Recycling Tool

For use with Calgaz Cylinders only

As part of our ongoing commitment to the environment, Calgaz recommends that all Non-Refillable cylinders (NRC's) are safely and properly recycled using our Recycle Tool and local metal recycling facilities.

NRC packages are designed to be recycled locally reducing the need for the expense in returning the cylinders to their place of manufacturing, reducing costs and more importantly preventing the unnecessary transportation of empty cylinders, keeping our carbon footprint to a minimum.

Calgaz offers three types of Recycle Tools which are called **RC 4240, RC 4250** and **RC 4260** and they are specifically designed for the cylinders being recycled.

Using the RC 4250: (Brass and Aluminium valves)

- A visible hole is created in the compatible cylinder valve assemblies.
- This clearly indicates no pressure remains (the pin should rattle inside the cylinder).

Using the RC 4240 (Recommended for Stainless Steel valves):

- The valve is pushed into the valve assembly (the pin will not rattle inside the cylinder).
- Once the cylinder is empty, it can be recycled according to local regulations.

Using the RC 4260 (For CGA600 valves only):

- A visible hole is created in the compatible cylinder valve assemblies.
- This clearly indicates no pressure remains (the pin should rattle inside the cylinder).



Model RC 4240 (For Internal Cylinder Valve Threads)



Model RC 4250 (For Internal Cylinder Valve Threads)



Model RC 4260 (For External Cylinder Valve Threads)

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Model RC 4240
(For Internal Cylinder Valve Threads)



Model RC 4250
(For Internal Cylinder Valve Threads)



Model RC 4260
(For External Cylinder Valve Threads)



Model	Compatible Cylinders	Comments
RC 4240	2ALE, 8ALE, 10ALE and cylinders	Recommend for use with the Stainless Steel C10 valves.
RC 4250	2ALU, 8ALU, and 6D or 6DM, 10ALU cylinders	Standard Recycle tool used for C10 valved products. Recommended for use with Brass and Aluminium C10 valves.
RC 4260	7HP and 7EOC cylinders	Standard Recycle tool used on CGA600 valved products.

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Safety Instructions

READ ALL DIRECTIONS BEFORE PROCEEDING

The Calgaz patented cylinder recycling tool is designed to decommission approved non-refillable cylinders, making them easier and safer to discard. Proper use of the tool will render the cylinder valve unusable by damaging the valve mechanism. Empty cylinders should be properly disposed of, by sending to locally approved recycling facilities.

Step 1: Determine cylinder type and applicable tool to use.

Step 2: Cylinders must be EMPTY before proceeding. All Cylinders must be safely relieved of pressure by use of a regulator before proceeding with deactivation of the valve. Vent contents outdoors or under a properly rated lab hood. Flammable gas mixtures must be emptied away from all possible sources of ignition. Read the SDS if you are not sure about the flammability of the gas mixture. Some residual gas may escape during the procedure. Always wear safety glasses and proceed slowly when working with the cylinders.

Step 3: Hold cylinder with valve away from face. Use caution when working with calibration cylinders. If you are unfamiliar with their use, contact someone who is knowledgeable.

Step 4: Prepare the tool for use by making sure the center punch is retracted completely into the body of the tool. The center punch is retracted by turning it counter clockwise until it stops.

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Safety Instructions

Step 5: Screw the tool on the cylinder as you would a regulator. If working with a flammable gas mixture perform the remaining operations with the cylinder and tool immersed in, for example, a water bath - to preclude friction as a possible source of ignition.

Step 6a: 4250 / 4260 Turn the handle slowly clockwise. You will feel increasing resistance until the resistance lessens (or you hear a rattle at the bottom of the cylinder). At this point, you will have pushed the valve stem retainer (and possibly valve stem) out of the valve. There may be some venting during this procedure. If venting occurs, allow gas pressure to dissipate safely. The tools are designed with gas relief ports in the event that cylinders contain residual gas.

Step 6b: 4240 Turn the handle slowly clockwise. You will feel increasing resistance until the handle can no longer rotate. At this point, you will have pushed the valve stem into the base of the valve (No rattle will be heard when used on a stainless steel valve). There may be some venting during this procedure. If venting occurs, allow gas pressure to dissipate safely. The tools are designed with gas relief ports in the event that cylinders contain residual gas.

Step 7: Retract and remove the tool by turning the handle counter clockwise several turns and then turning the knurled body with your fingers until it comes unthreaded from the cylinder valve. Do NOT use the handle ONLY to remove the recycling tool from the valve as this may impart undue stress on the center punch. After retraction there will be a visible hole or the valve stem is compressed into the valve body. The valve stem or retainer may rattle in the bottom of the cylinder.

Note: Not all recycled cylinders will “rattle” (for example, cylinders with a stainless steel valve) due to the valve stem being compressed into the body only.

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Expected Recycled Conditions

Recycle Tool Models vs. Cylinder Type vs. Expected Outcomes

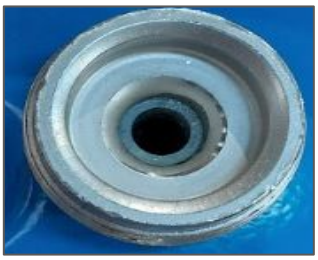
4250	4250	4240
2AL	8AL	2ALE & 10ALE
		
		
Hole	**Hole**	**Depressed**

Please note that whilst this page details the expected physical conditions of the cylinders after using the recycling tool, you must always consult and strictly adhere to your own specific regional and local recycling regulations prior to disposal.

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Expected Recycled Conditions

Recycle Tool Models vs. Cylinder Type vs. Expected Outcomes

4260	4250	4250
7HP	6D	6DM
		
		
Hole	Hole	Hole

Please note that whilst this page details the expected physical conditions of the cylinders after using the recycling tool, you must always consult and strictly adhere to your own specific regional and local recycling regulations prior to disposal.

Warnings for Recycling Tool

1. Always wear safety glasses when using these tools.
2. Use these tools only with cylinders supplied by Calgaz.
3. Expect to feel a steady resistance as you turn the handle , along with some metal-on-metal noises. However, if the handle becomes jammed, locks up, or requires a sudden spike in physical effort to turn, stop immediately and inspect the cylinder valve and recycle tool for damage.
4. Do not use wrenches or pliers to attach the tool to a cylinder, use only hand pressure.
5. To render the cylinder valve inoperable, apply firm, controlled pressure with the recycling tool and explicitly avoid using excessive force to prevent damaging the recycle tool.
6. Use the recycling tools in a well ventilated area.
7. Do not use the tool if it fails to engage properly with the cylinder threads, otherwise injury may occur.
8. Always empty cylinders before using recycling tools.
9. The 4240 recycling tool is designed for use on Aluminium and Stainless Steel valves.
   The 4250 model is designed for use with Brass and Aluminium C10 valves.
   The 4260 model is designed for use with Calgaz sold CGA600 valves.



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