoppers out of direct sunlight
- **ALWAYS** – Check the diameter of the pipe before use, to ensure it does not exceed the maximum diameter of the stopper
- **NEVER** – Inflate stoppers over sharp protrusions
- **NEVER** – Inflate stoppers to over 1.5 bar
- **NEVER** – Try to use stoppers for high pressure tests
- **WARNING** – Over-inflated stoppers can burst, potentially causing serious accidents.



HEAD OFFICE
GRANT HOUSE
LOCKETT ROAD
ASHTON IN
MAKERFIELD
WIGAN
WN4 8DE

ENGINEERING CENTRE
FOUNDATION HOUSE
WALLWORK ROAD
ASTLEY
MANCHESTER
M29 7JT



 mgf.co.uk

 enquiries@mgf.co.uk

 0808 163 7672



USER GUIDE: GRP MULTI TEST AIR STOPPER FOR LOW AIR PRESSURE TESTING OF PIPE SEALS AND JOINTS



**PLEASE READ & UNDERSTAND THIS USER GUIDE
PRIOR TO COMPILING A SAFE SYSTEM OF WORK
AND USING THE EQUIPMENT SUPPLIED**

For the latest version of this document visit mgf.co.uk

mgf.co.uk



1. IMPORTANT NOTES

- For the use of MGF supplied equipment only.
- Ensure potential users are fully trained in the operation of this equipment and a site specific safe system of work is in place and adhered to.
- It is essential that site specific risk assessments are undertaken.
- If in doubt concerning the integrity of any part of the equipment DO NOT USE IT.
- All newly laid pipe runs, manholes etc. should always be tested prior to backfilling as per BS EN 752:2008 (Drain and Sewer Systems Outside Buildings) and BS EN 1610:2015 (Construction and Testing of Drains and Sewers).
- The requirement states that under site conditions a test is carried out in the presence of a Site Engineer or Buildings Inspector once a complete length has been finished and before acceptance. Prior to any test, a visual inspection is to be carried out for obvious signs of damage.
- It is assumed the user is familiar with the requirements of the test.
- Ensure the correct stopper has been supplied for size of the pipe to be tested.

2. MGF EXAMINATION AND TESTING

- Upon return to MGF the equipment will be cleaned, inspected and function tested by a competent and trained MGF safety technician.

3. GRP MULTI TEST AIR STOPPERS

You have been supplied with the following:

- Pair of Multi Test Air Stoppers to suit your pipe range
- Hand Pump or Compressor
- Pressure Relief Valve (max pressure 1.5 bar)
- Red 10m inflation line with male/female couplings
- U' gauge with associated hose

Range (mm)	Max inflation pressure (bar)	Max pressure in pipeline (bar)	Working pipe diameter (mm)	Weight (kg)
300/400	1.5	0.5	300-400	TBC
400/500	1.5	0.5	400-500	TBC
500/600	1.5	0.5	500-600	TBC
600/700	1.5	0.5	600-700	TBC

- Before use, check diameter of the pipe to make sure it does not exceed the maximum diameter of the stopper.

4. INSTALLATION AND INFLATION - METHODS

- Before starting the test, check the internal surfaces on the working/test area for sharp protrusions or uneven edges and thoroughly clean with water, taking care to remove any sand or debris.
- Hand pump or compressor inflation.
 - Connect the male coupling on the hand pump or compressor hose to the female coupling on the pressure relief valve, by pulling back the sleeve on the female coupling and allowing it to fall back into position once the male coupling is inserted.
 - Connect the female coupling on the red inflation line to the male coupling on the pressure relief valve, connect the red inflation line to the outer rim of the stopper.
- Inflate the outer rim to just under the internal diameter of the pipe, place squarely inside the pipe and inflate until maximum pressure (approx. 1.5 bar) is indicated on the gauge.
- Once the stopper has been inflated remove the red line. Check the valve on the outer rim of the stopper for leaks with soapy water. The installation procedure should be followed for both ends of the pipe, effectively sealing both ends of the run.
- **NEVER** – Inflate stoppers over sharp protrusions
- **NEVER** – Inflate stoppers to over 1.5 bar
- **ALWAYS** – Use the MGF-supplied pressure relief valve
- **ALWAYS** – Clean area of pipe to receive stopper
- **ALWAYS** – Check the diameter of the pipe before use, to ensure it does not exceed the maximum diameter of the stopper
- **WARNING** – Over-inflated stoppers can burst, potentially causing serious accidents.

Figure 1



5. TESTING

- Connect the red inflation line male coupling into either of the female couplings situated in the centre of the stopper.
- Before internal pressure is applied place the 'U' gauge hose into the left-hand connector on the 'U' gauge and connect the free end of the hose into the free female coupling in the centre of the stopper.
- Fill the 'U' gauge to approx. ¾ level by pouring clean water into the open end of the 'U' gauge assembly and sit firmly on a flat area, or push the pointed base into soft ground to secure upright.
- Apply internal pressure by using the hand pump or compressor, being careful not to apply over 0.5 bar of pressure.
- The water level in the 'U' gauge will rise – a reading of approx. 125/150mm is desired
- Leave the set up for 5-10 minutes, the level should not drop below 75mm – if this is achieved it constitutes a 'pass'.
- **NEVER** – Try to use stoppers for high pressure tests

Figure 2



6. DEFLATION

- Once a satisfactory test has been achieved, dismantle the test equipment.
- Remove the 'U' gauge equipment from the centre of the stopper and reattach the red inflation line to the outer rim of the stopper.
- Gently pull the ring situated on the side of the pressure valve until the stopper is deflated.