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Company Background

FLOWSTOPPER Pty Ltd is a proudly Australian company founded by licensed plumber Neal Borland. Neal has over 18 years experience in the plumbing industry, specialising in maintenance plumbing. Fed up with wasting time on pipe repairs waiting for the water to stop draining out of the line, stuffing bread up the pipe or paying for freezing companies, Neal set about inventing and testing a better solution.

Neal realised that there had to be a better way to repair broken copper water pipes. After ten years of research and development and over two years of on-the-job testing, the revolutionary FLOWSTOPPER™ plugging device is now available for all plumbers.

The FLOWSTOPPER™ plugging device is an innovative new tool (International Patents applied for) that instantly plugs the residual flow of water in the pipeline. Neal designed the FLOWSTOPPER™ plugging device because of the frustrations he experienced on his own jobs. When repairing broken water pipes the residual water would enter the pipeline whilst halfway through the pipe repair which caused no end of trouble in the welding process.

Neal also found that when he shut down older control valves they would commonly not shut off completely. 90% to 95% of the water flow may have shut off, leaving 5% to 10% of the water flow still coming through the pipe line.

The FLOWSTOPPER™ plugging device has been designed to overcome these two common plumbing problems.

FLOWSTOPPER™ Plugging Device Kit and Replacement Parts

No		Part Description
1		FLOWSTOPPER™ Plugging Device Kit (includes all parts as shown)
2	205941	FLOWSTOPPER™ Small Bladder (for copper pipes 20*32mm diameter)†Δ
3	205942	FLOWSTOPPER™ Medium Bladder (for copper pipes 40*50mm diameter)†Δ
4		FLOWSTOPPER™ Large Bladder (for copper pipes 65*100mm diameter)†Δ
5	205944	FLOWSTOPPER™ Stainless Steel Hose 1.3m unbraided* Ω§
6		FLOWSTOPPER™ Stainless Steel Hose 1.3m braided* Ω◊
7	205946	FLOWSTOPPER™ Valve Core Remover
8		FLOWSTOPPER™ Air Hand Pump
9		FLOWSTOPPER™ Mini Vial

† Approximate pressure that the inflated bladder will hold before it will start to be pushed down the line is:
For small bladders 80*90kpa maximum
For medium bladders 40*50kpa maximum
For large bladders 40*50kpa maximum
Please note these pressures will vary from job to job

Δ **NOTE:** If the correctly sized bladders are not used this may result in premature bladder failure.

* Stainless steel hoses are rated *50C to +816C
Stainless steel unbraided hose is pressure rated maximum 18 bar
Stainless steel braided hose is pressure rated maximum 120 bar

§ 1.3m braided hose recommended for 50*100mm pipes

◊ 1.3m unbraided hose recommended for 20*40mm pipes

Ω Custom made hoses can be manufactured upon request.

Key Features & Benefits

The FLOWSTOPPER™ is a revolutionary new tool that instantly and completely plugs the flow of residual water in the pipeline when repairing broken copper water pipes. Simply feed the hose into the pipe, pump up the bladder and you're ready to weld.

No more waiting for the flow to stop and no more paying for freezing companies. Plus, you can charge out for every use, so the kit pays for itself after just a few uses!

- **NO MORE WAITING, HOPING, WORRYING**
- **FAST, FREE & SO EASY TO USE**
- **NO FREEZING OR PLUGGING WITH BREAD**
- **FOR USE IN 20-100MM PIPES**
- **YOU CAN CHARGE OUT PER USE**
- **COMPACT DESIGN**

Take full control of pipe repairs and save hours!

Frequently Asked Questions (FAQs)

Q. Can the FLOWSTOPPER™ plugging device be charged out for use?

A. Yes. The feedback from our customers has been that as well as saving themselves hours, they are charging AU$100 - AU$150 per use. Plus, they are saving the money they used to spend on paying a freezing company.

Q. How much time will it save when repairing broken water pipes?

A. It could be from one hour to half a day per job depending on the nature of the job.

Q. Can I oxy acetylene weld with the hose in the pipe?

A. Yes! The special stainless steel hoses are rated at 816°C and contain no rubber so you can weld straight away.

Q. What sized pipes can you use the bladders in?

A. Small = 20mm – 32mm / 3/4″ – 1 1/4″ pipes
Medium = 40mm – 50mm / 1 1/2″ - 2″ pipes
Large = 65mm – 100mm / 2 1/2″ – 4″ pipes

Q. Approximately what pressure will the bladders hold back?

A. Small bladder 80-90 Kpa, medium and large bladders 40-50 Kpa. The device is not designed to hold back mains pressure. It is for use on the outlet side of a water meter or other control valve.

Q. How many times can I reuse the stainless steel hoses and bladders?

A. They can be used many times. Our conservative minimum guide is 5 -15 uses each, however our customers report life expectancy much longer than this.

Q. Is the FLOWSTOPPER™ plugging device guaranteed?

A. Yes, it is covered by our 12 month guarantee against defective workmanship or parts.

Q. Can I get replacement parts?

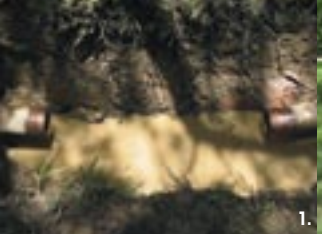
A. Yes! Replacement bladders and hoses are available through our national stockists.

Q. Can the device be used in gas lines?

A. No, it has been designed for water use only.

Q. How far does a bladder need to be pushed past the join to be welded?

A. A minimum 600mm (24″) past the join to be welded is required however we recommend as far past as possible. If this can not be achieved we recommend using a product such as "Cool Gel" (by LA-CO) on the pipe work to slow down the heat transfer process. You can also use "Cool Gel" on the stainless steel hoses to extend their life.



