



MM1322 Relief Valve

Mink MM1322 Relief Valve Setting



Busch MM1322's relief valves come from the factory set at SEA LEVEL for general use. If the pump is to go into elevation over 1000 ft. The relief valve will need adjustment. This can be done on Busch or Powerex shop floors, but will still need to be validated once on site. Validation on site is required to ensure the pump is operating at the correct vacuum levels.

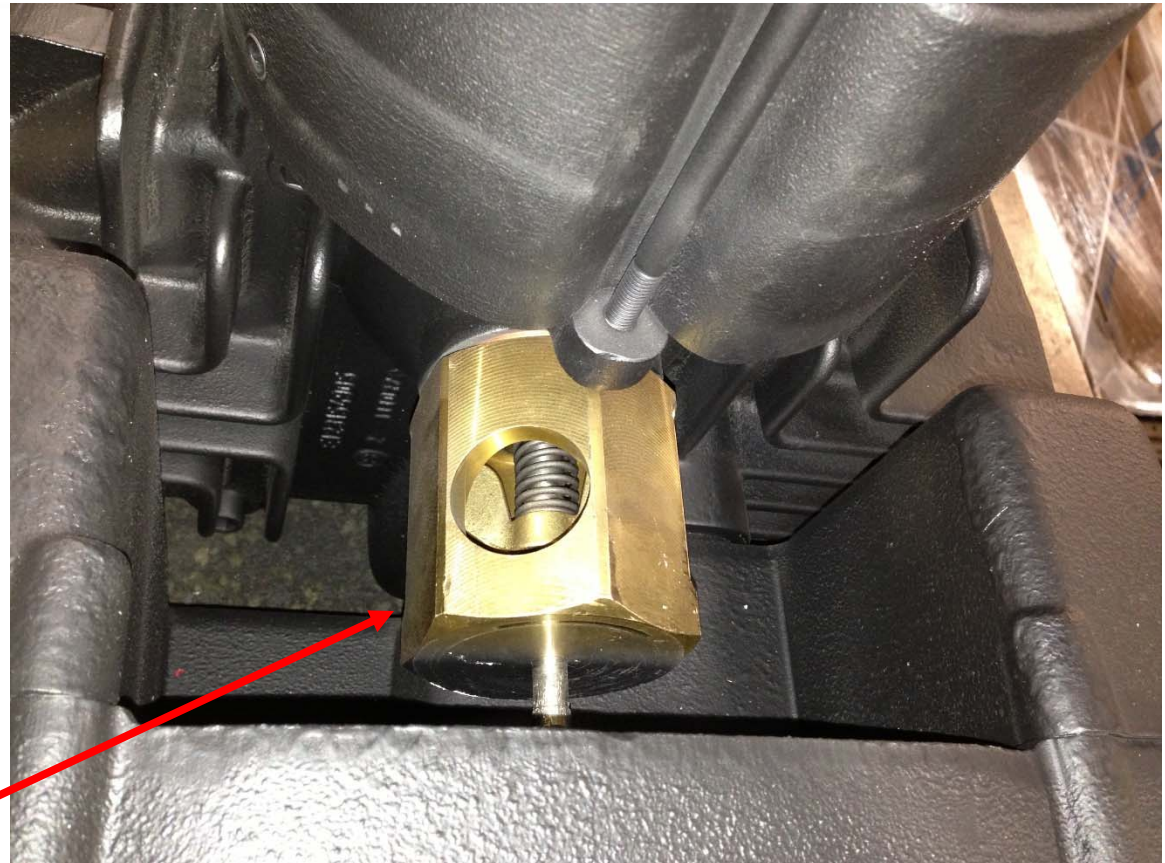
Tools needed:

- Large channel lock plyers
- 2mm Allen key
- Vice grip
- Vacuum gauge
- Loctite

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- Start with the pump shut down and locked against inadvertent start up.
- The pump will also need to be isolated from the system.
- Vacuum levels will need to be taken off the pump, and NOT off the system! You want the reading to come only from the pump, readings from the system will not correlate directly to the vacuum at the pumping changer!
- The relief valve has two locking screws. If one of the relief valve screws is facing down, you will need to spin the valve 180 degrees to expose it.



