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ASSEMBLY INSTRUCTIONS FOR  
**CG-1968-V**  
CHEMGLASS AIR ACTUATED DRAIN VALVES



Read entire assembly instructions before you begin. Familiarize yourself with all of the parts, and pay close attention to all notes and highlights. If you have any questions, please contact our technical service department at (800) 843-1794 or [technical-service@cglifesciences.com](mailto:technical-service@cglifesciences.com)

Thank you for your purchase of our Air Actuated Lower Drain Valve Assembly. This valve is for use with our 10 through 50 Liter reactors.

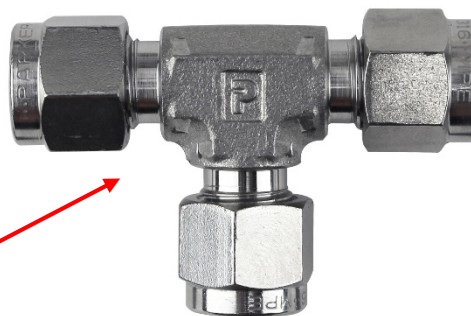
**Part Numbers:**

CG-1968-V-01: Valve with Stainless Steel Shaft and Air Control Panel

CG-1968-V-02: Valve with Hastelloy Shaft and Air Control Panel

The Air Control Panel comes partially assembled and has to be connected to a main air supply line and to the air cylinder as follows:

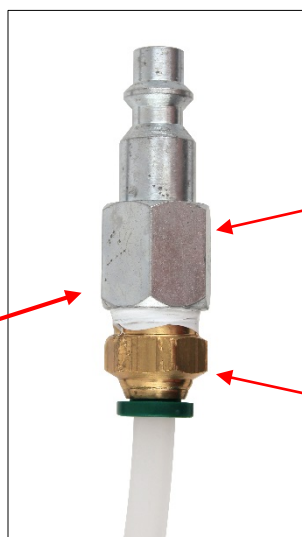
The main air supply line needs to be connected to the "T" fitting as shown below.



"T" Fitting for Main Air Line Connection

**NOTE:** Please make sure that your air supply is clean, dry and filtered in order for the valve to operate properly. Filters are available from Chemglass Life Sciences under the part number CG-2025-10.

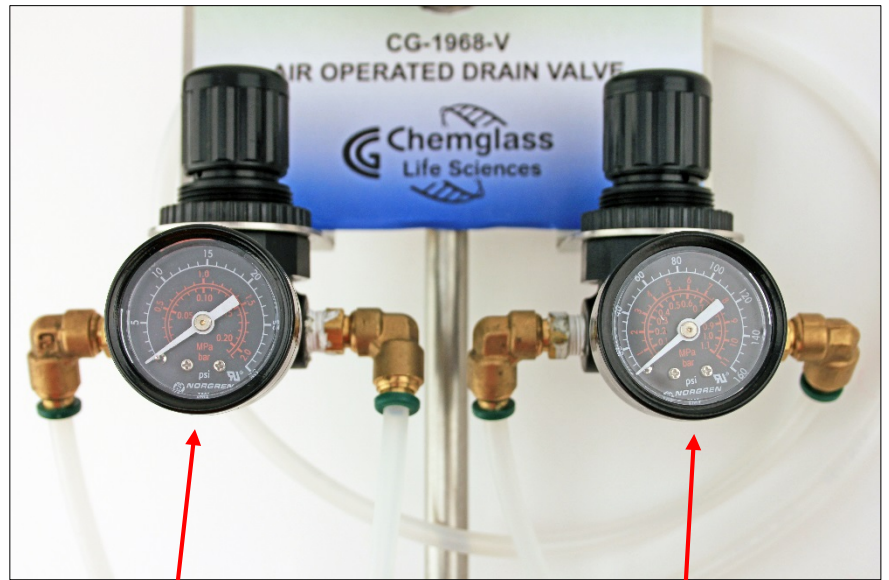
For connection to the main air supply line, we supply a tubing connection which has a ¼" male NPT thread. This connection can be connected directly into the air supply or can be used to adapt to any form of quick connect. **(Illustrated, but not supplied)**



NOT SUPPLIED

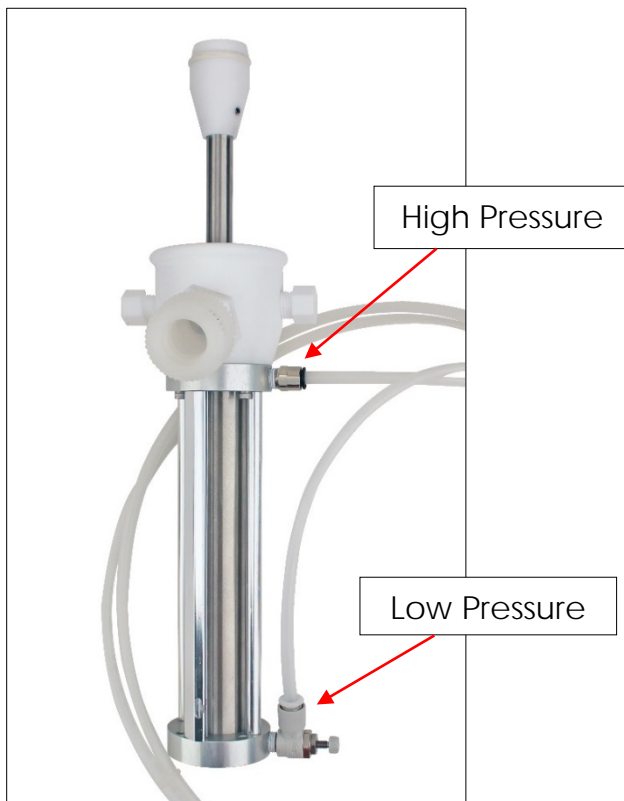
Supplied End Fitting

The air cylinder needs to now be connected to the control panel in this manner:



