

9. BRACING

- **WARNING** - All stoppers must be braced, failure to do so could result in damage, serious injury or death.

10. DEFLATION

- If the stopper is retaining a head of water or pressure or air it is essential to release the pressure prior to deflation.
- If this is not possible, it is imperative that the stopper is securely braced or fastened in place to prevent it becoming dislodged during deflation.
- When securing the stopper never rely on the inflation hose as a means of securing it, instead use a chain or rope fastened to the tug ring/eyebolt of the stopper.
- **NEVER** - Lift a stopper using the inflation hose.

11. STORAGE

- Store stoppers out of direct sunlight in a clean, dry area.

12. 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 or compressor controller.
- **ALWAYS** - Clean area of pipe to receive stopper.
- **ALWAYS** - Check valves do not leak using soapy water.
- **ALWAYS** - 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** - Lift the stopper using the inflation hose.
- **WARNING** - Over-inflated stoppers can burst, potentially causing serious accidents.
- **WARNING** - All stoppers must be braced, failure to do so could result in damage, serious injury or death.

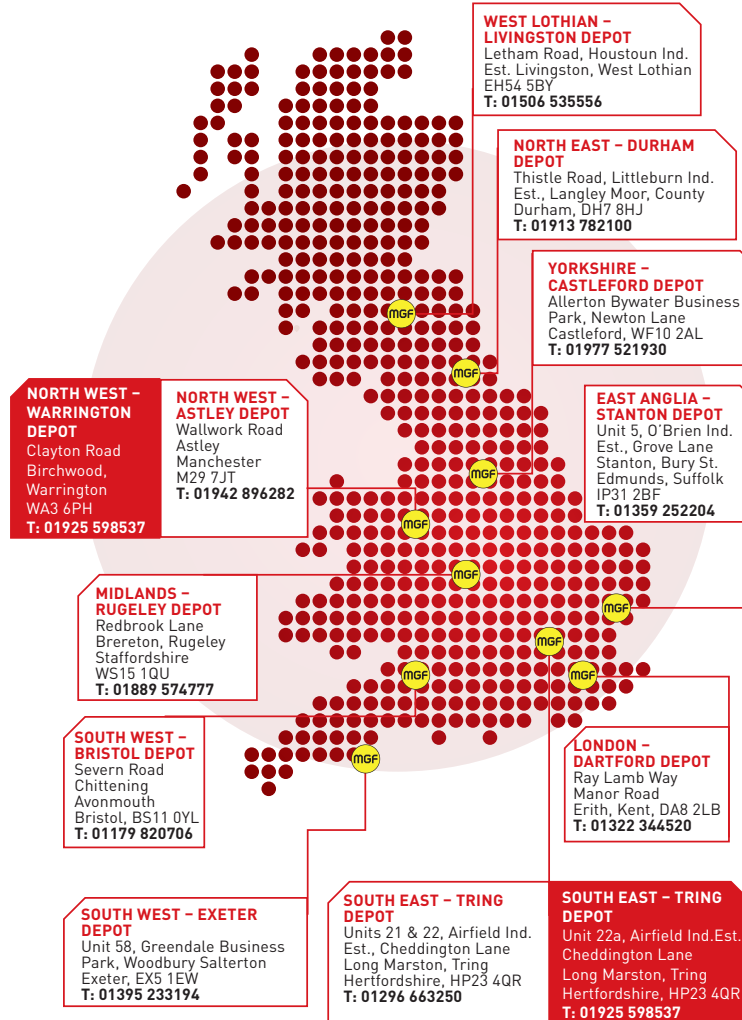


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USER GUIDE: BLANK PIPE STOPPERS



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

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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 completed 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. VISUAL INSPECTION/FUNCTIONAL TEST - PRIOR TO USE

- Before the start of each use, ensure that the equipment is clean and free from debris and there are no obvious defects.
- Ensure that the item has a green tag, stating when it was last inspected.
- Each item comes with a unique ID number, please ensure this can be found.

