



STEP-BY-STEP GUIDE: ADJUSTING A 4-WAY VALVE ON A VACUUM BLOWER

NVE 4-way valves operate using a tapered plug design. Spring pressure forces the plug into a tapered seat to create a seal. Over time, normal wear may require the valve to be adjusted to maintain proper operation.

Always follow your equipment manufacturer's recommendations.

1. Loosen the Locking Nuts

- Place two 9/16" wrenches on the valve: One on the top jam nut and one on the bottom adjustment nut.
- Loosen the top jam nut by turning it counterclockwise.
- Back both nuts off from their tightened position.

2. Confirm the Valve Is Locked

- Valve handle should be in a locked position after nuts are loosened.

3. Set the Initial Adjustment

- While the valve handle is in the locked position, turn only the bottom adjustment nut clockwise until it is hand tight.

4. Adjust the Valve

- Place one hand on the valve handle.
- Using a wrench, slowly tighten the bottom adjustment nut.
- Continue tightening only until the valve handle releases from the locked position and begins to move freely. Stop tightening as soon as the handle moves smoothly.

Important: Excessive tightening can reduce valve performance and cause a loss of vacuum.

5. Lock the Adjustment in Place

- Hold the bottom adjustment nut in position with one wrench. Be careful not to tighten the bottom adjustment nut any further during this step.
- Using a second wrench, tighten the top jam nut against the bottom adjustment nut.

6. Verify Proper Operation

- Rotate the valve handle through its full range of motion. Confirm that the handle moves freely, rotates smoothly and does not bind or stick.

Important Note

- Overtightening the adjustment can pull the tapered plug too far out of its seat, preventing proper sealing. This may prevent the valve from sealing properly. An improperly adjusted valve can result in a loss of ultimate vacuum in the tank.