**RPV Cylinder adapter**

The RPV cylinder valve adapter is intended to pin the RPV valve mechanism in place for use with a high flow application such as a glove box. By pinning the mechanism, it can no longer vibrate and therefore does not produce the offending harmonic sound that goes along with the vibration. In the event that one of these adapters is inadvertently used on a standard cylinder valve, it WILL DAMAGE THE VALVE STEM. If this occurs, there are some steps to take in order to return this cylinder to Airgas for re-valving.

**If the cylinder is hooked up to the regulator and in-use when the error is discovered:**

1. Call Mike Chenoweth at Airgas 309-846-6480
2. Make sure the cylinder is secured
3. Do not attempt to disconnect the cylinder.
4. **DO NOT ATTEMPT TO OPEN OR CLOSE THE CYLINDER VALVE AT ANY TIME.** This could cause the stem to sever and release pressure.
5. Continue use on the cylinder to use up the product and de-pressurize the cylinder.
6. Mark the cylinder with a piece of masking tape or label indicating “Bad Valve”
7. Return the cylinder to Airgas once the cylinder is empty.

**If the cylinder is in the process of being hooked up and starts leaking after the RPV valve adapter is inserted:**

1. Call Mike Chenoweth at Airgas 309-846-6480
2. Secure the cylinder in an upright position in a cylinder rack or stand so it cannot tip if a pressure release occurs.
3. **DO NOT ATTEMPT TO OPEN OR CLOSE THE CYLINDER VALVE AT ANY TIME.** This could cause the stem to sever and release pressure.

*If the lab is of sufficient size, well ventilated, and can be evacuated until the cylinder has emptied, then*

4. Leave the RPV adapter in the cylinder and let it vent. Proceed to step 6.

*If the lab is very small, cannot be evacuated, or is a confined space where oxygen displacement is a possible risk,*

5. Face the valve and adapter away from yourself or any other individuals. Slowly remove the RPV adapter from the valve.
6. Place the cylinder cap back onto the cylinder and transport the cylinder to an outside dock where it can vent, and secure it.
7. Mark the cylinder with a piece of masking tape or label indicating “Bad Valve”.