4. VETTER BLANK PIPE STOPPER

- You have been supplied with a durable, expandable pipe stopper designed to be inflated to a round pipe and when suitable braced to withstand a maximum back pressure of 0.5 bar or 5 metre head of water.
- You have also been supplied with:
 - A hand pump or 12V compressor
 - A pressure relief valve (max. pressure 1.5 bar)
 - Red 10m inflation line with male/female couplings
 OR
 - Compressor controller
 - Red 10m inflation line with male/female couplings

5. VETTER BLANK PIPE STOPPER

Range	Max inflation pressure	Max pressure in pipeline	Pipe diameter	Cylinder length	Total length	Air requirement approx.	Weight	Max back pressure
(mm)	(bar)	(bar)	(mm)	(mm)	(mm)	(l)	(kg)	(bar)
	Inside pipeline	Outside pipeline						
100/200	2.5	0.5	100-200	90	510	555	1.2	1.0
150/300	2.5	0.5	150-300	145	460	505	1.9	1.0
200/400	2.5	0.5	200-400	195	650	700	2.8	1.0
200/500	2.5	0.5	200-500	195	750	795	5.0	1.0
300/600	2.5	0.5	300-600	295	735	780	7.0	1.0
500/800	2.5	0.5	500-800	450	1110	1155	17.0	1.0
600/1000	2.5	0.5	600-1000	580	1320	1365	25.0	1.0
500/1000	1.5	0.5	500-1000	450	1110	1155	17.0	0.5
600/1200	1.5	0.5	600-1200	580	1320	1365	25.0	0.5
800/1400	1.5	0.5	800-1400	785	1810	1855	41.0	0.5
1400/1700	0.5	0.2	1400-1700	1350	1900	2150	55.0	0.2
1700/2000	0.5	0.2	1700-2000	1620	1900	2300	59.0	0.2

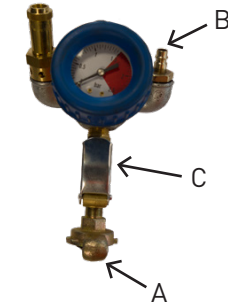
6. BEFORE INFLATION

- Before installation of a stopper the internal surface of the pipe should be cleaned of all debris from the area where the stopper will be situated.
- Make sure there are no protrusions that could damage the stopper.
- It is advisable that a small security line should be attached to the stopper and tied off to prevent the possible loss of the stopper during deflation.
- Before use, check diameter of the pipe to make sure it does not exceed the maximum diameter of the stopper.
- **NEVER** - Inflat stoppers over sharp protrusions.
- **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.

7. INFLATION USING COMPRESSOR CONTROLLER

- The compressor controller is equipped with a standard claw coupling that will fit into any building site compressor line.
- It contains a safety relief valve to eliminate the possibility of over inflation of the stopper.
 - 1) Connect air supply to claw (A).

- 2) Connect male coupling (B) to the female coupling on the red inflation line.
 - 3) Connect the male coupling on the red inflation line to the female coupling on the pipe stopper.
 - 4) Gently depress the control lever (C) until the stopper is inflated. The pressure gauge will indicate the internal pressure of the stopper. If the maximum inflation pressure is exceeded the pressure relief valve will activate, release the control lever immediately in this situation.
 - 5) Once the stopper has been inflated, remove the red inflation line.
- **WARNING** - Over-inflated stoppers can burst, potentially causing serious accidents.



8. INFLATION USING 12V COMPRESSOR OR HAND PUMP WITH PRESSURE RELIEF VALVE

- 1) Connect the male coupling on the hand pump or compressor hose to the female coupling on the pressure relief valve (A).
 - 2) Connect the female coupling on the red inflation line to the male coupling on the pressure relief valve (B).
 - 3) Connect the male coupling on the red inflation line to the female coupling on the pipe stopper.
 - 4) Inflate the stopper using the 12V Compressor or Hand Pump, the pressure relief valve will activate at 1.5 bar.
 - 5) Once the stopper has been inflated remove the red inflation line.
- **ALWAYS** - Use the MGF-supplied pressure relief valve.
 - **WARNING** - Over-inflated stoppers can burst, potentially causing serious accidents.