Step-by-Step Instructions

1. Cut out the section of pipe to be repaired (see photo 1).

2. Where possible, weld a tee piece into the new section of piping to be installed whilst pipe is out of the ground (see photo 2).

3. Firmly screw appropriate sized bladder into the female end of the hose (see photo 3).

4. Feed **'air valve end'** of the stainless steel hose up the end of the new piece of pipeline to be inserted, and then pull out a short distance of stainless steel hose from the tee piece opening (see photo 4).

5. Slowly slide excess stainless steel hose inside the pipe in the ground to be welded while joining new copper section with couplings (see photos 5 and 6).

6. Once new section of piping is in position, attach hand pump to the end of hose which is sticking out of the tee piece (see photo 7) and proceed to the pump as according to the following recommendations:

- **Small bladder**

  20mm copper pipe = 1-2 full hand pumps

  25mm copper pipe = 2-2½ full hand pumps

  32mm copper pipe = 2-3 full hand pumps

- **Medium bladder**

  40mm copper pipe = 2-3 full hand pumps

  50mm copper pipe = 3-6 full hand pumps

- **Large bladder**

  65mm copper pipe = 6-10 full hand pumps

  80mm copper pipe = 8-12 full hand pumps

  100mm copper pipe = 14-17 full hand pumps

PLEASE NOTE: When using the FLOWSTOPPER™ plugging device in 20mm pipe you **will need to install a 25mm tee piece** and reduce back down to **20mm** either side of the tee piece or insert directly into the open end of a 20mm pipe. This will allow for ease of removing the FLOWSTOPPER™ plugging device and reduce possible damage to stainless steel hose and bladder. This is required because it will be too tight to remove the hose and bladder from a 20mm tee piece.

7. **Do not over inflate the bladder.**

Handy Hint:

Before inserting the bladder all the way up the pipe to be welded, insert the bladder

only a short distance into the pipe so that the bladder can still be seen. Whilst in this position count the number of hand pumps required to get the bladder to a desired firmness (per recommendation above) in the pipe. This process will assist you before carrying out the welding. Then when inserting the bladder all the way up the pipe ready for welding you will now know exactly how many hand pumps are required to get the bladder to the same firmness.

8. Give the stainless steel hose a firm tug or pull and if there is no movement the bladder is at sufficient pressure.

9. Avoid wetting hand pump or submersing in water as it will reduce the pump's effectiveness.

10. Be sure to open up hose taps or water meter heads nearby to avoid pressure building up inside the pipeline. If this can not be achieved, extreme caution should be taken as pressure may build up in the pipeline behind bladder and start to push hose and bladder back down the line towards the person oxy-acetylene welding.

11. Your normal oxy-acetylene welding procedure can now be carried out (see photo 8).

12. Once pipe work has been oxy-acetylene welded and checked, manually deflate bladder by using finger nail or small object in the valve end at tee piece.
Beware of scalding and/or steam water during this process.

13. Carefully and slowly pull stainless steel hose out of the pipeline tee piece and avoid hand injury from possible red hot hose. Be careful not to damage hose and bladder at the tee piece during this process (see photo 9).

14. Once hose is removed either install a brass cap onto thread in tee piece or oxy-acetylene weld appropriate copper patch over the hole that was made (see photo 10).

PLEASE NOTE: The FLOWSTOPPER™ plugging device can also be inserted directly into the end opening of a pipe without the need of a tee piece should this process ever be required.

FLOWSTOPPER™ Warranty

Your FLOWSTOPPER™ plugging device is covered by our 12 month limited guarantee against defective workmanship or parts commencing on the date that you purchase the product. In the event of a product or accessory being replaced during the guarantee, the guarantee on the replacement will expire at the original date i.e. 12 months from the original purchase date.

Proof of purchase

Please keep your receipt as proof of the date you purchased the product. This receipt must be presented with the product when making a claim under this guarantee.

Repair

During this guarantee period FLOWSTOPPER Pty Ltd will replace any defective product. However if the product includes a number of accessories, only the defective part or accessory will be replaced by FLOWSTOPPER Pty Ltd and charges may be applicable depending on the results of the examination. The warranty is subject to compliance with the directions and guidelines of use as set out in the product information included in the kit.

Extent of guarantee

This guarantee is limited to manufacturing defects only. Any defective products or parts will be replaced or repaired. The guarantee excludes defects caused by the product not being used in accordance with instructions, accidental damage or misuse.

Exclusions to the guarantee

- Faults or damage caused by normal wear and tear (approximately 5-15 uses for stainless steel hose and all sized bladders) or damage caused by accident, misuse or negligence.
- Damage caused to bladder where burs (sharp edges) on copper pipe and/or fittings have not first been removed.
- Damage caused to hose by attempting to push through multiple bends.
- Repair carried out to the FLOWSTOPPER™ plugging device where unapproved spare parts have been used or unapproved persons have carried out repair work.

If you require service during the guarantee period

Carefully read the user guide to ensure correct operation. For further advice phone or email your questions to FLOWSTOPPER Pty Ltd. After speaking to FLOWSTOPPER Pty Ltd should it be deemed necessary that the product be returned you will be asked to send the product to FLOWSTOPPER Pty Ltd by mail together with your proof of purchase receipt.

Please ensure that the product is properly packaged so that no damage occurs to it during transit. Please clearly address the package and provide your name, address and daytime contact phone number and nature of the fault with the product.

How To Contact Us

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