

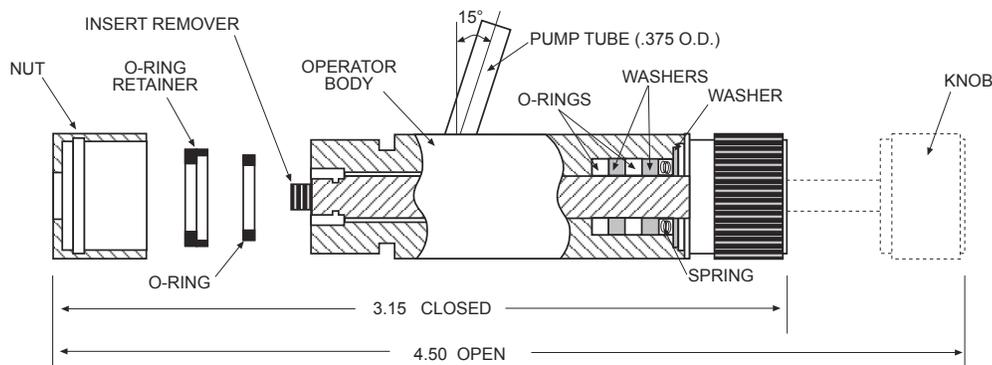


The M204 and M205 series metal dewars come fully evacuated for pour fill LN<sub>2</sub>. Dewar hold times of six to eight hours will be maintained for approximately one to one and one-half years. After this time, outgassing will degrade the vacuum and repumping will be necessary.

Never repump the dewar unless necessary (i.e. short dewar hold times). Teledyne Judson will repump the dewar and recalibrate the detector using clean vacuum systems and elevated temperatures to give the longest life between pump outs.

If the customer desires to pump the dewar himself, there is a special pump out valve (VOM-1) available. Instructions for using this valve are as follows:

1. Remove the phenolic valve cap.
2. Install the operator and tighten the gland seal nut.
3. Screw the valve operator stem into the valve insert. (CAUTION! Do not pump the vacuum line until the stem is screwed into the insert.)
4. Evacuate the vacuum line to the dewar and while pumping pull the plug from the valve.
5. Pump twenty-four to forty-eight hours at  $10^{-6}$  Torr vacuum.
6. While still pumping, slowly reinsert the plug into the valve. Watch the vacuum gauge to make sure that when the valve is closed, air is not forced into the dewar.
7. Unscrew the valve operator from the plug. (The thread lead on the first thread can be felt when turning valve operator counter clockwise.)
8. Turn off vacuum pump or close the system operating valve.
9. Remove the valve operator from the vacuum pump.
10. Remove the valve operator from the dewar.
11. Reinstall the phenolic cap onto the dewar.



**VOM-1**

Information in this document is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.