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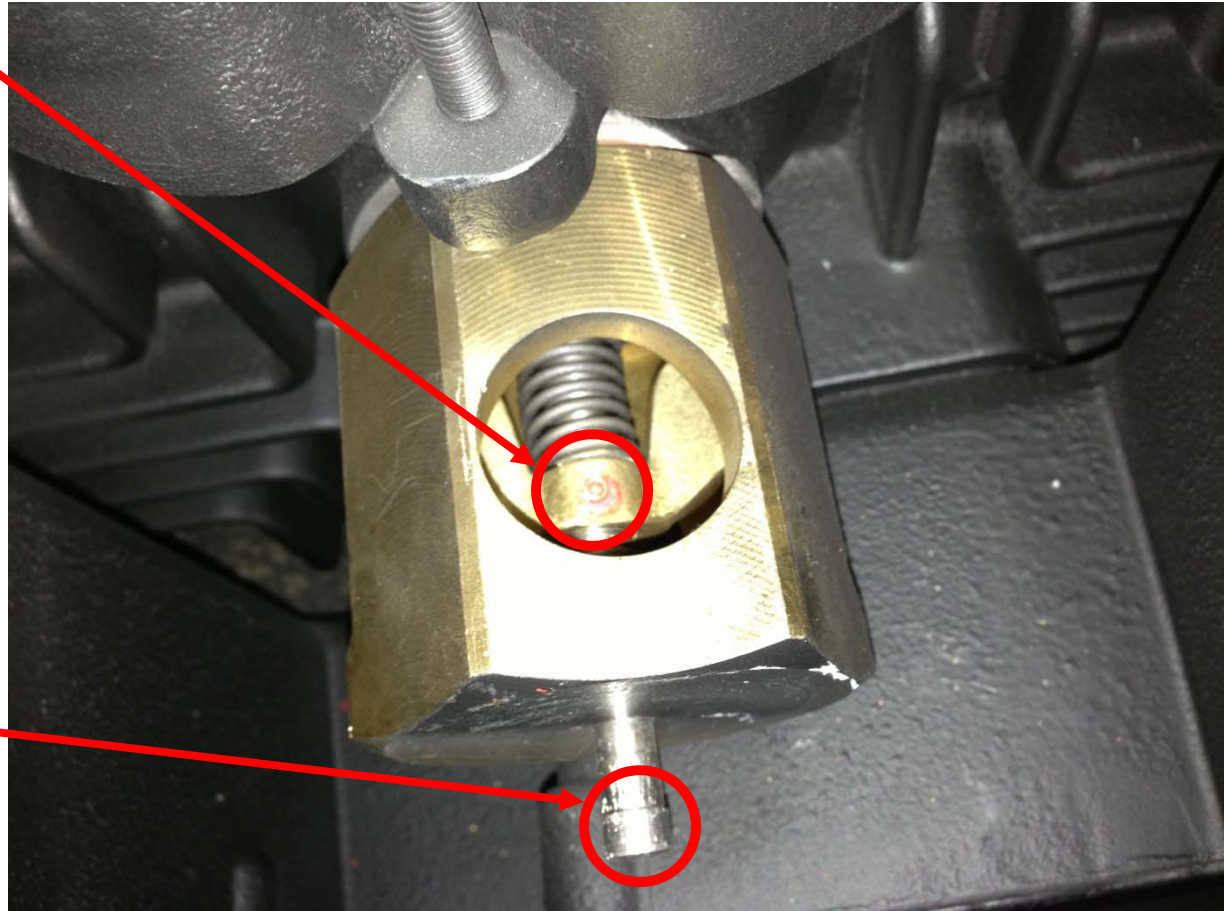
- To turn the valve use a large pair of channel locks or a wrench that can fit in the spacing while fitting over the valve.
- Spin the valve counter clock wise to loosen.
- Once the valve is loose spin it 180 degrees to expose the set screw that locks in the relief valve setting.



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- Using a 2mm Allen wrench and remove both set screws. This is done with the **PUMP OFF**. This set screw can be sucked into the pump if it is running.
- With the set screw removed the valve can now be adjusted.
- Adjust the valve using the Allen head at the end of the valve.
- Using a pair of vice grips or an allen wrench you can tighten the screw for deeper vacuum or loosen the screw for less vacuum.



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- ┌ •After the valve has been adjusted tighten the entire valve again and run.
- If the vacuum levels are satisfactory:
 - Loosen the valve again to expose the set screws.
 - Reinstall the set screws with loctite.
 - Tighten the valve again.
 - Finished.
- If the vacuum levels are not satisfactory:
 - Adjust the end of the valve until satisfactory
 - After levels are met, revert to the above bullets.

Relief valve settings:

- 125 torr +/- 12.5 torr (25.5"Hg +/- 0.5"Hg)