



**Mastercool®**  
"World Class Quality"

English

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**OPERATING INSTRUCTIONS**

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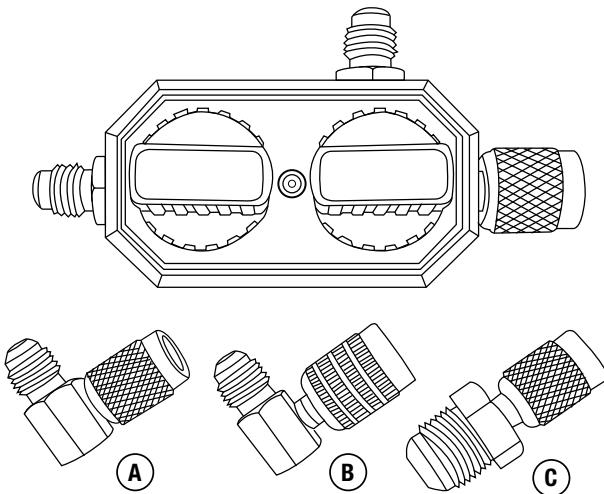
**DEEP VACUUM ISOLATION VALVE ASSEMBLY KIT**

**93105**

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- 3-way ball valve with independent valves to isolate two of the ports
  - 1/4" Flare Male and Female Ports on Each End
  - 1/4" Flare Male Side Port
- Adapters Included:
  - A. 90° Elbow, 1/4 Flare Male to 1/4 Flare Female
  - B. 90° Elbow, 1/4 Flare Male to 5/16 Flare Female
  - C. Straight Adapter, 3/8 Flare Male to 1/4 Flare Female
- Working pressure up to 600 PSI



### WARNING!!

- Wear Safety Glasses / Wear Gloves

### INSTRUCTION FOR USING THE ISOLATION VALVE FOR VACUUM DECAY TESTING

**IMPORTANT** - Make sure the valves on the isolation valve are in the closed position before attaching it to the system.

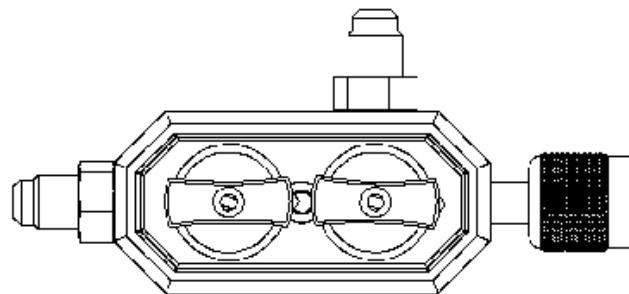
- Using the adapters if needed, attach the isolation valve to the system so one of the ports is pointing up for the vacuum gauge.
- Use the other port on the isolating valve to recover any refrigerant left in the system and pull the desired vacuum.
- The valve for the port pointing up allows the vacuum gauge to be attached at any time.
- Open the valve for the port the vacuum gauge is attached to before the desired vacuum is reached.
- Once the system is at the desired vacuum close the valve for the vacuum pump and record the vacuum level.  
***It is best to remove the hose to the vacuum pump from the isolation valve and put a cap on the fitting.***
- On a large system, it is possible to close the valve to the vacuum gauge and remove it.  
***It would be best to put a cap on the port to the vacuum gauge port as well.***
- Once the desired time has elapsed, recheck the vacuum level in the system. If the vacuum has not increased more than the desired limit, the system is vacuum tight.
- If oil is going to be added to the system and/or it is going to be charged through the isolation valve, the valve to the vacuum port can be closed to isolate the vacuum gauge from oil contamination and the high pressure of the system.

## DEEP VACUUM ISOLATION VALVE POSITIONS

Vacuum Gauge Connection Port is **OPEN**

Vacuum Connection  
Port is **OPEN**

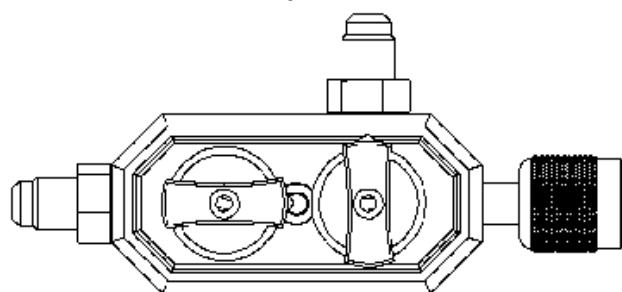
System Connection  
Fitting is **OPEN**



Vacuum Gauge Connection Port is **CLOSED**

Vacuum Connection  
Port is **OPEN**

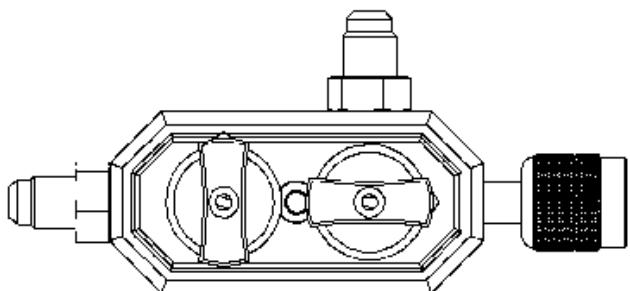
System Connection  
Fitting is **OPEN**



Vacuum Gauge Connection Port is **OPEN**

Vacuum Connection  
Port is **CLOSED**

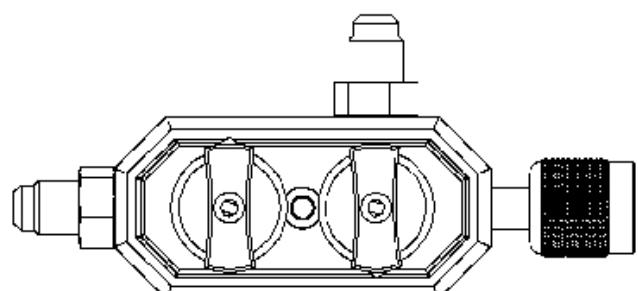
System Connection  
Fitting is **OPEN**



Vacuum Gauge Connection Port is **CLOSED**

Vacuum Connection  
Port is **CLOSED**

System Connection  
Fitting is **OPEN**



For parts or service please contact the service department