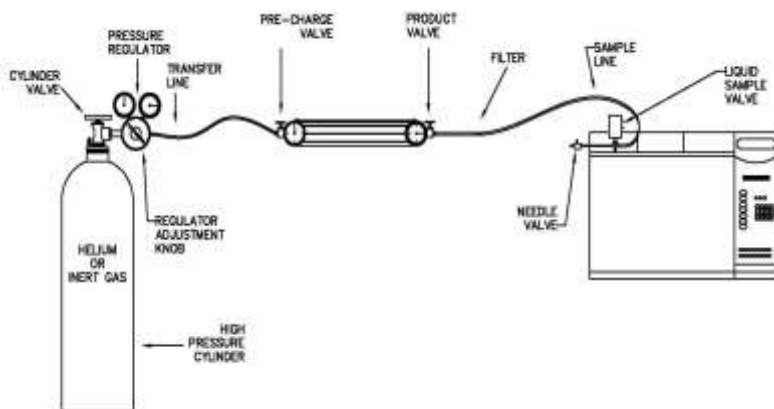


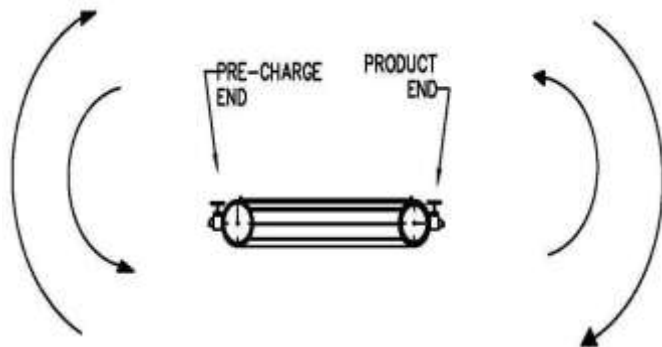
# DCG Spec-Brief™

## Instructions for Attachment of Constant Pressure Cylinder to a Gas Chromatograph

SB – 107



- Mix CPC by holding horizontally at both ends.
- Raise the pre-charge end to a vertical position and hold two to three seconds, and then lower to a horizontal position.
- Raise the product end to a vertical position and hold two or three seconds, then lower to a horizontal position.
- Repeat eight to ten times.



### PRE-CHARGE SIDE:

All CPC's must have constant pressure on the pre-charge valve, ensuring all components remain homogeneous.

Attach pressure regulator to a high pressure cylinder containing helium or other inert gas

Determine the regulator adjustment knob is closed

Connect transfer line from regulator to pre-charge valve of CPC.  
Slowly open inert gas cylinder valve.

Set regulator adjustment knob to sufficient pressure to maintain a single phase; above the vapor pressure of the standard.

Do not exceed the working pressure of the CPC.

Open pre-charge valve on CPC and charge to sufficient pressure.

Leave pre-charge valve open, maintain constant pressure during analysis.

*DCG Spec-Brief™*

*Consult the following Spec's for related Applications:*

**SB-102 Constant Pressure Cylinders**

**SB-120 1400 Series High Pressure Regulator**

**SB-121 492 Series Ultra-High Pressure Regulator**

**Product Side**

Attach filter and sample line to liquid sample valve.

Verify filter flow direction.

Connect transfill assembly to product valve of CPC.

Determine that needle valve on outlet of liquid sample valve is closed.

Open product valve.

Purge sample line to remove contaminants.

Leave pre-charge valve open, maintaining constant pressure during analysis

Inject Sample in accordance to instrument manufacturer's recommendation.

**Following sample analysis by GC**

Close inert gas cylinder valve, pre-charge valve and product valve on CPC.

SAFELY RELIEVE PRESSURE ON ALL LINES.

Disconnect sample line from product valve and transform line from pre-charge valve.

Store, transport or empty contents of CPC according to applicable regulations and company policy



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