

U-Phos® HiFlo System

Technical Bulletin: PH3 Check Valve Cleaning & Verification of Proper Operation

Service Frequency: N/A

Replacement: Every 300 hours of operation

1. To mark the correct flow of PH3 through the check valve use a sharpie marker to place an arrow pointing **upward** on the side of the check valve body. Proper operation **MUST always** have the arrow pointing **upward**.
2. Using an 18-millimeter wrench to support the check valve body, use an 11-millimeter wrench to loosen the two nuts/lines. This will allow you to carefully remove the check valve body.
3. Remove **CO2 Check Valve** (see corresponding Technical Bulletin) and set aside (ensure direction of flow is marked).
4. Attach the PH3 Check Valve with arrow pointing **downward** to the top line where the CO2 Check Valve was removed.
5. With a **Food Grade Gas CO2** cylinder attached to the HiFlo unit, slowly open the cylinder. (**HiFlo should not be running at any time during this process.**)
6. With safety glasses on, verify CO2 is flowing through the check valve (You should hear and see the gas flowing out of the bottom of the check valve body).
7. Let the CO2 flow through the check valve for at least 30 seconds so that it properly flushes any potential debris out of the valve.
8. After flushing, turn the CO2 cylinder off (There should be no more CO2 escaping from the valve, and this concludes the cleaning of the check valve).
9. Using an 18-millimeter wrench to support the check valve body, use an 11-millimeter wrench to loosen the nut/line at the top of the check valve body. (Allows you to carefully remove the check valve body).
10. Turn the check valve body with the arrow pointing **upward**.
11. Reattach and tighten top nut with an 11-millimeter wrench to the check valve body, ensuring you support the body of the check valve with the 18-millimeter wrench. (Do not reattach the bottom nut).
12. Slowly open CO2 cylinder. There should be **no** flow of CO2 out of the bottom of the check valve body. If CO2 flows out of the bottom, the check valve is malfunctioning and should be replaced.
13. Turn CO2 cylinder off.

14. Remove the **PH3 Check Valve** body with the appropriate wrenches and reattach to its original operating position with the arrow pointing **upward**.
15. Return the **CO2 Check Valve** to its original operating position with the arrow pointing **downward**.
16. Tighten all fittings to a snug fit, then apply an additional one-quarter turn.
17. If you encounter resistance beyond normal operation or have questions, contact us at bwarren@degeschamerica.com.
18. Section Recap: Ensure both valve body's are reattached with arrows in the correct operating position and secure all fittings to specification.

**PH3 Check
Valve (Left)**



**Flushing with
CO2**



**Verify Properly
Working**



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