Low Pressure

High Pressure

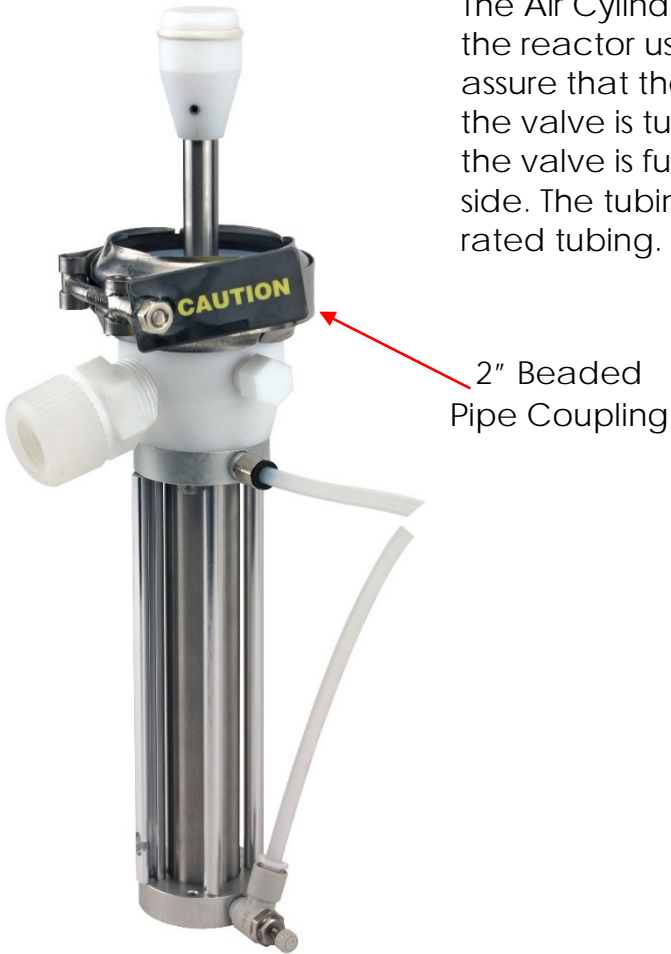


The 'Open' side (high pressure) regulator needs to be connected to the upper connection of the air cylinder. The cylinder needs between 60 and 80 psig to OPEN.

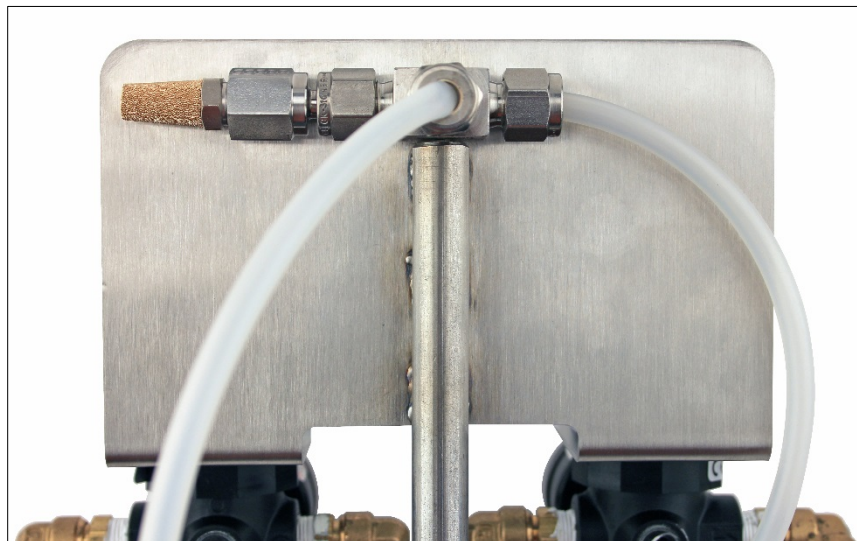
The 'Close' side (low pressure) regulator needs to be connected to the lower connection of the air cylinder. This low pressure 4 psig is applied to the valve to make sure that the valve remains closed at all times.

**PLEASE NOTE:** The regulators have been shipped factory preset. Please do not make any changes to the factory presets without contacting Chemglass Life Sciences.

The Air Cylinder then needs to be clamped to the bottom of the reactor using a 2" beaded pipe coupling (CG-1968-67). To assure that the valve mounts properly, please make sure that the valve is turned to OPEN once the air is connected. Once the valve is fully installed, the valve can be turned to the closed side. The tubing used for all air connections is 1/4" OD pressure rated tubing. Connections are of the Quick Connect type.



The control panel has a universal mounting bracket on the back and is supplied with a 10" piece of 1/2" SS rod. This permits the panel to be mounted to the reactor stand by using a CG-9253-20 or CG-9253-30 Kwik clamp. The control panel can also be mounted outside the hood if necessary.



The valve has a 3/4" compression fitting that will accept 3/4" PTFE tubing. A secondary ball valve kit is sold as an accessory.