

## INSTRUCTIONS FOR FILLING **HIGH PRESSURE** SAMPLE CYLINDERS

**WARNING**  
**PLEASE READ CAREFULLY IN ORDER TO PREVENT PERSONAL INJURY  
OR DAMAGE TO THE SAMPLE CYLINDER**

\*\*\* **WARNING** \*\*\*  
ONLY PERSONS TRAINED IN COMPRESSOR MAINTENANCE AND FILLING OF SCBAs  
SHOULD ATTEMPT TO FILL THIS CYLINDER.  
HEARING AND EYE PROTECTION SHOULD BE WORN.

The provided cylinder(s) are to be used for the acquisition of compressed breathing air samples from **high pressure systems**. Note that the cylinders have been slightly pressurized with dry compressed air or nitrogen in order to maintain a dry atmosphere.

### HOW TO COLLECT A SAMPLE

1. The sample cylinder provided is a **high pressure** cylinder and is provided with a CGA 346 male fitting which should be compatible with most systems.
2. Section 15.2.1 of CAN/CSA Standard Z180.1 states: "Samples shall be taken from service outlets representative of the compressed breathing air system."
3. Connect the sample cylinder inlet (CGA 346) to the outlet of the system. Open the outlet valve (with burst disk) followed by the inlet valve on the sample cylinder.
4. Open the gas source and throttle it back to **500 psig**. For air systems with no regulator, it is very important to gradually open the valve to avoid blowing the burst disk in the sample cylinder. There is a charge of \$100.00 for a blown burst disk.  
**UNDER NO CIRCUMSTANCES MUST THE GAUGE READ MORE THAN 1,000 PSIG.**
5. Allow gas to flow through the cylinder for **20 min**. ***Make sure that the air stream is directed away from all personnel.***
6. Close the cylinder outlet valve and allow the cylinder to pressurize to **500 psig**, then close the inlet valve. Close the source gas valve, depressurize the line and remove the cylinder from the compressed air source.
7. **Fill in the tag on the cylinder. This information is important for the accuracy of the results.**
8. **Fill in the Compressor Specifications Sheet provided.** It must be returned, along with the cylinder, to RPC.

**rpc**

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